Phase One Environmental Site Assessment - Bronte Creek Meadows - 5164, 5366, 5470 and 5900 Upper Middle Road and 5201 Mainway, Burlington, Ontario

December 11, 2024

Prepared for:
Alinea Land Corporation

Cambium Reference: 21199-001

CAMBIUM INC.

866.217.7900

cambium-inc.com

Table of Contents

1.0 Executive Summary 1

2.0 Introduction 2

2.1 Phase One Property Information 2

2.2 Current and Proposed Future Use 4

3.0 Scope of Investigation 5

4.0 Records Review 6

4.1 General 6

4.1.1 Phase One Study Area Determination 6

4.1.2 First Developed Use Determination 6

4.1.3 Fire Insurance Plans 7

4.1.4 Chain of Title 7

4.1.5 Environmental Reports 8

4.2 Environmental Source Information 9

4.2.1 City Directories 10

4.2.2 ERIS Data 11

4.2.3 Coal Gasification Plants 20

4.2.4 Waste Disposal Site Inventory 20

4.2.5 Freedom of Information 20

4.2.6 Brownfields Environmental Site Registry 21

4.3 Physical Setting Sources 21

4.3.1 Aerial Photographs 22

4.3.2 Topography, Hydrology, and Geology 22

4.3.3 Fill Materials 23

4.3.4 Water Bodies and Areas of Natural Significance & Ground Water Information 23

4.3.5 Well Records 24

4.4 Site Operating Records 24

5.0 Interviews 25

6.0 Site Reconnaissance 26

6.1 General Requirements 26
6.2 Specific Observations at Phase One Property 26
6.2.1 Structures and Other Improvements 27
6.2.2 Underground Utility and Service Corridors 28
6.2.3 Storage Tanks – Above Ground and Underground 28
6.2.4 Oil/Water Separators 28
6.2.5 Potable Water Sources 28
6.2.6 Entry and Exit Points 28
6.2.7 Heating and Cooling Systems 28
6.2.8 Drains, Pits, and Sumps 28
6.2.9 Unidentified Substances 29
6.2.10 Current and Former Wells 29
6.2.11 Septic Fields 29
6.2.12 Ground Surface Conditions 29
6.2.13 Railway Lines or Spurs 29
6.2.14 Stained Soil, Vegetation, or Pavement 30
6.2.15 Stressed Vegetation 30
6.2.16 Fill and Debris Materials 30
6.2.17 Unidentified and Other Hazardous Substances 30
6.2.18 Adjacent Land Uses and Environmental Concerns 30
6.2.19 Enhanced Investigation Property 31
6.3 Written Description of Investigation 31

7.0 Review and Evaluation of Information 32

7.1 Current and Past Uses 32
7.2 Potentially Contaminating Activity 32
7.3 Areas of Potential Environmental Concern 33
7.4 Phase One Conceptual Site Model 33

7.4.1 Site Description 34
7.4.2 Existing Buildings and Structures 34
7.4.3 Water Bodies and Areas of Natural Significance 34
7.4.4 Drinking Water Wells 35
7.4.5 Potentially Contaminating Activities 35
7.4.6 Areas of Potential Environmental Concern 36
7.4.7 Contaminants of Potential Concern 37
7.4.8 Contaminant Distribution and Transport 37
7.4.9 Geological and Hydrogeological Setting 37
7.4.10 Uncertainty or Absence of Information 38

8.0 Conclusions 39

8.1 Requirement for a Phase Two Environmental Site Assessment 39
8.2 Signatures 39

9.0 References 40

10.0 Standard Limitations 42

List of Appended Figures

Figure 1 Site Location Map
Figure 2 Site Plan and Surrounding Land Use
Figure 3 Conceptual Site Model – Phase One Study Area
Figure 4 Conceptual Site Model – Phase One Site Plan
Figure 5 1934 Aerial Image
Figure 6 1965 Aerial Image
Figure 7 1979 Aerial Image
Figure 8 1999 Aerial Image
Figure 9 2010 Aerial Image
Figure 10 2013 Aerial Image
Figure 11 2023 Aerial Image

List of Appended Tables

Table 1 Table of Current and Past Land Uses – PIN 07183-0189
Table 2 Table of Current and Past Land Uses – PIN 07183-0212
Table 3 Table of Current and Past Land Uses – PIN 07183-0213
Table 4 Table of Current and Past Land Uses – PIN 07183-1254
Table 5 Table of Current and Past Land Uses – PIN 07183-1218
Table 6 Potentially Contaminating Activities
Table 7 Areas of Potential Environmental Concern

List of Appendices

Appendix A Plan of Survey
Appendix B Opta
Appendix C Chain of Title
Appendix D City Directories
Appendix E ERIS Report
Appendix F Freedom of Information
Appendix G Aerial Photo Summary
Appendix H Photographs

1.0 Executive Summary

Alinea Land Corporation (Client) retained Cambium Inc. (Cambium) to complete a Phase One Environmental Site Assessment (ESA) at Bronte Creek Meadows in Burlington, Ontario (Site or Phase One Property). The municipal addresses of the Site are 5164, 5366, 5470 and 5900 Upper Middle Road and 5201 Mainway in Burlington, Ontario. The Phase One ESA was completed to meet the requirements of Ontario Regulation (O.Reg.) 153/04 to support a Site Plan Approval application.

The roughly 126 hectare (312 acre) Site is located southeast of Upper Middle Road, southwest of Burloak Drive and northwest of Mainway in Burlington, Ontario. The first developed land use at the Site was for agricultural/residential operations prior to 1934.

The Phase One ESA identified thirty-four potentially contaminating activities (PCAs), four on-site and thirty off-site, within the phase one study area. The off-site PCAs are not considered to result in areas of potential environmental concern (APECs) at the Phase One Property given the nature of operations, their distance from the Phase One Property and/or their down-gradient or cross gradient location. The four on-site PCAs related to fill of unknown quality and agricultural operations contributed to four APECs at the Site. The related contaminants of potential concern (COPCs) were petroleum hydrocarbons (PHCs), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), metals, hydride-forming metals (antimony (Sb), arsenic (As), selenium (Se)), organochlorine pesticides, cyanide (CN-), hot water soluble boron (B-HWS), hexavalent chromium (Cr(VI)), mercury (Hg), electrical conductivity (EC), and sodium adsorption ration (SAR).

The potentially contaminated media was soil. Groundwater was not deemed to be a media of concern based on the APECs identified.

Based on the observations and information obtained for the site during the Phase One ESA, a Phase Two ESA is required.

2.0 Introduction

The Client retained Cambium to complete a Phase One ESA at the Site. It is understood that the Regional Municipality of Halton and the City of Burlington require the completion of a Phase One ESA for the Site consistent with O.Reg. 153/04 to support a Site Plan Approval application.

2.1 Phase One Property Information

The Site is on the southeast side of Upper Middle Road, the southwest side of Burloak Drive and the northwest side of Mainway, in Burlington, Ontario. Site information and property owner information are summarized below. The Phase One Property location is shown on Figure 1. A plan of survey is provided in Appendix A.

Property use surrounding the Site is as follows:

Northwest – Upper Middle Road followed by residential / commercial (office, dental office, restaurants)

Northeast – Burloak Drive followed by Bronte Creek Provincial Park

Southeast – Mainway followed by industrial / commercial (retail fuel outlet, print shop, etc.)

Southwest – Residential

The Site and surrounding land uses are shown on Figure 2

Site Identification Information

Municipal Address	5164, 5366, 5470 and 5900 Upper Middle Road and 5201 Mainway, Burlington, Ontario
Historical Land Use	Agricultural, residential
Current Land Use	Agricultural
Future Land Use	Mixed commercial and residential/parkland
PIN	07183-0189 07183-0212 07183-0213 07183-1218 07183-1254
Universal Transverse Mercator Coordinates*	Zone 17T 599165 m E, 4805966 m N
Legal Description	Part 1 on 20R-10977, Parts 2 and 3 on 20R-12331, Part 1 on 20R-10140, Parts 1 and 2 on 20R-7372, Parts of Lots 1, 2, 3 and 4, Concession 2 South of Dundas (Township of Nelson); City of Burlington, Regional Municipality of Halton
Site Area	≈126 ha (312 acres)

* The Universal Transverse Mercator measurements were obtained from Google Earth Pro.

Property Owner Information

Property Owner	Contact Information
PIN No. 07183-0189 Paletta Bros. Four Ltd.	Dave Pitblado Director of Real Estate Development Alinea Land Corporation 4480 Paletta Court Burlington, Ontario L7L 5R2 Phone: 905.632.6036 ext. 404 Email: dpitblado@thealineagroup.ca
PIN No. 07183-0212 Qualico Foods (1994) Inc.	
PIN No. 07183-0213 Paletta International (1990) Inc.	
PIN No. 07183-1218 2362303 Ontario Inc.	
PIN No. 07183-1254 2362302 Ontario Inc.	

2.2 Current and Proposed Future Use

The Site is currently vacant and undeveloped. From approximately 1948 to 2013/2014, the Site was used for agricultural/residential purposes, with woodland and two watercourses (Sheldon Creek and a tributary of Bronte Creek).

Cambium understands the Client intends to develop the Site for residential, commercial, community and parkland land uses.

3.0 Scope of Investigation

This Phase One ESA was completed as specified in Schedule D of O.Reg. 153/04 and follows the mandatory reporting requirements stipulated in Table 1 of the schedule. This Phase One ESA included the following:

- A review of pertinent background and historical information including documents such as aerial photographs and topographic maps (as available)
- Review and summary of available environmental records obtained for the Site from the client and/or public and private sources
- Interviews with persons knowledgeable of the Site and adjacent properties and freedom of information requests
- A site reconnaissance including visual observation of properties within the phase one study area from publicly accessible areas
- Preparation of this report documenting the findings of the Phase One ESA and recommendations for further work, if required, to assess the environmental condition of the Site

This Phase One ESA report describes the methods used to document and identify PCAs associated with the Site and neighbouring properties within the phase one study area. While this report considers said environmental concerns, both past and present, it is limited by the availability of information obtained at the time of the assessment. No subsurface investigation or sampling was completed as part of the Phase One ESA.

4.0 Records Review

This assessment was based on a review of the following records. A detailed list of sources referenced in this Phase One ESA is presented in Section 9.0.

- Aerial photographs
- Business directories
- Chain of Title
- Fire insurance plans (FIPs) and property underwriters' reports
- An Environmental Risk Information Services Ltd. (ERIS) search of numerous provincial, federal, and private databases
- Ministry of the Environment, Conservation and Parks (Ministry) records
- Technical Standards and Safety Authority (TSSA) records
- Available reports, maps, and other information

4.1 General

4.1.1 Phase One Study Area Determination

O.Reg. 153/04 defines the phase one study area as the area that includes the Phase One Property, any other property that is located, wholly or partly, within 250 m from the nearest point on the phase one property boundary, and any property that the Qualified Person (QP_{ESA}) determines should be included as a part of the phase one study area.

Based on a review of current and historical land uses at the Site and surrounding properties, topography, and groundwater flow direction, the QP_{ESA} considered the area within 250 m from the property boundary sufficient to identify PCAs and APECs.

4.1.2 First Developed Use Determination

The first developed use of the Phase One Property is defined by O.Reg.153/04 to be the earlier of (a) the first use of a Phase One Property in or after 1875 that resulted in the

development of a building or structure on the property, and (b) the first potentially contaminating use or activity on the Phase One Property.

A review of aerial photographs, business directories, FIPs, and property ownership information was completed to determine the first developed land use for the Site. The chain of title review and aerial image review, which provided the oldest available property information, indicated that the Site was used for agricultural/residential operations prior to 1934.

4.1.3 Fire Insurance Plans

Cambium requested FIPs, inspection reports, and plans from Opta Information Intelligence (Opta). No records were available for review.

4.1.4 Chain of Title

A Chain of Title dating back to 1817 was reviewed to support the determination of first developed land use for the Site and identify PCAs. Copies of the Chain of Title documents are provided in Appendix C. Property ownership and use details are presented in Table 1 to Table 5.

The chain of title review identified the following:

- Various portions of the Phase One Property were first transferred from Crown between 1817 and 1846.
- There are permanent easements over the north portion of the Phase One Property for natural gas pipelines now owned by Enbridge and for an electric corridor. The natural gas easement was established in 1957. The electrical easement was established in 1954.

At the time of this report, the Phase One Property was owned by the following:

Property Owner Information

Property Owner	Property Information
Paletta Bros. Four Ltd.	PIN No. 07183-0189 PT PCL 2-3 , SEC N11 ; PT LT 3 , CON 2 NEL SDS, PT 1, 20R10977; BURLINGTON.

	S/T EASE IN FAVOUR OF PT LT 3, CON 2 SDS, PT 2, 20R10977 OVER PT LT 3, CON 2 SDS, PT 1, 20R10977 AS IN 539613. S/T EASE H849278 OVER PT 14, 20R13554
Qualico Foods (1994) Inc.	PIN No. 07183-0212 PCL 2-4 , SEC N11 ; PT LT 2 , CON 2 NEL SDS, PTS 1-2, 20R7372; BURLINGTON. T/W PT 3 & 4, 20R7372 AS IN NU9900 & 16314. S/T 62756,H426281. S/T EASE H849279 OVER PT 11, 20R13554.
Paleta International (1990) Inc.	PIN No. 07183-0213 PT LT 1 , CON 2 SOUTH OF DUNDAS STREET , PART 1 , 20R10140 ; S/T 63531 ; T/W NU38051 IF ANY(ADDED 99/02/08 JM LR); BURLINGTON
2362303 Ontario Inc.	PIN No. 07183-1218 PT LTS 3 & 4, CON 2 SDS, PTS 2 & 3 20R12331 EXCEPT PTS 1 & 2 PE234 & PTS 1 & 2 PE237. T/W 531325. S/T 63098. S/T EASE H849280 OVER PTS 5 & 8 20R13554. S/T PERMANENT EASEMENT PE234 OVER PT 3 PE234.(PARTIALLY RELEASED FROM PT 1 ON 20R17771 AS IN HR935109.); CITY OF BURLINGTON
2362302 Ontario Inc.	PIN No. 07183-1254 PT LT 1, CON 2 SDS NEL AS IN 554662 S&E PTS 1 TO 4, 7,8 & 9, 20R18145. S/T 63531. S/T EASE IN GROSS OVER PT 10, 20R18145 AS IN HR742010.; CITY OF BURLINGTON

No pertinent listings contributing to PCAs were identified.

4.1.5 Environmental Reports

Cambium made appropriate inquiries to obtain copies of the following reports prepared in respect of all or part of the Site by or on behalf of a current or former owner respecting

environmental conditions at the Site as listed in Schedule D, paragraph 4, subsection 3 (2) of O.Reg. 153/04:

- ESA reports
- Remediation reports
- Reports prepared in response to an order or request from the Ministry
- Reports relating to the presence of a contaminant on, in, or under the Site, or the existence of an APEC

No previous environmental reports were provided for Cambium to review.

4.2 Environmental Source Information

Cambium made inquiries appropriate to obtain reasonably accessible records pertaining to the Site, including the following, as listed in Schedule D, paragraph 7, subsection 3 (2), of O.Reg. 153/04:

- National Pollutant Release Inventory information maintained by Environment Canada
- Polychlorinated biphenyl (PCB) information maintained by the Ministry
- Certificates of approval, permits to take water, certificates of property use or similar instruments related to the environmental condition of the phase one property and any property on, under or adjacent to the phase one property and issued pursuant to an Act administered by the Ministry, whether in force or not
- The *Inventory of Coal Gasification Plant Waste Sites in Ontario* (MOE, 1988b) and the *Inventory of Industrial Facilities Producing or Using Coal Tar or Related Tars in Ontario* (MOE, 1988a)
- Records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the Ministry where the incident, order, offence, spill, discharge or inspection affects the phase one property and any property on, under or adjacent to the phase one property

- Waste management records, including current and historical waste storage locations and waste generator and waste receiver information maintained pursuant to Regulation 347 of the Revised Regulations of Ontario, 1990 (General — Waste Management) made under the Act, or its predecessors with respect to the Phase One Property and any property on, under or adjacent to the Phase One Property
- Reports submitted to the Ministry related to the environmental conditions of the Phase One Property and any property on, under or adjacent to the Phase One Property
- Retail fuel storage tanks information maintained by the Technical Standards and Safety Authority
- Notices and instruments, including Records of Site Condition (RSCs), posted in the Environmental Registry
- Identification of areas of natural significance maintained by the Ministry of Natural Resources and Forestry
- Landfill information maintained by the Ministry - *Waste Disposal Site Inventory* (MOE, 1991)

4.2.1 City Directories

Cambium conducted a review of city directories for the Phase One property and neighbouring properties. Directories were reviewed in about 5 year increments from 1960 to 2010 at Library and Archives Canada in Ottawa, Ontario. Based on Cambium's review of city directories, the following was noted for the Phase One Property:

- 5164 Upper Middle Road was listed as residential from 1965 to 1995.
- 5470 Upper Middle Road was listed as residential from 1965 to 1980.
- Upper Middle Road was not listed in the 1960 city directory.

The majority of the surrounding properties were listed as residential with the following notable exceptions:

- Suncor Energy was listed at 5600 Mainway in 2010. This property is located approximately 30 m southeast and down-gradient of the Site. Based on the 2023 aerial photography, the pump islands are located approximately 50 m southeast of the Site and the UST nest is located approximately 75 m southeast of the Site (inferred down-gradient). This operation is a PCA. Based on the distance of the pump island and UST nest from the Site, this PCA does not represent an APEC at the Phase One Property.

A summary of the directory listings for the Site and surrounding properties is included in Appendix D.

4.2.2 ERIS Data

ERIS is a private environmental database and information service company. Cambium contracted ERIS to provide a database report for the phase one study area (ERIS, 2024). The ERIS report summarizes the findings of a search of various federal, provincial, and private source databases for all properties within 250 m from the site boundary. The ERIS report is presented in Appendix E.

On-Site Records

The following environmentally significant records were identified for the Site:

- The Waste Disposal Sites - MOE 1991 Historical Approval Inventory indicated that Site No. A210103 was located on Site. This historical waste disposal site was Class A1 – industrial liquid and hazardous wastes and closed in 1974.
- Anderson's Waste Disposal Sites database indicated that a closed waste disposal site was located north of the gas pipeline, south of Highway 5 (Dundas Street), adjacent to Millcroft Park Drive, near Sheldon Creek.

Based on Cambium's review of aerial photographs and site reconnaissance, no evidence of historical waste disposal activities were observed on-Site. Additionally, based on the information obtained from the Ministry of the Environment, Conservation and Parks through the FOI request, Waste Site No. A210103 is known as the closed Bayview Park Landfill which is

located on the west side of King Road, north of Highway 403 within the City of Burlington, which is approximately 10 km west of the Phase One Property.

Based on the description of the waste disposal site in Anderson's Waste Disposal Sites database, Millcroft Park Drive is located approximately 1 km west of the Phase One Property.

The Site Representative also indicated that the MECP attended the Phase One Property in 2015 following a complaint from a local resident about illegal dumping / waste disposal activities within Sheldon Creek. It is Cambium's understanding that this issue was addressed to the satisfaction of the local district office of the Ministry of the Environment, Conservation and Parks in 2015.

As a result, these waste sites are not deemed to be PCAs for the Phase One Property.

Off-Site Records

The following environmentally significant records were identified for properties within the phase one study area.

<u>Intersection of Mainway and Sutton Drive (15 m down-gradient)</u>

- Two Cs-of-A were issued to Limeside Development in 1989 for municipal water and municipal sewage. Based on the nature of the operations, these Cs-of-A do not represent PCAs.

<u>5600 Mainway (30 m down-gradient)</u>

- A C-of-A and an ECA for industrial sewage works were issued to Suncor Energy Products Inc. in 2007.
- The Delisted Fuel Tanks database indicated that a retail fuel outlet operated at this property as of May 2021.
- The Fuel Storage Tank database indicated that the following USTs were installed at this property in 2006:
    - 3 x 50,000 L double-wall fiberglass UST containing gasoline

  - 2 x 50,000 L double-wall fiberglass UST containing diesel
- Suncor Energy was listed as a generator of hazardous wastes (i.e., light fuels) from 2006 to 2022.

The operations at this property represent a PCA. The pump islands were located approximately 50 m southeast of the Site and the UST nest was located approximately 75 m southeast of the Site (inferred down-gradient). Based on the distance of the pump island and UST nest from the Site, the inferred groundwater flow direction and the lack of spill records presented in the ERIS report, this PCA does not represent an APEC at the Phase One Property.

5480 Mainway (30 m down-gradient)

- Bioshop Canada Inc. was listed in the Chemical Register as a distributor of chemicals. These operations represent a PCA. Based on the nature of the operations (i.e., distributor) and inferred down-gradient location of this property, this PCA does not represent an APEC.

5450 Mainway (30 m down-gradient)

- Hearthland, a wood kitchen cabinet and counter top manufacturer, was listed as a generator of hazardous wastes (i.e., petroleum distillates and aromatic solvents) from 2004 to 2010.
- Infinity Group Construction was listed as a generator of hazardous wastes (i.e., paint / pigment / coating residues, petroleum distillates, organic laboratory chemicals, and waste compressed gases) from 2018 to 2022.

The generation of hazardous wastes at this property represent PCAs. Based on the inferred groundwater flow direction, these PCAs do not represent APECs at the Phase One Property.

5420 Mainway (30 m down-gradient)

- Cs-of-A for air emissions were issued to ALS Canada Ltd. in 2005 and in 2011. ECAs for air emissions were also issued to ALS Canada Ltd. in 2005 and 2011. Based on the nature of the emissions (i.e., to air), these Cs-of-A and ECAs do not represent PCAs at the Phase One Property.
- ALS Canada Ltd. was listed as a generator of hazardous wastes (i.e., halogenated solvents, other inorganic acid wastes, aliphatic solvents, and other specified inorganics) from 2005 to 2015. Based on the nature of the operations (i.e., analytical laboratory), the generation of hazardous wastes by this tenant does not represent a PCA.
- The Ontario Spills database indicated that on September 21, 2010, an estimated 40 L of hydraulic oil was spilled to the asphalt ground surface at this property. Soil contamination was confirmed and the spill was reportedly cleaned. Based on the relatively small quantity of the spill and the downgradient location of the spill, this spill is a PCA but does not represent an APEC at the Phase One Property.

5250 Mainway (30 m down-gradient)

- Invitrogen Canada and Life Technologies Inc. were listed as generator of hazardous wastes (i.e., pathological wastes, organic laboratory chemicals and inorganic laboratory chemicals) from 2007 to 2013.
- Melrose Investments Inc. was listed as a generator of hazardous wastes (i.e., oil skimmings and sludges) from 2018 to 2019.
- Thermo Fisher Scientific was listed as a generator of hazardous wastes (i.e., petroleum distillates, organic laboratory chemicals and inorganic laboratory chemicals) from 2018 to 2022.

The generation of hazardous wastes at this property represent PCAs. Based on the inferred groundwater flow direction, these PCAs do not represent APECs at the Phase One Property.

5330 Mainway (30 m down-gradient)

- Amhil Enterprises, a plastic manufacturer, was listed as a generator of hazardous wastes (i.e., aliphatic solvents and waste oils and lubricants) from 2002 to 2022.
- Amhil Enterprises was listed in Scott's Manufacturing Directory as a plastic manufacturer.
- An ECA was issued to Amhil Enteprises for operation of an exhaust system, cooling towers and natural gas-fired HVAC equipment at 5330 Mainway in 2002.

The plastic manufacturing operations represent a PCA. Based on the inferred groundwater flow direction, this PCA does not represent an APEC at the Phase One Property.

5300 Mainway (30 m down-gradient)

- Konecranes Canada Inc., a machine shop, was listed as generator of hazardous wastes (i.e., petroleum distillates, transfer station oil wastes) from 2014 to 2022.
- Melrose Investments Inc. was listed as a generator of hazardous wastes (i.e., oil skimmings and sludges) from 2018 to 2019.

The machine shop operations and generation of hazardous wastes at this property represent PCAs. Based on the inferred groundwater flow direction, these PCAs do not represent APECs at the Phase One Property.

5200 Mainway (30 m down-gradient)

- CPC Pumps, a machine shop, was listed as generator of hazardous wastes (i.e., waste oils and lubricants, alkaline wastes – other metals, paint / pigment / coating residues, petroleum distillates, light fuels, and emulsified oils) from 2009 to 2022.
- Melrose Investments Inc. was listed as a generator of hazardous wastes (i.e., oil skimmings and sludges) from 2012 to 2019.
- CPC Pumps International Ltd. was listed in Scott's Manufacturing Directory as a pump and compressor manufacturer.

Based on the nature of the operations, the operations at this property are a PCA. Based on the

inferred groundwater flow direction, this PCA does not represent an APEC at the Phase One Property.

1350 Heine Court (115 m down-gradient)

- Normac Adhesive Products Inc., identified as a wholesaler, was listed as a generator of hazardous wastes (i.e., aliphatic solvents, oil skimmings and sludges, waste oils and lubricants, polymeric resins, paint / pigment / coating residues, and petroleum distillates) from 2009 to 2022.
- Normac Adhesive Products Inc. was listed in Scott's Manufacturing Directory as a wholesaler of chemical products.

The chemical wholesaling operations and associated hazardous waste generation represent a PCA. Based on the distance from the Phase One Property and the inferred groundwater flow direction, this PCA does not represent an APEC at the Phase One Property.

1330 Heine Court (175 m down-gradient)

- The Ontario Spills database indicated that on May 20, 2021, approximately 100 L of diesel was spilled at this property. This spill represents a PCA. Based on the distance of this property from the Site and the inferred groundwater flow direction, this PCA does not represent an APEC.

1240 Burloak Drive (90 m down-gradient)

- ALS Laboratory Group was listed as a generator of hazardous wastes (i.e., acid wastes – other metals, light fuels, acid wastes – heavy metals, halogenated solvents, waste oils and lubricants, and aliphatic solvents) from 2008 to 2017. Based on the nature of the operations (i.e., analytical laboratory), the generation of hazardous wastes by this tenant does not represent a PCA.
- Two ECAs for air emissions were issued to Staveley Services Canada Inc. in 2012 for operation of a laboratory fume hood. Based on the nature of the emissions (i.e., to air), these ECAs do not represent PCAs at the Phase One Property.

1220 Burloak Drive (220 m down-gradient)

- The Ontario Spills database indicated that on March 13, 2013, approximately 350 L of transformer oil was spilled at this property. This spill represents a PCA. Based on the distance of this property from the Site and the inferred groundwater flow direction, this PCA does not represent an APEC.
- K.N. Crowder was listed as a generator of hazardous wastes (i.e., oil skimmings and sludges) from 2005 to 2022. The generation of hazardous wastes represents a PCA. Based on the distance of this property from the Site and the inferred groundwater flow direction, this PCA does not represent an APEC.

5275 John Lucas Drive (135 m down-gradient)

- Controlchem Canada was listed in the Chemical Register database.
- Controlchem Canada was listed as a generator of hazardous wastes (i.e., acid wastes – other metals) from 1999 to 2012.
- CPC Pumps International Ltd. was listed as a generator of hazardous wastes (i.e., oil skimmings and sludges) in 2021.
- The Ontario Spills database indicated that on March 29, 2012 a spill was reported for Sheldon Creek. Sheldon Creek was observed to be white. No further details were included in the Ontario Spills database entry. Based on the limited information, this spill does not represent a PCA.

The operations at this property are a PCA. Based on the distance from the Phase One Property and the inferred groundwater flow direction, this PCA does not represent an APEC at the Phase One Property.

5150 Mainway (30 m down-gradient)

- An EASR was issued to Wentworth Tech Inc. in 2017 for air emissions.
- Ductmate Canada Limited was listed as a generator of hazardous wastes (i.e., graphic art wastes) in 2013.

- Irco Automation Inc. was listed as a generator of hazardous wastes (i.e., paint / pigment / coating residues) in 2020 to 2022.
- Mcorp Technologies Inc., a plastic bottle manufacturer, was listed as a generator of hazardous wastes (i.e., waste oils and lubricants) from 2009 to 2018
- Rowhedge Construction Limited was listed as a generator of hazardous wastes (i.e., oil skimmings and sludges) from 2012 to 2019.
- Mcorp Technologies Inc. and MTI Preforms Limited were listed in Scott's Manufacturing Directory as a plastic bottle manufacturer.

The hazardous waste generation and plastic bottle manufacturing operations at this property are PCAs. Based on the distance from the Phase One Property and the inferred groundwater flow direction, these PCAs do not represent APECs at the Phase One Property.

5276 John Lucas Drive (140 m down-gradient)

- Amcast Industrial Ltd., a plumbing warehouse, was listed as a generator of hazardous wastes (i.e., waste compressed gases) from 1995 to 2001.

Based on the nature of the waste generated, the historical generation of hazardous wastes at this property is not a PCA.

5280 John Lucas Drive (185 m down-gradient)

- A C-of-A was issued to Frost Products Limited in 1995 for industrial air emissions associated with operation of a powder curing oven and metal cleaning unit.
- Frost Products Limited was listed as a generator of hazardous wastes (i.e., organic laboratory chemicals, alkaline wastes – other metals, inorganic laboratory chemicals, wastes oils and lubricants, waste compressed gases, acid wastes – other metals, and paint / pigment / coating residues from 1994 to 2022.
- Frost Products Limited was listed in Scott's Manufacturing Directory as a metal fabricator of metal shelves, lockers and partitions.

The metal fabricating operations are a PCA. Based on the distance from the Phase One Property and the inferred groundwater flow direction, this PCA does not represent an APEC at the Phase One Property.

5295 John Lucas Drive (185 m down-gradient)

- Willard Manufacturing Inc., a soap and cleaning compound manufacturer, was identified at this property. These operations and associated hazardous wastes generation represent a PCA. Based on the distance from the Site, this PCA does not represent an APEC at the Phase One Property.
- RAMPF Composite Solutions Inc., a carbon fibre and fibreglass composite manufacturer, was identified at this property. These operations and associated hazardous wastes generation represent a PCA. Based on the distance from the Site, this PCA does not represent an APEC at the Phase One Property.
- Natrix Separations Inc., a fabric coating manufacturer, was identified at this property. These operations and associated hazardous wastes generation represent a PCA. Based on the distance from the Site, this PCA does not represent an APEC at the Phase One Property.

5305 John Lucas Drive (230 m down-gradient)

- Applus RTD Canada, a metal fabrication operation, was identified at this property. These operations and associated hazardous wastes generation represent a PCA. Based on the distance from the Site, this PCA does not represent an APEC at the Phase One Property.

Additional Waste Generators

Several other properties located within the Phase One study area were listed within the O. Reg. 347 Waste Generators database search results as waste generators and are considered PCAs. Details regarding the types of wastes and timeframe of waste generation are provided in the ERIS report in Appendix E. Based on their location and distance relative to the Phase One Property (i.e., greater than 150 m and/or inferred to be hydraulically down-gradient or cross-gradient of the Phase One Property) and/or the types and/or relatively small

quantities of hazardous wastes generated at these properties, the hazardous waste generation at these properties has not resulted in APECs at the Phase One Property.

4.2.3 Coal Gasification Plants

The *Inventory of Industrial Facilities Producing or Using Coal Tar or Related Tars in Ontario* (MOE, 1988a) was reviewed. No industrial facilities producing or using coal or related tars were identified within 1,500 m of the Site.

The *Inventory of Coal Gasification Plant Waste Sites in Ontario* (MOE, 1988b) was reviewed. No coal gasification plant wastes sites were identified within 1,500 m of the Site.

4.2.4 Waste Disposal Site Inventory

The *Waste Disposal Site Inventory* (MOE, 1991) was reviewed. Based on Cambium's review, the following was noted:

- Site A210103 was located at Lot 1, Concession 2 in Burlington. This historical waste disposal site was identified as class A1, indicating an urban waste disposal site accepting industrial liquid / hazardous wastes.

Based on Cambium's review of aerial photographs and site reconnaissance, no evidence of historical waste disposal activities was observed on-Site. Additionally, based on the information obtained from the Ministry of the Environment, Conservation and Parks through the FOI request, Waste Site No. A210103 is known as the closed Bayview Park Landfill which is located on the west side of King Road, north of Highway 403 within the City of Burlington, which is approximately 10 km west of the Phase One Property. As a result, this waste site is not deemed a PCA for the Phase One Property.

4.2.5 Freedom of Information

Freedom of information (FOI) requests were submitted to the Ministry and the TSSA. Responses are summarized below. Copies of the FOI requests and responses, if available, are included in Appendix F.

Ministry of the Environment, Conservation and Parks FOI Results

An FOI request for 5164, 5366, 5470 and 5900 Upper Middle Road and 5201 Mainway was submitted to the Ministry on August 21, 2024. A response to the FOI request was received on September 10, 20242024, indicating that records were found. A review of these records indicated that they were related to waste generator registration for the Halton Catholic District School Board, and MECP inspection records for Permits to Take Water for Nelson Aggregate Company and the Burlington Springs Golf and Country Club. A subsequent FOI request for Lot 2, 3, and 4 Concession 1 and 2 (known historic Lot 2, 3, 4, Conc 2, 3) Nelson, Burlington was submitted to the Ministry and a response was received on November 15, 2024, indicating that records were found. A review of these records indicated that they were related to the closed waste disposal site No. A210103 which was determined to be approximately 10 km from the Phase One Property. No additional PCAs were identified by these records.

TSSA FOI Results

An FOI request for 5164, 5366, 5470 and 5900 Upper Middle Road and 5201 Mainway was submitted on August 21, 2024. The TSSA reported they had no records for fuel storage tanks for the Site. No additional PCAs were identified by these records.

4.2.6 Brownfields Environmental Site Registry

Cambium searched for RSCs and transition notices filed in the Brownfields Environmental Site Registry. No RSCs or Transition Notices were found for the Site or properties within the phase one study area.

4.3 Physical Setting Sources

The following documents were available for review and were used to supplement the information database for this report.

- Historical aerial photographs
- Topography, hydrology, and geology maps (stratigraphic maps, topographic maps, Ontario base mapping (OBM), etc.)

- Areas of Natural or Scientific Interests (ANSI) maps
- Well records

4.3.1 Aerial Photographs

Aerial photographs dated 1934, 1954, 1965, 1979, 1998, 2002, 2010, and 2023 were reviewed to identify the first developed use of the Site and subsequent on-site activities, buildings, structures, PCAs, and APECs, as per Schedule D, paragraph 9, of O.Reg. 153/04. Detailed observations are provided in Appendix G. The aerial photographs are provided as Figure 5 to Figure 11.

Review of the aerial photographs indicated that the Site was developed for agricultural/residential use prior to 1934 including row crops and inferred orchards in the north and northwest portions of the Site. The use of the site for agricultural/orchards would indicate the potential use of OC pesticides on site and would be a PCA. No other PCAs were identified based solely on a review of the aerial photographs.

4.3.2 Topography, Hydrology, and Geology

Review of available topographic mapping indicates that the Site slopes downward locally to the southwest towards Sheldon Creek, and towards the on-site tributary of Bronte Creek. The Phase One study area also decreases in elevation towards Sheldon Creek, with a regional downward slope towards Lake Ontario (City of Burlington, 2024).

The Site is within the Iroquois Plain physiographic region (Chapman & Putnam, 1984), characterized by till and shale plains with drumlinized till. In the general area, the overburden is clay to silt-textured till derived from glaciolacustrine deposits or shale (OGS, 2010). The soils overlie Queenston Formation shale, limestone, dolostone, and siltstone (OGS, 2007). A review of Ministry water well records (MECP, 2024) for boreholes within 200 m of the Site indicated that the local stratigraphy consisted of sand, gravel, silt, and clay till with boulders. Shale bedrock was encountered between 2 to 3 m below ground surface (mbgs) in the Phase One study area. A previous geotechnical investigation indicated that the soil conditions consisted of

topsoil and/or fill material followed by silt and clay, glacial till and shale bedrock. Shale bedrock was encountered between 1.1 and 4.6 mbgs at the Site (MTE Consultants, 2024).

4.3.3 Fill Materials

Residential dwellings and agricultural buildings were historically located in the north and northwest portions of the Site, respectively. These buildings were demolished in the 1990s. The demolition of these buildings could have resulted in the import of fill to the Phase One Property. In addition, a previous geotechnical investigation completed at the Site identified fill material across the Site in the borehole logs (MTE Consultants, 2024). The historical placement of fill is a PCA that contributes to an APEC.

Given the possible presence of fill material at the Phase One Property, potential future development plans should incorporate the appropriate procedures for the characterization of soils that may require off-Site disposal. Further assessment and/or costs may be incurred through re-development of the Phase One Property and/or change in land use scenarios.

4.3.4 Water Bodies and Areas of Natural Significance & Ground Water Information

Sheldon Creek is on the southwest portion of the Site and a tributary of Bronte Creek bisects the central portion of the Site; therefore, the Site is within 30 m of a water body, as defined in O.Reg. 153/04.

Sheldon Creek and the tributary of Bronte Creek flow southeast towards Lake Ontario. Based on the direction of these waterbodies, the general ground water flow direction is inferred to be to the southeast.

The following were reviewed to identify if the Site includes, is adjacent to, or within 30 m of an area of natural significance:

1. Bronte Creek Provincial Park is located approximately 30 m northeast of the Site (Ontario, 2024).
2. The woodlands located along the Sheldon Creek corridor, the Sheldon Creek Woodlot located in the central-southwest portion of the Site, and the woodland located along the

southeast boundary of the Site are considered significant woodlands by the City of Burlington.

As such, the Phase One Property is considered environmentally sensitive under Section 41 (1) of O.Reg. 153/04.

4.3.5 Well Records

A search of the Ministry Water Well Information System by ERIS identified 10 records for on-site water wells and 62 water well records within the phase one study area ranging from about 15 m to 300 m from the Site. The wells were predominantly identified as observation wells, and monitoring and test holes. One water supply well record was identified from 1963.

Stratigraphy in the on-site wells was generally silt or clayey silt to about 2 to 3 mbgs underlain by shale bedrock.

4.4 Site Operating Records

A review of available site operating records is required when the Site is an Enhanced Investigation Property. A property is defined as an Enhanced Investigation Property as per paragraph 32 (1) (b) of O.Reg. 153/04 if it is used, or has ever been used, in whole or in part for an industrial use or for any of the following commercial uses:

- A garage
- A bulk liquid dispensing facility, including a gasoline outlet
- For the operation of dry cleaning equipment

Review of the site history and based on the information provided by the Site representative, the Site is not deemed to be an Enhanced Investigation Property. As such, a review of available site operating records was not completed.

5.0 Interviews

As per O.Reg. 153/04, interviews with persons described below are required in an effort to obtain further information regarding the Site use, occupancy history, and environmental conditions of the Site. This may include the following:

- Persons relevant to meeting the objectives of the Phase One ESA
- Current occupants and/or owners of the Site, or an individual with control of or authority over the owner
- Previous owners and/or occupants
- For industrial/commercial properties, a person that is knowledgeable of the Site activities (to be conducted on-site)
- Where the owner/occupant is not available, at least one owner or occupant of an adjacent property and one provincial or municipal government official, both of whom should be familiar with the Site

Mr. Dave Pitblado, an employee of the property owner provided information regarding the Site operations and history as outlined in Sections 2.2, 4.4 and 6.2.15. Mr. Pitblado has been associated with the property for about 16 years.

As described in Section 4.2.5, FOI requests were submitted to the Ministry and the TSSA for information they may have on file pertaining to the Site. Responses to the FOI requests are documented in Section 4.2.5.

6.0 Site Reconnaissance

6.1 General Requirements

Mr. Rowan Galashan, B.A.Sc. Hons conducted a site reconnaissance on August 19, 2024. At the time of the reconnaissance, the Site was unoccupied. Mr. Galashan also conducted a walk-by of the surrounding properties in the phase one study area to identify potential off-site PCAs that may contribute to an APEC on the Phase One Property. Surrounding properties were viewed from publicly accessible areas.

During the Site reconnaissance, the weather was overcast, windy with no precipitation and approximately 16 degrees Celsius. The entire Phase One Property was accessible, and all aspects of the property were inspected. Information obtained from the site reconnaissance is presented in Section 6.2. Select photographs taken during the site reconnaissance are included in Appendix H.

6.2 Specific Observations at Phase One Property

Cambium made all reasonable attempts to obtain the following information where applicable, as required by Schedule D, subsection 13 (1) of O.Reg. 153/04:

1. A general description of structures and other improvements, including the number and age of buildings
2. A general description of the number, age and depth of below ground structures
3. Details of all tanks, above and below ground, at the Phase One Property, including the material and method of construction of the tank, tank age, tank contents and tank volume, whether in use or not
4. Any potable and non-potable water sources
5. The type and approximate location of underground utility and service corridors, such as sewer, water, electrical or gas lines, located on, in or under the Phase One Property

With respect to the structures and buildings on the Site, none were observed to be present at the time of Cambium's site reconnaissance. As such, no details regarding structures and buildings are included herein.

Inquiries were also made to determine the following

6. Details including locations of current and former wells, including all wells described or defined in or under the *Ontario Water Resources Act and the Oil, Gas and Salt Resources Act*
7. Details of sewage works, including their location
8. Details of ground surface, including type of ground cover, such as grass, gravel, soil or pavement
9. Details of current or former railway lines or spurs and their locations
10. Areas of stained soil, vegetation or pavement
11. Stressed vegetation
12. Areas where fill and debris materials appear to have been placed or graded
13. Potentially contaminating activity
14. Details of any unidentified substances found at the Phase One Property

The following is a description of the various points of investigation noted during the Site reconnaissance conducted for the Phase One ESA. All observations made during the Site reconnaissance are discussed in the following sections in detail regarding any findings that are relevant to identifying PCAs and APECs.

6.2.1 Structures and Other Improvements

There were no buildings or structures present on the Phase One Property at the time of the site reconnaissance. A Bell communications tower was located on the northwest part of the Site with access from Upper Middle Road.

6.2.2 Underground Utility and Service Corridors

An Enbridge natural gas pipeline was observed running parallel to Upper Middle Road through the Site. A Bell communications tower was also observed in the northwest part of the Site, with an inferred underground utility connection. The remainder of the Phase One Property was undeveloped and there were no known underground utilities.

6.2.3 Storage Tanks – Above Ground and Underground

No evidence of ASTs or USTs was observed and TSSA records identified no USTs on the Site. Evidence of USTs was observed off-site at a Petro Canada gas station located approximately 50 m south-east of the Site, across the Mainway.

6.2.4 Oil/Water Separators

No oil/water separators were observed or reported at the Site.

6.2.5 Potable Water Sources

The phase one study area is municipally serviced for drinking water by the Regional Municipality of Halton. No drinking water wells were observed on the Site and no records of drinking water wells at the Site were identified by the records review.

6.2.6 Entry and Exit Points

The Site was accessible at the northwest corner via a parking lot for the Corpus Christi Catholic Secondary School and at the northwest side of the Site off Upper Middle Road via an access driveway to a Bell communications tower located on the Site.

6.2.7 Heating and Cooling Systems

No heating or cooling systems were observed or reported at the Site.

6.2.8 Drains, Pits, and Sumps

No sumps, drains, pits, or lagoons were observed or reported at the Site.

6.2.9 Unidentified Substances

No unidentified substances were observed or reported at the Site.

6.2.10 Current and Former Wells

Ten groundwater monitoring wells were observed across the Site that were installed as part of the previous geotechnical investigation completed at the Site (MTE Consultants, 2024). No potable drinking water wells were identified at the Site.

6.2.11 Septic Fields

No septic fields were observed or reported at the Site.

6.2.12 Ground Surface Conditions

Ground surface conditions at the Site consisted of fallow agricultural land with a mix of vegetated patches throughout the Site. A gravel access route was observed in the northwest portion of the Site leading to a Bell communications tower located on the Site.

Two creeks were identified on the Site flowing southeast towards Mainway, one running through the center of the site (a tributary of Bronte Creek) and the other running through the southwest portion of the Site (Sheldon Creek). Three woodlots were observed on the Site, as follows:

- Along the southwest portion of the Site around Sheldon Creek
- Along the southeast portion of the Site near Mainway
- Sheldon Creek Woodlot (an environmentally protected area by the City of Burlington). Cambium notes that Sheldon Creek Woodlot is excluded from the Phase One Property.

6.2.13 Railway Lines or Spurs

No evidence of current or historical rail lines were observed on Site.

6.2.14 Stained Soil, Vegetation, or Pavement

No evidence of stained soil, vegetation, or pavement was observed on Site.

6.2.15 Stressed Vegetation

No areas of stressed vegetation were observed on the Site. The site representative, Mr. Dave Pitblado, indicated that the agricultural fields on-site were left fallow to permit field investigations as part of the proposed development.

6.2.16 Fill and Debris Materials

No evidence of fill material was observed on the Site. The previous geotechnical investigation completed at the Site identified fill material in the borehole logs (MTE Consultants, 2024). The identification of fill of unknown origin on the Site is a PCA.

6.2.17 Unidentified and Other Hazardous Substances

No unidentified substances were observed at the Site.

6.2.18 Adjacent Land Uses and Environmental Concerns

Property use surrounding the Site was as follows:

Northwest – Upper Middle Road followed by residential / commercial (office, dental office, restaurants)

Northeast – Burloak Drive followed by Bronte Creek Provincial Park

Southeast – Mainway followed by industrial / commercial (retail fuel outlet, print shop, etc.)

Southwest – Residential

A Petro Canada gas station was observed about 50 m southeast of the Site at 5600 Mainway and was previously identified as a PCA.

Two oil-cooled transformers were observed at the property located at 5510 and 5540 Mainway. This property is located approximately 30 m southeast and downgradient of the Site. Based on

the distance and the inferred groundwater flow direction, this PCA does not represent an APEC at the Phase One Property.

The Site and surrounding land uses are shown on Figure 2.

6.2.19 Enhanced Investigation Property

Review of the Site history indicated the Site is not an Enhanced Investigation Property.

6.3 Written Description of Investigation

This Phase One ESA included a review of historical documents, an interview with a person knowledgeable about the historical and current uses of the Site, and a site reconnaissance to observe existing site conditions.

A reconnaissance of the Site was conducted to examine the exterior portions of the Site. The presence / absence of mechanical equipment (including heating and cooling systems) was documented, as was any evidence of USTs and ASTs. The exterior of the Site was examined for evidence of utilities and related infrastructure; water wells; site drainage and related infrastructure; stained areas; stressed vegetation; and, evidence of fill material.

The reconnaissance included an examination of all properties within the phase one study area from public access ways to document and characterize PCAs, water bodies, and areas of natural significance.

Further to the description of the investigations outlined above, the findings that are relevant to the existence of an APEC or PCA are described in Section 7.0.

7.0 Review and Evaluation of Information

7.1 Current and Past Uses

The first identified use of the Site was for agricultural/residential purposes based on available aerial photography, city directories, and land titles before 1934. The current land use is agricultural or other use, with the majority of the Site used for row crop agriculture and the remainder consisting of Sheldon Creek, a tributary of Bronte Creek and woodlands.

For information on the current and past uses and ownership refer to Table 1 through Table 5 and the Chain of Title report included as Appendix C.

7.2 Potentially Contaminating Activity

Cambium reviewed information available for the phase one study area to identify environmental issues normally assessed in a Phase One ESA. The Phase One ESA identified thirty-four PCAs (four on-site and thirty off-site) within the phase one study area. Refer to Table 6 for further description of the identified PCAs and Figure 3 for locations of the identified PCAs.

The following PCAs contribute to APECs:

PCA 1 – On-site: fill material associated with former residential dwelling and barn structures in the north and northwest portions of the Site and reported in the borehole logs for a previously completed geotechnical investigation (MTE Consultants, 2024); #30 - Importation of Fill Material of Unknown Quality

PCA 2 – On-site: former inferred orchard located in the north portion of the Site; #40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

PCA 3 – On-site: former inferred orchard located in the northwest portion of the Site; #40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

PCA 4 – On-site: Row crop agriculture across the majority of the site; #40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

The PCAs that do not contribute to APECs can be found in Table 6.

7.3 Areas of Potential Environmental Concern

As required by O.Reg. 153/04, all on-site PCAs contributed to an APEC. Based on the distance and/or direction from the Site, local topography, and inferred groundwater flow direction, none of the off-site PCAs contributed to an APEC. Refer to Table 7 for APEC details and Figure 4 for APEC locations.

APEC 1 – North, central, and southeast portions of the Site, associated with PCA 1, fill of unknown quality. COPCs include PHCs, VOCs, PAHs, metals, hydride-forming metals, EC, SAR, B-HWS, CN-, Hg, Cr(VI)

APEC 2 – North portion of the Site, associated with PCA 2, former inferred orchard. COPCs include OC Pesticides (OCPs), metals, hydride-forming metals, B-HWS, CN-, Hg, Cr(VI)

APEC 3 – Northwest portion of the Site, associated with PCA 3, former inferred orchard. COPCs include OCPs, metals, hydride-forming metals, B-HWS, CN-, Hg, Cr(VI)

APEC 4 – Majority of the Site, associated with PCA 4, pesticides applied for row crop agriculture. COPCs include OCPs, metals, hydride-forming metals, B-HWS, CN-, Hg, Cr(VI)

The potentially contaminated media was soil. Groundwater was not deemed to be a media of concern based on the APECs identified.

7.4 Phase One Conceptual Site Model

The following descriptions and discussion supplement Figure 3 and Figure 4, and together comprise the Phase One Conceptual Site Model (CSM). The purpose of the CSM is to assist the QP in illustrating the results of the Phase One ESA and to provide a basis for further work, if required.

7.4.1 Site Description

The roughly 126 ha Site is on the southeast side of Upper Middle Road, the southwest side of Burloak Drive and the northwest side of Mainway, in Burlington, Ontario. The legal description of the Site is *Part 1 on 20R-10977, Parts 2 and 3 on 20R-12331, Part 1 on 20R-10140, Parts 1 and 2 on 20R-7372, Parts of Lots 1, 2, 3 and 4, Concession 2 South of Dundas (Township of Nelson); City of Burlington, Regional Municipality of Halton*. The Property Identification Numbers (PINs) are 07183-0189, 07183-0212, 07183-0213, 07183-1218, and 07183-1254. The Universal Transverse Mercator (UTM) coordinates for the centroid for the Site are Zone 17 T, 599165 m E, 4805966 m N.

7.4.2 Existing Buildings and Structures

There were no buildings or structures present on the Phase One Property at the time of the site reconnaissance with the exception of a Bell communications tower located on the northwestern part of the Site.

7.4.3 Water Bodies and Areas of Natural Significance

Sheldon Creek is on the southwest portion of the Site and a tributary of Bronte Creek bisects the central portion of the Site; therefore, the Site is within 30 m of a water body, as defined in O.Reg. 153/04.

Sheldon Creek and the tributary of Bronte Creek flow southeast towards Lake Ontario. Based on the direction of these waterbodies, the localized ground water flow direction is inferred to be towards the on-Site creeks and the general ground water flow direction is inferred to be to the southeast.

The Site was considered an Area of Natural Significance, as defined in Section 1 of O.Reg. 153/04, due to the proximity to Bronte Creek Provincial Park 30 m northeast of the Site (Ontario, 2024) and the presence of significant woodlands along Sheldon Creek and the Sheldon Creek Woodlot.

7.4.4 Drinking Water Wells

The phase one study area is municipally serviced for drinking water by the Regional Municipality of Halton. No drinking water wells were observed on the Site and no records of drinking water wells at the Site were identified by the records review. A search of the Ministry Water Well Information System by ERIS identified 10 records for on-site water wells and 62 water well records within the phase one study area ranging from about 15 m to 300 m from the Site. The wells were predominantly identified as observation wells, and monitoring and test holes. One water supply well record was identified from 1963.

Stratigraphy in the on-site wells was generally silt or clayey silt to about 2 to 3 mbgs underlain by shale bedrock.

7.4.5 Potentially Contaminating Activities

Based on the records review, site reconnaissance, and interviews, thirty-four potentially contaminating activities (PCAs), four PCAs on-site and thirty PCAs off-site, were identified within the phase one study area. Thirty off-site PCAs were identified but these PCAs are not considered to result in areas of potential environmental concern (APECs) at the Phase One Property given the nature of operations, their distance from the Phase One Property and/or their down-gradient or cross gradient location. The four on-site PCAs related to fill of unknown quality and agricultural operations contributed to four APECs at the Site. Refer to Table 6 for further description of the identified PCAs and Figure 3 for locations of the identified PCAs.

The following PCAs contribute to APECs:

PCA 1 – On-site: fill material associated with former residential dwelling and barn structures in the north and northwest portions of the Site and reported in the borehole logs for a previously completed geotechnical investigation (MTE Consultants, 2024); #30 - Importation of Fill Material of Unknown Quality

PCA 2 – On-site: former inferred orchard located in the north portion of the Site; #40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

PCA 3 – On-site: former inferred orchard located in the northwest portion of the Site; #40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

PCA 4 – On-site: Row crop agriculture across the majority of the site; #40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications

The PCAs that do not contribute to APECs can be found in Table 6.

The qualified person has determined that a substance has been applied to surfaces for the safety of vehicular or pedestrian traffic under conditions of snow or ice at the Site. As such, the exemption set out in paragraph 1 of section 49.1 of O.Reg. 153/04 will be relied upon.

7.4.6 Areas of Potential Environmental Concern

As required by O.Reg. 153/04, all on-site PCAs contributed to an APEC. Based on a review of potential to result in contamination at the Site, none of the off-site PCAs contributed to APECs. Refer to Table 7 for APEC details and Figure 4 for APEC locations.

APEC 1 – North, central, and southeast portions of the Site, associated with PCA 1, fill of unknown quality. COPCs include PHCs, VOCs, PAHs, metals, hydride-forming metals, EC, SAR, B-HWS, CN-, Hg, Cr(VI)

APEC 2 – North portion of the Site, associated with PCA 2, former inferred orchard. COPCs include OC Pesticides (OCPs), metals, hydride-forming metals, B-HWS, CN-, Hg, Cr(VI)

APEC 3 – Northwest portion of the Site, associated with PCA 3, former inferred orchard. COPCs include OCPs, metals, hydride-forming metals, B-HWS, CN-, Hg, Cr(VI)

APEC 4 – Majority of the Site, associated with PCA 4, pesticides applied for row crop agriculture. COPCs include OCPs, metals, hydride-forming metals, B-HWS, CN-, Hg, Cr(VI)

The potentially contaminated media was soil. Groundwater was not deemed to be a media of concern based on the APECs identified.

7.4.7 Contaminants of Potential Concern

COPCs were identified for each PCA contributing to an APEC. The COPCs specific to each APEC are summarized in Table 7. PHCs, VOCs, PAHs, metals, hydride-forming metals, OCPs, EC, SAR, B-HWS, CN-, Hg, and Cr(VI) were identified as COPCs related to the current and historical on-site PCAs.

7.4.8 Contaminant Distribution and Transport

An Enbridge natural gas pipeline runs parallel along Upper Middle Road through the Site. A Bell communications tower was also observed in the northwest portion of the Site, with an inferred underground utility connection. The remainder of the Phase One Property has remained undeveloped and there are no known underground utilities.

Groundwater was measure during a previous geotechnical investigation (MTE Consultants, 2024)between 1.3 and 4.7 mbgs, which may coincide with the depth to the natural gas pipeline and communication tower utilities. Therefore, it is considered possible that preferential migration of contaminants would occur via historical utility trenches.

No specific climatic or meteorological conditions were observed that may influence the distribution or migration of contaminants.

7.4.9 Geological and Hydrogeological Setting

Review of available topographic mapping indicated that the Site slopes downward locally to the southwest towards Sheldon Creek, and towards the on-site tributary of Bronte Creek. The Phase One study area also decreases in elevation towards Sheldon Creek, with a regional downward slope towards Lake Ontario (City of Burlington, 2024).

The Site is within the Iroquois Plain physiographic region (Chapman & Putnam, 1984), characterized by till and shale plains with drumlinized till. In the general area, the overburden is clay to silt-textured till derived from glaciolacustrine deposits or shale (OGS, 2010). The soils overlie Queenston Formation shale, limestone, dolostone, and siltstone (OGS, 2007). A review of Ministry water well records (MECP, 2024) for boreholes within 200 m of the Site indicated

that the local stratigraphy consisted of sand gravel, silt, and clay till with boulders. Shale bedrock was encountered between 2 to 3 mbgs in the Phase One study area. A previous geotechnical investigation indicated that the soil conditions consisted of topsoil and/or fill material followed by silt and clay, glacial till and shale bedrock. Shale bedrock was encountered between 1.1 to 4.6 mbgs at the Site (MTE Consultants, 2024).

7.4.10 Uncertainty or Absence of Information

All aspects of the Phase One ESA were conducted consistent with O.Reg. 153/04, and as such, the Site was investigated thoroughly. As access to the entire Site was possible, and adequate historical information was available through the interviewee's, records review, and FOI requests uncertainty or absence of information is not expected to result in environmental concerns at the Site.

Docusign Envelope ID: 4B41D837-7F8C-41EE-9A82-35EE44F150CA

8.0 Conclusions

The Phase One ESA conclusions regarding the current environmental conditions at the Site are based solely on the results of the document review, regulatory records review, interviews, and site reconnaissance as described in this report.

8.1 Requirement for a Phase Two Environmental Site Assessment

Based on the observations and information obtained for the Site and phase one study area, a Phase Two ESA is required.

8.2 Signatures

This Phase One ESA was completed under the supervision of Mr. John Kaasalainen P.Eng., QP_{ESA}, as per O.Reg. 153/04. Information presented in this report is true and accurate to the best of the assessors' knowledge.

Respectfully submitted,

Cambium Inc.

Signed by:

756936F0E7C5436...

John Kaasalainen, P.Eng., QP_{ESA}
Senior Project Manager

2024-12-11

JK/

P:\21100 to 21199\21199-001 Alinea Land - ESA - Bronte Creek Meadows\Deliverables\Phase One ESA\Final\2024-12-11 RPT Phase One ESA Bronte Creek Meadows, Burlington ON.docx

9.0 References

Chapman, L., & Putnam, D. (1984). *The Physiographic Regions of Southern Ontario, Third Edition.* Ontario Ministry of Natural Resources.

City of Burlington. (2023). *City of Burlington Zoning Bylaw*. Retrieved from https://navburl-burlington.opendata.arcgis.com/datasets/Burlington::zoning-bylaw-1/explore?location=43.400960%2C-79.769764%2C15.61

City of Burlington. (2024). *Explore Burlington*. Retrieved from https://burlington.maps.arcgis.com/apps/MapSeries/index.html?appid=1d1783b1e626434f95076cba33a5e540

ERIS. (2024). *ERIS Database Report, Phase One Environmental Site Assessment Bronte Creek Meadows, Burlington, ON.* Environmental Risk Information Services.

MECP. (2024). *Map: Well Records*. Retrieved from Ministry of the Environment, Conservation and Parks: https://www.ontario.ca/environment-and-energy/map-well-records

MNR. (2024). *Make a Natural Heritage map*. Retrieved from Ministry of Natural Resources and Forestry: https://www.lioapplications.lrc.gov.on.ca/Natural_Heritage/index.html?viewer=Natural_Heritage.Natural_Heritage&locale=en-CA

MNRF. (2024). *Wilderness areas*. Retrieved from Ontario Ministry of Natural Resources and Forestry © King's Printer for Ontario: https://www.arcgis.com/home/item.html?id=a642f6ed21524f88a2f94d6d0eabe599

MOE. (1988a). *Inventory of Industrial Facilities Producing or Using Coal Tar or Related Tars in Ontario, Volume I.* Ministry of the Environment. November 1988.

MOE. (1988b). *Inventory of Coal Gasification Plant Waste Sites in Ontario.* Ministry of the Environment. November 1988.

MOE. (1991). *Waste Disposal Site Inventory.* Ministry of the Environment. June 1991.

MOE. (2011). *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act.* Ministry of the Environment. April 15, 2011.

MTE Consultants. (2024). *Preliminary Geotechnical Investigation - Bronte Creek Meadows Development, Upper Middle Road and Burloak Drive, Burlington, Ontario.* February 9, 2024.

OGS. (2007). *Paleozoic geology of southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 219.* Ontario Geological Survey.

OGS. (2010). *Surficial geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 128-REV.* Ontario Geological Survey.

Ontario. (2024). *Provincial Park Regulated*. Retrieved from Land Information Ontario: https://geohub.lio.gov.on.ca/datasets/lio::provincial-park-regulated/explore?location=49.013258%2C-84.732487%2C5.47

10.0 Standard Limitations

Limited Warranty

In performing work on behalf of a client, Cambium relies on its client to provide instructions on the scope of its retainer and, on that basis, Cambium determines the precise nature of the work to be performed. Cambium undertakes all work in accordance with applicable accepted industry practices and standards. Unless required under local laws, other than as expressly stated herein, no other warranties or conditions, either expressed or implied, are made regarding the services, work or reports provided.

Reliance on Materials and Information

The findings and results presented in reports prepared by Cambium are based on the materials and information provided by the client to Cambium and on the facts, conditions and circumstances encountered by Cambium during the performance of the work requested by the client. In formulating its findings and results into a report, Cambium assumes that the information and materials provided by the client or obtained by Cambium from the client or otherwise are factual, accurate and represent a true depiction of the circumstances that exist. Cambium relies on its client to inform Cambium if there are changes to any such information and materials. Cambium does not review, analyze or attempt to verify the accuracy or completeness of the information or materials provided, or circumstances encountered, other than in accordance with applicable accepted industry practice. Cambium will not be responsible for matters arising from incomplete, incorrect or misleading information or from facts or circumstances that are not fully disclosed to or that are concealed from Cambium during the provision of services, work or reports.

Facts, conditions, information and circumstances may vary with time and locations and Cambium's work is based on a review of such matters as they existed at the particular time and location indicated in its reports. No assurance is made by Cambium that the facts, conditions, information, circumstances or any underlying assumptions made by Cambium in connection with the work performed will not change after the work is completed and a report is submitted. If any such changes occur or additional information is obtained, Cambium should be advised and requested to consider if the changes or additional information affect its findings or results.

When preparing reports, Cambium considers applicable legislation, regulations, governmental guidelines and policies to the extent they are within its knowledge, but Cambium is not qualified to advise with respect to legal matters. The presentation of information regarding applicable legislation, regulations, governmental guidelines and policies is for information only and is not intended to and should not be interpreted as constituting a legal opinion concerning the work completed or conditions outlined in a report. All legal matters should be reviewed and considered by an appropriately qualified legal practitioner.

Site Assessments

A site assessment is created using data and information collected during the investigation of a site and based on conditions encountered at the time and particular locations at which fieldwork is conducted. The information, sample results and data collected represent the conditions only at the specific times at which and at those specific locations from which the information, samples and data were obtained and the information, sample results and data may vary at other locations and times. To the extent that Cambium's work or report considers any locations or times other than those from which information, sample results and data was specifically received, the work or report is based on a reasonable extrapolation from such information, sample results and data but the actual conditions encountered may vary from those extrapolations.

Only conditions at the site and locations chosen for study by the client are evaluated; no adjacent or other properties are evaluated unless specifically requested by the client. Any physical or other aspects of the site chosen for study by the client, or any other matter not specifically addressed in a report prepared by Cambium, are beyond the scope of the work performed by Cambium and such matters have not been investigated or addressed.

Reliance

Cambium's services, work and reports may be relied on by the client and its corporate directors and officers, employees, and professional advisors. Cambium is not responsible for the use of its work or reports by any other party, or for the reliance on, or for any decision which is made by any party using the services or work performed by or a report prepared by Cambium without Cambium's express written consent. Any party that relies on services or work performed by Cambium or a report prepared by Cambium without Cambium's express written consent, does so at its own risk. No report of Cambium may be disclosed or referred to in any public document without Cambium's express prior written consent. Cambium specifically disclaims any liability or responsibility to any such party for any loss, damage, expense, fine, penalty or other such thing which may arise or result from the use of any information, recommendation or other matter arising from the services, work or reports provided by Cambium.

Limitation of Liability

Potential liability to the client arising out of the report is limited to the amount of Cambium's professional liability insurance coverage. Cambium shall only be liable for direct damages to the extent caused by Cambium's negligence and/or breach of contract. Cambium shall not be liable for consequential damages.

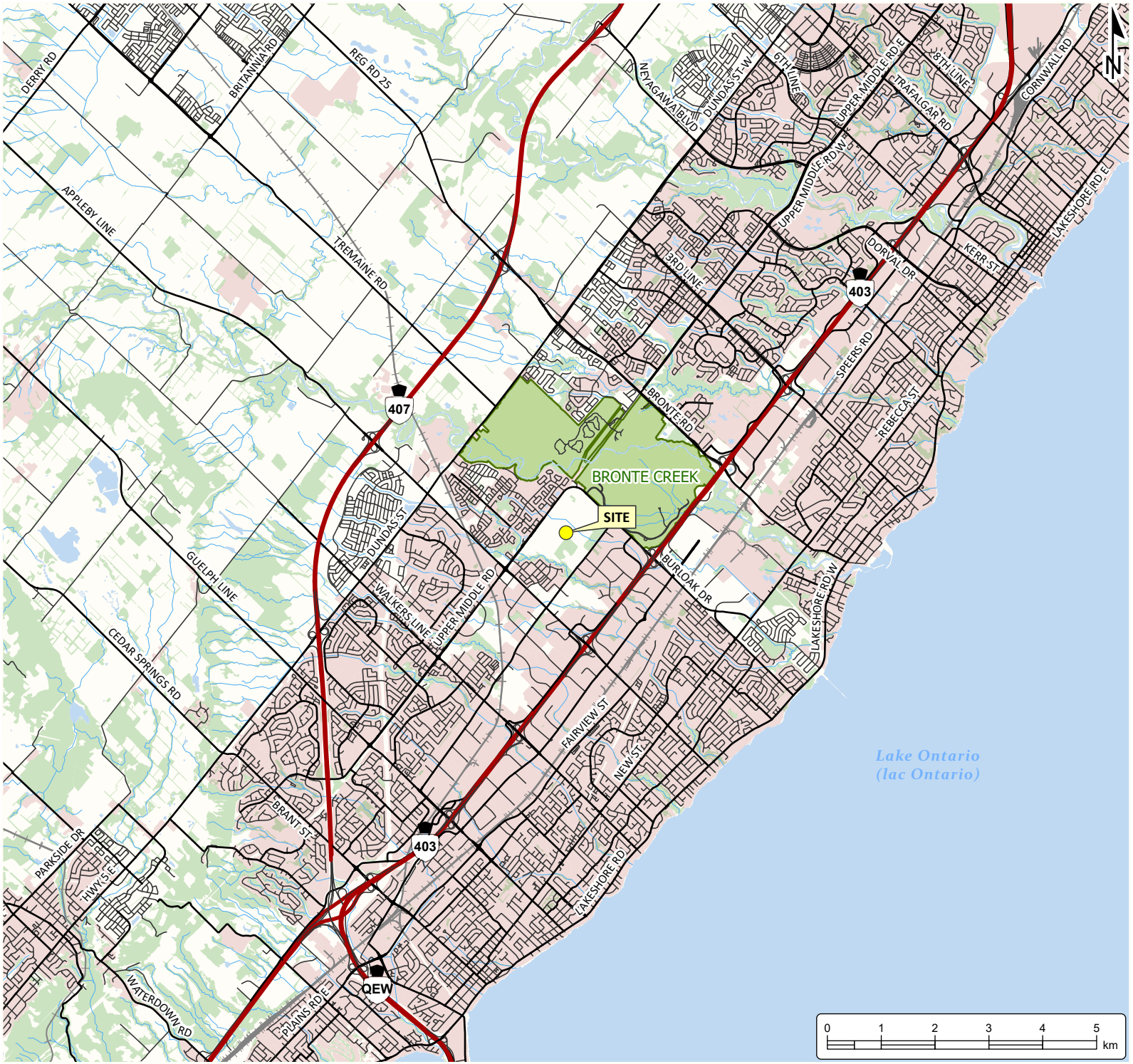
Personal Liability

The client expressly agrees that Cambium employees shall have no personal liability to the client with respect to a claim, whether in contract, tort and/or other cause of action in law. Furthermore, the client agrees that it will bring no proceedings nor take any action in any court of law against Cambium employees in their personal capacity.

Appended Figures

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
Bronte Creek Meadows
Burlington, Ontario



LEGEND

- Highway
- Major Road
- Minor Road
- Railway
- Watercourse
- Provincial Park
- Built Up Area
- Wooded Area
- Water Area

Notes:
- This document contains information licensed under the Open Government License - Ontario.
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

CAMBIUM
194 Sophia Street
Peterborough, Ontario, K9H 1E5
Tel: (705) 742.7900 Fax: (705) 742.7907
www.cambium-inc.com

SITE LOCATION PLAN

Project No.: 21199-001		Date: September 2024 Rev.:	
Scale: 1:100,000		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: MS	Figure:	1

O:\GIS\MXDs\21100-21199\21199-001 Alinea Land - ESA - Bronte Creek Meadows\2024-08-28 Phase One ESA.aprx



PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
Bronte Creek Meadows
Burlington, Ontario

LEGEND

Site (approximate)

LAND USE

Notes:
- This document contains information licensed under the Open Government License - Ontario.
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

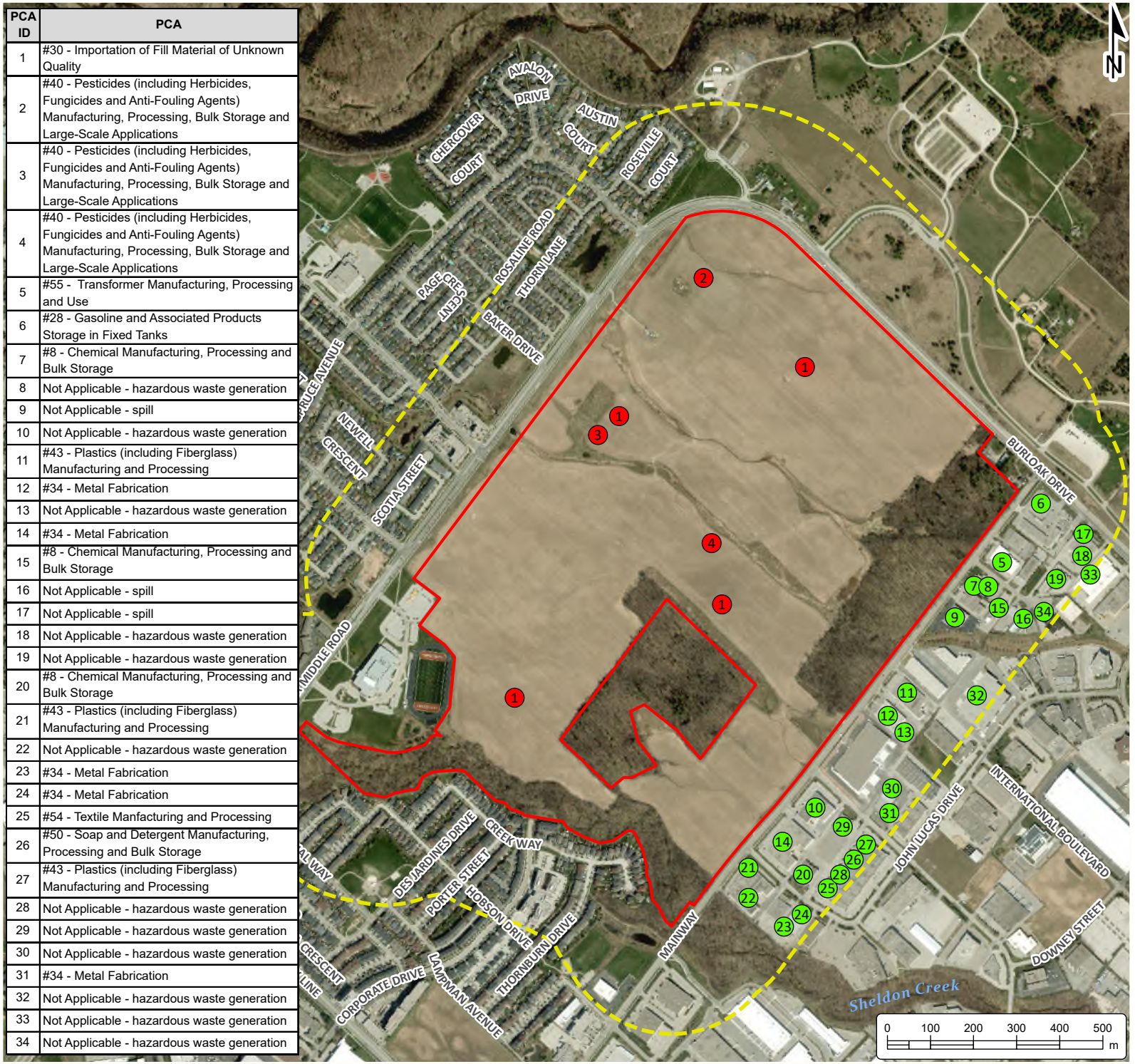
CAMBIUM
194 Sophia Street
Peterborough, Ontario, K9H 1E5
Tel: (705) 742.7900 Fax: (705) 742.7907
www.cambium-inc.com

SITE PLAN AND SURROUNDING LAND USE

Project No.: 21199-001		Date: September 2024 Rev.:	
Scale: 1:10,000		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: MS	Figure:	2

O:\GIS\MXDs\21100-21199\21199-001 Alinea Land - ESA - Bronte Creek Meadows\2024-08-28 Phase One ESA.aprx

PCA ID	PCA
1	#30 - Importation of Fill Material of Unknown Quality
2	#40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications
3	#40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications
4	#40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications
5	#55 - Transformer Manufacturing, Processing and Use
6	#28 - Gasoline and Associated Products Storage in Fixed Tanks
7	#8 - Chemical Manufacturing, Processing and Bulk Storage
8	Not Applicable - hazardous waste generation
9	Not Applicable - spill
10	Not Applicable - hazardous waste generation
11	#43 - Plastics (including Fiberglass) Manufacturing and Processing
12	#34 - Metal Fabrication
13	Not Applicable - hazardous waste generation
14	#34 - Metal Fabrication
15	#8 - Chemical Manufacturing, Processing and Bulk Storage
16	Not Applicable - spill
17	Not Applicable - spill
18	Not Applicable - hazardous waste generation
19	Not Applicable - hazardous waste generation
20	#8 - Chemical Manufacturing, Processing and Bulk Storage
21	#43 - Plastics (including Fiberglass) Manufacturing and Processing
22	Not Applicable - hazardous waste generation
23	#34 - Metal Fabrication
24	#34 - Metal Fabrication
25	#54 - Textile Manfacturing and Processing
26	#50 - Soap and Detergent Manufacturing, Processing and Bulk Storage
27	#43 - Plastics (including Fiberglass) Manufacturing and Processing
28	Not Applicable - hazardous waste generation
29	Not Applicable - hazardous waste generation
30	Not Applicable - hazardous waste generation
31	#34 - Metal Fabrication
32	Not Applicable - hazardous waste generation
33	Not Applicable - hazardous waste generation
34	Not Applicable - hazardous waste generation



PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
Bronte Creek Meadows
Burlington, Ontario

LEGEND

- Site (approximate)
- 250m Study Area

Contribute

- Does not contribute to APEC
- Contributes to APEC

Notes:
- This document contains information licensed under the Open Government License - Ontario.
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

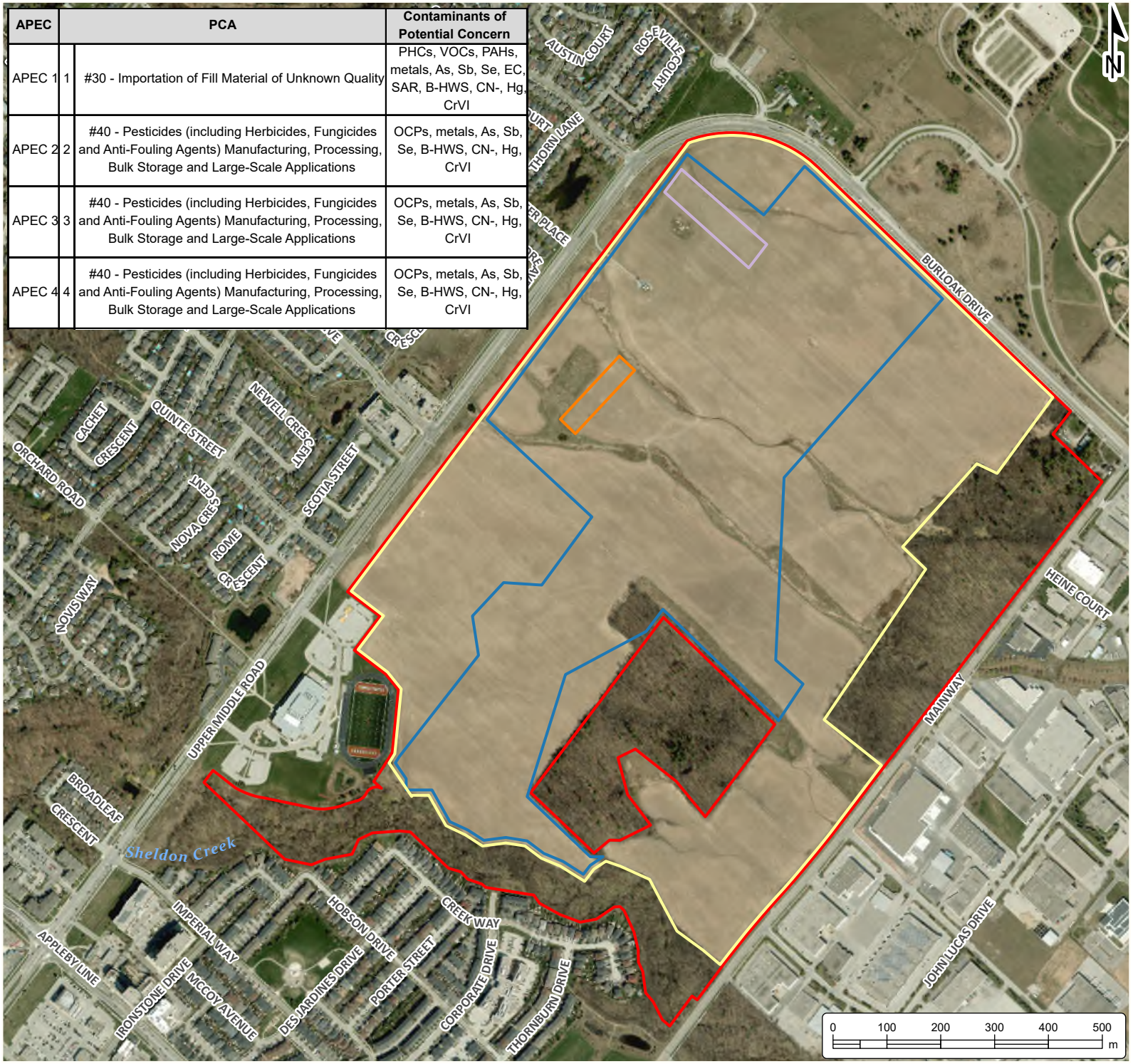
CAMBIUM
194 Sophia Street
Peterborough, Ontario, K9H 1E5
Tel: (705) 742.7900 Fax: (705) 742.7907
www.cambium-inc.com

CONCEPTUAL SITE MODEL STUDY AREA

Project No.:	21199-001	Date:	October 2024
		Rev.:	
Scale:	1:12,500	Projection:	NAD 1983 UTM Zone 17N
Created by:	NLB	Checked by:	MS
Figure:	3		

O:\GIS\MXDs\21100-21199\21199-001 Alinea Land - ESA - Bronte Creek Meadows\2024-08-28 Phase One ESA.aprx

APEC	PCA	Contaminants of Potential Concern
APEC 1	1 #30 - Importation of Fill Material of Unknown Quality	PHCs, VOCs, PAHs, metals, As, Sb, Se, EC, SAR, B-HWS, CN-, Hg, CrVI
APEC 2	2 #40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	OCPs, metals, As, Sb, Se, B-HWS, CN-, Hg, CrVI
APEC 3	3 #40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	OCPs, metals, As, Sb, Se, B-HWS, CN-, Hg, CrVI
APEC 4	4 #40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	OCPs, metals, As, Sb, Se, B-HWS, CN-, Hg, CrVI



PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
Bronte Creek Meadows
Burlington, Ontario

LEGEND

Site (approximate)

Area of Potential Environmental Concern:

- APEC 1
- APEC 2
- APEC 3
- APEC 4

Notes:
- COPCs are Contaminates of Potential Concern.
- This document contains information licensed under the Open Government License - Ontario.
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

CAMBIUM
194 Sophia Street
Peterborough, Ontario, K9H 1E5
Tel: (705) 742.7900 Fax: (705) 742.7907
www.cambium-inc.com

CONCEPTUAL SITE MODEL SITE PLAN

Project No.: 21199-001		Date: October 2024	Rev.:
Scale: 1:10,000		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: MS	Figure: 4	

O:\GIS\MXDs\21100-21199\21199-001 Alinea Land - ESA - Bronte Creek Meadows\2024-08-28 Phase One ESA.aprx

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
Bronte Creek Meadows
Burlington, Ontario



LEGEND

Site (approximate)

Notes:
- Aerial imagery was obtained from the National Air Photo Library (NAPL).
- This document contains information licensed under the Open Government License - Ontario.
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

CAMBIUM
194 Sophia Street
Peterborough, Ontario, K9H 1E5
Tel: (705) 742.7900 Fax: (705) 742.7907
www.cambium-inc.com

1934 AERIAL IMAGERY

Project No.: 21199-001		Date: September 2024 Rev.:	
Scale: 1:10,000		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: MS	Figure:	5

O:\GIS\MXDs\21100-21199\21199-001 Alinea Land - ESA - Bronte Creek Meadows\2024-08-28 Phase One ESA.aprx



PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
Bronte Creek Meadows
Burlington, Ontario

LEGEND

Site (approximate)

Notes:
- Aerial imagery was obtained from the National Air Photo Library (NAPL).
- This document contains information licensed under the Open Government License - Ontario.
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

CAMBIUM
194 Sophia Street
Peterborough, Ontario, K9H 1E5
Tel: (705) 742.7900 Fax: (705) 742.7907
www.cambium-inc.com

1965 AERIAL IMAGERY

Project No.: 21199-001		Date: September 2024 Rev.:	
Scale: 1:10,000		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: MS	Figure:	6

O:\GIS\MXDs\21100-21199\21199-001 Alinea Land - ESA - Bronte Creek Meadows\2024-08-28 Phase One ESA.aprx

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
Bronte Creek Meadows
Burlington, Ontario



LEGEND

Site (approximate)

Notes:
- Aerial imagery was obtained from the National Air Photo Library (NAPL).
- This document contains information licensed under the Open Government License - Ontario.
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

CAMBIUM
194 Sophia Street
Peterborough, Ontario, K9H 1E5
Tel: (705) 742.7900 Fax: (705) 742.7907
www.cambium-inc.com

1979 AERIAL IMAGERY

Project No.: 21199-001		Date: September 2024 Rev.:	
Scale: 1:10,000		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: MS	Figure:	7

O:\GIS\MXDs\21100-21199\21199-001 Alinea Land - ESA - Bronte Creek Meadows\2024-08-28 Phase One ESA.aprx

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
Bronte Creek Meadows
Burlington, Ontario



LEGEND

Site (approximate)

Notes:
- Aerial imagery was obtained from the City of Oakville.
- This document contains information licensed under the Open Government License - Ontario.
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

CAMBIUM
194 Sophia Street
Peterborough, Ontario, K9H 1E5
Tel: (705) 742.7900 Fax: (705) 742.7907
www.cambium-inc.com

1999 AERIAL IMAGERY

Project No.: 21199-001		Date: September 2024	Rev.:
Scale: 1:10,000		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: MS	Figure: 8	

O:\GIS\MXDs\21100-21199\21199-001 Alinea Land - ESA - Bronte Creek Meadows\2024-08-28 Phase One ESA.aprx

PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
Bronte Creek Meadows
Burlington, Ontario



LEGEND

Site (approximate)

Notes:
- Aerial imagery was obtained from the Southwestern Ontario Orthophotography (SWOOP) 2010 - Web Map Service: © King's Printer for Ontario, 2022
- This document contains information licensed under the Open Government License - Ontario.
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

CAMBIUM
194 Sophia Street
Peterborough, Ontario, K9H 1E5
Tel: (705) 742.7900 Fax: (705) 742.7907
www.cambium-inc.com

2010 AERIAL IMAGERY

Project No.: 21199-001		Date: September 2024 Rev.:	
Scale: 1:10,000		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: MS	Figure:	9

O:\GIS\MXDs\21100-21199\21199-001 Alinea Land - ESA - Bronte Creek Meadows\2024-08-28 Phase One ESA.aprx



PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
Bronte Creek Meadows
Burlington, Ontario

LEGEND

Site (approximate)

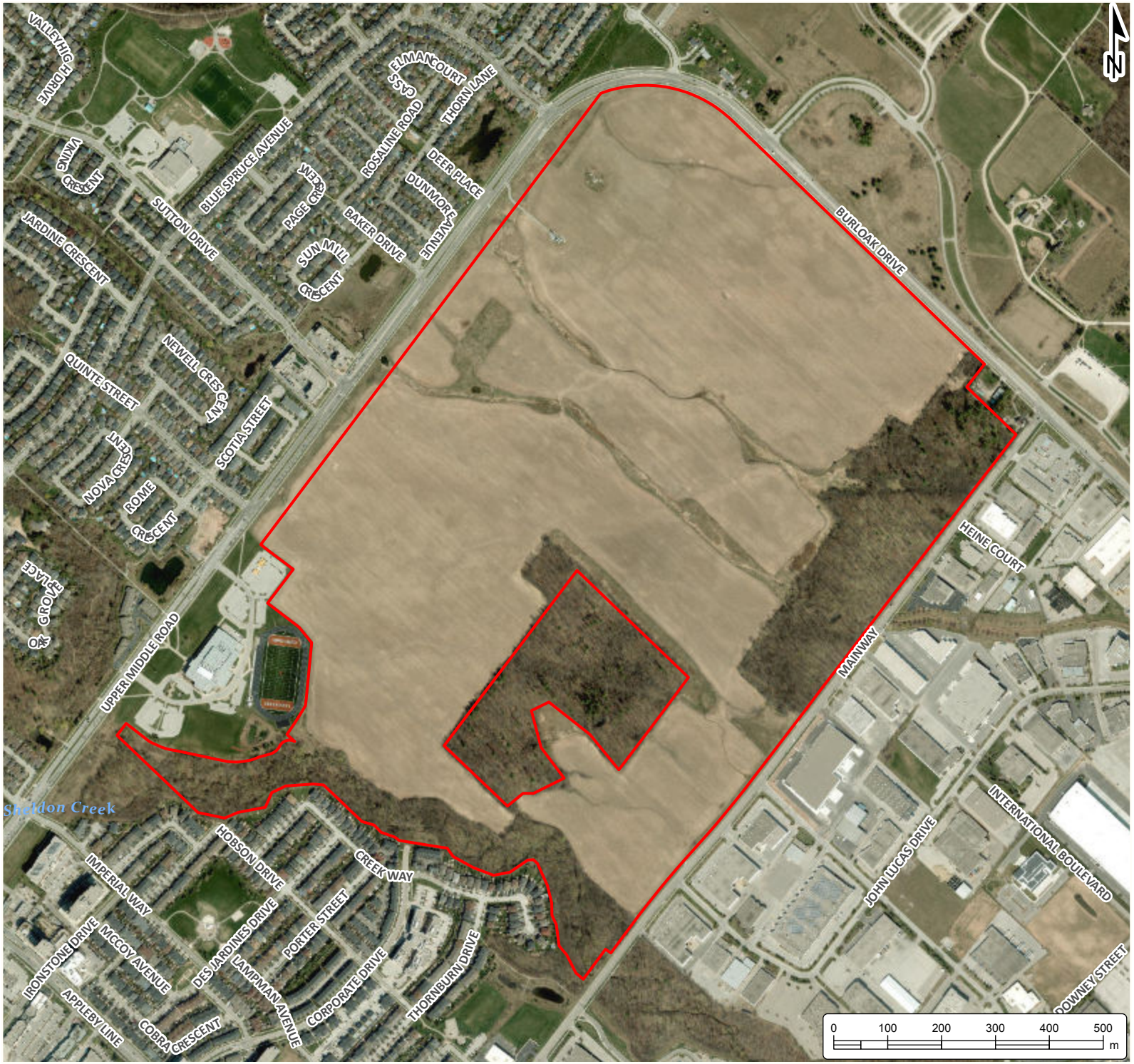
Notes:
- Aerial imagery was obtained from CNES/Airbus DS (Pleiades) image captured on May 4, 2013 as shown in the 2014-03-26 version of the World Imagery map.
- This document contains information licensed under the Open Government License - Ontario.
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

194 Sophia Street
Peterborough, Ontario, K9H 1E5
Tel: (705) 742.7900 Fax: (705) 742.7907
www.cambium-inc.com

2013 AERIAL IMAGERY

Project No.: 21199-001		Date: September 2024 Rev.:	
Scale: 1:10,000		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: MS	Figure:	**10**

O:\GIS\MXDs\21100-21199\21199-001 Alinea Land - ESA - Bronte Creek Meadows\2024-08-28 Phase One ESA.aprx



PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

ALINEA LAND CORPORATION
Bronte Creek Meadows
Burlington, Ontario

LEGEND

Site (approximate)

Notes:
- Aerial imagery was obtained from Town of Oakville (2023 Air Photos) image captured on Apr 13, 2023 as shown in the 2024-01-18 version of the World Imagery map.
- This document contains information licensed under the Open Government License - Ontario.
- Distances on this plan are in metres and can be converted to feet by dividing by 0.3048.
- Cambium Inc. makes every effort to ensure this map is free from errors but cannot be held responsible for any damages due to error or omissions. This map should not be used for navigation or legal purposes. It is intended for general reference use only.

194 Sophia Street
Peterborough, Ontario, K9H 1E5
Tel: (705) 742.7900 Fax: (705) 742.7907
www.cambium-inc.com

2023 AERIAL IMAGERY

Project No.: 21199-001		Date: September 2024 Rev.:	
Scale: 1:10,000		Projection: NAD 1983 UTM Zone 17N	
Created by: NLB	Checked by: MS	Figure:	11

O:\GIS\MXDs\21100-21199\21199-001 Alinea Land - ESA - Bronte Creek Meadows\2024-08-28 Phase One ESA.aprx

Appended Tables

Table 1 - Table of Current and Past Uses of the Phase One Property – PIN 07183-0189 (Northwest side of Mainway)

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
Pre-1817	Crown	Assumed agricultural land	Agricultural or other use	None
1817-1836	James Goffin	Assumed agricultural land	Agricultural or other use	None
1836	Robert McGwillim	Assumed agricultural land	Agricultural or other use	None
1836-1894	Thomas Atkinson	Assumed agricultural land	Agricultural or other use	None
1894	William Lucas	Assumed agricultural land	Agricultural or other use	None
1894-1940	Sarah Adeline Sheppard, Thomas Wilbert Sheppard	Assumed agricultural land	Agricultural or other use	The 1934 aerial photograph indicated this property consisted of agricultural land use.
1940-1943	Thomas Wilbert Sheppard, Mabel Ann Elizabeth Freeman	Assumed agricultural land	Agricultural or other use	None
1943-1965	William Ernest Brockman	Assumed agricultural land	Agricultural or other use	The 1954 and 1965 aerial photographs indicated this property consisted of agricultural land use.
1965-1973	Lily Limited	Row crop agriculture	Agricultural or other use	The 1965 aerial photograph indicated this property consisted of agricultural land use.

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
1973-1974	Cogan Developments Limited, Shefsky Developments Limited, The Greater York Group, 271160 Ontario Limited	Row crop agriculture	Agricultural or other use	This parcel was not listed in the reviewed city directories.
1974-1983	Eastcan Holdings Limited	Row crop agriculture	Agricultural or other use	The 1979 aerial photograph this parcel consisted of agricultural land use.
1983	Theodore Sherman, Harold Strom	Row crop agriculture	Agricultural or other use	This parcel was not listed in the reviewed city directories.
1983-1987	Silverstream Investments Limited, Bramcrage Investments Limited	Row crop agriculture	Agricultural or other use	This parcel was not listed in the reviewed city directories.
1987-1999	Limeside Developments Inc.	Row crop agriculture	Agricultural or other use	The 1999 aerial photograph indicated this property consisted of agricultural land use.
1999-2024	Paletta Bros. Four Ltd.	Row crop agriculture	Agricultural or other use	The 1999 to 2023 aerial photographs indicated this property consisted of agricultural land use.

Table 2 - Table of Current and Past Uses of the Phase One Property – PIN 07183-0212 (5366 Upper Middle Road)

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
Pre-1828	Crown	Assumed agricultural land	Agricultural or other use	None
1828-1840	King's College	Assumed agricultural land	Agricultural or other use	None
1840-1869	Thomas Atkinson	Assumed agricultural land	Agricultural or other use	None
1869-1873	Robert Atkinson	Assumed agricultural land	Agricultural or other use	None
1873-1898	William Lucas	Assumed agricultural land	Agricultural or other use	None
1898-1934	George Walker Lucas	Assumed agricultural land	Agricultural or other use	The 1934 aerial photograph indicated that an inferred residential dwelling, barn structures, an inferred orchard, and agricultural row crops occupied this portion of the Phase One Property.
1934-1963	George Walker Lucas, Walter Maxwell Lucas	Residential dwelling, barn structures and agricultural row crops	Residential use	The 1934 and 1954 aerial photographs indicated that an inferred residential dwelling, barn structures, an inferred orchard, and agricultural row crops occupied this portion of the Phase One Property.
1963-1968	Janet Grace Ross	Residential dwelling, barn structures and agricultural row crops	Residential use	The 1965 aerial photograph indicated that an inferred residential dwelling, barn structures, an inferred orchard, and agricultural row crops occupied this portion of the Phase One Property.

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
				This portion of the Phase One Property was listed as residential in the reviewed city directories from 1965 to 1980.
1968-1973	Wera Investments Limited, Goggin Holdings Limited, Estadek Construction Company Limited, Howard Gordon Savage	Residential dwelling, barn structures and agricultural row crops	Residential use	This portion of the Phase One Property was listed as residential in the reviewed city directories from 1965 to 1980.
1973	P & L Livestock Limited, Tullio Leonardelli	Residential dwelling, barn structures and agricultural row crops	Residential use	This portion of the Phase One Property was listed as residential in the reviewed city directories from 1965 to 1980.
1973-1974	Vicdom Investments Limited	Residential dwelling, barn structures and agricultural row crops	Residential use	This portion of the Phase One Property was listed as residential in the reviewed city directories from 1965 to 1980.
1974-1975	London Tower Construction Limited	Residential dwelling, barn structures and agricultural row crops	Residential use	This portion of the Phase One Property was listed as residential in the reviewed city directories from 1965 to 1980.
1975-1983	Eastcan Holdings Limited	Residential dwelling, barn structures and agricultural row crops	Residential use	The 1979 aerial photograph indicated that an inferred residential dwelling, barn structures and agricultural row crops occupied this portion of the Phase One Property. This portion of the Phase One Property was listed as residential in the reviewed city directories from 1965 to 1980.

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
1983-1986	Theodore Sherman, Harold Strom	Residential dwelling, barn structures and agricultural row crops	Residential use	None
1986-1990	Ralph Clausi, Vicdom Investments Limited	Residential dwelling, barn structures and agricultural row crops	Residential use	None
1990	Vicdom Investments Limited	Residential dwelling, barn structures and agricultural row crops	Residential use	None
1990-1998	F. W. Woolworth Company Limited (renamed to Woolworth Canada Inc. and Venator Group Canada Inc.)	Residential dwelling, barn structures and agricultural row crops	Residential use	The 1998 aerial photograph indicated that an inferred residential dwelling, barn structures and agricultural row crops occupied this portion of the Phase One Property.
1998-Present	Qualico Foods (1994) Inc.	Vacant and undeveloped with agricultural row crop	Agricultural or other use	The 1998 aerial photograph indicated that an inferred residential dwelling, barn structures and agricultural row crops occupied this portion of the Phase One Property. The 2002 aerial photograph indicated that the former structures have been demolished and this portion of the Phase One Property is vacant and undeveloped, or agricultural row crops.

Table 3 - Table of Current and Past Uses of the Phase One Property – PIN 07183-0213 (5470 Upper Middle Road)

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
Pre-1846	Crown	Assumed agricultural land	Agricultural or other use	None
1846-1852	Garnett Albertson	Assumed agricultural land	Agricultural or other use	None
1852-1870	Ralph Brecken	Assumed agricultural land	Agricultural or other use	None
1870-1872	John Brecken	Assumed agricultural land	Agricultural or other use	None
1872-1878	Henry Stephen Matthewman	Assumed agricultural land	Agricultural or other use	None
1878-1911	Joseph Matthewman, Eliza Matthewman	Assumed agricultural land	Agricultural or other use	None
1911-1927	John Easton	Assumed agricultural land	Agricultural or other use	None
1927-1930	Mary Pendlease, McKenzie Pendlease	Assumed agricultural land	Agricultural or other use	None
1930-1945	Delmur Washburn Baker, Margaret Jean Baker	Residential dwelling, barn structures, inferred orchard and agricultural row crops	Residential use	The 1934 aerial photograph indicated that an inferred residential dwelling, barn structures, an inferred orchard and agricultural row crops occupied this portion of the Phase One Property.

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
1945-1956	Cecil Lloyd Barker, Gertrude Clarissa Barker	Residential dwelling, barn structures, inferred orchard and agricultural row crops	Residential use	The 1954 aerial photograph indicated that an inferred residential dwelling, barn structures, an inferred orchard and agricultural row crops occupied this portion of the Phase One Property.
1956	Peter Augustinavicius	Residential dwelling, barn structures, inferred orchard and agricultural row crops	Residential use	None
1956-1960	Paul Rychlitsky, Steve Solomon	Residential dwelling, barn structures, inferred orchard and agricultural row crops	Residential use	None
1960-1965	John Bachynaky	Residential dwelling, barn structures, inferred orchard and agricultural row crops	Residential use	The 1965 aerial photograph indicated that an inferred residential dwelling, barn structures, an inferred orchard and agricultural row crops occupied this portion of the Phase One Property. This portion of the Phase One Property was listed as residential in the reviewed city directories from 1965 to 1995.
1965-1971	Ernest Tornell Maine, Eugenie Marguerite Maine	Residential dwelling, barn structures, inferred orchard and agricultural row crops	Residential use	
1971-1973	Waryne Boyko	Residential dwelling, barn structures, inferred orchard and agricultural row crops	Residential use	This portion of the Phase One Property was listed as residential in the reviewed city directories from 1965 to 1995.
1973-1974	Rosa Clausi	Residential dwelling, barn structures, inferred orchard and agricultural row crops	Residential use	This portion of the Phase One Property was listed as residential in the reviewed city directories from 1965 to 1995.

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
1974-1995	Vicdom Investments Limited, Ralph Clausi	Residential dwelling, barn structures, inferred orchard and agricultural row crops	Residential use	The 1979 aerial photograph indicated that an inferred residential dwelling, barn structures, an inferred orchard and agricultural row crops occupied this portion of the Phase One Property. This portion of the Phase One Property was listed as residential in the reviewed city directories from 1965 to 1995.
1995-1999	Vicdom Investments Limited	Vegetated land or agricultural land	Agricultural or other use	The 1998 aerial photograph indicated this portion of the site consisted of an inferred former orchard and row crop agriculture. This portion of the Phase One Property was listed as residential in the reviewed city directories from 1965 to 1995.
1999-Present	Paletta International (1990) Inc.	Vegetated land or agricultural land	Agricultural or other use	The 2002, 2010 and 2023 aerial photographs indicated this portion of the Site consisted of an inferred former orchard and row crop agriculture.

Table 4 - Table of Current and Past Uses of the Phase One Property – PIN 07183-1254 (Southeast of Upper Middle Road, Northwest of Mainway, Southeast of Burloak Drive)

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
Pre-1846	Crown	Assumed agricultural land	Agricultural or other use	None
1846-1852	Benjamin Matthewman	Assumed agricultural land	Agricultural or other use	None
1852-1872	John Brecken	Assumed agricultural land	Agricultural or other use	None
1872-1878	Henry Stephan Matthewman	Assumed agricultural land	Agricultural or other use	None
1878-1911	Joseph Matthewman, Eliza Matthewman	Assumed agricultural land	Agricultural or other use	None
1911-1927	John Easton	Assumed agricultural land	Agricultural or other use	None
1927-1930	Mary Pendlease, McKenzie Pendlease	Assumed agricultural land	Agricultural or other use	None
1930-1945	Delmur Washburn Baker, Margaret Jean Baker	Row crop agriculture and vegetated land	Agricultural or other use	The 1934 aerial photograph indicated that this portion of the Phase One Property consisted of majority row crop agriculture and woodland (south portion).
1945-1956	Cecil Lloyd Barker, Gertrude Clarissa Barker	Row crop agriculture and vegetated land	Agricultural or other use	The 1954 aerial photograph indicated that this portion of the Phase One Property consisted of majority row crop

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
				agriculture and woodland (south portion).
1956-1960	Paul Rychlitsky, Steve Solomon	Row crop agriculture and vegetated land	Agricultural or other use	None
1960-1965	John Bachynaky	Row crop agriculture and vegetated land	Agricultural or other use	The 1965 aerial photograph indicated that this portion of the Phase One Property consisted of majority row crop agriculture and woodland (south portion).
1965-1973	Paul Rychlitsky, Steven Solomon	Row crop agriculture and vegetated land	Agricultural or other use	
1973-1982	Jack Bloomberg	Row crop agriculture and vegetated land	Agricultural or other use	The 1979 aerial photograph indicated that this portion of the Phase One Property consisted of majority row crop agriculture and woodland (south portion).
1982-1999	505721 Ontario Limited	Row crop agriculture and vegetated land	Agricultural or other use	The 1998 aerial photograph indicated that this portion of the Phase One Property consisted of majority row crop agriculture and woodland (south portion).
1999-2013	Paletta International Corporation	Row crop agriculture and vegetated land	Agricultural or other use	The 2002 and 2010 aerial photographs indicated that this portion of the Phase One Property consisted of majority row crop agriculture and woodland (south portion).
2013-Present	2362302 Ontario Inc.	Row crop agriculture and vegetated land	Agricultural or other use	The 2023 aerial photograph and Cambium's site reconnaissance indicated that this portion of the Phase One Property consisted of majority row

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
				crop agriculture and woodland (south portion).

Table 5 - Table of Current and Past Uses of the Phase One Property – PIN 07183-1218 (Southeast of Upper Middle Road, Northwest of Mainway, Southeast of Burloak Drive)

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
Pre-1828	Crown	Sheldon Creek and assumed agricultural land	Agricultural or other use	None
1828-1841	King's College	Sheldon Creek and assumed agricultural land	Agricultural or other use	None
1841-1842	Thomas Atkinson Sr	Sheldon Creek and assumed agricultural land	Agricultural or other use	None
1842-1892	Thomas Atkinson Jr	Sheldon Creek and assumed agricultural land	Agricultural or other use	None
1892-1895	Charles Porter	Sheldon Creek and assumed agricultural land	Agricultural or other use	None
1895-1921	Hugh James Porter, David Alexander Porter	Sheldon Creek and assumed agricultural land	Agricultural or other use	None
1921-1940	John Blain Breckon	Sheldon Creek and assumed agricultural land	Agricultural or other use	The 1934 aerial photograph indicated that this portion of the Phase One Property consisted of majority row crop agriculture and woodland and Sheldon Creek (southeast portion).
1940-1948	John MacPherson Breckon, Joseph Carl Breckon, William Alton Breckon	Sheldon Creek and assumed agricultural land	Agricultural or other use	None

Year	Name of Owner	Description of Property Use	Property Use[1]	Other Observations from Aerial Photographs, Fire Insurance Plans, Etc.
1948-1973	John MacPherson Breckon	Sheldon Creek and assumed agricultural land	Agricultural or other use	The 1954 and 1965 aerial photograph indicated that this portion of the Phase One Property consisted of majority row crop agriculture and woodland and Sheldon Creek (southeast portion).
1973-1980	Monarch Construction Limited	Sheldon Creek and assumed agricultural land	Agricultural or other use	The 1979 aerial photograph indicated that this portion of the Phase One Property consisted of majority row crop agriculture and woodland and Sheldon Creek (southeast portion).
1980-1999	453217 Ontario Limited (renamed to Richview Investments Limited)	Sheldon Creek and assumed agricultural land	Agricultural or other use	The 1998 aerial photograph indicated that this portion of the Phase One Property consisted of majority row crop agriculture and woodland and Sheldon Creek (southeast portion).
1999-2013	Paletta International Corporation	Sheldon Creek and assumed agricultural land	Agricultural or other use	The 2010 aerial photograph indicated that this portion of the Phase One Property consisted of majority row crop agriculture and woodland and Sheldon Creek (southeast portion).
2013-Present	2362302 Ontario Inc.	Sheldon Creek and assumed agricultural land	Agricultural or other use	The 2023 aerial photograph and Cambium's site reconnaissance indicated that this portion of the Phase One Property consisted of majority row crop agriculture and woodland and Sheldon Creek (southeast portion).

Notes:

1 - for each owner, specify one of the following types of property use (as defined in O.Reg. 153/04) that applies:

Agriculture or other use *Commercial use*

Community use
Industrial use
Institutional use
Parkland use
Residential use

Table 6 - Table of Potentially Contaminating Activities

PCA ID #	Potentially Contaminating Activity[1]	Location of PCA	PCA Description	APEC[2] (Yes/No)
PCA 1	#30 - Importation of Fill Material of Unknown Quality	**On-site:** across the Phase One Property in various locations identified in a previous geotechnical investigation and based on the historical presence of two residential dwellings	Imported fill material	Yes
PCA 2	#40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	**On-site:** north portion of the Phase One Property	An inferred orchard was observed in the north portion of the Phase One Property in the 1934, 1954 and 1964 aerial photographs.	Yes
PCA 3	#40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	**On-site:** northwest portion of the Phase One Property	An inferred orchard was observed in the north portion of the Phase One Property in the 1934, 1954 and 1964 aerial photographs.	Yes
PCA 4	#40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	**On-site:** across the Phase One Property, excluding the forested portions and Sheldon Creek	Agricultural row crops have been grown on the Phase One Property since at least 1934, based on the aerial photograph review.	Yes
PCA 5	#55 - Transformer Manufacturing, Processing and Use	**Off-site:** 5510 and 5540 Mainway	Two oil-cooled transformers were observed at this property.	No

PCA ID #	Potentially Contaminating Activity[1]	Location of PCA	PCA Description	APEC[2] (Yes/No)
		30 m southeast (down-gradient)		
PCA 6	#28 - Gasoline and Associated Products Storage in Fixed Tanks	**Off-site:** 5600 Mainway 30 m southeast (down-gradient)	An RFO has operated at this property since about 2006. Five USTs are located approximately 75 m southeast of the Site.	No
PCA 7	#8 - Chemical Manufacturing, Processing and Bulk Storage	**Off-site:** 5480 Mainway 30 m southeast (down-gradient)	Bioshop Canada Inc. was listed in the Chemical Register as a distributor of chemicals.	No
PCA 8	Not Applicable - hazardous waste generation	**Off-site:** 5450 Mainway 30 m southeast (down-gradient)	Waste generation of petroleum distillates, aromatic solvents, paint / pigment / coating residues, and organic laboratory chemicals.	No
PCA 9	Not Applicable - spill	**Off-site:** 5420 Mainway 30 m southeast (down-gradient)	An estimated 40 L spill of hydraulic oil was reported at this property in 2010.	No
PCA 10	Not Applicable - hazardous waste generation	**Off-site:** 5250 Mainway 30 m southeast (down-gradient)	Waste generation of oil skimmings and sludges, petroleum distillates, inorganic laboratory chemicals and organic laboratory chemicals.	No
PCA 11	#43 - Plastics (including Fiberglass) Manufacturing and Processing	**Off-site:** 5330 Mainway 30 m southeast (down-gradient)	A plastic manufacturer was identified at this property. Waste generation of aliphatic solvents and waste oils and lubricants were also reported for the plastic manufacturer.	No
PCA 12	#34 - Metal Fabrication	**Off-site:** 5300 Mainway 30 m southeast (down-gradient)	A machine shop was identified at this property. Waste generation of petroleum distillates, and transfer station oil wastes were also reported	No

PCA ID #	Potentially Contaminating Activity[1]	Location of PCA	PCA Description	APEC[2] (Yes/No)
			for this property, associated with the machine shop.	
PCA 13	Not Applicable - hazardous waste generation	**Off-site:** 5300 Mainway 30 m southeast (down-gradient)	Waste generation of oil skimmings and sludges.	No
PCA 14	#34 - Metal Fabrication	**Off-site:** 5200 Mainway 30 m southeast (down-gradient)	A machine shop was identified at this property. Waste generation of waste oils and lubricants, alkaline wastes – other metals, paint / pigment / coating residues, petroleum distillates, light fuels, and emulsified oils were also reported for this property, associated with the machine shop.	No
PCA 15	#8 - Chemical Manufacturing, Processing and Bulk Storage	**Off-site:** 1350 Heine Court 115 m southeast (down-gradient)	Normac Adhesive Products Inc was listed in the Chemical Register as a distributor of chemicals. Waste generation of aliphatic solvents, oil skimmings and sludges, waste oils and lubricants, polymeric resins, paint / pigment / coating residues, and petroleum distillates, associated with the chemical bulk storage operation.	No
PCA 16	Not Applicable - spill	**Off-site:** 1330 Heine Court 115 m southeast (down-gradient)	A 100 L diesel spill was reported at this property in 2021.	No
PCA 17	Not Applicable - spill	**Off-site:** 1220 Burloak Drive 220 m southeast (down-gradient)	A 350 L transformer oil spill was reported at this property in 2013.	No
PCA 18	Not Applicable - hazardous waste generation	**Off-site:** 1220 Burloak Drive	Waste generation of oil skimmings and sludges.	No

PCA ID #	Potentially Contaminating Activity[1]	Location of PCA	PCA Description	APEC[2] (Yes/No)
		220 m southeast (down-gradient)		
PCA 19	Not Applicable - hazardous waste generation	**Off-site:** 1325-1329 Heine Court 175 m southeast (down-gradient)	Waste generation of emulsified oils, paints / pigments / coating wastes, detergents and soaps and inorganic laboratory chemicals.	No
PCA 20	#8 - Chemical Manufacturing, Processing and Bulk Storage	**Off-site:** 5275 John Lucas Drive 135 m southeast (down-gradient)	Controlchem Canada was listed in the Chemical Register for bulk storage of chemicals. Waste generation of acid wastes – other metals and oil skimmings and sludges was also reported for the chemical operation.	No
PCA 21	#43 - Plastics (including Fiberglass) Manufacturing and Processing	**Off-site:** 5150 Mainway 30 m southeast (down-gradient)	A plastic bottle manufacturer was identified at this property.	No
PCA 22	Not Applicable - hazardous waste generation	**Off-site:** 5150 Mainway 30 m southeast (down-gradient)	Waste generation of graphic art wastes, paint / pigment / coating residues, and oil skimmings and sludges.	No
PCA 23	#34 - Metal Fabrication	**Off-site:** 5280 John Lucas Drive 185 m southeast (down-gradient)	Frost Products Limited was identified as a metal fabricator of metal shelves, lockers and partitions at this property.	No
PCA 24	Not Applicable - hazardous waste generation	**Off-site:** 5280 John Lucas Drive 185 m southeast (down-gradient)	Waste generation of organic laboratory chemicals, alkaline wastes – other metals, inorganic laboratory chemicals, wastes oils and lubricants, waste compressed gases, acid wastes – other metals, and paint / pigment /	No

PCA ID #	Potentially Contaminating Activity[1]	Location of PCA	PCA Description	APEC[2] (Yes/No)
			coating residues was also reported at this property.	
PCA 25	#54 - Textile Manufacturing and Processing	**Off-site:** 5295 John Lucas Drive 185 m southeast (down-gradient)	Natrix Separations Inc., a fabric coating manufacturer, was identified at this property.	No
PCA 26	#50 - Soap and Detergent Manufacturing, Processing and Bulk Storage	**Off-site:** 5295 John Lucas Drive 185 m southeast (down-gradient)	Willard Manufacturing, a soap and cleaning compound manufacturer, was identified at this property.	No
PCA 27	#43 - Plastics (including Fiberglass) Manufacturing and Processing	**Off-site:** 5295 John Lucas Drive 185 m southeast (down-gradient)	RAMPF Composite Solutions, a manufacturer of carbon fibre and fibreglass composites, was identified at this property.	No
PCA 28	Not Applicable - hazardous waste generation	**Off-site:** 5295 John Lucas Drive 185 m southeast (down-gradient)	Waste generation of waste oils and lubricants and oil skimmings and sludges.	No
PCA 29	Not Applicable - hazardous waste generation	**Off-site:** 1330 Sutton Drive 125 m southeast (down-gradient)	Waste generation of oil skimmings and sludges, petroleum distillates and emulsified oils.	No
PCA 30	Not Applicable - hazardous waste generation	**Off-site:** 5305 John Lucas Drive 185 m southeast (down-gradient)	Waste generation of halogenated solvents, aliphatic solvents, paint / pigment / coating residues, emulsified oils, petroleum distillates, and waste oils and lubricants.	No

PCA ID #	Potentially Contaminating Activity[1]	Location of PCA	PCA Description	APEC[2] (Yes/No)
PCA 31	#34 - Metal Fabrication	**Off-site:** 5305 John Lucas Drive 185 m southeast (down-gradient)	Applus RTD Canada, a metal fabrication operation, was identified at this property.	No
PCA 32	Not Applicable - hazardous waste generation	**Off-site:** 5335 John Lucas Drive 185 m southeast (down-gradient)	Waste generation of aliphatic solvents, petroleum distillates, waste oils and lubricants, and oil skimmings and sludges.	No
PCA 33	Not Applicable - hazardous waste generation	**Off-site:** 1200 Burloak Drive 230 m southeast (down-gradient)	Waste generation of petroleum distillates, oil skimmings and sludges, waste oils and lubricants and other specified inorganics.	No
PCA 34	Not Applicable - hazardous waste generation	**Off-site:** 1320 Heine Court 195 m southeast (down-gradient)	Waste generation of petroleum distillates and waste oils and lubricants.	No

Notes:
1 - Potentially Contaminating Activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area
2 - Area of Potential Environmental Concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through,
(a) identification of past or present uses on, in or under the phase one property, and
(b) identification of potentially contaminating activity.

Table 7 – Table of Areas of Potential Environmental Concern

APEC[1]	Location of APEC on the Phase One Property	PCA[2]		Location of PCA (on-site or off-site)	Contaminants of Potential Concern[3]	Media Potentially Impacted (ground water, soil, and/or sediment)
APEC 1	North, central and southeast portions of the Phase One Property	1	#30 - Importation of Fill Material of Unknown Quality	**On-site:** north, central, and southeast portions of Phase One Property	PHCs, VOCs, PAHs, metals, hydride forming metals (As, Sb, Se), EC, SAR, B-HWS, CN-, Hg, Cr(VI)	Soil
APEC 2	North portion of the Phase One Property (former orchard)	2	#40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	**On-site:** north portion of Phase One Property	OCPs, metals hydride forming metals (As, Sb, Se), B-HWS, CN-, Hg, Cr(VI)	Soil
APEC 3	Northwest portion of the Phase One Property	3	#40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	**On-site:** northwest portion of Phase One Property	OCPs, metals, hydride forming metals (As, Sb, Se), B-HWS, CN-, Hg, Cr(VI)	Soil
APEC 4	Former agricultural portions of the Phase One Property (majority of Site)	4	#40 - Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	**On-site:** Majority of the Phase One Property	OCPs, metals hydride forming metals (As, Sb, Se), B-HWS, CN-, Hg, Cr(VI)	Soil

Notes

1 - Area of Potential Environmental Concern means the area on, in or under a phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through,

(a) identification of past or present uses on, in or under the phase one property, and
(b) identification of potentially contaminating activity.

2 - Potentially Contaminating Activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring or has occurred in a phase one study area

3 - when completing this column, identify all contaminants of potential concern using the Method Groups as identified in the "Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011, as specified below:

ABNs	*PCBs*	*Metals*	*Electrical Conductivity*	*SAR*
CPs	*PAHs*	*As, Sb, Se*	*Cr (VI)*	
1,4-Dioxane	*THMs*	*Na*	*Hg*	
Dioxins/Furans, PCDDs/PCDFs	*VOCs*	*B-HWS*	*Methyl Mercury*	
OCs	*BTEX*	*Cl-*	*high pH*	
PHCs	*Ca, Mg*	*CN-*	*low pH*	

Appendix A

Plan of Survey

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE

CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 1750

0 50 100 150 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:1750 (INCLUDING 15mm BEYOND EACH BORDER)

MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS

© 2024

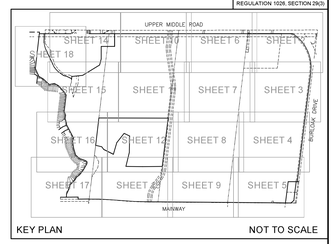
METRIC DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

COLOUR PLAN OF SURVEY CONTAINS COLOUR

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)

KEY PLAN — NOT TO SCALE



BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD2CR (VDB) ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH WEST LIMIT OF PART 1 PLAN EX–234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R–10977
- P2 DENOTES PLAN 20M–525
- P3 DENOTES PLAN 20M–721
- P4 DENOTES PLAN EX–234
- P5 DENOTES PLAN EX–125
- P6 DENOTES PLAN 20R–13150
- P7 DENOTES PLAN 20M–671
- P8 DENOTES PLAN 20R–18145
- P9 DENOTES PLAN 20R–7372
- P10 DENOTES PLAN 20M–505
- P11 DENOTES PLAN EX–237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CNC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- HYDRO DENOTES HYDRO TRANSFORMER
- RMB DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- GAS — DENOTES GAS MAIN
- FO — DENOTES FIBER OPTIC
- MH — DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H — DENOTES HYDRO
- OH — DENOTES OVERHEAD WIRE
- WM — DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MAYS
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\2023 Halton\23MPS NELSON\23DSU CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905)639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY: K.J.D.
PARTY CHIEF: A.C.
CHECKED: R.C.M.
PROJECT No.: SHEET 1/18
23–015–PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE
CITY OF BURLINGTON
REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS
© 2024

METRIC *DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048*

COLOUR *PLAN OF SURVEY CONTAINS COLOUR*

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY
ISSUED BY THE SURVEYOR
IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MANWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- DENOTES HYDRO TRANSFORMER
- DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES GAS MAIN
- FO DENOTES FIBER OPTIC
- CMH DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H DENOTES HYDRO
- OH DENOTES OVERHEAD WIRE
- W DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MAYO
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

K:\2015 Halton\LDWG NELSON\SDG\ CON 2\LOT 1, 2, 3, 4\23-015\23-015.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Unit 100
Burlington, ON
L7N 3J5
(905) 639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY: K.J.D.
PARTY CHIEF: A.C.
CHECKED BY:
PROJECT No.: SHEET 2/18
23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE

CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

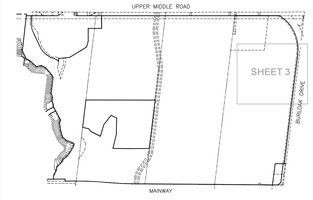
MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS
© 2024

METRIC *DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048*

COLOUR *THE ORIGINAL SIGNED PRINT OF THIS PLAN OF SURVEY CONTAINS COLOUR*

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. HS42080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- HYDRO DENOTES HYDRO TRANSFORMER
- RMB DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES GAS MAIN
- FO DENOTES FIBER OPTIC
- BT DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H DENOTES HYDRO
- OH DENOTES OVERHEAD WIRE
- WM DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MACKAY
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\2023 Halton\TMP\ NL10SN10S0 COM 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
Mackay, Mackay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905)639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY: K.J.D.
PARTY CHIEF: A.C.
CHECKED BY:
PROJECT No.: SHEET 3/18
23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE

CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

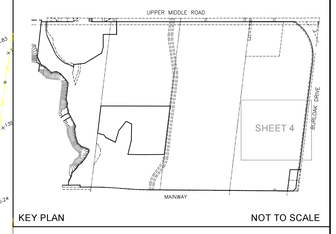
MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS
© 2024

METRIC *DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048*

COLOUR *PLAN OF SURVEY CONTAINS COLOUR*

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- DENOTES HYDRO TRANSFORMER
- DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES GAS MAIN
- DENOTES FIBER OPTIC
- DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- DENOTES HYDRO
- DENOTES OVERHEAD WIRE
- DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MACKAY
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\[20] Halton\TMP\ 1613DN\1DSD\ CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3365 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905)639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED	
PROJECT No.:	SHEET 4/18
23-015-PS	

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE
CITY OF BURLINGTON
REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS

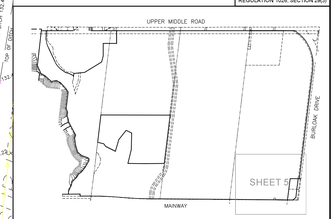
© 2024

METRIC DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

COLOUR THE ORIGINAL SIGNED PRINT OF THIS PLAN OF SURVEY CONTAINS COLOUR

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- MH DENOTES MANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHY DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- DENOTES HYDRO TRANSFORMER
- RMB DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- GAS — GAS — DENOTES GAS MAIN
- FO — FO — DENOTES FIBER OPTIC
- MH — MH — DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H — H — DENOTES HYDRO
- OH — OH — DENOTES OVERHEAD WIRE
- WW — WW — DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY G. MACKAY
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\(20) Halton\(WP) NELSON\(SDS) CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1956

3380 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905)639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED BY:	
PROJECT No.:	SHEET 5/18
	23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF
LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.
GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE
CITY OF BURLINGTON
REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS
© 2024

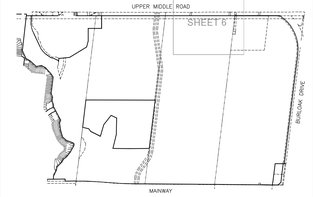
METRIC *DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048*

COLOUR *PLAN OF SURVEY CONTAINS COLOUR*

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)

KEY PLAN — NOT TO SCALE



BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDARD IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- MH DENOTES MANHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- ▽ DENOTES HYDRO TRANSFORMER
- RMB DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES GAS MAIN
- FO DENOTES FIBER OPTIC
- DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H DENOTES HYDRO
- OH DENOTES OVERHEAD WIRE
- WM DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MACKAY
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\(20) Halton\(7MP) NELSON\(505) CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905)639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED BY:	
PROJECT No.:	SHEET 6/18
	23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE

CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS

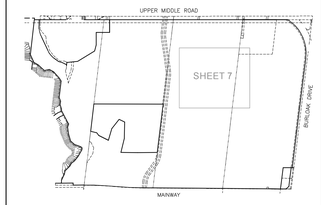
© 2024

METRIC *DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048*

COLOUR *PLAN OF SURVEY CONTAINS COLOUR*

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY
ISSUED BY THE SURVEYOR
IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL. 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- DENOTES HYDRO TRANSFORMER
- RMB DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- GAS DENOTES GAS MAIN
- FO DENOTES FIBER OPTIC
- CT DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H DENOTES HYDRO
- OH DENOTES OVERHEAD WIRE
- WM DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MACKAY
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\1203 Halton\(TWP) NELSON\(SDS) CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1908

3380 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905) 639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED:	
PROJECT No.:	SHEET 7/18
	23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE

CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS

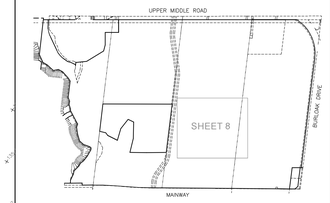
© 2024

METRIC *DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048*

COLOUR *PLAN OF SURVEY CONTAINS COLOUR*

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-571
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-227
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHY DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- HYDRO DENOTES HYDRO TRANSFORMER
- RMB DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES GAS MAIN
- DENOTES FIBER OPTIC
- DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- DENOTES HYDRO
- DENOTES OVERHEAD WIRE
- DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MACKAY
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

K:\J202 Halton\(TWP) NELSON\(S20) CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905) 639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED BY:	
PROJECT No.:	SHEET 8/18
	23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE

CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

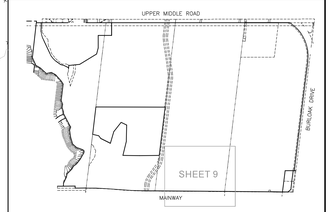
MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS
© 2024

METRIC DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

COLOUR THE ORIGINAL SIGNED PRINT OF THIS PLAN OF SURVEY CONTAINS COLOUR

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

SUBJECT TO EASEMENT AS INST. No. H428281

MAINWAY
(DEDICATED BY PLAN 20M--525)

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL, 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHv DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- HY DENOTES HYDRO TRANSFORMER
- RMB DENOTES RURAL MAIL BOX
- STUMP DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES GAS MAIN
- FO DENOTES FIBER OPTIC
- DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H DENOTES HYDRO
- OH DENOTES OVERHEAD WIRE
- WM DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MAYO
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\1201 Halton\TWP\ NELSON\13500 DSN 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Unit 103
Burlington, ON
L7N 3J5
(905) 639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY: K.J.D.
PARTY CHIEF: A.C.
CHECKED BY:
PROJECT No.: SHEET 9/18
23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE
CITY OF BURLINGTON
REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

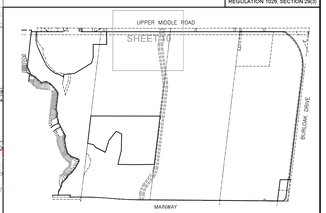
MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS
© 2024

METRIC DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

COLOUR PLAN OF SURVEY CONTAINS COLOUR

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. HS42080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- HYDRO DENOTES HYDRO TRANSFORMER
- RMB DENOTES RURAL MAIL BOX
- STUMP DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- GAS GAS MAIN
- FO DENOTES FIBER OPTIC
- BT DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H DENOTES HYDRO
- OH DENOTES OVERHEAD WIRE
- W DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MYDE
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\(20) Halton\(TMP) NELSON\(505) CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905)639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED:	
PROJECT No.:	SHEET 10/18
	23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE
CITY OF BURLINGTON
REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS

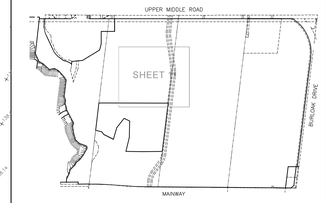
© 2024

METRIC *DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048*

COLOUR *PLAN OF SURVEY CONTAINS COLOUR*

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY
ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- Ⓥ DENOTES HYDRO TRANSFORMER
- RMB DENOTES RURAL MAIL BOX
- Ⓢ DENOTES STUMP
- ○ DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- ✳ DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- G DENOTES GAS MAIN
- FO DENOTES FIBER OPTIC
- JT DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H DENOTES HYDRO
- OH DENOTES OVERHEAD WIRE
- W DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MAIN
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\(20) Halton\(WP) NELSON\(505) CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905)639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED BY:	
PROJECT No.:	SHEET 11/18
	23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE
CITY OF BURLINGTON
REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS

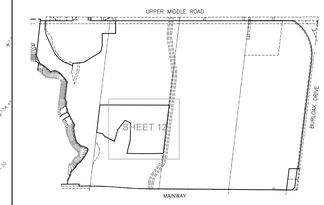
© 2024

METRIC *DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048*

COLOUR *PLAN OF SURVEY CONTAINS COLOUR*

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL. 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E.

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- HT DENOTES HYDRO TRANSFORMER
- RMB DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- GAS — DENOTES GAS MAIN
- FO — DENOTES FIBER OPTIC
- CT — DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H — DENOTES HYDRO
- OH — DENOTES OVERHEAD WIRE
- WM — DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MACKAY
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\2015 Halton\TMP\ 1 NELSON\15DG CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3365 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905)639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED BY:	
PROJECT No.:	SHEET 12/18
	23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE
CITY OF BURLINGTON
REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

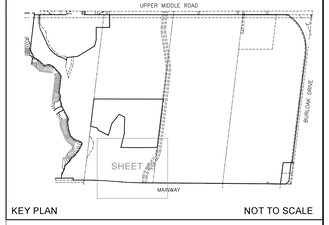
MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS
© 2024

METRIC DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

COLOUR PLAN OF SURVEY CONTAINS COLOUR

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD2013 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-224
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- DENOTES HYDRO TRANSFORMER
- DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES GAS MAIN
- DENOTES FIBER OPTIC
- DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- DENOTES HYDRO
- DENOTES OVERHEAD WIRE
- DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY E. MAIN
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\(20) Halton\(TMP) NELSON\(500) CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Suite 100
Burlington, ON
L7N 3J5
(905) 639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED BY:	
PROJECT No.:	SHEET 13/18
23-015-PS	

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.
GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE
CITY OF BURLINGTON
REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

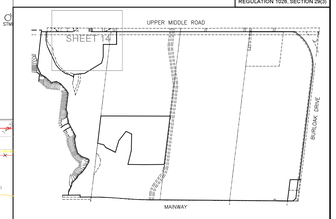
MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS
© 2024

METRIC *DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048*

COLOUR *THE ORIGINAL SIGNED PRINT OF THIS PLAN OF SURVEY CONTAINS COLOUR*

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY
ISSUED BY THE SURVEYOR
IN ACCORDANCE WITH
REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- MH DENOTES MANHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- HYDRO DENOTES HYDRO TRANSFORMER
- MB DENOTES RURAL MAIL BOX
- STUMP DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- GM DENOTES GAS MAIN
- FO DENOTES FIBER OPTIC
- MH DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H DENOTES HYDRO
- OH DENOTES OVERHEAD WIRE
- WM DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY K. MAYO
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\(20) Halton\(TMP) NELSON\(500) CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906
3380 South Service Road
Suite 100
Burlington, ON
L7N 3J5
(905) 639-1375
halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED BY:	
PROJECT No.:	SHEET 14/18
	23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE

CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

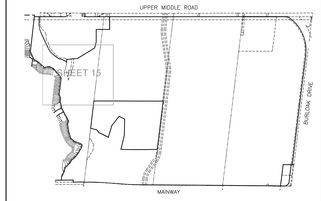
MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS
© 2024

METRIC DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

COLOUR PLAN OF SURVEY CONTAINS COLOUR

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E.

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- H DENOTES HYDRO TRANSFORMER
- RMB DENOTES RURAL MAIL BOX
- S DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- GAS — DENOTES GAS MAIN
- FO — DENOTES FIBER OPTIC
- MH — DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H — DENOTES HYDRO
- OH — DENOTES OVERHEAD WIRE
- WM — DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MAY
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\(20) Halton\(TWP) NELSON\(SDS) CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905)639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED BY:	R.C.M.
PROJECT No.:	SHEET 15/18
	23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE

CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

0 5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

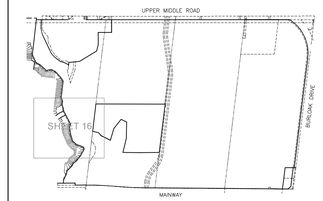
MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS
© 2024

METRIC *DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048*

COLOUR *PLAN OF SURVEY CONTAINS COLOUR*

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD2013 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHY DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- DENOTES HYDRO TRANSFORMER
- DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES GAS MAIN
- DENOTES FIBER OPTIC
- DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- DENOTES HYDRO
- DENOTES OVERHEAD WIRE
- DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY C. MAY
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\1201 Halton\WP\ 1613061\SDG DGN 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
Mackay, Mackay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Unit 103
Burlington, ON
L7N 3J5
(905) 639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY: K.J.D.
PARTY CHIEF: A.C.
CHECKED BY: R.C.M.
PROJECT No.: SHEET 16/18
23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE
CITY OF BURLINGTON
REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

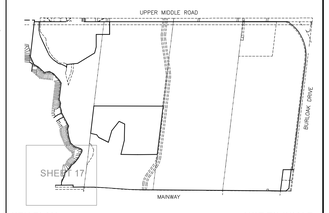
MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS
© 2024

METRIC *DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048*

COLOUR *THE ORIGINAL SIGNED PRINT OF THIS PLAN OF SURVEY CONTAINS COLOUR*

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE

BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL, 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E.

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- HH DENOTES HANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHV DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- ▽ DENOTES HYDRO TRANSFORMER
- MB DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- GG DENOTES GAS MAIN
- FO DENOTES FIBER OPTIC
- M DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H DENOTES HYDRO
- OH DENOTES OVERHEAD WIRE
- WW DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

RAY C. MAYO
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\L\[20] Halton\TMP\ NELSON\LOT(S) CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905)639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED BY:	RCM
PROJECT No.:	SHEET 17/18
	23-015-PS

PLAN OF SURVEY OF
WITH TOPOGRAPHIC FEATURES
PART OF

LOTS 1, 2, 3 & 4
CONCESSION 2 S.D.S.

GEOGRAPHIC TOWNSHIP OF NELSON
NOW IN THE
CITY OF BURLINGTON
REGIONAL MUNICIPALITY OF HALTON

SCALE 1 : 400

5 10 20 40 metres

THE INTENDED PLOT SIZE OF THIS PLAN IS 1220mm IN WIDTH BY 915mm IN HEIGHT WHEN PLOTTED AT A SCALE OF 1:400 (INCLUDING 15mm BEYOND EACH BORDER)

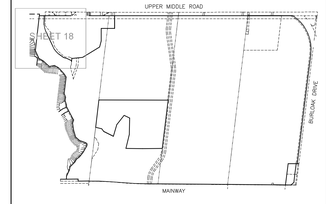
MacKAY, MacKAY & PETERS LIMITED - ONTARIO LAND SURVEYORS
© 2024

METRIC DISTANCES SHOWN HEREON ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

COLOUR PLAN OF SURVEY CONTAINS COLOUR

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
V-58243

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1026, SECTION 29(3)



KEY PLAN NOT TO SCALE



BENCHMARK NOTE

CITY OF BURLINGTON BENCHMARK No. 421
ELEVATION = 129.726 m (CGVD28:78 ADJUSTMENT)

PLAQUE ON SOUTH SIDE OF MAINWAY ON EAST FACE OF CONCRETE HEADWALL 0.1 METRES SOUTH OF NORTHFACE AND 0.02 METRES FROM TOP OF HEADWALL JUST WEST OF HEINE COURT.

BEARING REFERENCE

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE NORTH EAST LIMIT OF PART PLAN EX-234 HAVING A BEARING OF N36°58'40"E

LEGEND

- ■ DENOTES A SURVEY MONUMENT FOUND
- □ DENOTES A SURVEY MONUMENT PLANTED
- SIB DENOTES STANDARD IRON BAR
- SSIB DENOTES SHORT STANDAR IRON BAR
- IB DENOTES IRON BAR
- P1 DENOTES PLAN 20R-10977
- P2 DENOTES PLAN 20M-525
- P3 DENOTES PLAN 20M-721
- P4 DENOTES PLAN EX-234
- P5 DENOTES PLAN EX-125
- P6 DENOTES PLAN 20R-13150
- P7 DENOTES PLAN 20M-671
- P8 DENOTES PLAN 20R-18145
- P9 DENOTES PLAN 20R-7372
- P10 DENOTES PLAN 20M-505
- P11 DENOTES PLAN EX-237
- D1 DENOTES INST. No. 628194
- D2 DENOTES INST. No. H542080
- C1 DENOTES CALCULATED FROM D1 & D2
- PIN DENOTES PROPERTY IDENTIFICATION NUMBER
- HSC DENOTES HALTON STANDARD CONDOMINIUM
- GM DENOTES GAS MARKER
- RS DENOTES ROAD SIGN
- MH DENOTES MANDHOLE
- TL DENOTES TRAFFIC LIGHT
- TSL DENOTES TRAFFIC LIGHT STANDARD
- FH DENOTES FIRE HYDRANT
- WVC DENOTES WATER VALVE CHAMBER
- BM DENOTES BELL MARKER
- BMH DENOTES BELL MANHOLE
- BP DENOTES BELL PEDESTAL
- BCT DENOTES BELL CELLULAR TOWER
- CB DENOTES CATCHBASIN
- STMH DENOTES STORM MANHOLE
- SNMH DENOTES SANITARY MANHOLE
- WHP DENOTES WOOD HYDRO POLE
- CHP DENOTES CONCRETE HYDRO POLE
- GW DENOTES GUY WIRE
- ULS DENOTES UTILITY LIGHT STANDARD
- OH DENOTES OVERHEAD UTILITIES
- HYT DENOTES HYDRO TOWER
- S.D.S. DENOTES SOUTH OF DUNDAS STREET
- WSV DENOTES WATER SERVICE VALVE
- MHP DENOTES METAL HYDRO POLE
- LP DENOTES LIGHT POLE
- HMH DENOTES HYDRO MANHOLE
- DCB DENOTES DOUBLE CATCH BASIN
- WHY DENOTES WATER HYDRANT VALVE
- WM DENOTES WATER METER
- MW DENOTES MONITORING WELL
- TB DENOTES TEST BOX
- BPV DENOTES BELL PEDESTAL VAULT
- JB DENOTES JUNCTION BOX
- (BTM) DENOTES BOTTOM
- (INV) DENOTES INVERSE
- TOS DENOTES TOP OF SLOPE
- BOS DENOTES BOTTOM OF SLOPE
- BCC DENOTES BACK OF CONCRETE CURB
- CONC DENOTES CONCRETE
- MB DENOTES MAIL BOX
- DENOTES HYDRO TRANSFORMER
- MB DENOTES RURAL MAIL BOX
- DENOTES STUMP
- DENOTES DECIDUOUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES CONIFEROUS TREE SCALED TO CANOPY TRUNK SIZE SHOWN IN METRES
- DENOTES GAS MAIN
- FO DENOTES FIBER OPTIC
- DENOTES CONCRETE CHAMBER WITH MULTIPLE BELL TELEPHONE LINES
- H DENOTES HYDRO
- OH DENOTES OVERHEAD WIRE
- W DENOTES WATER MAIN

SURVEYOR'S CERTIFICATE

I CERTIFY THAT:

1. THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE REGULATIONS MADE UNDER THEM.
2. THE SURVEY WAS COMPLETED ON THE 10th DAY OF MAY, 2024.

JUNE 11, 2024
DATE

ROY G. MAND
ONTARIO LAND SURVEYOR
FOR MACKAY, MACKAY & PETERS LIMITED

E:\(20) Halton\(MP) NELSON\(505) CON 2\LOT 1, 2, 3, 4\23-015\23-015-PS.dwg

MMP
MacKay, MacKay & Peters Limited
LAND SURVEYORS & MAPPERS
SINCE 1906

3380 South Service Road
Unit 101
Burlington, ON
L7N 3J5
(905)639-1375

halton@mmplimited.com
mmplimited.com

DRAWN BY:	K.J.D.
PARTY CHIEF:	A.C.
CHECKED:	
PROJECT No.:	SHEET 18/18
	23-015-PS

Appendix B

Opta

DATABASE REPORT

Project Property:	*Phase One ESA* *Bronte Creek Meadows* *Burlington ON*
Project No:	*21199-001*
Report Type:	*RSC Report - Quote*
Order No:	*24081200485*
Requested by:	*Cambium Inc.*
Date Completed:	*August 13, 2024*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Table of Contents.....2
Executive Summary.....3
Executive Summary: Report Summary.....4
Executive Summary: Site Report Summary - Project Property.....7
Executive Summary: Site Report Summary - Surrounding Properties.....9
Executive Summary: Summary By Data Source.....57
Map.....116
Aerial.....117
Topographic Map.....118
Detail Report.....119
Unplottable Summary.....536
Unplottable Report.....545
Appendix: Database Descriptions.....666
Definitions.....676

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Limited Partnership ("ERIS") using various sources of information, including information provided by Federal and Provincial government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report (s) are protected by copyright owned by ERIS Information Limited Partnership. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

Executive Summary

Property Information:

Project Property:	*Phase One ESA* *Phase One Environmental Site Assessment - Bronte Creek Meadows Burlington ON*
Project No:	*21199-001*

Order Information:

Order No:	*24081200485*
Date Requested:	*August 12, 2024*
Requested by:	*Cambium Inc.*
Report Type:	*RSC Report - Quote*

Historical/Products:

ERIS Xplorer	*ERIS Xplorer*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Plans*
Topographic Map	*RSC Maps*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	1	0	1
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	0	0
CA	Certificates of Approval	Y	0	37	37
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	1	1
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	6	6
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	4	4
EASR	Environmental Activity and Sector Registry	Y	0	8	8
EBR	Environmental Registry	Y	0	7	7
ECA	Environmental Compliance Approval	Y	0	23	23
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	2	43	45
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	6	6
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	10	10
FSTH	Fuel Storage Tank - Historic	Y	0	6	6
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	317	317
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	2	2

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	1	1
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPR2	National Pollutant Release Inventory 1993-2020	Y	0	2	2
NPRI	National Pollutant Release Inventory - Historic	Y	0	1	1
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	1	1
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	7	7
PFCH	NPRI Reporters - PFAS Substances	Y	0	0	0
PFHA	Potential PFAS Handlers from NPRI	Y	0	0	0
PINC	Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	2	2
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	2	2
SCT	Scott's Manufacturing Directory	Y	0	47	47
SPL	Ontario Spills	Y	0	10	10
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	1	1
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	1	1
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	1	0	1
WWIS	Water Well Information System	Y	8	64	72

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
Total:			12	610	622

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	EHS		5164, 5366, 5470 and 5900 Upper Middle Road and 5201 Mainway Burlington ON	ESE/0.0	0.00	119
2	WDSH		1 2 BURLINGTON ON	E/0.0	-4.94	119
3	ANDR	Trafalgar Con 1 SDS Dump	Burlington ON L7	E/0.0	-5.09	11
4	WWIS		SOUTHWEST BURLOAK AND UPPER MIDDLE Burlington ON ***Well ID:*** 7114329	NNE/0.0	5.86	120
5	WWIS		SOUTHWEST BURLOAK & UPPERMIDDLE Burlington ON ***Well ID:*** 7114254	N/0.0	6.08	123
6	WWIS		SOUTHWEST BURLOAK Burlington ON ***Well ID:*** 7114249	NNE/0.0	6.37	125
7	WWIS		SOUTH WEST &V UPPER MIDDLE BURLINGTON ON ***Well ID:*** 7114257	NNE/0.0	6.37	128
8	WWIS		lot 1 con 2 ON ***Well ID:*** 2800246	NNE/0.0	6.10	131

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
9	WWIS		SOUTH WEST BULOAK & UPPER MIDDLE BURLINGTON ON ***Well ID:*** 7114258	N/0.0	7.03	134
10	WWIS		SOTHWEST UPPERVEDDLE PURCELL Burlington ON ***Well ID:*** 7114252	N/0.0	7.97	138
11	WWIS		SOUTHWEST UPPERMIDDLE BURLOAK Burlington ON ***Well ID:*** 7114253	N/0.0	7.97	140
12	EHS		Upper Middle Road Burlington ON	N/0.0	8.00	143

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
13	ECA	Jannock Properties Limited	North Service Road Burlington ON L5L 4M1	ESE/10.3	-5.00	143
14	WWIS		5516 JOHN L DRIVE lot 2 con 2 BURLINGTON ON ***Well ID:*** 2809887	ESE/10.9	-5.00	144
15	WWIS		UPPER MIDDLE ROAD & APPLEBY Burlington ON ***Well ID:*** 7253139	WSW/17.2	3.04	145
16	WWIS		5164 UPPER MIDDLE RD lot 3-4 Burlington ON ***Well ID:*** 7100721	WSW/22.2	1.67	147
17	CA	MATTAMY HOMES LTD.	UPPER MIDDLE RD/DEER PLACE BURLINGTON CITY ON	NNW/25.4	6.95	151
18	CA	LIMESIDE DEVELOPMENTS	SUTTON DR. MAINWAY PH. 2 BURLINGTON CITY ON	SE/26.9	-5.00	152
18	CA	LIMESIDE DEVELOPMENT	MAINWAY SUTTON DR. PH. 2 BURLINGTON CITY ON	SE/26.9	-5.00	152
19	SPL	ENBRIDGE PIPELINES INC.	LOT#35, CONCESSION #2\UPPER MIDDLE RD & BURLOAK RD PIPELINE/COMPRESSOR STATION OAKVILLE TOWN ON	NNE/29.8	8.00	152
19	CA		Burloak Drive and Upper Middle Road Burlington ON	NNE/29.8	8.00	153
19	CA	The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON	NNE/29.8	8.00	153
19	CA	The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON	NNE/29.8	8.00	154

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
19	ECA	The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON L6M 3L1	NNE/29.8	8.00	154
19	ECA	Her Majesty the Queen in Right of Ontario as represented by the Minister of	Natural Resources Burloak Drive and Upper Middle Rd Burlington ON L7R 3X5	NNE/29.8	8.00	154
19	ECA	The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON L6M 3L1	NNE/29.8	8.00	155
19	ECA	Her Majesty the Queen in Right of Ontario as represented by the Minister of	Natural Resources Burloak Drive and Upper Middle Rd Burlington ON L6M 4J7	NNE/29.8	8.00	155
19	SPL	Enbridge Pipelines Inc.	corner of Upper Middle and Burloak Dr Oakville ON	NNE/29.8	8.00	155
20	WWIS		163M SOUTH OF BRONTE PROVINCIAL PARK OAKVILLE ON ***Well ID:*** 7267355	NE/37.5	2.19	156
21	WWIS		162M SOUTH OF BRONTE PROVINCIAL PARK OAKVILLE ON ***Well ID:*** 7267356	NE/37.6	2.19	159
22	WWIS		lot 1 con 2 ON ***Well ID:*** 2805095	E/38.2	-5.63	161
23	WWIS		ON ***Well ID:*** 7262592	NE/45.7	3.00	164
24	WWIS		NW CORNER UPPER MIDDLE ON ***Well ID:*** 7105627	NNE/47.9	8.00	165
25	ECA	RRL Burloak Inc.	1477 Burloak Dr to 1519 Buloak Dr (Regional Road #21) Oakville ON L6J 7W5	NNE/49.5	7.01	169
26	FSTH	SUNCOR ENERGY PRODUCTS INC**	5600 MAINWAY BURLINGTON ON L7L 6C4	E/59.5	-6.00	169
26	FSTH	1704271 ONTARIO INC O/A GAS STN	5600 MAINWAY BURLINGTON ON L7L 6C4	E/59.5	-6.00	170

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
26	CA	Suncor Energy Products Inc.	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	170
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	171
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	171
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	171
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	171
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	172
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	172
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	172
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	172
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	173
26	GEN	Suncor Energy	5600 Mainway Burlington ON	E/59.5	-6.00	173
26	ECA	Suncor Energy Products Inc.	5600 Mainway Burlington ON M2P 2C5	E/59.5	-6.00	173
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	174

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	174
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	174
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	175
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	175
26	DTNK		5600 MAINWAY BURLINGTON ON L7L 6C4	E/59.5	-6.00	176
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	176
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	177
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	177
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	177
27	EHS		Mainway Burlington ON L7L 6C4	E/60.5	-6.00	177
28	EHS		5470 Upper Middle Road Burlington ON	N/62.0	7.30	178
29	SPL	BURLINGTON HYDRO-ELECTRIC COMM	5119 FALCONCREST RD UPPER MIDDLE RD & APPLEBY LINE TRANSFORMER BURLINGTON CITY ON L7L 6K3	WSW/63.3	0.00	178
30	GEN	Hearthland	5450 Mainway Drive Burlington ON L7L 6A4	E/65.1	-6.00	179

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
30	SCT	Hearthland Fireplaces Limited	5450 Mainway Burlington ON L7L 6A4	E/65.1	-6.00	179
30	GEN	Hearthland	5450 Mainway Drive Burlington ON L7L 6A4	E/65.1	-6.00	180
30	GEN	Hearthland	5450 Mainway Drive Burlington ON L7L 6A4	E/65.1	-6.00	180
30	EHS		5450 Mainway Burlington ON L7L6A4	E/65.1	-6.00	180
30	GEN	Infinity Group Construction	5450 Mainway Dr. Burlington ON L7L 6A4	E/65.1	-6.00	181
30	GEN	Infinity Group Construction	5450 Mainway Dr. Burlington ON L7L 6A4	E/65.1	-6.00	181
30	GEN	Infinity Group Construction	5450 Mainway Dr. Burlington ON L7L 6A4	E/65.1	-6.00	181
31	WWIS		lot 35 con 2 ON ***Well ID:*** 2802409	NNE/67.9	7.81	182
32	SCT	FLOMETRICO LTD.	5480 MAINWAY DR BURLINGTON ON L7L 6A4	E/68.1	-6.47	185
32	SCT	Flometrico Ltd.	5480 Mainway Burlington ON L7L 6A4	E/68.1	-6.47	185
32	SCT	Peerless Pump Canada Inc.	5480 Mainway Burlington ON L7L 6A4	E/68.1	-6.47	185
32	EHS		5480 Mainway Burlington ON L7L 6A4	E/68.1	-6.47	186
32	CHM	BIOSHOP CANADA INC	5480 MAINWAY BURLINGTON ON L7L6A4	E/68.1	-6.47	186

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
32	CHM	BIOSHOP CANADA INC	5480 MAINWAY BURLINGTON ON L7L6A4	E/68.1	-6.47	186
32	CHM	BIOSHOP CANADA INC	5480 MAINWAY BURLINGTON ON L7L6A4	E/68.1	-6.47	186
33	WWIS		5600, 5570 MAUCUAY & BULEK (1240) BURLINGTON ON ***Well ID:*** 2810452	E/68.2	-6.00	186
34	WWIS		NW CORNER OF BURLOAK & UPPERMIDDLE Burlington ON ***Well ID:*** 7105625	N/69.0	8.00	188
35	ECA	Suncor Energy Products Inc.	Burlington ON M2P 2C5	E/70.7	-6.00	191
36	EHS		Mainway and Burloak Burlington ON	E/76.7	-6.00	191
36	EHS		Burloak Drive & Mainway Oakville ON	E/76.7	-6.00	191
37	EHS		5570 and 5600 Mainway and 1240 Burloak Dr Burlington ON	E/79.6	-6.53	191
38	WWIS		lot 35 con 2 ON ***Well ID:*** 2802406	NE/80.6	4.04	192
39	EHS		5219 Uppre Middle Road Burlington ON	W/81.0	4.90	194
40	ECA	Upper Middle Road Enclave Inc., Seveil Incorporated Canada, and Azaran	International Trading Ltd., for and on behalf of Upper Middle Road Enclave Limited Partnership 5219 Upper Middle Road 2004 and 2005 Georgina Court Burlington ON L4B 1G2	W/81.0	4.90	194
41	WWIS		5570 MAINWAY BURLINGTON ON	E/81.6	-6.24	195

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 2810465			
42	SCT	VE-GO Engineering Inc.	5420 Mainway Unit 3 Burlington ON L7L 6A4	E/82.5	-6.04	198
42	GEN	ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	E/82.5	-6.04	198
42	EBR	ALS Canada Ltd.	5420 Mainway Drive, Unit 5 & 6 Burlington Ontario L7L 6A4 Burlington ON	E/82.5	-6.04	198
42	EBR	ALS Canada Ltd.	5420 Mainway Drive Unit Unit 5 & 6 Burlington, Regional Municipality of Halton L7L 6A4 CITY OF BURLINGTON ON	E/82.5	-6.04	199
42	CA	ALS Canada Ltd.	5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	E/82.5	-6.04	199
42	CA	ALS Canada Ltd.	5420 Mainway Dr Burlington ON L7L 6A4	E/82.5	-6.04	200
42	SCT	M&H Probing Systems Ltd.	5420 Mainway Unit 2D Burlington ON L7L 6A4	E/82.5	-6.04	200
42	SPL		5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	E/82.5	-6.04	200
42	GEN	ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	E/82.5	-6.04	201
42	GEN	ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	E/82.5	-6.04	202
42	GEN	ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	E/82.5	-6.04	202
42	GEN	ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	E/82.5	-6.04	203

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
42	GEN	ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON	E/82.5	-6.04	203
42	ECA	ALS Canada Ltd.	5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	E/82.5	-6.04	204
42	ECA	ALS Canada Ltd.	5420 Mainway Dr Burlington ON L7L 6A4	E/82.5	-6.04	204
42	GEN	ALS Canada Ltd	5420 Mainway Unit #1 Burlington ON L7L 6A4	E/82.5	-6.04	204
42	GEN	ALS Canada Ltd	5420 Mainway Unit #1 Burlington ON L7L 6A4	E/82.5	-6.04	205
43	WWIS		SOUTH WEST INTERSECTION OF BURLOAK & UPPER MIDDLE Burlington ON ***Well ID:*** 7105631	N/82.5	7.38	206
44	WWIS		John Lucas Drive & Sutton Drive lot 1 con 2 Burlington ON ***Well ID:*** 7405082	ESE/84.8	-6.73	209
45	WWIS		NW CORNER OF UPPER MIDDLE & BURLOAK lot 1 Burlington ON ***Well ID:*** 7108932	N/84.9	8.00	212
46	WDS	Walker Environmental Group Inc.	5030 Mainway Burlington ON L7L 5Z1	WSW/85.0	-1.00	215
47	SCT	MCorp Technologies, Inc.	5150 Mainway Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	216
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON	SSE/86.0	-6.00	216
47	SCT	MTI Preforms Limited	5150 Mainway Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	216
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	217

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	217
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	217
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	218
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON	SSE/86.0	-6.00	218
47	GEN	Ductmate Canada Limited	1-5150 Mainway Burlington ON	SSE/86.0	-6.00	218
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON	SSE/86.0	-6.00	219
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	219
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	SSE/86.0	-6.00	219
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	220
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	SSE/86.0	-6.00	220
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	SSE/86.0	-6.00	221
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	221
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	221

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	SSE/86.0	-6.00	222
47	EASR	WENTWORTH TECH INC.	5150 MAINWAY BURLINGTON ON L7L 5Z1	SSE/86.0	-6.00	222
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	SSE/86.0	-6.00	223
47	GEN	Irco Automation Inc. Irco Automation Inc.	5150 Mainway, Unit #2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	223
47	GEN	Irco Automation Inc. Irco Automation Inc.	5150 Mainway, Unit #2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	223
47	GEN	Irco Automation Inc. Irco Automation Inc.	5150 Mainway, Unit #2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	224
48	SCT	CPC Pumps International Ltd.	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	224
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	224
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	225
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	225
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON	SSE/87.2	-6.00	226
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	226
48	EHS		5200 Mainway Drive Burlington ON	SSE/87.2	-6.00	227

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON	SSE/87.2	-6.00	227
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON	SSE/87.2	-6.00	228
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	SSE/87.2	-6.00	228
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	228
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	SSE/87.2	-6.00	229
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	SSE/87.2	-6.00	229
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	230
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	230
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	SSE/87.2	-6.00	231
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	231
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	232
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	SSE/87.2	-6.00	233
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	233

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	234
49	SCT	DIE-X-LIMITED	5540 MAINWAY DR BURLINGTON ON L7L 6C4	E/90.2	-6.82	234
49	SCT	AUTOMATED FLUID POWER	5540 Mainway Dr Unit 1-2 Burlington ON L7L 6C4	E/90.2	-6.82	234
49	SCT	Automated Fluid Power & Control Inc.	5540 Mainway Dr Unit 1-2 Burlington ON L7L 6C4	E/90.2	-6.82	235
49	SCT	Automated Fluid Power	5540 Mainway Burlington ON L7L 6C4	E/90.2	-6.82	235
49	GEN	Deloitte & Touche Inc.	5540 Mainway Burlington ON L7L 6C4	E/90.2	-6.82	236
50	GEN	Invitrogen Canada	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	236
50	GEN	Invitrogen Canada	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	236
50	GEN	Invitrogen Canada	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	237
50	GEN	Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	237
50	GEN	Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	238
50	GEN	Life Technologies Inc	5250 Mainway Burlington ON	SSE/91.2	-5.97	238
50	GEN	Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	239

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
50	GEN	Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	239
50	GEN	Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	240
50	GEN	Melrose Investments Inc.	5250 Mainway Drive Burlington ON L7L 5Z1	SSE/91.2	-5.97	240
50	GEN	Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	240
50	EHS		5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	241
50	GEN	Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	241
50	GEN	Melrose Investments Inc.	5250 Mainway Drive Burlington ON L7L 5Z1	SSE/91.2	-5.97	242
50	GEN	Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	242
50	GEN	Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	243
51	WWIS		lot 35 con 2 ON ***Well ID:*** 2802408	NNE/91.6	8.00	244
52	WWIS		lot 35 con 2 ON ***Well ID:*** 2802407	NNE/93.4	8.14	246
53	GEN	Konecranes Canada Inc.	5300 Mainway Burlington ON L7L6A4	ESE/94.2	-5.00	249
53	GEN	Konecranes Canada Inc.	5300 Mainway Burlington ON L7L6A4	ESE/94.2	-5.00	249

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
53	GEN	Konecranes Canada Inc.	5300 Mainway Burlington ON L7L6A4	ESE/94.2	-5.00	250
53	GEN	Melrose Investments Inc.	5300 Mainway Burlington ON L7L 5Z1	ESE/94.2	-5.00	250
53	GEN	Konecranes Canada Inc. Burlington	5300 Mainway Burlington ON L7L6A4	ESE/94.2	-5.00	250
53	GEN	Melrose Investments Inc.	5300 Mainway Burlington ON L7L 5Z1	ESE/94.2	-5.00	251
53	GEN	Konecranes Canada Inc. Burlington	5300 Mainway Burlington ON L7L6A4	ESE/94.2	-5.00	251
53	GEN	Konecranes Canada Inc. Burlington	5300 Mainway Burlington ON L7L6A4	ESE/94.2	-5.00	251
54	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197924	N/99.1	7.76	252
55	WWIS		lot 3 con 2 ON ***Well ID:*** 7382370	SSE/99.4	-6.00	255
56	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197928	N/100.0	7.33	256
57	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197927	N/100.1	7.76	259
58	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197923	N/102.1	7.76	262
59	SCT	Noram Solutions	5510 Mainway Dr Burlington ON L7L 6C4	E/103.5	-7.00	265

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
59	SCT	Noram Solutions	5510 Mainway Burlington ON L7L 6C4	E/103.5	-7.00	265
59	SCT	Barton Medical Canada Inc.	5510 Mainway Burlington ON L7L 6C4	E/103.5	-7.00	266
60	WWIS		UPPER MIDDLE RD AND BURLOAD DR Burlington ON ***Well ID:*** 7114250	N/103.9	8.00	266
61	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197930	N/104.4	6.97	269
62	CA	PALETTA INTERNATIONAL CORP.	CREEK WAY/CORPORATE DR. BURLINGTON ON	SW/105.2	-2.00	272
63	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197929	N/107.3	6.99	272
64	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197926	N/108.2	6.99	276
65	GEN	ORCHARD UPTOWN DEVELOPMENTS INC	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	WSW/109.1	2.38	279
65	HINC		2055 APPLEBY LINE BURLINGTON ON L7L 7H1	WSW/109.1	2.38	279
65	GEN	WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	WSW/109.1	2.38	280
65	GEN	WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	WSW/109.1	2.38	280
65	GEN	WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	WSW/109.1	2.38	281
65	GEN	WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	WSW/109.1	2.38	281

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
66	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197931	N/110.2	6.99	281
67	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197921	N/110.2	6.99	284
67	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197922	N/110.2	6.99	287
68	EHS		n/a Burlington ON	SE/110.3	-5.00	290
69	EHS		5360 Mainway Burlington ON L7L 6A4	ESE/110.3	-7.00	290
70	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT BURLINGTON ON ***Well ID:*** 7197925	N/111.2	6.99	291
71	WWIS		5164 UPPERMIDDLE RD lot 2 con 2 BURLINGTON ON ***Well ID:*** 7042975	WSW/113.3	3.08	294
72	WWIS		OAKVILLE,ONT lot 35 con 2 ON ***Well ID:*** 2809963	N/116.8	8.00	297
73	WWIS		NW CORNER UPPERMIDDLE ON ***Well ID:*** 7105624	N/120.2	7.00	300
74	EBR	Staveley Services Canada Inc.	1240 Burloak Drive Unit 6 Burlington, Regional Municipality of Halton CITY OF BURLINGTON ON	E/123.7	-7.00	302
74	ECA	Staveley Services Canada Inc. / Les Services Staveley Canada Inc.	1240 Burloak Drive Burlington ON L7L 6B3	E/123.7	-7.00	302
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	303

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	303
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	304
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	304
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON	E/123.7	-7.00	304
74	ECA	Staveley Services Canada Inc. / Les Services Staveley Canada Inc.	1240 Burloak Drive Burlington ON L7L 6B3	E/123.7	-7.00	305
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	305
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	306
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	306
74	GEN	ALS Laboratory Group Tribology	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	307
75	WWIS		S/W CORNER lot 5 con 2 BURLINGTON ON ***Well ID:*** 7039196	WSW/126.4	2.00	308
76	WWIS		UPPER MIDDLE RD AND BURLOAD DR ON ROAD Burlington ON ***Well ID:*** 7114255	N/128.9	6.68	310
77	EHS		5200 Mainway Burlington ON L7L 5Z1	SSE/129.0	-6.55	313

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
78	GEN	Tyco International of Canada Ltd.	1345 Heine Court Burlington ON L8L 6A7	E/129.1	-7.00	313
79	SCT	Normac Adhesive Products Inc.	1350 Heine Crt Burlington ON L7L 6M4	E/133.0	-7.00	314
79	SCT	Shaw-Almex Fusion Canada	1350 Heine Crt Burlington ON L7L 6M4	E/133.0	-7.00	314
79	GEN	NORMAC ADHESIVE PRODUCTS INC.	1350 HEINE COURT BURLINGTON ON L7L 6M4	E/133.0	-7.00	315
79	GEN	NORMAC ADHESIVE PRODUCTS INC.	1350 HEINE COURT BURLINGTON ON L7L 6M4	E/133.0	-7.00	315
79	GEN	NORMAC ADHESIVE PRODUCTS INC.	1350 HEINE COURT BURLINGTON ON L7L 6M4	E/133.0	-7.00	316
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	316
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	317
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	318
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	318
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	319
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	320
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	320

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
80	WWIS		1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415624	WSW/135.9	2.67	322
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	325
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	326
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	326
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	327
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON	WSW/136.9	3.90	327
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	328
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	328
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	329
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	330
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	331
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	332
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	333

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
82	WWIS		OLD BURLOAK DR lot 35 con 2 Burlington ON ***Well ID:*** 7331635	N/140.1	6.99	333
83	WWIS		ON ***Well ID:*** 7417282	WSW/142.4	2.88	335
84	WWIS		lot 4 con 1 ON ***Well ID:*** 2809655	W/142.9	6.25	336
85	GEN	Enbridge Pipelines Inc	2249 Old Burloak Drive Burlington ON L7L 6B3	N/143.4	6.92	337
85	GEN	Enbridge Pipelines Inc	2249 Old Burloak Drive Burlington ON L7L 6B3	N/143.4	6.92	337
85	GEN	Enbridge Pipelines Inc	2249 Old Burloak Drive Burlington ON L7L 6B3	N/143.4	6.92	338
86	CA		5330 Mainway Drive Burlington ON	ESE/146.0	-6.00	338
86	EBR	Amhil Enterprises	5330 Mainway Drive Burlington Ontario Burlington ON	ESE/146.0	-6.00	338
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z2	ESE/146.0	-6.00	339
86	SCT	Amhil Enterprises	5330 Mainway Dr Burlington ON L7L 6A4	ESE/146.0	-6.00	339
86	SCT	Wentworth Technologies Company	5330 Mainway Burlington ON L7L 5Z1	ESE/146.0	-6.00	340
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L 6A4	ESE/146.0	-6.00	340
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L 6A4	ESE/146.0	-6.00	340

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L 6A4	ESE/146.0	-6.00	341
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z2	ESE/146.0	-6.00	341
86	EHS		5330 Mainway Drive Burlington ON	ESE/146.0	-6.00	342
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON	ESE/146.0	-6.00	342
86	ECA	Amhil Enterprises	5330 Mainway Drive Burlington ON L4Z 1W7	ESE/146.0	-6.00	342
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z1	ESE/146.0	-6.00	343
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z1	ESE/146.0	-6.00	343
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z1	ESE/146.0	-6.00	343
86	GEN	Melrose Investments Inc.	5330 Mainway Burlington ON L7L 5Z1	ESE/146.0	-6.00	344
86	GEN	Amhil Enterprises Burlington	5330 Mainway Drive Burlington ON L7L5Z1	ESE/146.0	-6.00	344
86	EASR	AMHIL ENTERPRISES	5330 MAINWAY BURLINGTON ON L7L 6A4	ESE/146.0	-6.00	345
86	GEN	Amhil Enterprises Burlington	5330 Mainway Drive Burlington ON L7L5Z1	ESE/146.0	-6.00	345
86	GEN	Melrose Investments Inc.	5330 Mainway Burlington ON L7L 5Z1	ESE/146.0	-6.00	346

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
87	SCT	Global Xposure - Div. of Jimmy Tees Inc.	1816 Hobson Dr Burlington ON L7L 6L7	SW/150.2	-2.00	346
87	SCT	Global Xposure	1816 Hobson Dr Burlington ON L7L 6L7	SW/150.2	-2.00	346
88	WWIS		1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415625	WSW/150.3	2.34	347
89	WWIS		ON ***Well ID:*** 7417283	WSW/151.4	2.86	351
90	WWIS		UPPER MIDDLE RD AND BURLOAK DR ON ROAD Burlington ON ***Well ID:*** 7114256	N/151.5	6.38	351
91	WWIS		ON ***Well ID:*** 7404746	WSW/158.1	3.00	354
92	WWIS		ON ***Well ID:*** 7404747	WSW/161.3	3.00	355
93	EHS		1340 Heine Crt Burlington ON L7L6M4	E/162.4	-7.00	356
94	WWIS		ON ***Well ID:*** 7404748	WSW/163.6	3.00	356
95	WWIS		OLD BURLOAK DR lot 35 con 2 Burlington ON ***Well ID:*** 7331634	N/165.7	8.00	357
96	CA	MATTAMY HOMES LTD.	SUBD.PH.1/DEER PL/THORN LANE BURLINGTON CITY ON	NNW/167.0	8.01	359
96	CA	MATTAMY HOMES LTD.	DEER PL/THORN LANE BURLINGTON CITY ON	NNW/167.0	8.01	359
96	CA	MATTAMY HOMES LTD.	SUBD.PH.1/DEER PL/THORN LANE BURLINGTON CITY ON	NNW/167.0	8.01	359

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
97	SCT	Higginson Equipment Sales	1330 Sutton Dr Burlington ON L7L 6R6	SE/167.7	-6.00	360
97	GEN	1023976 ONTARIO LIMITED	1330 SUTTON DRIVE BURLINGTON ON L7L 6R6	SE/167.7	-6.00	360
97	EASR	BADGER DAYLIGHTING LIMITED PARTNERSHIP	1330 SUTTON DR BURLINGTON ON L7L 0J2	SE/167.7	-6.00	361
97	GEN	CPC Pumps International Inc.	1330 Sutton Drive Burlington ON L7L 6C2	SE/167.7	-6.00	361
98	WWIS		5329 John Lucas Drive lot 2 con 2 Burlington ON ***Well ID:*** 7338355	ESE/169.6	-7.00	361
99	WWIS		ON ***Well ID:*** 7404749	WSW/171.3	3.00	364
100	WWIS		5329 John Lucas Drive lot 1 con 2 Burlington ON ***Well ID:*** 7338356	ESE/171.8	-7.03	364
101	EHS		1989 Appleby Line Burlington ON L7L 6K3	WSW/172.0	3.00	367
102	GEN	Burlington City of	5011 Upper Middle Road Burlington ON	WSW/172.6	2.71	367
103	SCT	CONTROLCHAM CANADA LTD.	5275 JOHN LUCAS DR BURLINGTON ON L7L 6A8	SSE/172.8	-7.00	367
103	CHM	CONTROLCHEM CANADA LTD	5275 JOHN LUCAS DR BURLINGTON ON L7L 6A8	SSE/172.8	-7.00	368
103	SCT	ControlChem Canada Ltd.	5275 John Lucas Dr Burlington ON L7L 6A8	SSE/172.8	-7.00	368
103	GEN	CONTROLCHEM CANADA LIMITED	5275 JOHN LUCAS DRIVE BURLINGTON ON L7L 6A8	SSE/172.8	-7.00	368

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
103	CHM	CONTROLCHEM CANADA	5275 JOHN LUCAS DR BURLINGTON ON L7L 6A8	SSE/172.8	-7.00	368
103	GEN	CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	SSE/172.8	-7.00	369
103	EHS		5275 John Lucas Drive Burlington ON L7L 6A8	SSE/172.8	-7.00	369
103	SPL	ControlChem Canada Ltd.	5275 John Lucas Dr Burlington ON L7L 6A8	SSE/172.8	-7.00	369
103	GEN	CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	SSE/172.8	-7.00	370
103	GEN	CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	SSE/172.8	-7.00	370
103	GEN	CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	SSE/172.8	-7.00	371
103	CHM	CONTROLCHEM CANADA	5275 JOHN LUCAS DR BURLINGTON ON L7L6A8	SSE/172.8	-7.00	371
103	GEN	CPC Pumps International Inc.	5275 John Lucas Drive Burlington ON L7L 6A8	SSE/172.8	-7.00	371
103	NPR2	CONTROLCHEM CANADA INC.	5275 JOHN LUCAS DRIVE BURLINGTON ON L7L6A8	SSE/172.8	-7.00	372
103	NPR2	CONTROLCHEM CANADA INC.	5275 JOHN LUCAS DRIVE BURLINGTON ON L7L6A8	SSE/172.8	-7.00	380
104	WWIS		1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415622	WSW/173.5	3.00	384
105	CA		Upper Middle Road and Orchard Road Burlington ON	W/173.6	4.00	388

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
105	ECA	783880 Ontario Limited	Upper Middle Road and Orchard Road Burlington ON L8K 6K8	W/173.6	4.00	388
106	CA	R.M. OF HALTON	ORCHARD RD./UPPER MIDDLE RD. BURLINGTON CITY ON	W/173.7	4.00	388
107	RST	COMMISSO ESSO	1989 APPLEBY LINE BURLINGTON ON L7L 6K3	WSW/174.1	3.00	388
107	FSTH	VINCE COMMISSO	1989 APPLEBY LINE BURLINGTON ON L7L 6K3	WSW/174.1	3.00	389
107	RST	COMMISSO ESSO	1989 APPLEBY LINE ON L7L 6K3	WSW/174.1	3.00	389
107	FSTH	VINCE COMMISSO	1989 APPLEBY LINE BURLINGTON ON L7L 6K3	WSW/174.1	3.00	389
107	CA	Imperial Oil Limited	1989 Appleby St Burlington ON L7L 6K3	WSW/174.1	3.00	390
107	EHS		1989 Appleby Line Burlington ON L7L6K3	WSW/174.1	3.00	390
107	ECA	Imperial Oil Limited	1989 Appleby St Burlington ON M3C 1K5	WSW/174.1	3.00	390
107	GEN	Mac's Convenience Stores Inc.	1989 Appleby Line Burlington ON L7L 6K3	WSW/174.1	3.00	391
107	GEN	Mac's Convenience Stores Inc.	1989 Appleby Line Burlington ON L7L 6K3	WSW/174.1	3.00	391
107	EXP	MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	WSW/174.1	3.00	391
107	EXP	MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	WSW/174.1	3.00	392

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
107	EXP	MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	WSW/174.1	3.00	392
107	EXP	MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	WSW/174.1	3.00	392
108	WWIS		ON ***Well ID:*** 7404750	WSW/180.5	3.00	392
109	WWIS		lot 3 con 2 ON ***Well ID:*** 7382371	SE/182.6	-6.00	393
110	GEN	AMCAST INDUSTRIAL LTD.	5276 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/184.9	-7.60	394
111	SCT	CANADIAN COUNTRY CANDLES	1329 HEINE CRT BURLINGTON ON L7L 6A7	E/186.0	-6.74	394
111	SCT	Cantex Coatings Ltd.	1329 Heine Crt Burlington ON L7L 6A7	E/186.0	-6.74	395
112	WWIS		lot 3 con 2 ON ***Well ID:*** 7382361	SSE/187.9	-7.00	395
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	396
113	CA	The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	396
113	CA	The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	397
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	397
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	397

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	398
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	398
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	398
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	399
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	399
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	400
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON	SSW/193.8	-3.93	400
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON	SSW/193.8	-3.93	400
113	CFOT	REGIONAL MUNICIPALITY OF HALTON	5200 CORPORATE DR BURLINGTON ON	SSW/193.8	-3.93	401
113	ECA	The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L6M 3L1	SSW/193.8	-3.93	401
113	ECA	The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L6M 3L1	SSW/193.8	-3.93	401
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	401
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	402

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	402
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	403
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	403
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	403
113	GEN	Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	404
113	GEN	Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	404
113	GEN	Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	405
113	GEN	Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	405
113	GEN	Halton Region	5200 Corporate Drive Burlington ON L7L7G7	SSW/193.8	-3.93	405
113	GEN	Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	406
113	GEN	Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	406
113	GEN	Halton Region	5200 Corporate Drive Burlington ON L7L7G7	SSW/193.8	-3.93	407
113	GEN	Halton Region	5200 Corporate Drive Burlington ON L7L7G7	SSW/193.8	-3.93	407

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
113	GEN	Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	408
113	GEN	Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	408
114	WWIS		ON ***Well ID:*** 7404751	WSW/196.0	3.00	409
115	WWIS		5200 CORPORATE DR Burlington ON ***Well ID:*** 7180404	SSW/198.0	-4.87	410
116	WWIS		5200 CORPORATE DR Burlington ON ***Well ID:*** 7180402	SSW/198.4	-4.87	413
117	WWIS		5200 CORPORATE DR Burlington ON ***Well ID:*** 7180403	SSW/198.7	-4.95	416
118	SCT	ON LINE EMBOSSING SERVICES	1327 HEINE CRT BURLINGTON ON L7L 6A7	E/202.0	-6.20	419
118	SCT	LAYDON INDUSTRIES INC.	1327 HEINE CRT BURLINGTON ON L7L 6A7	E/202.0	-6.20	419
118	GEN	First General Services	1327 Heine Court Burlington ON L7L 6A7	E/202.0	-6.20	419
119	SCT	K.N. Crowder Mfg. Inc.	1220 Burloak Dr Burlington ON L7L 6B3	E/202.7	-7.00	420
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	420
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	421
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	421

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	421
119	SPL	Burlington Hydro	1220 Burloak Dr Burlington ON	E/202.7	-7.00	422
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	422
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON	E/202.7	-7.00	423
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	423
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	424
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	424
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	424
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	425
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	425
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	426
120	ECA	1453372 Ontario Inc.	1330 Heine Crt Burlington ON L6H 2K2	E/208.5	-7.00	426
120	EHS		1330 Heine Court Burlington ON	E/208.5	-7.00	426

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
120	SPL		1330 Heine Court, Burlington BURLINGTON ON	E/208.5	-7.00	427
121	GEN	JM Tek Ltd	1325 Heine Court Burlington ON L7L 6A7	E/211.1	-5.92	427
121	GEN	JM Tek Ltd	1325 Heine Court Burlington ON L7L 6A7	E/211.1	-5.92	428
122	SCT	Pack-N-Rail Ltd.	1295 Sutton Dr Burlington ON L7L 6C2	SE/213.3	-6.00	428
122	GEN	Pack N Rail Ltd.	1295 Sutton Drive Burlington ON L7L 6C2	SE/213.3	-6.00	428
122	SPL	Hazmat Environmental Group Ltd.<UNOFFICIAL>	1295 Sutton Drive Burlington ON L7L 6C2	SE/213.3	-6.00	429
122	GEN	Kami Metals	1295 Sutton Drive Burlington ON	SE/213.3	-6.00	429
122	EHS		1295 Sutton Drive Burlington ON L7L 6C2	SE/213.3	-6.00	430
123	WWIS		ON ***Well ID:*** 7417284	WSW/216.4	3.00	430
124	EHS		1963 Appleby Line Burlington ON L7L	WSW/217.9	3.00	431
125	CA	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON CITY ON L7L 5Z9	SSE/219.0	-8.08	431
125	SCT	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DR BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	431
125	SCT	Frost Products Ltd.	5280 John Lucas Dr Burlington ON L7L 5Z9	SSE/219.0	-8.08	432

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
125	GEN	FROST PRODUCTS LTD.	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	432
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	432
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	433
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	434
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	434
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	435
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON	SSE/219.0	-8.08	435
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	436
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	437
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	437
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	438
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	439
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	439

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	440
126	WWIS		5329 JOHN LUCAS DR. Burlington ON ***Well ID:*** 7255960	ESE/219.4	-7.00	441
127	WWIS		1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415623	WSW/223.0	3.00	443
128	GEN	Halton Standard Condominium 490	2035-2045 Applyby Line Burlington ON L7L 7G8	WSW/224.6	3.00	447
129	CA	R.M. OF HALTON	APPLEBY LINE UPPER MIDDLE RD. BURLINGTON CITY ON	WSW/224.7	3.00	447
129	CA	R.M. OF HALTON - LOTS 5 & 6, CONC. 1	APPLEBY ST./UPPER MIDDLE RD. BURLINGTON CITY ON	WSW/224.7	3.00	447
129	CA	R.M. OF HALTON	APPLEBY LINE UPPER MIDDLE RD. BURLINGTON CITY ON	WSW/224.7	3.00	448
129	CA	BURLINGTON CITY	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON ON	WSW/224.7	3.00	448
129	CA	BURLINGTON CITY	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	WSW/224.7	3.00	448
129	CA	R.M. OF HALTON	UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	WSW/224.7	3.00	449
129	CA	BURLINGTON CITY	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	WSW/224.7	3.00	449
129	CA	MATTAMY HOMES LTD.	UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	WSW/224.7	3.00	449
129	CA	MATTAMY HOMES LTD.	UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	WSW/224.7	3.00	449

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
129	CA	R.M. OF HALTON	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	WSW/224.7	3.00	450
129	EHS		Appleby Line & Upper Middle Rd Burlington ON	WSW/224.7	3.00	450
130	WWIS		lot 35 con 1 ON ***Well ID:*** 2803728	N/230.3	6.36	450
131	EHS		Burlington Burlington ON L7L 6A8	ESE/233.0	-7.00	454
132	VAR	LISA LISSON	2075 APPLEBY LINE,UNIT # 209, BURLINGTON,ON,L7L 7H3,CA ON	WSW/233.8	3.00	454
133	EHS		5335 John Lucas Drive Burlington ON L7L 6A8	ESE/234.4	-7.00	454
134	EHS		1963 Appleby Line Burlington ON	WSW/240.4	2.19	454
135	WWIS		lot 5 con 1 ON ***Well ID:*** 2809604	W/241.4	3.56	455
136	EHS		5311 John Lucas Drive Burlington ON	SE/243.1	-6.00	456
137	WWIS		lot 4 con 1 ON ***Well ID:*** 2809656	W/245.4	6.20	456
138	SPL	Burlington Hydro	1822 Imperial Way Burlington ON	SW/249.1	0.00	457
139	SCT	KONECRANES CANADA INC.	1320 Heine Crt Burlington ON L7L 6L9	E/255.4	-6.78	458
139	SCT	Provincial Konecranes Inc.	1320 Heine Crt Burlington ON L7L 6L9	E/255.4	-6.78	458

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
139	SCT	Crane Pro Parts - Div. of Konecranes	1320 Heine Crt Burlington ON L7L 6L9	E/255.4	-6.78	459
139	GEN	KONE CRANES	1320 HEINE COURT BURLINGTON ON L7L 6L9	E/255.4	-6.78	459
139	GEN	KONECRANES CANADA INC.	1320 HEINE COURT BURLINGTON ON L7L 6L9	E/255.4	-6.78	459
139	GEN	Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	E/255.4	-6.78	460
139	GEN	Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	E/255.4	-6.78	460
139	GEN	Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	E/255.4	-6.78	461
139	GEN	Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	E/255.4	-6.78	461
139	EHS		1320 Heine Crt Burlington ON L7L6L9	E/255.4	-6.78	461
139	EASR	UNIVERSAL MATTER INC.	1320 HEINE CRT BURLINGTON ON L7L 6L9	E/255.4	-6.78	462
139	EHS		1320 Heine Court Burlington ON L7L 6L9	E/255.4	-6.78	462
140	EHS		1940 Ironstone Dr Burlington ON L7L0E4	WSW/257.5	2.00	462
141	EBR	Natrix Separations Inc.	5295 John Lucas Drive Burlington Regional Municipality of Halton L7L 6A8 CITY OF BURLINGTON ON	SE/258.1	-7.00	462
141	GEN	Nysa Membrane Technologies	5295 John Lucas dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	463

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
141	CA	Natrix Separations Inc.	5295 John Lucas Dr Burlington ON L7L 6A8	SE/258.1	-7.00	463
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	464
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	464
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	465
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	466
141	EASR	MOHAWK MEDBUY CORPORATION	5295 JOHN LUCAS DR BURLINGTON ON L7L 6A8	SE/258.1	-7.00	466
141	EHS		5295 John Lucas Dr Burlington ON L7L6A8	SE/258.1	-7.00	466
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON	SE/258.1	-7.00	467
141	EHS		5295 John Lucas Dr Burlington On Burlington ON L7L6A8	SE/258.1	-7.00	467
141	ECA	Natrix Separations Inc.	5295 John Lucas Dr Burlington ON L7L 6A8	SE/258.1	-7.00	468
141	GEN	WILLARD MANUFACTURING INC.	5295 JOHN LUCAS DRIVE BURLINGTON ON L7L 6A8	SE/258.1	-7.00	468
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	468
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	469

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	470
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	471
141	GEN	Melrose investments Inc.	5295 John Lucas drive Burlington ON L7L 6AB	SE/258.1	-7.00	472
141	GEN	WILLARD MANUFACTURING INC.	5295 JOHN LUCAS DRIVE BURLINGTON ON L7L 6A8	SE/258.1	-7.00	472
141	EASR	NATRIX SEPARATIONS INC.	5295 John Lucas DR Burlington ON L7L 6A8	SE/258.1	-7.00	472
141	GEN	Mohawk Medbuy Corporation Logistics	5295 John Lucas Drive, Unit 5 Burlington ON L7L 6A8	SE/258.1	-7.00	473
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	473
141	GEN	Melrose investments Inc.	5295 John Lucas drive Burlington ON L7L 6AB	SE/258.1	-7.00	474
141	GEN	RAMPF Composite Solutions Inc.	5295 John Lucas Drive Unit 5 Burlington ON L7L 6A8	SE/258.1	-7.00	474
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	475
141	EBR	RAMPF Composite Solutions Inc.	5295 John Lucas Drive Burlington , ON Canada ON	SE/258.1	-7.00	476
141	GEN	Elite Pack Inc	5295 John Lucas Drive Unit 1 Burlington ON L7L 6A8	SE/258.1	-7.00	476
141	ECA	RAMPF Composite Solutions Inc.	5295 John Lucas Dr Burlington ON L7L 6A8	SE/258.1	-7.00	477

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
141	GEN	RAMPF Composite Solutions Inc.	5295 John Lucas Drive Unit 5 Burlington ON L7L 6A8	SE/258.1	-7.00	477
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	478
141	GEN	Rootree Inc.	5295 John Lucas Drive Unit 1 Burlington ON L7L 6A8	SE/258.1	-7.00	479
142	HINC		1769 HOBSON DRIVE BURLINGTON ON L7L 7C9	SW/259.2	-3.01	479
143	EHS		1315 Heine Court Burlington ON L7L 6A7	E/259.9	-6.01	480
144	CA	BLAST CLEANING PROCUCTS LTD.	5284 JOHN LUCAS DRIVE BURLINGTON CITY ON L7L 5Z9	SSE/265.9	-8.95	480
144	EBR	Blast Cleaning Products Limited	5284 John Lucas Drive CITY OF BURLINGTON ON	SSE/265.9	-8.95	480
144	GEN	US FILTERS/BLAST CLEANING PRODUCTS	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	481
144	GEN	BLAST CLEANING PRODUCTS	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	481
144	EHS		5284 John Lucas Dr Burlington ON L7L 5Z9	SSE/265.9	-8.95	481
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	481
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	482
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	482

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	483
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	483
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON	SSE/265.9	-8.95	484
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	484
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	485
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	485
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	486
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	486
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	487
145	EHS		5284 John Lucas Drive Burlington ON L7L 5Z9	SSE/265.9	-8.95	487
146	SCT	CARTER HOLT HARVEY ROOFING INC	1200 BURLOAK DR UNIT 3 BURLINGTON ON L7L 6B4	E/265.9	-5.97	488
146	GEN	SUMMO STEEL TUBING	1200 BURLOAK DRIVE BURLINGTON ON L7L 6B3	E/265.9	-5.97	488
146	SCT	Summo Steel Corp.	1200 Burloak Dr Burlington ON L7L 6B4	E/265.9	-5.97	488

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
146	GEN	SUMMO STEEL TUBING	1200 BURLOAK DRIVE BURLINGTON ON L7L 6B4	E/265.9	-5.97	489
146	EHS		1200 Burloak Dr Burlington ON L7L6B4	E/265.9	-5.97	489
146	EHS		1200 Burloak Dr Burlington ON L7L6B4	E/265.9	-5.97	489
147	EHS		5335 John Lucas Dr Burlington ON L7L6A8	ESE/267.2	-7.00	489
147	GEN	Yale Industrial Trucks Yale Industrial Trucks	5335 John Lucas Drive Unit #5 Burlington ON L7L 6A8	ESE/267.2	-7.00	490
147	GEN	Yale Industrial Trucks Yale Industrial Trucks	5335 John Lucas Drive Unit #5 Burlington ON L7L 6A8	ESE/267.2	-7.00	490
148	SCT	MORTIMER'S FINE FOODS	5341 JOHN LUCAS DR BURLINGTON ON L7L 6A8	ESE/270.8	-7.00	491
148	SCT	Mortimer's Fine Foods Inc.	5341 John Lucas Dr Burlington ON L7L 6A8	ESE/270.8	-7.00	491
149	SCT	Häfele Canada Inc.	5323 John Lucas Dr Burlington ON L7L 6A8	ESE/276.4	-7.00	491
150	SCT	FOSTER TECHNOLOGIES INC.	5347 JOHN LUCAS DR BURLINGTON ON L7L 6A8	ESE/276.7	-7.30	491
150	SCT	Safetran Canada Inc.	5347 John Lucas Dr Burlington ON L7L 6A8	ESE/276.7	-7.30	492
150	SCT	Gemalto Canada Inc.	5347 John Lucas Dr Burlington ON L7L 6A8	ESE/276.7	-7.30	492
151	CA	MONARCH CONSTRUCTION LTD.	2000 APPLEBY LINE, A&P STORE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	492

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
151	CA	ZELLERS INC.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	492
151	PES	ZELLERS STORE #487 - MILLCROFT CENTRE	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	493
151	PES	ZELLERS STORE #487 - MILLCROFT CENTRE	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	493
151	PES	RRG LANDSCAPING INC.	191 - 2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	494
151	PINC		2000 Appleby Line, Unit J, Burlington ON	WSW/277.0	3.00	494
151	EHS		2000 Appleby Line Burlington ON L7L 7H7	WSW/277.0	3.00	494
151	EASR	TARGET CANADA CO.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	495
151	EASR	TARGET CANADA CO.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	495
151	PES	TARGET CANADA CO. STORE# T3761	2000 APPLEBY LINE BURLINGTON ON L7L7H7	WSW/277.0	3.00	495
151	NPRI	ZELLERS	2000 APPLEBY Line BURLINGTON ON L7L6M5	WSW/277.0	3.00	496
151	GEN	Target Canada Co.	2000 APPLEBY LINE BURLINGTON ON	WSW/277.0	3.00	498
151	GEN	Target Canada Co.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	499
151	GEN	Target Canada Co.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	500

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
151	PES	ZELLERS STORE #487 - MILLCROFT CENTRE	2000 APPLEBY LINE BURLINGTON ON L7L6M5	WSW/277.0	3.00	501
151	PES	RRG LANDSCAPING INC.	191 - 2000 APPLEBY LINE BURLINGTON ON L7L7H7	WSW/277.0	3.00	501
152	SCT	L. E. Taylor Associates Ltd.	5305 John Lucas Dr Burlington ON L7L 6A8	SE/280.0	-6.87	502
152	GEN	Staveley Services Canada Inc.	5305 John Lucas Drive Burlington ON L7L 6A8	SE/280.0	-6.87	502
152	GEN	Applus RTD Canada	5305 John Lucas Drive Burlington ON	SE/280.0	-6.87	503
152	EHS		5305 John Lucas Drive, Unit 1 Burlington ON L7L 6A8	SE/280.0	-6.87	503
152	GEN	Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	SE/280.0	-6.87	503
152	GEN	Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	SE/280.0	-6.87	504
152	GEN	Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	SE/280.0	-6.87	505
152	GEN	Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	SE/280.0	-6.87	505
152	GEN	Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	SE/280.0	-6.87	506
152	GEN	Rowhedge construction Limited	5305 John luccas drive Burlington ON L7L 6A8	SE/280.0	-6.87	506
152	GEN	Rowhedge construction Limited	5305 John luccas drive Burlington ON L7L 6A8	SE/280.0	-6.87	507

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
153	INC		1819 MCCOY AVENUE, BURLINGTON ON	SW/280.6	0.00	507
154	PRT	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON L7R 3X5	E/285.9	-7.00	508
154	PRT	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON L7R3X5	E/285.9	-7.00	508
154	GEN	MINISTRY OF NATURAL RESOURCES	BRONTE CREEK PROVINCIAL PARK 1219 BURLOAK DRIVE BURLINGTON ON L7R 3X5	E/285.9	-7.00	508
154	GEN	MINISTRY OF NATURAL RESOURCES 25-085	BRONTE CREEK PROVINCIAL PARK 1219 BURLOAK DRIVE BURLINGTON ON L7R 3X5	E/285.9	-7.00	509
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	509
154	FSTH	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	510
154	FSTH	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	510
154	DTNK	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	510
154	DTNK	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	511
154	DTNK	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	512
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	E/285.9	-7.00	512

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	E/285.9	-7.00	513
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	E/285.9	-7.00	513
154	FST	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	514
154	FST	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	514
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	514
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	515
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	515
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	516
154	GEN	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	516
154	GEN	Danosh Construction	1219 Burloak Drive Oakville ON L6M 4J7	E/285.9	-7.00	517
154	GEN	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	518
154	GEN	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	518
154	GEN	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	519

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
154	EXP	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	519
154	EXP	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	520
155	EHS		1960 APPLEBY LINE BURLINGTON ON L7L 0B7	WSW/286.3	3.00	520
155	GEN	CMLHealthCare	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	520
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	521
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON	WSW/286.3	3.00	521
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON	WSW/286.3	3.00	521
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON	WSW/286.3	3.00	521
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	522
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	522
155	GEN	2183401 Ontario Inc	36-1960 Appleby Line Burlington ON L7L 0B7	WSW/286.3	3.00	522
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	523
155	GEN	2183401 Ontario Inc	36-1960 Appleby Line Burlington ON L7L 0B7	WSW/286.3	3.00	523

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	524
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L6A1	WSW/286.3	3.00	524
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	524
155	GEN	2183401 Ontario Inc	36-1960 Appleby Line Burlington ON L7L 0B7	WSW/286.3	3.00	525
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	525
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	525
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	526
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	526
155	GEN	2183401 Ontario Inc	34-1960 Appleby Line Burlington ON L7L 0B7	WSW/286.3	3.00	526
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	527
155	GEN	2183401 Ontario Inc	34-1960 Appleby Line Burlington ON L7L 0B7	WSW/286.3	3.00	527
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	528
155	GEN	Blueridge OMS	31-1960 Appleby Line BURLINGTON ON L7L 0B7	WSW/286.3	3.00	528

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
155	GEN	Blueridge OMS	31-1960 Appleby Line BURLINGTON ON L7L 0B7	WSW/286.3	3.00	528
155	GEN	2183401 Ontario Inc	34-1960 Appleby Line Burlington ON L7L 0B7	WSW/286.3	3.00	529
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	529
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	530
156	PAP	Eaton Electrical - Div. of Eaton Corp.	5050 Main Way Burlington ON L7L 5Z1	S/288.6	-8.31	530
156	SCT	Eaton Yale Corporation	5050B Mainway Burlington ON L7L 5Z1	S/288.6	-8.31	530
156	CA	Norjohn Transfer Systems Limited	5050 Mainway Burlington ON L7L 5Z1	S/288.6	-8.31	531
156	SCT	Eaton Corporation	5050 Mainway Burlington ON L7L 5Z1	S/288.6	-8.31	531
156	ECA	Norjohn Transfer Systems Limited	5050 Mainway Burlington ON L2V 3Y8	S/288.6	-8.31	531
157	GEN	ayesof professional inc.	1893 appleby line BURLINGTON ON L7L0G5	WSW/289.8	1.00	531
157	EHS		1893 Appleby Line Burlington ON L7L0G5	WSW/289.8	1.00	532
157	EHS		1893 Appleby Line Burlington ON L7L0G5	WSW/289.8	1.00	532
157	EHS		1893 Appleby Line Burlington ON L7L 6K3	WSW/289.8	1.00	532

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
158	ECA	Norjohn Business Park (East) Inc	1107 & 1109 Clay Ave Burlington ON L6H 0C3	S/290.8	-11.00	532
158	GEN	Straumann Canada Limited	1109 Clay Ave., Unit 8 Burlington ON L7L 0A1	S/290.8	-11.00	533
158	GEN	Straumann Canada Limited	1109 Clay Ave., Unit 8 Burlington ON L7L 0A1	S/290.8	-11.00	533
159	CA	MONARCH CONSTRUCTION LTD.-ROD FORTUNE	IRONSTONE DR./APPLEBY LINE BURLINGTON CITY ON	WSW/294.2	2.00	533
159	CA	MONARCH CONSTRUCTION LIMITED-ROD FORTUNE	IRONSIDE DR./APPLEBY LINE BURLINGTON CITY ON	WSW/294.2	2.00	534
160	PES	TOTAL LANDSCAPING & SUPPLY	5178 THORNBURN DR BURLINGTON ON L7L 6K9	SSW/295.1	-6.09	534
161	SPL		Appleby Line and Heron Way, Burlington ON	WSW/297.5	4.00	534

Executive Summary: Summary By Data Source

ANDR - Anderson's Waste Disposal Sites

A search of the ANDR database, dated 1860s-Present has found that there are 1 ANDR site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Trafalgar Con 1 SDS Dump	Burlington ON L7	0.0	3

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 37 CA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
MATTAMY HOMES LTD.	UPPER MIDDLE RD/DEER PLACE BURLINGTON CITY ON	25.4	17
LIMESIDE DEVELOPMENTS	SUTTON DR. MAINWAY PH. 2 BURLINGTON CITY ON	26.9	18
LIMESIDE DEVELOPMENT	MAINWAY SUTTON DR. PH. 2 BURLINGTON CITY ON	26.9	18
	Burloak Drive and Upper Middle Road Burlington ON	29.8	19
The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON	29.8	19
The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON	29.8	19
Suncor Energy Products Inc.	5600 Mainway Burlington ON L7L 6C4	59.5	26

Site	Address	Distance (m)	Map Key
ALS Canada Ltd.	5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd.	5420 Mainway Dr Burlington ON L7L 6A4	82.5	42
PALETTA INTERNATIONAL CORP.	CREEK WAY/CORPORATE DR. BURLINGTON ON	105.2	62
	5330 Mainway Drive Burlington ON	146.0	86
MATTAMY HOMES LTD.	SUBD.PH.1/DEER PL/THORN LANE BURLINGTON CITY ON	167.0	96
MATTAMY HOMES LTD.	DEER PL/THORN LANE BURLINGTON CITY ON	167.0	96
MATTAMY HOMES LTD.	SUBD.PH.1/DEER PL/THORN LANE BURLINGTON CITY ON	167.0	96
	Upper Middle Road and Orchard Road Burlington ON	173.6	105
R.M. OF HALTON	ORCHARD RD./UPPER MIDDLE RD. BURLINGTON CITY ON	173.7	106
Imperial Oil Limited	1989 Appleby St Burlington ON L7L 6K3	174.1	107
The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113

Site	Address	Distance (m)	Map Key
The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON CITY ON L7L 5Z9	219.0	125
R.M. OF HALTON	APPLEBY LINE UPPER MIDDLE RD. BURLINGTON CITY ON	224.7	129
R.M. OF HALTON - LOTS 5 & 6, CONC. 1	APPLEBY ST./UPPER MIDDLE RD. BURLINGTON CITY ON	224.7	129
R.M. OF HALTON	APPLEBY LINE UPPER MIDDLE RD. BURLINGTON CITY ON	224.7	129
BURLINGTON CITY	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON ON	224.7	129
BURLINGTON CITY	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	224.7	129
R.M. OF HALTON	UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	224.7	129
BURLINGTON CITY	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	224.7	129
MATTAMY HOMES LTD.	UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	224.7	129
MATTAMY HOMES LTD.	UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	224.7	129
R.M. OF HALTON	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	224.7	129

Site	Address	Distance (m)	Map Key
Natrix Separations Inc.	5295 John Lucas Dr Burlington ON L7L 6A8	258.1	141
BLAST CLEANING PROCUCTS LTD.	5284 JOHN LUCAS DRIVE BURLINGTON CITY ON L7L 5Z9	265.9	144
MONARCH CONSTRUCTION LTD.	2000 APPLEBY LINE, A&P STORE BURLINGTON ON L7L 7H7	277.0	151
ZELLERS INC.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
Norjohn Transfer Systems Limited	5050 Mainway Burlington ON L7L 5Z1	288.6	156
MONARCH CONSTRUCTION LTD.-ROD FORTUNE	IRONSTONE DR./APPLEBY LINE BURLINGTON CITY ON	294.2	159
MONARCH CONSTRUCTION LIMITED-ROD FORTUNE	IRONSIDE DR./APPLEBY LINE BURLINGTON CITY ON	294.2	159

CFOT - Commercial Fuel Oil Tanks

A search of the CFOT database, dated Oct 2023 has found that there are 1 CFOT site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
REGIONAL MUNICIPALITY OF HALTON	5200 CORPORATE DR BURLINGTON ON	193.8	113

CHM - Chemical Register

A search of the CHM database, dated 1999-Apr 30, 2024 has found that there are 6 CHM site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
BIOSHOP CANADA INC	5480 MAINWAY BURLINGTON ON L7L6A4	68.1	32
BIOSHOP CANADA INC	5480 MAINWAY BURLINGTON ON L7L6A4	68.1	32
BIOSHOP CANADA INC	5480 MAINWAY BURLINGTON ON L7L6A4	68.1	32
CONTROLCHEM CANADA	5275 JOHN LUCAS DR BURLINGTON ON L7L6A8	172.8	103
CONTROLCHEM CANADA	5275 JOHN LUCAS DR BURLINGTON ON L7L 6A8	172.8	103
CONTROLCHEM CANADA LTD	5275 JOHN LUCAS DR BURLINGTON ON L7L 6A8	172.8	103

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated Oct 2023 has found that there are 4 DTNK site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	5600 MAINWAY BURLINGTON ON L7L 6C4	59.5	26
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154

Site	Address	Distance (m)	Map Key

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011-Jun 30, 2024 has found that there are 8 EASR site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
WENTWORTH TECH INC.	5150 MAINWAY BURLINGTON ON L7L 5Z1	86.0	47
AMHIL ENTERPRISES	5330 MAINWAY BURLINGTON ON L7L 6A4	146.0	86
BADGER DAYLIGHTING LIMITED PARTNERSHIP	1330 SUTTON DR BURLINGTON ON L7L 0J2	167.7	97
UNIVERSAL MATTER INC.	1320 HEINE CRT BURLINGTON ON L7L 6L9	255.4	139
NATRIX SEPARATIONS INC.	5295 John Lucas DR Burlington ON L7L 6A8	258.1	141
MOHAWK MEDBUY CORPORATION	5295 JOHN LUCAS DR BURLINGTON ON L7L 6A8	258.1	141
TARGET CANADA CO.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
TARGET CANADA CO.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151

EBR - Environmental Registry

A search of the EBR database, dated 1994 - Jun 30, 2024 has found that there are 7 EBR site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ALS Canada Ltd.	5420 Mainway Drive Unit Unit 5 & 6 Burlington, Regional Municipality of Halton L7L 6A4 CITY OF BURLINGTON ON	82.5	42
ALS Canada Ltd.	5420 Mainway Drive, Unit 5 & 6 Burlington Ontario L7L 6A4 Burlington ON	82.5	42
Staveley Services Canada Inc.	1240 Burloak Drive Unit 6 Burlington, Regional Municipality of Halton CITY OF BURLINGTON ON	123.7	74
Amhil Enterprises	5330 Mainway Drive Burlington Ontario Burlington ON	146.0	86
RAMPF Composite Solutions Inc.	5295 John Lucas Drive Burlington , ON Canada ON	258.1	141
Natrix Separations Inc.	5295 John Lucas Drive Burlington Regional Municipality of Halton L7L 6A8 CITY OF BURLINGTON ON	258.1	141
Blast Cleaning Products Limited	5284 John Lucas Drive CITY OF BURLINGTON ON	265.9	144

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Jun 30, 2024 has found that there are 23 ECA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Jannock Properties Limited	North Service Road Burlington ON L5L 4M1	10.3	13
The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON L6M 3L1	29.8	19

Site	Address	Distance (m)	Map Key
Her Majesty the Queen in Right of Ontario as represented by the Minister of	Natural Resources Burloak Drive and Upper Middle Rd Burlington ON L7R 3X5	29.8	19
The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON L6M 3L1	29.8	19
Her Majesty the Queen in Right of Ontario as represented by the Minister of	Natural Resources Burloak Drive and Upper Middle Rd Burlington ON L6M 4J7	29.8	19
RRL Burloak Inc.	1477 Burloak Dr to 1519 Buloak Dr (Regional Road #21) Oakville ON L6J 7W5	49.5	25
Suncor Energy Products Inc.	5600 Mainway Burlington ON M2P 2C5	59.5	26
Suncor Energy Products Inc.	Burlington ON M2P 2C5	70.7	35
Upper Middle Road Enclave Inc., Seveil Incorporated Canada, and Azaran	International Trading Ltd., for and on behalf of Upper Middle Road Enclave Limited Partnership 5219 Upper Middle Road 2004 and 2005 Georgina Court Burlington ON L4B 1G2	81.0	40
ALS Canada Ltd.	5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd.	5420 Mainway Dr Burlington ON L7L 6A4	82.5	42
Staveley Services Canada Inc. / Les Services Staveley Canada Inc.	1240 Burloak Drive Burlington ON L7L 6B3	123.7	74
Staveley Services Canada Inc. / Les Services Staveley Canada Inc.	1240 Burloak Drive Burlington ON L7L 6B3	123.7	74

Site	Address	Distance (m)	Map Key
Amhil Enterprises	5330 Mainway Drive Burlington ON L4Z 1W7	146.0	86
783880 Ontario Limited	Upper Middle Road and Orchard Road Burlington ON L8K 6K8	173.6	105
Imperial Oil Limited	1989 Appleby St Burlington ON M3C 1K5	174.1	107
The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L6M 3L1	193.8	113
The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L6M 3L1	193.8	113
1453372 Ontario Inc.	1330 Heine Crt Burlington ON L6H 2K2	208.5	120
Natrix Separations Inc.	5295 John Lucas Dr Burlington ON L7L 6A8	258.1	141
RAMPF Composite Solutions Inc.	5295 John Lucas Dr Burlington ON L7L 6A8	258.1	141
Norjohn Transfer Systems Limited	5050 Mainway Burlington ON L2V 3Y8	288.6	156
Norjohn Business Park (East) Inc	1107 & 1109 Clay Ave Burlington ON L6H 0C3	290.8	158

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Mar 31, 2024 has found that there are 45 EHS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	5164, 5366, 5470 and 5900 Upper Middle Road and 5201 Mainway Burlington ON	0.0	1
	Upper Middle Road Burlington ON	0.0	12
	Mainway Burlington ON L7L 6C4	60.5	27
	5470 Upper Middle Road Burlington ON	62.0	28
	5450 Mainway Burlington ON L7L6A4	65.1	30
	5480 Mainway Burlington ON L7L 6A4	68.1	32
	Mainway and Burloak Burlington ON	76.7	36
	Burloak Drive & Mainway Oakville ON	76.7	36
	5570 and 5600 Mainway and 1240 Burloak Dr Burlington ON	79.6	37
	5219 Uppre Middle Road Burlington ON	81.0	39
	5200 Mainway Drive Burlington ON	87.2	48
	5250 Mainway Burlington ON L7L 5Z1	91.2	50

Site	Address	Distance (m)	Map Key
	n/a Burlington ON	110.3	68
	5360 Mainway Burlington ON L7L 6A4	110.3	69
	5200 Mainway Burlington ON L7L 5Z1	129.0	77
	5330 Mainway Drive Burlington ON	146.0	86
	1340 Heine Crt Burlington ON L7L6M4	162.4	93
	1989 Appleby Line Burlington ON L7L 6K3	172.0	101
	5275 John Lucas Drive Burlington ON L7L 6A8	172.8	103
	1989 Appleby Line Burlington ON L7L6K3	174.1	107
	1330 Heine Court Burlington ON	208.5	120
	1295 Sutton Drive Burlington ON L7L 6C2	213.3	122
	1963 Appleby Line Burlington ON L7L	217.9	124

Site	Address	Distance (m)	Map Key
	Appleby Line & Upper Middle Rd Burlington ON	224.7	129
	Burlington Burlington ON L7L 6A8	233.0	131
	5335 John Lucas Drive Burlington ON L7L 6A8	234.4	133
	1963 Appleby Line Burlington ON	240.4	134
	5311 John Lucas Drive Burlington ON	243.1	136
	1320 Heine Court Burlington ON L7L 6L9	255.4	139
	1320 Heine Crt Burlington ON L7L6L9	255.4	139
	1940 Ironstone Dr Burlington ON L7L0E4	257.5	140
	5295 John Lucas Dr Burlington ON L7L6A8	258.1	141
	5295 John Lucas Dr Burlington On Burlington ON L7L6A8	258.1	141
	1315 Heine Court Burlington ON L7L 6A7	259.9	143
	5284 John Lucas Dr Burlington ON L7L 5Z9	265.9	144

Site	Address	Distance (m)	Map Key
	5284 John Lucas Drive Burlington ON L7L 5Z9	265.9	145
	1200 Burloak Dr Burlington ON L7L6B4	265.9	146
	1200 Burloak Dr Burlington ON L7L6B4	265.9	146
	5335 John Lucas Dr Burlington ON L7L6A8	267.2	147
	2000 Appleby Line Burlington ON L7L 7H7	277.0	151
	5305 John Lucas Drive, Unit 1 Burlington ON L7L 6A8	280.0	152
	1960 APPLEBY LINE BURLINGTON ON L7L 0B7	286.3	155
	1893 Appleby Line Burlington ON L7L0G5	289.8	157
	1893 Appleby Line Burlington ON L7L0G5	289.8	157
	1893 Appleby Line Burlington ON L7L 6K3	289.8	157

EXP - List of Expired Fuels Safety Facilities

A search of the EXP database, dated Oct 2023 has found that there are 6 EXP site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	174.1	107
MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	174.1	107
MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	174.1	107
MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	174.1	107
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154

FST - Fuel Storage Tank

A search of the FST database, dated Oct 2023 has found that there are 10 FST site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26

Site	Address	Distance (m)	Map Key
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 6 FSTH site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
1704271 ONTARIO INC O/A GAS STN	5600 MAINWAY BURLINGTON ON L7L 6C4	59.5	26
SUNCOR ENERGY PRODUCTS INC**	5600 MAINWAY BURLINGTON ON L7L 6C4	59.5	26
VINCE COMMISSO	1989 APPLEBY LINE BURLINGTON ON L7L 6K3	174.1	107

Site	Address	Distance (m)	Map Key
VINCE COMMISSO	1989 APPLEBY LINE BURLINGTON ON L7L 6K3	174.1	107
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Oct 31, 2022 has found that there are 317 GEN site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26

Site	Address	Distance (m)	Map Key
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Hearthland	5450 Mainway Drive Burlington ON L7L 6A4	65.1	30
Hearthland	5450 Mainway Drive Burlington ON L7L 6A4	65.1	30
Hearthland	5450 Mainway Drive Burlington ON L7L 6A4	65.1	30
Infinity Group Construction	5450 Mainway Dr. Burlington ON L7L 6A4	65.1	30
Infinity Group Construction	5450 Mainway Dr. Burlington ON L7L 6A4	65.1	30
Infinity Group Construction	5450 Mainway Dr. Burlington ON L7L 6A4	65.1	30
ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	82.5	42

Site	Address	Distance (m)	Map Key
ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON	82.5	42
ALS Canada Ltd	5420 Mainway Unit #1 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd	5420 Mainway Unit #1 Burlington ON L7L 6A4	82.5	42
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	86.0	47

Site	Address	Distance (m)	Map Key
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	86.0	47
Irco Automation Inc. Irco Automation Inc.	5150 Mainway, Unit #2 Burlington ON L7L 5Z1	86.0	47
Irco Automation Inc. Irco Automation Inc.	5150 Mainway, Unit #2 Burlington ON L7L 5Z1	86.0	47
Irco Automation Inc. Irco Automation Inc.	5150 Mainway, Unit #2 Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON	86.0	47
Ductmate Canada Limited	1-5150 Mainway Burlington ON	86.0	47
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON	86.0	47

Site	Address	Distance (m)	Map Key
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	86.0	47
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
Melrose Investments Inc	5200 Mainway Drive Burlington ON	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON	87.2	48
Melrose Investments Inc	5200 Mainway Drive Burlington ON	87.2	48

Site	Address	Distance (m)	Map Key
Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	87.2	48
Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48

Site	Address	Distance (m)	Map Key
Deloitte & Touche Inc.	5540 Mainway Burlington ON L7L 6C4	90.2	49
Invitrogen Canada	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Invitrogen Canada	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Invitrogen Canada	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Life Technologies Inc	5250 Mainway Burlington ON	91.2	50
Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Melrose Investments Inc.	5250 Mainway Drive Burlington ON L7L 5Z1	91.2	50

Site	Address	Distance (m)	Map Key
Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Melrose Investments Inc.	5250 Mainway Drive Burlington ON L7L 5Z1	91.2	50
Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Konecranes Canada Inc.	5300 Mainway Burlington ON L7L6A4	94.2	53
Konecranes Canada Inc.	5300 Mainway Burlington ON L7L6A4	94.2	53
Konecranes Canada Inc.	5300 Mainway Burlington ON L7L6A4	94.2	53
Melrose Investments Inc.	5300 Mainway Burlington ON L7L 5Z1	94.2	53
Konecranes Canada Inc. Burlington	5300 Mainway Burlington ON L7L6A4	94.2	53
Melrose Investments Inc.	5300 Mainway Burlington ON L7L 5Z1	94.2	53
Konecranes Canada Inc. Burlington	5300 Mainway Burlington ON L7L6A4	94.2	53

Site	Address	Distance (m)	Map Key
Konecranes Canada Inc. Burlington	5300 Mainway Burlington ON L7L6A4	94.2	53
ORCHARD UPTOWN DEVELOPMENTS INC	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	109.1	65
WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	109.1	65
WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	109.1	65
WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	109.1	65
WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	109.1	65
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON	123.7	74

Site	Address	Distance (m)	Map Key
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group Tribology	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
Tyco International of Canada Ltd.	1345 Heine Court Burlington ON L8L 6A7	129.1	78
NORMAC ADHESIVE PRODUCTS INC.	1350 HEINE COURT BURLINGTON ON L7L 6M4	133.0	79
NORMAC ADHESIVE PRODUCTS INC.	1350 HEINE COURT BURLINGTON ON L7L 6M4	133.0	79
NORMAC ADHESIVE PRODUCTS INC.	1350 HEINE COURT BURLINGTON ON L7L 6M4	133.0	79
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79

Site	Address	Distance (m)	Map Key
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81

Site	Address	Distance (m)	Map Key
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Enbridge Pipelines Inc	2249 Old Burloak Drive Burlington ON L7L 6B3	143.4	85
Enbridge Pipelines Inc	2249 Old Burloak Drive Burlington ON L7L 6B3	143.4	85
Enbridge Pipelines Inc	2249 Old Burloak Drive Burlington ON L7L 6B3	143.4	85
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z2	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L 6A4	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L 6A4	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L 6A4	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z2	146.0	86

Site	Address	Distance (m)	Map Key
Amhil Enterprises	5330 Mainway Drive Burlington ON	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z1	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z1	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z1	146.0	86
Melrose Investments Inc.	5330 Mainway Burlington ON L7L 5Z1	146.0	86
Amhil Enterprises Burlington	5330 Mainway Drive Burlington ON L7L5Z1	146.0	86
Amhil Enterprises Burlington	5330 Mainway Drive Burlington ON L7L5Z1	146.0	86
Melrose Investments Inc.	5330 Mainway Burlington ON L7L 5Z1	146.0	86
1023976 ONTARIO LIMITED	1330 SUTTON DRIVE BURLINGTON ON L7L 6R6	167.7	97
CPC Pumps International Inc.	1330 Sutton Drive Burlington ON L7L 6C2	167.7	97
Burlington City of	5011 Upper Middle Road Burlington ON	172.6	102

Site	Address	Distance (m)	Map Key
CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	172.8	103
CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	172.8	103
CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	172.8	103
CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	172.8	103
CPC Pumps International Inc.	5275 John Lucas Drive Burlington ON L7L 6A8	172.8	103
CONTROLCHEM CANADA LIMITED	5275 JOHN LUCAS DRIVE BURLINGTON ON L7L 6A8	172.8	103
Mac's Convenience Stores Inc.	1989 Appleby Line Burlington ON L7L 6K3	174.1	107
Mac's Convenience Stores Inc.	1989 Appleby Line Burlington ON L7L 6K3	174.1	107
AMCAST INDUSTRIAL LTD.	5276 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	184.9	110
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113

Site	Address	Distance (m)	Map Key
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113

Site	Address	Distance (m)	Map Key
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Halton Region	5200 Corporate Drive Burlington ON L7L7G7	193.8	113
Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Halton Region	5200 Corporate Drive Burlington ON L7L7G7	193.8	113
Halton Region	5200 Corporate Drive Burlington ON L7L7G7	193.8	113

Site	Address	Distance (m)	Map Key
Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
First General Services	1327 Heine Court Burlington ON L7L 6A7	202.0	118
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119

Site	Address	Distance (m)	Map Key
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
JM Tek Ltd	1325 Heine Court Burlington ON L7L 6A7	211.1	121
JM Tek Ltd	1325 Heine Court Burlington ON L7L 6A7	211.1	121
Pack N Rail Ltd.	1295 Sutton Drive Burlington ON L7L 6C2	213.3	122
Kami Metals	1295 Sutton Drive Burlington ON	213.3	122
FROST PRODUCTS LTD.	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125

Site	Address	Distance (m)	Map Key
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125

Site	Address	Distance (m)	Map Key
Halton Standard Condominium 490	2035-2045 Applyby Line Burlington ON L7L 7G8	224.6	128
KONE CRANES	1320 HEINE COURT BURLINGTON ON L7L 6L9	255.4	139
KONECRANES CANADA INC.	1320 HEINE COURT BURLINGTON ON L7L 6L9	255.4	139
Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	255.4	139
Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	255.4	139
Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	255.4	139
Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	255.4	139
Nysa Membrane Technologies	5295 John Lucas dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141

Site	Address	Distance (m)	Map Key
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON	258.1	141
WILLARD MANUFACTURING INC.	5295 JOHN LUCAS DRIVE BURLINGTON ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Melrose investments Inc.	5295 John Lucas drive Burlington ON L7L 6AB	258.1	141
WILLARD MANUFACTURING INC.	5295 JOHN LUCAS DRIVE BURLINGTON ON L7L 6A8	258.1	141
Mohawk Medbuy Corporation Logistics	5295 John Lucas Drive, Unit 5 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Melrose investments Inc.	5295 John Lucas drive Burlington ON L7L 6AB	258.1	141

Site	Address	Distance (m)	Map Key
RAMPF Composite Solutions Inc.	5295 John Lucas Drive Unit 5 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Elite Pack Inc	5295 John Lucas Drive Unit 1 Burlington ON L7L 6A8	258.1	141
RAMPF Composite Solutions Inc.	5295 John Lucas Drive Unit 5 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Rootree Inc.	5295 John Lucas Drive Unit 1 Burlington ON L7L 6A8	258.1	141
US FILTERS/BLAST CLEANING PRODUCTS	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
BLAST CLEANING PRODUCTS	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144

Site	Address	Distance (m)	Map Key
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
SUMMO STEEL TUBING	1200 BURLOAK DRIVE BURLINGTON ON L7L 6B3	265.9	146
SUMMO STEEL TUBING	1200 BURLOAK DRIVE BURLINGTON ON L7L 6B4	265.9	146
Yale Industrial Trucks Yale Industrial Trucks	5335 John Lucas Drive Unit #5 Burlington ON L7L 6A8	267.2	147

Site	Address	Distance (m)	Map Key
Yale Industrial Trucks Yale Industrial Trucks	5335 John Lucas Drive Unit #5 Burlington ON L7L 6A8	267.2	147
Target Canada Co.	2000 APPLEBY LINE BURLINGTON ON	277.0	151
Target Canada Co.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
Target Canada Co.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
Staveley Services Canada Inc.	5305 John Lucas Drive Burlington ON L7L 6A8	280.0	152
Applus RTD Canada	5305 John Lucas Drive Burlington ON	280.0	152
Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	280.0	152
Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	280.0	152
Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	280.0	152
Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	280.0	152
Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	280.0	152
Rowhedge construction Limited	5305 John luccas drive Burlington ON L7L 6A8	280.0	152

Site	Address	Distance (m)	Map Key
Rowhedge construction Limited	5305 John luccas drive Burlington ON L7L 6A8	280.0	152
MINISTRY OF NATURAL RESOURCES 25-085	BRONTE CREEK PROVINCIAL PARK 1219 BURLOAK DRIVE BURLINGTON ON L7R 3X5	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	BRONTE CREEK PROVINCIAL PARK 1219 BURLOAK DRIVE BURLINGTON ON L7R 3X5	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154

Site	Address	Distance (m)	Map Key
MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
Danosh Construction	1219 Burloak Drive Oakville ON L6M 4J7	285.9	154
MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
CMLHealthCare	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155

Site	Address	Distance (m)	Map Key
2183401 Ontario Inc	36-1960 Appleby Line Burlington ON L7L 0B7	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155
2183401 Ontario Inc	36-1960 Appleby Line Burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L6A1	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155
2183401 Ontario Inc	36-1960 Appleby Line Burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155

Site	Address	Distance (m)	Map Key
2183401 Ontario Inc	34-1960 Appleby Line Burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
2183401 Ontario Inc	34-1960 Appleby Line Burlington ON L7L 0B7	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155
Blueridge OMS	31-1960 Appleby Line BURLINGTON ON L7L 0B7	286.3	155
Blueridge OMS	31-1960 Appleby Line BURLINGTON ON L7L 0B7	286.3	155
2183401 Ontario Inc	34-1960 Appleby Line Burlington ON L7L 0B7	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
ayesof professional inc.	1893 appleby line BURLINGTON ON L7L0G5	289.8	157
Straumann Canada Limited	1109 Clay Ave., Unit 8 Burlington ON L7L 0A1	290.8	158
Straumann Canada Limited	1109 Clay Ave., Unit 8 Burlington ON L7L 0A1	290.8	158

Site	Address	Distance (m)	Map Key

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 2 HINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	109.1	65
	1769 HOBSON DRIVE BURLINGTON ON L7L 7C9	259.2	142

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated 31 Oct, 2023 has found that there are 1 INC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	1819 MCCOY AVENUE, BURLINGTON ON	280.6	153

NPR2 - National Pollutant Release Inventory 1993-2020

A search of the NPR2 database, dated Sep 2020 has found that there are 2 NPR2 site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
CONTROLCHEM CANADA INC.	5275 JOHN LUCAS DRIVE BURLINGTON ON L7L6A8	172.8	103
CONTROLCHEM CANADA INC.	5275 JOHN LUCAS DRIVE BURLINGTON ON L7L6A8	172.8	103

NPRI - National Pollutant Release Inventory - Historic

A search of the NPRI database, dated 1993-May 2017 has found that there are 1 NPRI site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ZELLERS	2000 APPLEBY Line BURLINGTON ON L7L6M5	277.0	151

PAP - Canadian Pulp and Paper

A search of the PAP database, dated 1999, 2002, 2004, 2005, 2009-2014 has found that there are 1 PAP site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Eaton Electrical - Div. of Eaton Corp.	5050 Main Way Burlington ON L7L 5Z1	288.6	156

PES - Pesticide Register

A search of the PES database, dated Oct 2011-Jun 30, 2024 has found that there are 7 PES site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ZELLERS STORE #487 - MILLCROFT CENTRE	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
RRG LANDSCAPING INC.	191 - 2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
TARGET CANADA CO. STORE# T3761	2000 APPLEBY LINE BURLINGTON ON L7L7H7	277.0	151
RRG LANDSCAPING INC.	191 - 2000 APPLEBY LINE BURLINGTON ON L7L7H7	277.0	151
ZELLERS STORE #487 - MILLCROFT CENTRE	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
ZELLERS STORE #487 - MILLCROFT CENTRE	2000 APPLEBY LINE BURLINGTON ON L7L6M5	277.0	151

Site	Address	Distance (m)	Map Key
TOTAL LANDSCAPING & SUPPLY	5178 THORNBURN DR BURLINGTON ON L7L 6K9	295.1	160

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2021 has found that there are 1 PINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	2000 Appleby Line, Unit J, Burlington ON	277.0	151

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 2 PRT site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON L7R3X5	285.9	154
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON L7R 3X5	285.9	154

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Apr 30, 2024 has found that there are 2 RST site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
COMMISSO ESSO	1989 APPLEBY LINE ON L7L 6K3	174.1	107
COMMISSO ESSO	1989 APPLEBY LINE BURLINGTON ON L7L 6K3	174.1	107

Site	Address	Distance (m)	Map Key

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 47 SCT site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Hearthland Fireplaces Limited	5450 Mainway Burlington ON L7L 6A4	65.1	30
FLOMETRICO LTD.	5480 MAINWAY DR BURLINGTON ON L7L 6A4	68.1	32
Flometrico Ltd.	5480 Mainway Burlington ON L7L 6A4	68.1	32
Peerless Pump Canada Inc.	5480 Mainway Burlington ON L7L 6A4	68.1	32
VE-GO Engineering Inc.	5420 Mainway Unit 3 Burlington ON L7L 6A4	82.5	42
M&H Probing Systems Ltd.	5420 Mainway Unit 2D Burlington ON L7L 6A4	82.5	42
MCorp Technologies, Inc.	5150 Mainway Unit 2 Burlington ON L7L 5Z1	86.0	47
MTI Preforms Limited	5150 Mainway Unit 2 Burlington ON L7L 5Z1	86.0	47
CPC Pumps International Ltd.	5200 Mainway Burlington ON L7L 5Z1	87.2	48

Site	Address	Distance (m)	Map Key
DIE-X-LIMITED	5540 MAINWAY DR BURLINGTON ON L7L 6C4	90.2	49
AUTOMATED FLUID POWER	5540 Mainway Dr Unit 1-2 Burlington ON L7L 6C4	90.2	49
Automated Fluid Power & Control Inc.	5540 Mainway Dr Unit 1-2 Burlington ON L7L 6C4	90.2	49
Automated Fluid Power	5540 Mainway Burlington ON L7L 6C4	90.2	49
Noram Solutions	5510 Mainway Dr Burlington ON L7L 6C4	103.5	59
Noram Solutions	5510 Mainway Burlington ON L7L 6C4	103.5	59
Barton Medical Canada Inc.	5510 Mainway Burlington ON L7L 6C4	103.5	59
Normac Adhesive Products Inc.	1350 Heine Crt Burlington ON L7L 6M4	133.0	79
Shaw-Almex Fusion Canada	1350 Heine Crt Burlington ON L7L 6M4	133.0	79
Amhil Enterprises	5330 Mainway Dr Burlington ON L7L 6A4	146.0	86
Wentworth Technologies Company	5330 Mainway Burlington ON L7L 5Z1	146.0	86
Global Xposure - Div. of Jimmy Tees Inc.	1816 Hobson Dr Burlington ON L7L 6L7	150.2	87

Site	Address	Distance (m)	Map Key
Global Xposure	1816 Hobson Dr Burlington ON L7L 6L7	150.2	87
Higginson Equipment Sales	1330 Sutton Dr Burlington ON L7L 6R6	167.7	97
ControlChem Canada Ltd.	5275 John Lucas Dr Burlington ON L7L 6A8	172.8	103
CONTROLCHAM CANADA LTD.	5275 JOHN LUCAS DR BURLINGTON ON L7L 6A8	172.8	103
CANADIAN COUNTRY CANDLES	1329 HEINE CRT BURLINGTON ON L7L 6A7	186.0	111
Cantex Coatings Ltd.	1329 Heine Crt Burlington ON L7L 6A7	186.0	111
ON LINE EMBOSSING SERVICES	1327 HEINE CRT BURLINGTON ON L7L 6A7	202.0	118
LAYDON INDUSTRIES INC.	1327 HEINE CRT BURLINGTON ON L7L 6A7	202.0	118
K.N. Crowder Mfg. Inc.	1220 Burloak Dr Burlington ON L7L 6B3	202.7	119
Pack-N-Rail Ltd.	1295 Sutton Dr Burlington ON L7L 6C2	213.3	122
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DR BURLINGTON ON L7L 5Z9	219.0	125

Site	Address	Distance (m)	Map Key
Frost Products Ltd.	5280 John Lucas Dr Burlington ON L7L 5Z9	219.0	125
KONECRANES CANADA INC.	1320 Heine Crt Burlington ON L7L 6L9	255.4	139
Provincial Konecranes Inc.	1320 Heine Crt Burlington ON L7L 6L9	255.4	139
Crane Pro Parts - Div. of Konecranes	1320 Heine Crt Burlington ON L7L 6L9	255.4	139
Summo Steel Corp.	1200 Burloak Dr Burlington ON L7L 6B4	265.9	146
CARTER HOLT HARVEY ROOFING INC	1200 BURLOAK DR UNIT 3 BURLINGTON ON L7L 6B4	265.9	146
Mortimer's Fine Foods Inc.	5341 John Lucas Dr Burlington ON L7L 6A8	270.8	148
MORTIMER'S FINE FOODS	5341 JOHN LUCAS DR BURLINGTON ON L7L 6A8	270.8	148
Häfele Canada Inc.	5323 John Lucas Dr Burlington ON L7L 6A8	276.4	149
Gemalto Canada Inc.	5347 John Lucas Dr Burlington ON L7L 6A8	276.7	150
Safetran Canada Inc.	5347 John Lucas Dr Burlington ON L7L 6A8	276.7	150
FOSTER TECHNOLOGIES INC.	5347 JOHN LUCAS DR BURLINGTON ON L7L 6A8	276.7	150

Site	Address	Distance (m)	Map Key
L. E. Taylor Associates Ltd.	5305 John Lucas Dr Burlington ON L7L 6A8	280.0	152
Eaton Corporation	5050 Mainway Burlington ON L7L 5Z1	288.6	156
Eaton Yale Corporation	5050B Mainway Burlington ON L7L 5Z1	288.6	156

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jan 2023; see description has found that there are 10 SPL site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Enbridge Pipelines Inc.	corner of Upper Middle and Burloak Dr Oakville ON	29.8	19
ENBRIDGE PIPELINES INC.	LOT#35, CONCESSION #2\UPPER MIDDLE RD & BURLOAK RD PIPELINE/COMPRESSOR STATION OAKVILLE TOWN ON	29.8	19
BURLINGTON HYDRO-ELECTRIC COMM	5119 FALCONCREST RD UPPER MIDDLE RD & APPLEBY LINE TRANSFORMER BURLINGTON CITY ON L7L 6K3	63.3	29
	5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	82.5	42
ControlChem Canada Ltd.	5275 John Lucas Dr Burlington ON L7L 6A8	172.8	103
Burlington Hydro	1220 Burloak Dr Burlington ON	202.7	119

Site	Address	Distance (m)	Map Key
	1330 Heine Court, Burlington BURLINGTON ON	208.5	120
Hazmat Environmental Group Ltd. <UNOFFICIAL>	1295 Sutton Drive Burlington ON L7L 6C2	213.3	122
Burlington Hydro	1822 Imperial Way Burlington ON	249.1	138
	Appleby Line and Heron Way, Burlington ON	297.5	161

VAR - Variances for Abandonment of Underground Storage Tanks

A search of the VAR database, dated Feb 28, 2022 has found that there are 1 VAR site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
LISA LISSON	2075 APPLEBY LINE,UNIT # 209, BURLINGTON,ON,L7L 7H3,CA ON	233.8	132

WDS - Waste Disposal Sites - MOE CA Inventory

A search of the WDS database, dated Oct 2011-Jun 30, 2024 has found that there are 1 WDS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Walker Environmental Group Inc.	5030 Mainway Burlington ON L7L 5Z1	85.0	46

WDSH - Waste Disposal Sites - MOE 1991 Historical Approval Inventory

A search of the WDSH database, dated Up to Oct 1990* has found that there are 1 WDSH site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	1 2 BURLINGTON ON	0.0	2

WWIS - Water Well Information System

A search of the WWIS database, dated Dec 31 2023 has found that there are 72 WWIS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	SOUTHWEST BURLOAK AND UPPER MIDDLE Burlington ON ***Well ID:*** 7114329	0.0	4
	SOUTHWEST BURLOAK & UPPERMIDDLE Burlington ON ***Well ID:*** 7114254	0.0	5
	SOUTHWEST BURLOAK Burlington ON ***Well ID:*** 7114249	0.0	6
	SOUTH WEST &V UPPER MIDDLE BURLINGTON ON ***Well ID:*** 7114257	0.0	7
	lot 1 con 2 ON ***Well ID:*** 2800246	0.0	8
	SOUTH WEST BULOAK & UPPER MIDDLE BURLINGTON ON ***Well ID:*** 7114258	0.0	9
	SOTHWEST UPPERVEDDLE PURCELL Burlington ON ***Well ID:*** 7114252	0.0	10
	SOUTHWEST UPPERMIDDLE BURLOAK Burlington ON ***Well ID:*** 7114253	0.0	11
	5516 JOHN L DRIVE lot 2 con 2 BURLINGTON ON	10.9	14

Site	Address	Distance (m)	Map Key
	Well ID: 2809887		
	UPPER MIDDLE ROAD & APPLEBY Burlington ON ***Well ID:*** 7253139	17.2	15
	5164 UPPER MIDDLE RD lot 3-4 Burlington ON ***Well ID:*** 7100721	22.2	16
	163M SOUTH OF BRONTE PROVINCIAL PARK OAKVILLE ON ***Well ID:*** 7267355	37.5	20
	162M SOUTH OF BRONTE PROVINCIAL PARK OAKVILLE ON ***Well ID:*** 7267356	37.6	21
	lot 1 con 2 ON ***Well ID:*** 2805095	38.2	22
	ON ***Well ID:*** 7262592	45.7	23
	NW CORNER UPPER MIDDLE ON ***Well ID:*** 7105627	47.9	24
	lot 35 con 2 ON ***Well ID:*** 2802409	67.9	31
	5600, 5570 MAUCUAY & BULEK (1240) BURLINGTON ON ***Well ID:*** 2810452	68.2	33
	NW CORNER OF BURLOAK & UPPERMIDDLE Burlington ON ***Well ID:*** 7105625	69.0	34
	lot 35 con 2 ON ***Well ID:*** 2802406	80.6	38

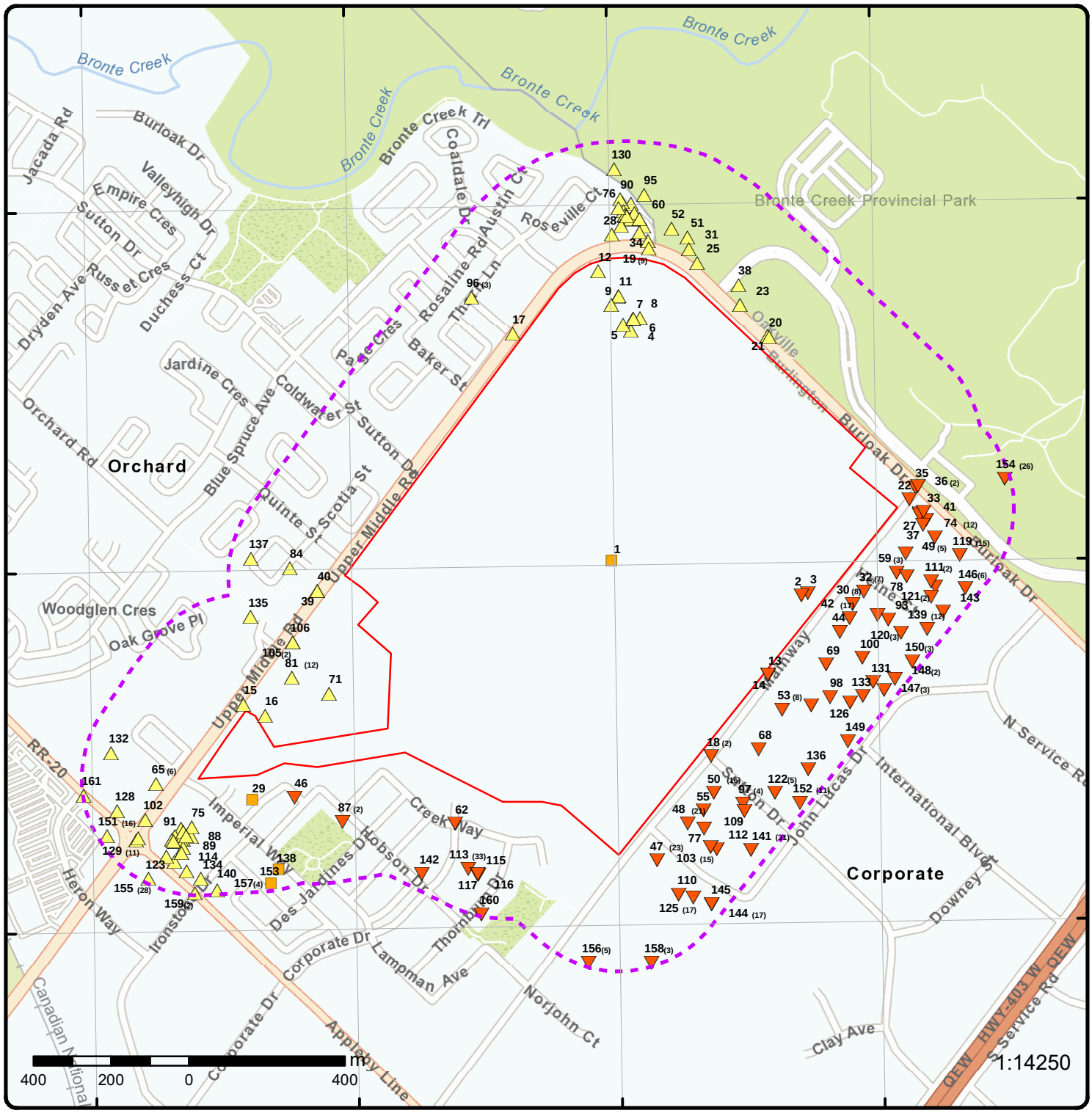
Site	Address	Distance (m)	Map Key
	5570 MAINWAY BURLINGTON ON ***Well ID:*** 2810465	81.6	41
	SOUTH WEST INTERSECTION OF BURLOAK & UPPER MIDDLE Burlington ON ***Well ID:*** 7105631	82.5	43
	John Lucas Drive & Sutton Drive lot 1 con 2 Burlington ON ***Well ID:*** 7405082	84.8	44
	NW CORNER OF UPPER MIDDLE & BURLOAK lot 1 Burlington ON ***Well ID:*** 7108932	84.9	45
	lot 35 con 2 ON ***Well ID:*** 2802408	91.6	51
	lot 35 con 2 ON ***Well ID:*** 2802407	93.4	52
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197924	99.1	54
	lot 3 con 2 ON ***Well ID:*** 7382370	99.4	55
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197928	100.0	56
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197927	100.1	57
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197923	102.1	58
	UPPER MIDDLE RD AND BURLOAD DR Burlington ON	103.9	60

Site	Address	Distance (m)	Map Key
	Well ID: 7114250		
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197930	104.4	61
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197929	107.3	63
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197926	108.2	64
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197931	110.2	66
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197921	110.2	67
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197922	110.2	67
	OLD BURLOAK DR. PIPELINE EASEMENT BURLINGTON ON ***Well ID:*** 7197925	111.2	70
	5164 UPPERMIDDLE RD lot 2 con 2 BURLINGTON ON ***Well ID:*** 7042975	113.3	71
	OAKVILLE,ONT lot 35 con 2 ON ***Well ID:*** 2809963	116.8	72
	NW CORNER UPPERMIDDLE ON ***Well ID:*** 7105624	120.2	73
	S/W CORNER lot 5 con 2 BURLINGTON ON ***Well ID:*** 7039196	126.4	75

Site	Address	Distance (m)	Map Key
	UPPER MIDDLE RD AND BURLOAD DR ON ROAD Burlington ON ***Well ID:*** 7114255	128.9	76
	1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415624	135.9	80
	OLD BURLOAK DR lot 35 con 2 Burlington ON ***Well ID:*** 7331635	140.1	82
	ON ***Well ID:*** 7417282	142.4	83
	lot 4 con 1 ON ***Well ID:*** 2809655	142.9	84
	1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415625	150.3	88
	ON ***Well ID:*** 7417283	151.4	89
	UPPER MIDDLE RD AND BURLOAK DR ON ROAD Burlington ON ***Well ID:*** 7114256	151.5	90
	ON ***Well ID:*** 7404746	158.1	91
	ON ***Well ID:*** 7404747	161.3	92
	ON ***Well ID:*** 7404748	163.6	94
	OLD BURLOAK DR lot 35 con 2 Burlington ON	165.7	95

Site	Address	Distance (m)	Map Key
	Well ID: 7331634		
	5329 John Lucas Drive lot 2 con 2 Burlington ON ***Well ID:*** 7338355	169.6	98
	ON ***Well ID:*** 7404749	171.3	99
	5329 John Lucas Drive lot 1 con 2 Burlington ON ***Well ID:*** 7338356	171.8	100
	1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415622	173.5	104
	ON ***Well ID:*** 7404750	180.5	108
	lot 3 con 2 ON ***Well ID:*** 7382371	182.6	109
	lot 3 con 2 ON ***Well ID:*** 7382361	187.9	112
	ON ***Well ID:*** 7404751	196.0	114
	5200 CORPORATE DR Burlington ON ***Well ID:*** 7180404	198.0	115
	5200 CORPORATE DR Burlington ON ***Well ID:*** 7180402	198.4	116
	5200 CORPORATE DR Burlington ON ***Well ID:*** 7180403	198.7	117

Site	Address	Distance (m)	Map Key
	ON ***Well ID:*** 7417284	216.4	123
	5329 JOHN LUCAS DR. Burlington ON ***Well ID:*** 7255960	219.4	126
	1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415623	223.0	127
	lot 35 con 1 ON ***Well ID:*** 2803728	230.3	130
	lot 5 con 1 ON ***Well ID:*** 2809604	241.4	135
	lot 4 con 1 ON ***Well ID:*** 2809656	245.4	137



Map: 0.3 Kilometer Radius

Order Number: 24081200485

Address: Phase One Environmental Site Assessment - Bronte Creek Meadows, Burlington, ON

ERIS

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail
- Beach
- Airport
- Industrial Area
- Military Base
- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership

79°46'30"W

43°24'N



43°24'N

Aerial

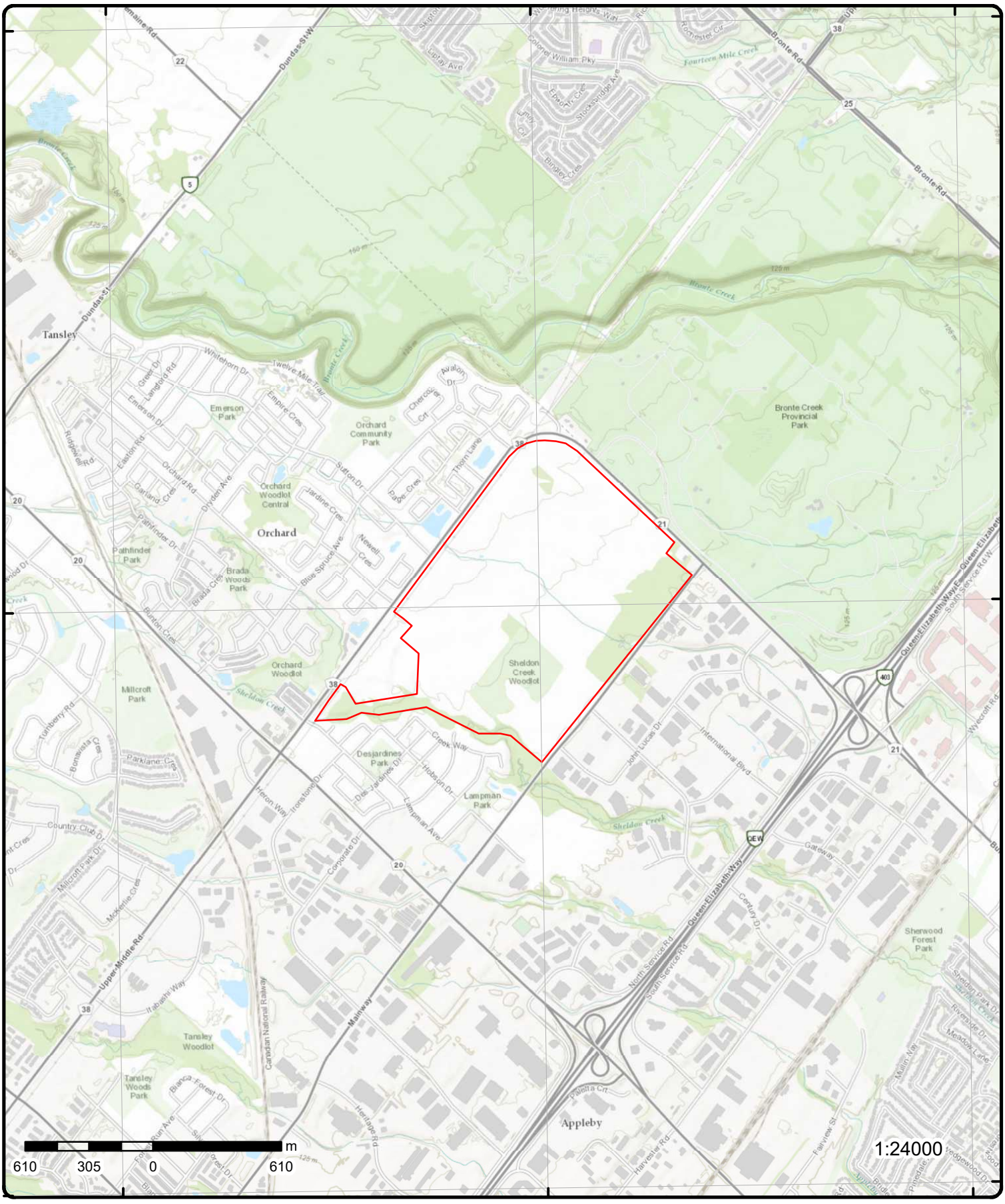
Year: 2023

Order Number: 24081200485

Address: Phase One Environmental Site Assessment - Bronte Creek Meadows

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Order Number: 24081200485

Address: Phase One Environmental Site Assessment - Bronte Creek Meadows

Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	ESE/0.0	136.8 / 0.00	5164, 5366, 5470 and 5900 Upper Middle Road and 5201 Mainway Burlington ON	EHS

Order No:	20160226123	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	07-MAR-16	**Search Radius (km):**	.1
Date Received:	26-FEB-16	**X:**	-79.775111
Previous Site Name:		**Y:**	43.400101
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	E/0.0	131.9 / -4.94	1 2 BURLINGTON ON	WDSH

Site No.:	A210103
Region:	CENTRAL
County:	HALTON
Concession:	2
Lot:	1
Easting:	599680
Northing:	4805670
Zone:	17
Date Closed:	1974/8/15
Status:	CLOSED
Classification:	A1 - POTENTIAL HUMAN IMPACT-URBAN INDUSTRIAL LIQUID/HAZARDOUS WASTES
%CommericialWste:	n/a
%DomesticWste Rec:	n/a
%LiquidWste Rec:	n/a
%HazardousWste Rec:	n/a
%Non-haz.Wste Rec:	n/a
%Sewage/Sludge Rec:	n/a
%Other Wste Rec:	n/a

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	E/0.0	131.8 / -5.09	Trafalgar Con 1 SDS Dump Burlington ON L7	ANDR

Legal Description:	Trafalgar Con 1 SDS Lot 7
Location Description:	N of gas pipeline, S of Highway 5 [Dundas St], adj. Millcroft Pk Dr, nr Sheldon Ck
Municipality:	Burlington City
Current Municipality:	Burlington City
RM:	Halton Region
Facility:	Dump
Date Active:	1970s
Date Begun:	
Date Complete:	Aug 15 1974
Area (Ha):	
Landfill Type:	
Group Name:	Sheldon Creek
Operated By:	

Serial: MOEE a210103
NTS: 30M05
Diameter (m):

Historical Summary:

Trafalgar Con 1 SDS Dump MOEE 1994 Burlington Con 2 SDS lot 1 cited as a closed wsate disposal site [Ontario Ministry of the Environment [1994] Waste disposal site inventory, [Toronto]: Ontario Environment, 1994., i, 196 pp., maps, ISBN 0772984093: 109]. Datapoint plots to Trafalgar Con 1 SDS lot 7. 1996 MapArt Datapoint plots to N of gas pipeline, S of Highway 5 [Dundas St], adj. Millcroft Pk Dr, near Sheldon Ck ([1996] MapArt Corporation, Golden Horseshoe Atlas, 1996 Edition, ISBN 1-55198-384-2).

Waste Type:
UTM X Nad 27: 599680
UTM Y Nad 27: 4805670
UTM Zone: 17

---

4 | **1 of 1** | **NNE/0.0** | **142.7 / 5.86** | **SOUTHWEST BURLOAK AND UPPER MIDDLE**
Burlington ON | **WWIS**

Well ID:	7114329	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	0	**Date Received:**	10/31/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z60571	**Contractor:**	6607
Tag:	A062339	**Form Version:**	4
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: BURLINGTON CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114329.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/15/2008
Year Completed: 2008
Depth (m): 10.7
Latitude: 43.4054198934399
Longitude: -79.7743848156591
X: -79.77438466690421
Y: 43.40541989062613
Path: 711\7114329.pdf

Bore Hole Information

Bore Hole ID:	1001859358	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599239.00
Code OB Desc:		**North83:**	4806567.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3

Date Completed: 04/15/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1002547304
Layer: 2
Color: 7
General Color: RED
Material 1: 06
Material 1 Desc: SILT
Material 2: 17
Material 2 Desc: SHALE
Material 3:
Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 10.699999809265137
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002547303
Layer: 1
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547308
Layer: 3
Plug From: 7.699999809265137
Plug To: 9.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547306
Layer: 1
Plug From: 0.0
Plug To: 1.399999976158142
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID:	1002547307
Layer:	2
Plug From:	3.200000047683716
Plug To:	4.599999904632568
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1002547312
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1002547302
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002547310
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	9.100000381469727
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002547311
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	
Screen Diameter UOM:	
Screen Diameter:	

Water Details

Water ID:	1002547309
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	3.9000000953674316
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1002547305
Diameter:	9.600000381469727

Depth From:
Depth To: 10.699999809265137
Hole Depth UOM: m
Hole Diameter UOM: cm

---

5 | **1 of 1** | **N/0.0** | **142.9 / 6.08** | **SOUTHWEST BURLOAK & UPPERMIDDLE**
Burlington ON | **WWIS**

Well ID:	7114254	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	10/31/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z60570	**Contractor:**	6607
Tag:	A062338	**Form Version:**	4
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: BURLINGTON CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114254.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/14/2008
Year Completed: 2008
Depth (m): 10.7
Latitude: 43.405557708219
Longitude: -79.7746413879776
X: -79.77464123913056
Y: 43.405557705358426
Path: 711\7114254.pdf

Bore Hole Information

Bore Hole ID:	1001858197	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599218.00
Code OB Desc:		**North83:**	4806582.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	04/14/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock

Materials Interval

Formation ID:	1002547014
Layer:	2
Color:	7
General Color:	RED
Material 1:	06
Material 1 Desc:	SILT
Material 2:	17
Material 2 Desc:	SHALE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.5
Formation End Depth:	10.699999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1002547013
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	06
Material 2 Desc:	SILT
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002547018
Layer:	3
Plug From:	3.200000047683716
Plug To:	4.599999904632568
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002547017
Layer:	2
Plug From:	7.699999809265137
Plug To:	9.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002547016
Layer:	1
Plug From:	0.0
Plug To:	1.399999976158142
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID: 1002547023
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1002547012
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002547020
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 9.100000381469727
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002547021
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1002547019
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 1.7999999523162842
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1002547015
Diameter: 9.600000381469727
Depth From:
Depth To: 10.699999809265137
Hole Depth UOM: m
Hole Diameter UOM: cm

6	1 of 1	NNE/0.0	143.2 / 6.37	SOUTHWEST BURLOAK Burlington ON	WWIS

Well ID: 7114249
Construction Date:
Use 1st: Monitoring
Flowing (Y/N):
Flow Rate:
Data Entry Status:

Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	10/31/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	M01258	**Contractor:**	6607
Tag:	A062357	**Form Version:**	5
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: BURLINGTON CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114249.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/18/2008
Year Completed: 2008
Depth (m): 7.5
Latitude: 43.4056984380043
Longitude: -79.7743297987921
X: -79.77432964957768
Y: 43.405698435708466
Path: 711\7114249.pdf

Bore Hole Information

Bore Hole ID:	1001858182	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599243.00
Code OB Desc:		**North83:**	4806598.00
Open Hole:	No	**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	04/18/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1002702017
Layer: 1
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 06
Material 2 Desc: SILT
Material 3:
Material 3 Desc:

Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002702018
Layer: 2
Color:
General Color:
Material 1: 17
Material 1 Desc: SHALE
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 7.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002702022
Layer: 2
Plug From: 0.4000000059604645
Plug To: 4.199999809265137
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002702021
Layer: 1
Plug From: 0.0
Plug To: 0.4000000059604645
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1002702027
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction: BORING

Pipe Information

Pipe ID: 1002702016
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002702024
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0

Depth To:	4.5
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002702025
Layer:	1
Slot:	10
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	

Water Details

Water ID:	1002702023
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	6.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1002702019
Diameter:	15.0
Depth From:	0.0
Depth To:	4.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1002702020
Diameter:	9.600000381469727
Depth From:	4.5
Depth To:	7.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

7 | ***1 of 1*** | ***NNE/0.0*** | ***143.2 / 6.37*** | ***SOUTH WEST &V UPPER MIDDLE BURLINGTON ON*** | ***WWIS***

Well ID:	7114257	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	10/31/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z86825	**Contractor:**	6607
Tag:	A069629	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	

Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114257.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/21/2008
Year Completed:	2008
Depth (m):	10.6
Latitude:	43.4056981732961
Longitude:	-79.7743051039602
X:	-79.77430495489835
Y:	43.40569817073891
Path:	711\7114257.pdf

Bore Hole Information

Bore Hole ID:	1001858206	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599245.00
Code OB Desc:		**North83:**	4806598.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	04/21/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1001945866
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	28
Material 2 Desc:	SAND
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.5999999046325684
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1001945867
Layer:	2
Color:	6

General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	15
Material 2 Desc:	LIMESTONE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	2.5999999046325684
Formation End Depth:	10.600000381469727
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001945870
Layer:	2
Plug From:	0.4000000059604645
Plug To:	9.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001945869
Layer:	1
Plug From:	
Plug To:	0.4000000059604645
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1001945875
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1001945865
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1001945872
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	9.100000381469727
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1001945873
Layer:	1
Slot:	10

Screen Top Depth:	9.100000381469727
Screen End Depth:	10.600000381469727
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.199999809265137

Water Details

Water ID:	1001945871
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	7.099999904632568
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1001945868
Diameter:	7.599999904632568
Depth From:	0.0
Depth To:	10.600000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

8 | ***1 of 1*** | ***NNE/0.0*** | ***142.9 / 6.10*** | ***lot 1 con 2 ON*** | ***WWIS***

Well ID:	2800246	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	10/31/1963
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	1612
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2800246.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/26/1963
Year Completed:	1963
Depth (m):	15.8496
Latitude:	43.4057139807822
Longitude:	-79.7740997737376
X:	-79.77409962524104
Y:	43.405713978768404
Path:	280\2800246.pdf

Bore Hole Information

Bore Hole ID:	10146803	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599261.60
Code OB Desc:		***North83:***	4806600.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	10/26/1963	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5

Location Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931421503
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931421502
Layer: 1
Color:
General Color:
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931421504
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE

Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 12.0
Formation End Depth: 52.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962800246
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10695373
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930249771
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 12.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930249772
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 52.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 992800246
Pump Set At:
Static Level: 12.0
Final Level After Pumping: 48.0
Recommended Pump Depth:
Pumping Rate: 1.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR

Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933601464
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	51.0
Water Found Depth UOM:	ft

---

9 | ***1 of 1*** | ***N/0.0*** | ***143.9 / 7.03*** | ***SOUTH WEST BULOAK & UPPER MIDDLE BURLINGTON ON*** | ***WWIS***

Well ID:	7114258	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	10/31/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z86826	**Contractor:**	6607
Tag:	A069630	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114258.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/22/2008
Year Completed:	2008
Depth (m):	10.6
Latitude:	43.4060207989547
Longitude:	-79.7750025566735
X:	-79.77500240753356
Y:	43.40602079635522
Path:	711\7114258.pdf

Bore Hole Information

Bore Hole ID:	1001858209	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599188.00
Code OB Desc:		**North83:**	4806633.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	04/22/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1001945879
Layer: 1
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001945880
Layer: 2
Color: 6
General Color: BROWN
Material 1: 17
Material 1 Desc: SHALE
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 10.600000381469727
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001945885
Layer: 3
Plug From: 3.0
Plug To: 4.5
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001945883
Layer: 1
Plug From: 0.0
Plug To: 0.4000000059604645
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001945886
Layer: 4
Plug From: 7.599999904632568
Plug To: 9.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001945884
Layer: 2
Plug From: 0.4000000059604645
Plug To: 1.2999999523162842
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1001945895
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1001945878
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001945890
Layer: 3
Material: 5
Open Hole or Material: PLASTIC
Depth From: 7.599999904632568
Depth To: 9.100000381469727
Casing Diameter: 36.20000076293945
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1001945888
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 1.5
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1001945889
Layer: 2
Material: 5
Open Hole or Material: PLASTIC

Depth From:	3.0
Depth To:	4.599999904632568
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1001945892
Layer:	2
Slot:	10
Screen Top Depth:	3.5999999046325684
Screen End Depth:	7.599999904632568
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.199999809265137

Construction Record - Screen

Screen ID:	1001945891
Layer:	1
Slot:	10
Screen Top Depth:	1.5
Screen End Depth:	3.0
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.199999809265137

Construction Record - Screen

Screen ID:	1001945893
Layer:	3
Slot:	10
Screen Top Depth:	4.099999904632568
Screen End Depth:	10.600000381469727
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.199999809265137

Water Details

Water ID:	1001945887
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	0.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1001945882
Diameter:	9.600000381469727
Depth From:	4.5
Depth To:	10.600000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID: 1001945881
Diameter: 21.0
Depth From: 0.0
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

---

10 | **1 of 1** | **N/0.0** | **144.8 / 7.97** | **SOTHWEST UPPERVEDDLE PURCELL Burlington ON** | **WWIS**

Well ID: 7114252
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z60558
Tag: A054649
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 10/31/2008
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 4
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114252.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/17/2008
Year Completed: 2008
Depth (m): 10.6
Latitude: 43.4062076001027
Longitude: -79.7747888386689
X: -79.77478869029407
Y: 43.406207597787485
Path: 711\7114252.pdf

Bore Hole Information

Bore Hole ID: 1001858191
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/17/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599205.00
North83: 4806654.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1002546951
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0999999046325684
Formation End Depth: 10.600000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002546950
Layer: 1
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0999999046325684
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002546954
Layer: 2
Plug From: 0.30000001192092896
Plug To: 8.899999618530273
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002546953
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1002546959
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID:	1002546949
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002546956
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	9.100000381469727
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002546957
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	
Screen Diameter UOM:	
Screen Diameter:	

Water Details

Water ID:	1002546955
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	5.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1002546952
Diameter:	7.599999904632568
Depth From:	
Depth To:	10.600000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	1 of 1	N/0.0	144.8 / 7.97	SOUTHWEST UPPERMIDDLE BURLOAK Burlington ON	WWIS

Well ID:	7114253	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	10/31/2008
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z60559	***Contractor:***	6607
Tag:	A059198	***Form Version:***	4

Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114253.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/16/2008
Year Completed:	2008
Depth (m):	7.5
Latitude:	43.4062343426498
Longitude:	-79.774763599215
X:	-79.77476345033519
Y:	43.406234340438026
Path:	711\7114253.pdf

Bore Hole Information

Bore Hole ID:	1001858194	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599207.00
Code OB Desc:		**North83:**	4806657.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	04/16/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1002546988
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.700000047683716
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1002546989
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	15
Material 2 Desc:	LIMESTONE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	2.700000047683716
Formation End Depth:	7.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002546991
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002546992
Layer:	2
Plug From:	0.30000001192092896
Plug To:	4.300000190734863
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1002546997
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1002546987
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002546994
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	4.5
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Construction Record - Screen

Screen ID: 1002546995
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1002546993
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 3.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1002546990
Diameter: 9.600000381469727
Depth From:
Depth To: 7.5
Hole Depth UOM: m
Hole Diameter UOM: cm

---

12 | ***1 of 1*** | ***N/0.0*** | ***144.8 / 8.00*** | ***Upper Middle Road Burlington ON*** | ***EHS***

Order No: 20071016009
Status: C
Report Type: CAN - Complete Report
Report Date: 10/24/2007
Date Received: 10/16/2007
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans
Nearest Intersection: Burloak Drive
Municipality:
Client Prov/State:
Search Radius (km): 0.25
X: -79.775402
Y: 43.406802

---

13 | ***1 of 1*** | ***ESE/10.3*** | ***131.8 / -5.00*** | ***Jannock Properties Limited North Service Road Burlington ON L5L 4M1*** | ***ECA***

Approval No: 3146-56LQH6
Approval Date: 2002-01-23
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Business Name: Jannock Properties Limited
Address: North Service Road
Full Address:
Full PDF Link:
PDF Site Location:
MOE District: Halton-Peel
City:
Longitude: -79.7702
Latitude: 43.397400000000005
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	1 of 1	ESE/10.9	131.8 / -5.00	5516 JOHN L DRIVE lot 2 con 2 BURLINGTON ON	WWIS

Well ID:	2809887	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Not Used	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	03/25/2004
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z10255	**Contractor:**	6607
Tag:		**Form Version:**	3
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	002
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2809887.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/05/2004
Year Completed:	2004
Depth (m):	
Latitude:	43.3974059477429
Longitude:	-79.7701836835737
X:	-79.77018353491972
Y:	43.39740594548688
Path:	280\2809887.pdf

Bore Hole Information

Bore Hole ID:	11105745	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599592.30
Code OB Desc:		**North83:**	4805682.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	8
Date Completed:	04/05/2004	**UTMRC Desc:**	margin of error : 3 km - 10 km
Remarks:		**Location Method:**	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	962809887
Method Construction Code:	6
Method Construction:	Boring

Other Method Construction:

Pipe Information

Pipe ID: 11111244
Casing No: 1
Comment:
Alt Name:

---

15 ***1 of 1*** ***WSW/17.2*** ***139.9 / 3.04*** ***UPPER MIDDLE ROAD & APPLEBY Burlington ON*** ***WWIS***

Well ID:	7253139	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring and Test Hole	***Data Entry Status:***	
Use 2nd:	0	***Data Src:***	
Final Well Status:	Monitoring and Test Hole	***Date Received:***	12/01/2015
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z208475	***Contractor:***	7247
Tag:	A179546	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/725\7253139.pdf

Additional Detail(s) (Map)

Well Completed Date: 07/06/2015
Year Completed: 2015
Depth (m): 7.3152
Latitude: 43.3968997097353
Longitude: -79.7868554817576
X: -79.78685533338573
Y: 43.39689970755109
Path: 725\7253139.pdf

Bore Hole Information

Bore Hole ID:	1005822723	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	598243.00
Code OB Desc:		***North83:***	4805606.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	07/06/2015	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	1005843214
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	28
Material 2 Desc:	SAND
Material 3:	11
Material 3 Desc:	GRAVEL
Formation Top Depth:	0.0
Formation End Depth:	7.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005843215
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	05
Material 3 Desc:	CLAY
Formation Top Depth:	7.0
Formation End Depth:	14.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005843216
Layer:	3
Color:	2
General Color:	GREY
Material 1:	28
Material 1 Desc:	SAND
Material 2:	06
Material 2 Desc:	SILT
Material 3:	11
Material 3 Desc:	GRAVEL
Formation Top Depth:	14.0
Formation End Depth:	24.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005843224
Layer:	1
Plug From:	0.0
Plug To:	15.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1005843223
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

Pipe ID:	1005843213
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1005843219
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	15.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1005843220
Layer:	1
Slot:	10
Screen Top Depth:	15.0
Screen End Depth:	25.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.125

Water Details

Water ID:	1005843218
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	20.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1005843217
Diameter:	6.0
Depth From:	0.0
Depth To:	25.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

16	***1 of 1***	***WSW/22.2***	***138.5 / 1.67***	***5164 UPPER MIDDLE RD lot 3-4 Burlington ON***	***WWIS***

Well ID:	7100721	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Test Hole	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	12/21/2007
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	M00226	**Contractor:**	6988
Tag:	A064001	**Form Version:**	5
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	3-4
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7100721.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/30/2007
Year Completed:	2007
Depth (m):	
Latitude:	43.3966404355552
Longitude:	-79.7861815012791
X:	-79.78618135191924
Y:	43.39664043362622
Path:	710\7100721.pdf

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7100721.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/30/2007
Year Completed:	2007
Depth (m):	
Latitude:	43.3995003005398
Longitude:	-79.7833088716241
X:	-79.78330872265947
Y:	43.39950029861937
Path:	710\7100721.pdf

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7100721.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/30/2007
Year Completed:	2007
Depth (m):	3.4
Latitude:	43.3971230614182
Longitude:	-79.784146737692
X:	-79.78414658935246
Y:	43.39712305886415
Path:	710\7100721.pdf

Bore Hole Information

Bore Hole ID:	1001508831	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598298.00
Code OB Desc:		**North83:**	4805578.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:	This is a record from cluster log sheet	**UTMRC:**	3
Date Completed:	10/30/2007	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1001508835
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Annular Space/Abandonment Sealing Record

Plug ID:	1001508836
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Method of Construction & Well Use

Method Construction ID:	1001508834
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Hole Diameter

Hole ID:	1001508833
Diameter:	10.199999809265137
Depth From:	
Depth To:	3.200000047683716
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Bore Hole Information

Bore Hole ID:	1001508825	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598526.00
Code OB Desc:		**North83:**	4805899.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:	This is a record from cluster log sheet	**UTMRC:**	3
Date Completed:	10/30/2007	**UTMRC Desc:**	margin of error : 10 - 30 m

Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1001508830
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Annular Space/Abandonment Sealing Record

Plug ID:	1001508829
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Method of Construction & Well Use

Method Construction ID:	1001508828
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Hole Diameter

Hole ID:	1001508827
Diameter:	10.199999809265137
Depth From:	
Depth To:	3.200000047683716
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Bore Hole Information

Bore Hole ID:	1000065359	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598462.00
Code OB Desc:		**North83:**	4805634.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	10/30/2007	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1001508837
Layer:	1
Color:	
General Color:	
Material 1:	24
Material 1 Desc:	PREV. DRILLED
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.4000000953674316
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001508839
Layer:	1
Plug From:	0.0
Plug To:	3.4000000953674316
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1001508841
Method Construction Code:	0
Method Construction:	Not Known
Other Method Construction:	AUGER

Hole Diameter

Hole ID:	1001508838
Diameter:	10.199999809265137
Depth From:	0.0
Depth To:	3.4000000953674316
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

17 ***1 of 1*** ***NNW/25.4*** ***143.8 / 6.95*** ***MATTAMY HOMES LTD.***
UPPER MIDDLE RD/DEER PLACE
BURLINGTON CITY ON ***CA***

Certificate #:	3-1117-99-
Application Year:	99
Issue Date:	9/20/1999
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
18	1 of 2	SE/26.9	131.8 / -5.00	LIMESIDE DEVELOPMENTS SUTTON DR. MAINWAY PH. 2 BURLINGTON CITY ON	CA

Certificate #: 3-0181-89-
Application Year: 89
Issue Date: 2/15/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
18	2 of 2	SE/26.9	131.8 / -5.00	LIMESIDE DEVELOPMENT MAINWAY SUTTON DR. PH. 2 BURLINGTON CITY ON	CA

Certificate #: 7-0168-89-
Application Year: 89
Issue Date: 2/15/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	1 of 9	NNE/29.8	144.8 / 8.00	ENBRIDGE PIPELINES INC. LOT#35, CONCESSION #2\UPPER MIDDLE RD & BURLOAK RD PIPELINE/COMPRESSOR STATION OAKVILLE TOWN ON	SPL

Ref No: 222604
Year:
Incident Dt: 3/5/2002
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/5/2002
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: OAKVILLE TOWN
Site Lot:
Site Conc:

Municipality No: 14403
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	OTHER CAUSE (N.O.S.)
Incident Preceding Spill:	
Environment Impact:	CONFIRMED
Health Env Consequence:	
Nature of Impact:	Soil contamination
Contaminant Qty:	
System Facility Address:	
Client Name:	
Client Type:	
Source Type:	
Contaminant Code:	
Contaminant Name:	
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	LAND / WATER
Incident Reason:	OTHER
Incident Summary:	ENBRIDGE PIPELINE: SOIL CONTAMINATED WITH OIL FOUND WHILE DIGGING.
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	
SAC Action Class:	
Call Report Locatn Geodata:	

19	2 of 9	NNE/29.8	144.8 / 8.00	**Burloak Drive and Upper Middle Road** **Burlington ON**	CA

Certificate #:	4300-536HVM
Application Year:	01
Issue Date:	10/11/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Her Majesty the Queen in Right of Ontario as represented by the Minister of Natural Resources
Client Address:	1219 Burloak Drive
Client City:	Burlington
Client Postal Code:	L7R 3X5
Project Description:	This application is for the construction of a watermain on Burloak Drive and Upper Middle Road in the City of Burlington.
Contaminants:	
Emission Control:	

19	3 of 9	NNE/29.8	144.8 / 8.00	**The Regional Municipality of Halton** **Upper Middle Road and Burloak Dr** **Burlington ON**	CA

Certificate #:	7580-7TRJUM
Application Year:	2009
Issue Date:	7/17/2009
Approval Type:	Municipal and Private Sewage Works
Status:	Revoked and/or Replaced
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contaminants:					
Emission Control:					

19	4 of 9	NNE/29.8	144.8 / 8.00	**The Regional Municipality of Halton** **Upper Middle Road and Burloak Dr** **Burlington ON**	CA

Certificate #:	7647-7TTHJX
Application Year:	2009
Issue Date:	7/17/2009
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

19	5 of 9	NNE/29.8	144.8 / 8.00	**The Regional Municipality of Halton** **Upper Middle Road and Burloak Dr** **Burlington ON L6M 3L1**	ECA

Approval No:	7647-7TTHJX	**MOE District:**	
Approval Date:	2009-07-17	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	The Regional Municipality of Halton		
Address:	Upper Middle Road and Burloak Dr		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/3291-7TSPEU-14.pdf		
PDF Site Location:			

19	6 of 9	NNE/29.8	144.8 / 8.00	**Her Majesty the Queen in Right of Ontario as represented by the Minister of** **Natural Resources Burloak Drive and Upper Middle Rd** **Burlington ON L7R 3X5**	ECA

Approval No:	4300-536HVM	**MOE District:**	Halton-Peel
Approval Date:	2001-10-11	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-79.7638
Record Type:	ECA	**Latitude:**	43.4033
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Halton	**Geometry Y:**	
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Business Name:	Her Majesty the Queen in Right of Ontario as represented by the Minister of Natural Resources		
Address:	Burloak Drive and Upper Middle Rd		
Full Address:			
Full PDF Link:			
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	7 of 9	NNE/29.8	144.8 / 8.00	The Regional Municipality of Halton Upper Middle Road and Burloak Dr Burlington ON L6M 3L1	ECA

Approval No: 7580-7TRJUM
Approval Date: 2009-07-17
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Regional Municipality of Halton
Address: Upper Middle Road and Burloak Dr
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6050-7RCN6P-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	8 of 9	NNE/29.8	144.8 / 8.00	Her Majesty the Queen in Right of Ontario as represented by the Minister of Natural Resources Burloak Drive and Upper Middle Rd Burlington ON L6M 4J7	ECA

Approval No: 7490-7L5MMY
Approval Date: 2008-11-07
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: Her Majesty the Queen in Right of Ontario as represented by the Minister of Natural Resources
Address: Burloak Drive and Upper Middle Rd
Full Address:
Full PDF Link:
PDF Site Location:
MOE District: Halton-Peel
City:
Longitude: -79.7638
Latitude: 43.4033
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	9 of 9	NNE/29.8	144.8 / 8.00	Enbridge Pipelines Inc. corner of Upper Middle and Burloak Dr Oakville ON	SPL

Ref No: 5200-B42PDH
Year:
Incident Dt: 2018/08/27
Dt MOE Arvl on Scn:
MOE Reported Dt: 2018/08/27
Dt Document Closed:
Site No: NA
MOE Response: No
Site County/District: Regional Municipality of Halton
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: Enbridge Pipeline<UNOFFICIAL>
Site Address: corner of Upper Middle and Burloak Dr
Site Region: Central
Site Municipality: Oakville
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health: 2 - Minor Environment
Agency Involved:

Northing:	
Easting:	
Incident Cause:	
Incident Preceding Spill:	Unknown / N/A
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	0.15 L
System Facility Address:	
Client Name:	Enbridge Pipelines Inc.
Client Type:	Corporation
Source Type:	Unknown / N/A
Contaminant Code:	15
Contaminant Name:	OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Limit 1:	
Contam Limit Freq 1:	n/a
Contaminant UN No 1:	n/a
Receiving Medium:	Land
Incident Reason:	Unknown / N/A
Incident Summary:	Enbridge Pipelines: leak found in tub, unkn oil 150 ml
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Unknown / N/A
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	

---

20 | ***1 of 1*** | ***NE/37.5*** | ***139.0 / 2.19*** | ***163M SOUTH OF BRONTE PROVINCIAL PARK OAKVILLE ON*** | ***WWIS***

Well ID:	7267355	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring and Test Hole	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	07/20/2016
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z220156	**Contractor:**	6607
Tag:	A175315	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/726\7267355.pdf

Additional Detail(s) (Map)

Well Completed Date:	
Year Completed:	
Depth (m):	12.1
Latitude:	43.4052289214531
Longitude:	-79.7700167702666
X:	-79.7700166210184
Y:	43.405228918813904
Path:	726\7267355.pdf

Bore Hole Information

Bore Hole ID:	1006159429	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599593.00
Code OB Desc:		***North83:***	4806551.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:		***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006172093
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.7999999523162842
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006172094
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.7999999523162842
Formation End Depth:	12.100000381469727
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006172103
Layer:	2
Plug From:	0.0
Plug To:	8.600000381469727
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006172102
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1006172101
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1006172092
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006172097
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	9.100000381469727
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1006172098
Layer:	1
Slot:	.10
Screen Top Depth:	9.100000381469727
Screen End Depth:	12.100000381469727
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.400000095367432

Water Details

Water ID:	1006172096
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	4.920000076293945
Water Found Depth UOM:	m

Hole Diameter

Hole ID: 1006172095
Diameter: 21.0
Depth From: 0.0
Depth To: 12.100000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

---

21 | 1 of 1 | NE/37.6 | 139.0 / 2.19 | 162M SOUTH OF BRONTE PROVINCIAL PARK OAKVILLE ON | WWIS

Well ID: 7267356
Construction Date:
Use 1st: Monitoring and Test Hole
Use 2nd: 0
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z220155
Tag: A192906
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 07/20/2016
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 7
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/726\7267356.pdf

Additional Detail(s) (Map)

Well Completed Date:
Year Completed:
Depth (m): 7.5
Latitude: 43.4052563270145
Longitude: -79.7700532656843
X: -79.77005311685944
Y: 43.4052563249779
Path: 726\7267356.pdf

Bore Hole Information

Bore Hole ID: 1006159449
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed:
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599590.00
North83: 4806554.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID:	1006172145
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.7999999523162842
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006172146
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.7999999523162842
Formation End Depth:	7.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006172154
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006172155
Layer:	2
Plug From:	0.30000001192092896
Plug To:	4.199999809265137
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1006172153
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID: 1006172144
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006172149
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 4.5
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006172150
Layer: 1
Slot: .10
Screen Top Depth: 4.5
Screen End Depth: 7.5
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1006172148
Layer: 1
Kind Code:
Kind:
Water Found Depth: 5.059999942779541
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006172147
Diameter: 21.0
Depth From: 0.0
Depth To: 7.5
Hole Depth UOM: m
Hole Diameter UOM: cm

---

22 | **1 of 1** | **E/38.2** | **131.2 / -5.63** | **lot 1 con 2 ON** | **WWIS**

Well ID: 2805095
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 09/01/1977
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4005
Form Version: 1
Owner:
County: HALTON

Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2805095.pdf

Additional Detail(s) (Map)

Well Completed Date:	08/16/1977
Year Completed:	1977
Depth (m):	12.192
Latitude:	43.4014178211917
Longitude:	-79.7656284064871
X:	-79.76562825646324
Y:	43.40141781871453
Path:	280\2805095.pdf

Bore Hole Information

Bore Hole ID:	10151602	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599954.60
Code OB Desc:		**North83:**	4806133.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	08/16/1977	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Location Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931438371
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931438372
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	73
Material 2 Desc:	HARD
Material 3:	
Material 3 Desc:	
Formation Top Depth:	10.0
Formation End Depth:	40.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	962805095
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10700172
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930257729
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	17.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930257730
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	40.0
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	992805095
Pump Set At:	
Static Level:	15.0
Final Level After Pumping:	20.0
Recommended Pump Depth:	30.0
Pumping Rate:	24.0

Flowing Rate:	
Recommended Pump Rate:	8.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	2
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934714356
Test Type:	Recovery
Test Duration:	45
Test Level:	15.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934446831
Test Type:	Recovery
Test Duration:	30
Test Level:	15.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934966502
Test Type:	Recovery
Test Duration:	60
Test Level:	15.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934181587
Test Type:	Recovery
Test Duration:	15
Test Level:	15.0
Test Level UOM:	ft

Water Details

Water ID:	933608223
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	36.0
Water Found Depth UOM:	ft

23	***1 of 1***	***NE/45.7***	***139.8 / 3.00***	***ON***	***WWIS***

Well ID:	7262592	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	05/05/2016
Water Type:		***Selected Flag:***	TRUE

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Casing Material:		**Abandonment Rec:**	
Audit No:	C20894	**Contractor:**	6607
Tag:	A146787	**Form Version:**	8
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1005965691	**Tag No:**	A146787
Depth M:		**Contractor:**	6607
Year Completed:	2013	**Latitude:**	43.4059679385944
Well Completed Dt:	07/19/2013	**Longitude:**	-79.7709157259036
Audit No:	C20894	**Y:**	43.405967936531596
Path:		**X:**	-79.77091557645109

Bore Hole Information

Bore Hole ID:	1005965691	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599519.00
Code OB Desc:		**North83:**	4806632.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	07/19/2013	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
24	1 of 1	NNE/47.9	144.8 / 8.00	NW CORNER UPPER MIDDLE ON	WWIS

Well ID:	7105627	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	05/26/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z60548	**Contractor:**	6607
Tag:	A062355	**Form Version:**	4
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	

Clear/Cloudy: ***UTM Reliability:***
Municipality: BURLINGTON CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7105627.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/20/2008
Year Completed: 2008
Depth (m): 10.6
Latitude: 43.4074847493457
Longitude: -79.7738121090625
X: -79.77381195947014
Y: 43.40748474669958
Path: 710\7105627.pdf

Bore Hole Information

Bore Hole ID: 1001600892 ***Elevation:***
DP2BR: ***Elevrc:***
Spatial Status: ***Zone:*** 17
Code OB: ***East83:*** 599282.00
Code OB Desc: ***North83:*** 4806797.00
Open Hole: ***Org CS:*** UTM83
Cluster Kind: ***UTMRC:*** 3
Date Completed: 03/20/2008 ***UTMRC Desc:*** margin of error : 10 - 30 m
Remarks: ***Location Method:*** wwr
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1001724237
Layer: 3
Color: 6
General Color: BROWN
Material 1:
Material 1 Desc:
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 8.0
Formation End Depth:
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001724236
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE

Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 8.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001724235
Layer: 1
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001724238
Layer: 4
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3: 17
Material 3 Desc: SHALE
Formation Top Depth:
Formation End Depth: 10.600000381469727
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001724242
Layer: 3
Plug From: 7.900000095367432
Plug To: 9.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001724240
Layer: 1
Plug From: 0.0
Plug To: 3.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001724241
Layer: 2
Plug From: 3.0
Plug To: 4.400000095367432
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1001724247
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction: BORING

Pipe Information

Pipe ID: 1001724234
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001724244
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.5
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1001724245
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1001724243
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 3.200000047683716
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001724239
Diameter: 21.0
Depth From:
Depth To: 10.600000381469727

Hole Depth UOM: m
Hole Diameter UOM: cm

---

25 | **1 of 1** | **NNE/49.5** | **143.9 / 7.01** | **RRL Burloak Inc.**
1477 Burloak Dr to 1519 Buloak Dr (Regional Road #21)
Oakville ON L6J 7W5 | **ECA**

Approval No: 7863-6R8JRD
Approval Date: 2006-07-11
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
MOE District: Halton-Peel
City:
Longitude: -79.77214
Latitude: 43.40705
Geometry X:
Geometry Y:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: RRL Burloak Inc.
Address: 1477 Burloak Dr to 1519 Buloak Dr (Regional Road #21)
Full Address:
Full PDF Link:
PDF Site Location:

---

26 | **1 of 24** | **E/59.5** | **130.8 / -6.00** | **SUNCOR ENERGY PRODUCTS INC****
5600 MAINWAY
BURLINGTON ON L7L 6C4 | **FSTH**

License Issue Date: 2/19/2007
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Card/Keylock

--Details--
Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	2 of 24	E/59.5	130.8 / -6.00	1704271 ONTARIO INC O/A GAS STN 5600 MAINWAY BURLINGTON ON L7L 6C4	FSTH

License Issue Date: 1/21/2008 2:58:00 PM
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Card/Keylock

--Details--
Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	3 of 24	E/59.5	130.8 / -6.00	Suncor Energy Products Inc. 5600 Mainway Burlington ON L7L 6C4	CA

Certificate #: 0652-6J6LL3
Application Year: 2007
Issue Date: 5/6/2007
Approval Type: Industrial Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	4 of 24	E/59.5	130.8 / -6.00	Suncor Energy 5600 Mainway Burlington ON L7L 6C4	GEN

Generator No: ON8275158
SIC Code: 412110
SIC Description: Petroleum Product Wholesaler-Distributors
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	5 of 24	E/59.5	130.8 / -6.00	Suncor Energy 5600 Mainway Burlington ON L7L 6C4	GEN

Generator No: ON8275158
SIC Code: 412110
SIC Description: Petroleum Product Wholesaler-Distributors
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	6 of 24	E/59.5	130.8 / -6.00	SUNCOR ENERGY PRODUCTS PARTNERSHIP 5600 MAINWAY BURLINGTON ON	FST

Inventory No: 45864155
Inventory Status: active
Installation Year: 2006
Capacity: 50000
Capacity Unit: L
Tank Type: Double Wall UST
Manufacturer:
Model:
Description: 2009VBS

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	7 of 24	E/59.5	130.8 / -6.00	SUNCOR ENERGY PRODUCTS PARTNERSHIP 5600 MAINWAY	FST

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				BURLINGTON ON	

Inventory No: 44582937
Inventory Status: active
Installation Year: 2006
Capacity: 50000
Capacity Unit: L
Tank Type: Double Wall UST
Manufacturer:
Model:
Description: 2009VBS

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

26	8 of 24	E/59.5	130.8 / -6.00	**SUNCOR ENERGY PRODUCTS PARTNERSHIP** **5600 MAINWAY** **BURLINGTON ON**	FST

Inventory No: 44582936
Inventory Status: active
Installation Year: 2006
Capacity: 50000
Capacity Unit: L
Tank Type: Double Wall UST
Manufacturer:
Model:
Description: 2009VBS

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

26	9 of 24	E/59.5	130.8 / -6.00	**SUNCOR ENERGY PRODUCTS PARTNERSHIP** **5600 MAINWAY** **BURLINGTON ON**	FST

Inventory No: 44582938
Inventory Status: active
Installation Year: 2006
Capacity: 50000
Capacity Unit: L
Tank Type: Double Wall UST
Manufacturer:
Model:
Description: 2009VBS compartment tank 2 X 25,000L gold diesel

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

26	10 of 24	E/59.5	130.8 / -6.00	**SUNCOR ENERGY PRODUCTS PARTNERSHIP** **5600 MAINWAY** **BURLINGTON ON**	FST

Inventory No: 44582934
Inventory Status: active
Installation Year: 2006
Capacity: 50000
Capacity Unit: L
Tank Type: Double Wall UST
Manufacturer:
Model:
Description: 2009VBS

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

26	11 of 24	E/59.5	130.8 / -6.00	**SUNCOR ENERGY PRODUCTS PARTNERSHIP** **5600 MAINWAY** **BURLINGTON ON**	FST

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Inventory No:	44582935	**Tank Material:**	Fiberglass (FRP)
Inventory Status:	active	**Corrosion Protect:**	Fiberglass
Installation Year:	2006	**Overfill Protection:**	
Capacity:	50000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Double Wall Vertical AST		
Manufacturer:			
Model:			
Description:	2009VBS		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	12 of 24	E/59.5	130.8 / -6.00	**Suncor Energy** **5600 Mainway** **Burlington ON L7L 6C4**	GEN

Generator No:	ON8275158
SIC Code:	412110
SIC Description:	Petroleum Product Wholesaler-Distributors
Approval Years:	2012
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	221
Waste Class Name:	LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	13 of 24	E/59.5	130.8 / -6.00	**Suncor Energy** **5600 Mainway** **Burlington ON**	GEN

Generator No:	ON8275158
SIC Code:	412110
SIC Description:	PETROLEUM PRODUCT WHOLESALER-DISTRIBUTORS
Approval Years:	2013
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	221
Waste Class Name:	LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	14 of 24	E/59.5	130.8 / -6.00	**Suncor Energy Products Inc.** **5600 Mainway** **Burlington ON M2P 2C5**	ECA

Approval No:	0652-6J6LL3	**MOE District:**	Halton-Peel
Approval Date:	2007-05-06	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-79.76735

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Record Type:	ECA	**Latitude:**	43.39991
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Halton	**Geometry Y:**	
Approval Type:	ECA-INDUSTRIAL SEWAGE WORKS		
Project Type:	INDUSTRIAL SEWAGE WORKS		
Business Name:	Suncor Energy Products Inc.		
Address:	5600 Mainway		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/8111-6VBS2K-14.pdf		
PDF Site Location:			

26	15 of 24	E/59.5	130.8 / -6.00	**Suncor Energy** **5600 Mainway** **Burlington ON L7L 6C4**	GEN

Generator No:	ON8275158
SIC Code:	412110
SIC Description:	PETROLEUM PRODUCT WHOLESALER-DISTRIBUTORS
Approval Years:	2016
PO Box No:	
Country:	Canada
Status:	
Co Admin:	John Austerberry
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	905 469 3697 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	221
Waste Class Name:	LIGHT FUELS

26	16 of 24	E/59.5	130.8 / -6.00	**Suncor Energy** **5600 Mainway** **Burlington ON L7L 6C4**	GEN

Generator No:	ON8275158
SIC Code:	412110
SIC Description:	PETROLEUM PRODUCT WHOLESALER-DISTRIBUTORS
Approval Years:	2015
PO Box No:	
Country:	Canada
Status:	
Co Admin:	John Austerberry
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	905 469 3697 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	221
Waste Class Name:	LIGHT FUELS

26	17 of 24	E/59.5	130.8 / -6.00	**Suncor Energy** **5600 Mainway** **Burlington ON L7L 6C4**	GEN

Generator No:	ON8275158
SIC Code:	412110

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Description: PETROLEUM PRODUCT WHOLESALER-DISTRIBUTORS
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: John Austerberry
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905 469 3697 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

26	*18 of 24*	*E/59.5*	*130.8 / -6.00*	***Suncor Energy*** ***5600 Mainway*** ***Burlington ON L7L 6C4***	***GEN***

Generator No: ON8275158
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 221 L
Waste Class Name: Light fuels

26	*19 of 24*	*E/59.5*	*130.8 / -6.00*	***Suncor Energy*** ***5600 Mainway*** ***Burlington ON L7L 6C4***	***GEN***

Generator No: ON8275158
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 L
Waste Class Name: Light fuels

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 221 I
Waste Class Name: Light fuels

---

26 | **20 of 24** | **E/59.5** | **130.8 / -6.00** | **5600 MAINWAY BURLINGTON ON L7L 6C4** | **DTNK**

Delisted Fuel Storage Tank

Instance No:	44562017	**Creation Date:**	
Status:	Active	**Overfill Prot Type:**	
Instance Type:		**Facility Location:**	
Fuel Type:		**Piping SW Steel:**	0
Cont Name:		**Piping SW Galvan:**	0
Capacity:		**Tanks SW Steel:**	0
Tank Material:		**Piping Underground:**	5
Corrosion Prot:		**No Underground:**	5
Tank Type:		**Max Hazard Rank:**	
Install Year:		**Max Hazard Rank 1:**	
Facility Type:		**Nxt Period Start Dt:**	
Device Installed Loc:		**Program Area 1:**	
Fuel Type 2:		**Program Area 2:**	
Fuel Type 3:		**Nxt Period Strt Dt 2:**	
Item:	FS GASOLINE STATION - CARD/KEYLOCK	**Risk Based Periodic:**	
Item Description:		**Vol of Directives:**	
Model:		**Years in Service:**	
Description:		**Created Date:**	
Instance Creation Dt:		**Federal Device:**	
Instance Install Dt:		**Periodic Exempt:**	
Manufacturer:		**Statutory Interval:**	
Serial No:		**Rcomnd Insp Interval:**	
ULC Standard:		**Recommended Toler:**	
Quantity:		**Panam Venue Name:**	
Unit of Measure:		**External Identifier:**	
Parent Fac Type:			
TSSA Base Sched Cycle 1:			
TSSA Base Sched Cycle 2:			
Original Source:	FST		
Record Date:	31-MAY-2021		

---

26 | **21 of 24** | **E/59.5** | **130.8 / -6.00** | **Suncor Energy 5600 Mainway Burlington ON L7L 6C4** | **GEN**

Generator No: ON8275158
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 I
Waste Class Name: Light fuels

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 221 L
Waste Class Name: Light fuels

---

26 | **22 of 24** | **E/59.5** | **130.8 / -6.00** | **Suncor Energy**
5600 Mainway
Burlington ON L7L 6C4 | **GEN**

Generator No: ON8275158
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 L
Waste Class Name: LIGHT FUELS

Waste Class: 221 I
Waste Class Name: LIGHT FUELS

---

26 | **23 of 24** | **E/59.5** | **130.8 / -6.00** | **SUNCOR ENERGY PRODUCTS PARTNERSHIP**
5600 MAINWAY
BURLINGTON ON | **FST**

Inventory No: 44562017-2
Inventory Status: Active
Installation Year:
Capacity: 300000
Capacity Unit: L
Tank Type:
Manufacturer:
Model:
Description:

Tank Material:
Corrosion Protect:
Overfill Protection:
Inventory Context: Liquid Fuels
Inventory Item: FS Gasoline Station - Self Serve

---

26 | **24 of 24** | **E/59.5** | **130.8 / -6.00** | **SUNCOR ENERGY PRODUCTS PARTNERSHIP**
5600 MAINWAY
BURLINGTON ON | **FST**

Inventory No: 44562017-1
Inventory Status: Active
Installation Year:
Capacity: 300000
Capacity Unit: L
Tank Type:
Manufacturer:
Model:
Description:

Tank Material:
Corrosion Protect:
Overfill Protection:
Inventory Context: Liquid Fuels
Inventory Item: FS Gasoline Station - Card/Keylock

---

27 | **1 of 1** | **E/60.5** | **130.8 / -6.00** | **Mainway**
Burlington ON L7L 6C4 | **EHS**

Order No: 24012400332
Nearest Intersection:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Status:	C	**Municipality:**	
Report Type:	RSC Report (Urban)	**Client Prov/State:**	ON
Report Date:	29-JAN-24	**Search Radius (km):**	.3
Date Received:	24-JAN-24	**X:**	-79.76531826
Previous Site Name:		**Y:**	43.40105438
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos		

---

28 | **1 of 1** | **N/62.0** | **144.2 / 7.30** | **5470 Upper Middle Road Burlington ON** | **EHS**

Order No:	20120906065	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Site Report	**Client Prov/State:**	ON
Report Date:	06-SEP-12	**Search Radius (km):**	.25
Date Received:	05-SEP-12	**X:**	-79.774957
Previous Site Name:		**Y:**	43.407651
Lot/Building Size:			
Additional Info Ordered:			

---

29 | **1 of 1** | **WSW/63.3** | **136.8 / 0.00** | **BURLINGTON HYDRO-ELECTRIC COMM 5119 FALCONCREST RD UPPER MIDDLE RD & APPLEBY LINE TRANSFORMER BURLINGTON CITY ON L7L 6K3** | **SPL**

Ref No:	171118	**Municipality No:**	14101
Year:		**Nature of Damage:**	
Incident Dt:	8/4/1999	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	8/4/1999	**Impact to Health:**	
Dt Document Closed:		**Agency Involved:**	
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	BURLINGTON CITY		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	OTHER CONTAINER LEAK		
Incident Preceding Spill:			
Environment Impact:	POSSIBLE		
Health Env Consequence:			
Nature of Impact:	Soil contamination		
Contaminant Qty:			
System Facility Address:			
Client Name:			
Client Type:			
Source Type:			
Contaminant Code:			
Contaminant Name:			
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			

Receiving Medium: LAND
Incident Reason: MATERIAL FAILURE
Incident Summary: BURLINGTON HYDRO: XFORMERLEAK IN VAULT NO PCB'S SUSPECTED
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:

---

30 | ***1 of 8*** | ***E/65.1*** | ***130.8 / -6.00*** | ***Hearthland***
5450 Mainway Drive
Burlington ON L7L 6A4 | ***GEN***

Generator No: ON2145001
SIC Code: 337110
SIC Description: Wood Kitchen Cabinet and Counter Top Manufacturing
Approval Years: 04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

30 | ***2 of 8*** | ***E/65.1*** | ***130.8 / -6.00*** | ***Hearthland Fireplaces Limited***
5450 Mainway
Burlington ON L7L 6A4 | ***SCT***

Established: 01-AUG-86
Plant Size (ft²): 18000
Employment:

--Details--
Description: Wood Kitchen Cabinet and Counter Top Manufacturing
SIC/NAICS Code: 337110

Description: Other Wood Household Furniture Manufacturing
SIC/NAICS Code: 337123

Description: Plumbing, Heating and Air-Conditioning Contractors
SIC/NAICS Code: 238220

Description: All Other Home Furnishings Stores
SIC/NAICS Code: 442298

Description: Residential Building Construction
SIC/NAICS Code: 236110

Description: Other Millwork
SIC/NAICS Code: 321919

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	3 of 8	E/65.1	130.8 / -6.00	Hearthland 5450 Mainway Drive Burlington ON L7L 6A4	GEN

Generator No: ON2145001
SIC Code: 337110
SIC Description: Wood Kitchen Cabinet and Counter Top Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	4 of 8	E/65.1	130.8 / -6.00	Hearthland 5450 Mainway Drive Burlington ON L7L 6A4	GEN

Generator No: ON2145001
SIC Code: 337110
SIC Description: Wood Kitchen Cabinet and Counter Top Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	5 of 8	E/65.1	130.8 / -6.00	5450 Mainway Burlington ON L7L6A4	EHS

Order No: 20141111094
Status: C
Report Type: Custom Report
Report Date: 17-NOV-14
Date Received: 11-NOV-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.767491
Y: 43.399016

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	6 of 8	E/65.1	130.8 / -6.00	Infinity Group Construction 5450 Mainway Dr. Burlington ON L7L 6A4	GEN

Generator No: ON4409763
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	7 of 8	E/65.1	130.8 / -6.00	Infinity Group Construction 5450 Mainway Dr. Burlington ON L7L 6A4	GEN

Generator No: ON4409763
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	8 of 8	E/65.1	130.8 / -6.00	Infinity Group Construction 5450 Mainway Dr. Burlington ON L7L 6A4	GEN

Generator No: ON4409763
SIC Code:
SIC Description:

Approval Years:	As of Oct 2022
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	145 I
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	213 I
Waste Class Name:	PETROLEUM DISTILLATES
Waste Class:	263 I
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	331 I
Waste Class Name:	WASTE COMPRESSED GASES

---

31 | **1 of 1** | **NNE/67.9** | **144.7 / 7.81** | **lot 35 con 2 ON** | **WWIS**

Well ID:	2802409	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	10/31/1961
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	4602
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	035
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2802409.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/28/1961
Year Completed:	1961
Depth (m):	12.8016
Latitude:	43.4072908441218
Longitude:	-79.7725241682944
X:	-79.77252401922205
Y:	43.407290841513024
Path:	280\2802409.pdf

Bore Hole Information

Bore Hole ID:	10148959	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599386.60
Code OB Desc:		**North83:**	4806777.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	10/28/1961	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5

Location Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931428465
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 11.0
Formation End Depth: 42.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931428463
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931428464
Layer: 2
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:

Material 3:
Material 3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 11.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962802409
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10697529
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930253483
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 42.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930253482
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 992802409
Pump Set At:
Static Level: 20.0
Final Level After Pumping: 42.0
Recommended Pump Depth: 40.0
Pumping Rate: 3.0
Flowing Rate:
Recommended Pump Rate: 3.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933604479
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

---

32 | **1 of 7** | **E/68.1** | **130.4 / -6.47** | **FLOMETRICO LTD.**
5480 MAINWAY DR
BURLINGTON ON L7L 6A4 | **SCT**

Established: 1956
Plant Size (ft²): 12000
Employment: 7

--Details--
Description: INDUSTRIAL MACHINERY AND EQUIPMENT
SIC/NAICS Code: 5084

Description: Pump and Compressor Manufacturing
SIC/NAICS Code: 333910

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: PUMPS AND PUMPING EQUIPMENT
SIC/NAICS Code: 3561

---

32 | **2 of 7** | **E/68.1** | **130.4 / -6.47** | **Flometrico Ltd.**
5480 Mainway
Burlington ON L7L 6A4 | **SCT**

Established: 1956
Plant Size (ft²): 12000
Employment:

--Details--
Description: Pump and Compressor Manufacturing
SIC/NAICS Code: 333910

---

32 | **3 of 7** | **E/68.1** | **130.4 / -6.47** | **Peerless Pump Canada Inc.**
5480 Mainway
Burlington ON L7L 6A4 | **SCT**

Established: 8/1/1956
Plant Size (ft²): 12000
Employment:

--Details--
Description: Pump and Compressor Manufacturing
SIC/NAICS Code: 333910

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
32	4 of 7	E/68.1	130.4 / -6.47	5480 Mainway Burlington ON L7L 6A4	EHS

Order No:	20091126006	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	12/2/2009	**Search Radius (km):**	0.25
Date Received:	11/26/2009	**X:**	-79.767129
Previous Site Name:		**Y:**	43.399394
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
32	5 of 7	E/68.1	130.4 / -6.47	BIOSHOP CANADA INC 5480 MAINWAY BURLINGTON ON L7L6A4	CHM

Headcode:	00273600
Headcode Desc:	CHEMICALS
Phone:	9056341452
List Name:	
Description:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
32	6 of 7	E/68.1	130.4 / -6.47	BIOSHOP CANADA INC 5480 MAINWAY BURLINGTON ON L7L6A4	CHM

Headcode:	00273600
Headcode Desc:	CHEMICALS
Phone:	9056341452
List Name:	Info-direct(TM) BUSINESS FILE
Description:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
32	7 of 7	E/68.1	130.4 / -6.47	BIOSHOP CANADA INC 5480 MAINWAY BURLINGTON ON L7L6A4	CHM

Headcode:	00273600
Headcode Desc:	CHEMICALS
Phone:	9056341452
List Name:	INFO-DIRECT(TM) BUSINESS FILE
Description:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
33	1 of 1	E/68.2	130.8 / -6.00	5600, 5570 MAUCUAY & BULEK (1240) BURLINGTON ON	WWIS

Well ID:	2810452	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	12/29/2005
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z38268	**Contractor:**	6607
Tag:	A034264	**Form Version:**	3
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	

Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/281\2810452.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/22/2005
Year Completed:	2005
Depth (m):	
Latitude:	43.4011160242459
Longitude:	-79.7651973744558
X:	-79.76519722519029
Y:	43.40111602175483
Path:	281\2810452.pdf

Bore Hole Information

Bore Hole ID:	11319407	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599990.00
Code OB Desc:		***North83:***	4806100.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	11/22/2005	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	933284100
Layer:	1
Plug From:	0.0
Plug To:	9.100000381469727
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	962810452
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	11334262
Casing No:	1
Comment:	

Alt Name:

Water Details

Water ID:	934069314
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	3.200000047683716
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	11538004
Diameter:	16.0
Depth From:	0.0
Depth To:	9.100000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

34 ***1 of 1*** ***N/69.0*** ***144.8 / 8.00*** ***NW CORNER OF BURLOAK & UPPERMIDDLE Burlington ON*** ***WWIS***

Well ID:	7105625	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	05/26/2008
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z60546	***Contractor:***	6607
Tag:	A062519	***Form Version:***	4
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7105625.pdf

Additional Detail(s) (Map)

Well Completed Date:	03/18/2008
Year Completed:	2008
Depth (m):	3
Latitude:	43.4076947168883
Longitude:	-79.7740795838252
X:	-79.77407943453927
Y:	43.40769471456317
Path:	710\7105625.pdf

Bore Hole Information

Bore Hole ID:	1001600886	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17

Code OB:		**East83:**	599260.00
Code OB Desc:		**North83:**	4806820.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	03/18/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1001724209
Layer:	3
Color:	6
General Color:	BROWN
Material 1:	
Material 1 Desc:	
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1001724208
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.600000023841858
Formation End Depth:	3.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1001724207
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.600000023841858

Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001724211
Layer: 1
Plug From: 0.0
Plug To: 1.399999976158142
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1001724216
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1001724206
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001724213
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.5
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1001724214
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1001724212
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001724210
Diameter: 21.0
Depth From:
Depth To: 3.0
Hole Depth UOM: m
Hole Diameter UOM: cm

---

35 | *1 of 1* | *E/70.7* | *130.8 / -6.00* | ***Suncor Energy Products Inc.*** | ***ECA***

Burlington ON M2P 2C5

Approval No: 0845-6FHK5G
Approval Date: 2007-12-11
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Grey Sauble
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Suncor Energy Products Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0073-743RZF-14.pdf
PDF Site Location:

MOE District: Owen Sound
City:
Longitude: -79.765434
Latitude: 43.4017
Geometry X:
Geometry Y:

---

36 | *1 of 2* | *E/76.7* | *130.8 / -6.00* | ***Mainway and Burloak*** | ***EHS***

Burlington ON

Order No: 20060127024
Status: C
Report Type: Basic Report
Report Date: 2/6/2006
Date Received: 1/27/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.4
X: -79.765258
Y: 43.401269

---

36 | *2 of 2* | *E/76.7* | *130.8 / -6.00* | ***Burloak Drive & Mainway*** | ***EHS***

Oakville ON

Order No: 20070710024
Status: C
Report Type: CAN - Custom Report
Report Date: 7/19/2007
Date Received: 7/10/2007
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans; City Directory

Nearest Intersection:
Municipality:
Client Prov/State:
Search Radius (km): 0.25
X: -79.766809
Y: 43.401742

---

37 | *1 of 1* | *E/79.6* | *130.3 / -6.53* | ***5570 and 5600 Mainway and 1240 Burloak Dr*** | ***EHS***

Burlington ON

Order No: 20090526025
Status: C
Report Type: Standard Report
Report Date: 5/28/2009
Date Received: 5/26/2009
Previous Site Name:
Lot/Building Size:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.765216
Y: 43.400824

Additional Info Ordered:

38	1 of 1	NE/80.6	140.9 / 4.04	lot 35 con 2 ON	WWIS

Well ID: 2802406
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 01/08/1951
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1642
Form Version: 1
Owner:
County: HALTON
Lot: 035
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2802406.pdf

Additional Detail(s) (Map)

Well Completed Date: 10/27/1950
Year Completed: 1950
Depth (m): 14.9352
Latitude: 43.4064366459761
Longitude: -79.7709605890061
X: -79.77096044005764
Y: 43.40643664346682
Path: 280\2802406.pdf

Bore Hole Information

Bore Hole ID: 10148956
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/27/1950
Remarks:
Location Method Desc: Original Pre1985 UTM Rel Code 9: unknown UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599514.60
North83: 4806684.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: p9

Overburden and Bedrock Materials Interval

Formation ID:	931428458
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	49.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931428457
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	962802406
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10697526
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930253476
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	8.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930253477
Layer:	2

Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	49.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	992802406
Pump Set At:	
Static Level:	10.0
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933604476
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	
Water Found Depth UOM:	ft

---

39 | ***1 of 1*** | ***W/81.0*** | ***141.8 / 4.90*** | ***5219 Uppre Middle Road Burlington ON*** | ***EHS***

Order No:	20161003125	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Express Report	**Client Prov/State:**	ON
Report Date:	03-OCT-16	**Search Radius (km):**	.25
Date Received:	03-OCT-16	**X:**	-79.784462
Previous Site Name:		**Y:**	43.399504
Lot/Building Size:			
Additional Info Ordered:	Aerial Photos		

---

40 | ***1 of 1*** | ***W/81.0*** | ***141.8 / 4.90*** | ***Upper Middle Road Enclave Inc., Seveil Incorporated Canada, and Azaran International Trading Ltd., for and on behalf of Upper Middle Road Enclave Limited Partnership 5219 Upper Middle Road 2004 and 2005 Georgina Court Burlington ON L4B 1G2*** | ***ECA***

Approval No:	7635-C8VQ3A	**MOE District:**	Halton-Peel
Approval Date:	November, 30 2021	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	-8881587.7243

SWP Area Name:	Halton	**Geometry Y:**	5373010.580899997
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Upper Middle Road Enclave Inc., Seveil Incorporated Canada, and Azaran International Trading Ltd., for and on behalf of Upper Middle Road Enclave Limited Partnership		
Address:	5219 Upper Middle Road 2004 and 2005 Georgina Court		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/2921-C87RVZ-14.pdf		
PDF Site Location:			

41 | **1 of 1** | **E/81.6** | **130.6 / -6.24** | **5570 MAINWAY BURLINGTON ON** | **WWIS**

Well ID:	2810465	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	01/05/2006
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z40276	**Contractor:**	6607
Tag:	A034594	**Form Version:**	3
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/281\2810465.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/08/2005
Year Completed:	2005
Depth (m):	6.4
Latitude:	43.4009349103477
Longitude:	-79.7651022602772
X:	-79.76510211071576
Y:	43.400934907750674
Path:	281\2810465.pdf

Bore Hole Information

Bore Hole ID:	11552375	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599998.00
Code OB Desc:		**North83:**	4806080.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	11/08/2005	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	933042958
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	6.400000095367432
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933042959
Layer:	3
Color:	2
General Color:	GREY
Material 1:	
Material 1 Desc:	
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	6.400000095367432
Formation End Depth:	
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933042957
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	12
Material 2 Desc:	STONES
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933286874
Layer:	1
Plug From:	0.0
Plug To:	1.9989999532699585

Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 962810465
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 11561982
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930874626
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 2.0999999046325684
Casing Diameter: 5.900000095367432
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 933416912
Layer: 1
Slot: 10
Screen Top Depth: 2.0999999046325684
Screen End Depth: 9.600000381469727
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 934070647
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 7.099999904632568
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11683486
Diameter: 15.0
Depth From: 0.0
Depth To: 9.600000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	1 of 17	E/82.5	130.8 / -6.04	VE-GO Engineering Inc. 5420 Mainway Unit 3 Burlington ON L7L 6A4	SCT

Established: 1986
Plant Size (ft²): 10000
Employment:

--Details--
Description: Machine Shops
SIC/NAICS Code: 332710

Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

Description: Engineering Services
SIC/NAICS Code: 541330

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	2 of 17	E/82.5	130.8 / -6.04	ALS Canada Ltd 5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	GEN

Generator No: ON6381922
SIC Code: 541380
SIC Description: Testing Laboratories
Approval Years: 05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 114
Waste Class Name: OTHER INORGANIC ACID WASTES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	3 of 17	E/82.5	130.8 / -6.04	ALS Canada Ltd. 5420 Mainway Drive, Unit 5 & 6 Burlington Ontario L7L 6A4 Burlington ON	EBR

EBR Registry No: IA05E0669
Ministry Ref No: 8279-6BVKVQ
Notice Type: Instrument Decision
Notice Stage:
Notice Date: October 27, 2006
Proposal Date: June 24, 2005
Year: 2005
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Off Instrument Name:
Posted By:
Company Name: ALS Canada Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 5420 Mainway Drive, Unit 5 & 6, Burlington Ontario, L7L 6A4
Comment Period:
URL:

Site Location Details:

5420 Mainway Drive, Unit 5 & 6 Burlington Ontario L7L 6A4 Burlington

---

42	***4 of 17***	***E/82.5***	***130.8 / -6.04***	***ALS Canada Ltd.*** ***5420 Mainway Drive Unit Unit 5 & 6 Burlington,*** ***Regional Municipality of Halton L7L 6A4 CITY OF BURLINGTON*** ***ON***	***EBR***

EBR Registry No: 011-0660
Ministry Ref No: 0287-86VK9H
Notice Type: Instrument Decision
Notice Stage:
Notice Date: February 07, 2011
Proposal Date: July 21, 2010
Year: 2010
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: ALS Canada Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 9936 67 avenue, Edmonton Alberta, Canada T6E 0P5
Comment Period:
URL:

Site Location Details:

5420 Mainway Drive Unit Unit 5 & 6 Burlington, Regional Municipality of Halton L7L 6A4 CITY OF BURLINGTON

42	***5 of 17***	***E/82.5***	***130.8 / -6.04***	***ALS Canada Ltd.*** ***5420 Mainway Drive, Unit 5 & 6*** ***Burlington ON L7L 6A4***	***CA***

Certificate #: 9482-6HXMRA
Application Year: 2005
Issue Date: 11/8/2005
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	6 of 17	E/82.5	130.8 / -6.04	ALS Canada Ltd. 5420 Mainway Dr Burlington ON L7L 6A4	CA

Certificate #: 9163-8DMQFN
Application Year: 2011
Issue Date: 1/31/2011
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	7 of 17	E/82.5	130.8 / -6.04	M&H Probing Systems Ltd. 5420 Mainway Unit 2D Burlington ON L7L 6A4	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417930

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	8 of 17	E/82.5	130.8 / -6.04	5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	SPL

Ref No: 5486-89HTUA
Year:
Incident Dt:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/21/2010
Dt Document Closed:
Site No:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: ALS Laboratories<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality:
Site Lot:
Site Conc:
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	Other Discharges
Incident Preceding Spill:	
Environment Impact:	Confirmed
Health Env Consequence:	
Nature of Impact:	Soil Contamination
Contaminant Qty:	40 L
System Facility Address:	
Client Name:	
Client Type:	
Source Type:	
Contaminant Code:	15
Contaminant Name:	HYDRAULIC OIL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	
Incident Reason:	Spill
Incident Summary:	ALS Labs: spill of up to 40 L hydraulic oil to tarmac, clnd.
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Motor Vehicle
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	9 of 17	E/82.5	130.8 / -6.04	**ALS Canada Ltd** **5420 Mainway Drive Unit #5** **Burlington ON L7L 6A4**	GEN

Generator No:	ON6381922
SIC Code:	541380
SIC Description:	Testing Laboratories
Approval Years:	2009
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	211
Waste Class Name:	AROMATIC SOLVENTS
Waste Class:	114
Waste Class Name:	OTHER INORGANIC ACID WASTES
Waste Class:	146
Waste Class Name:	OTHER SPECIFIED INORGANICS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	241
Waste Class Name:	HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	10 of 17	E/82.5	130.8 / -6.04	ALS Canada Ltd 5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	GEN

Generator No: ON6381922
SIC Code: 541380
SIC Description: Testing Laboratories
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 114
Waste Class Name: OTHER INORGANIC ACID WASTES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	11 of 17	E/82.5	130.8 / -6.04	ALS Canada Ltd 5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	GEN

Generator No: ON6381922
SIC Code: 541380
SIC Description: Testing Laboratories
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 114
Waste Class Name: OTHER INORGANIC ACID WASTES

---

42 | **12 of 17** | **E/82.5** | **130.8 / -6.04** | **ALS Canada Ltd**
5420 Mainway Drive Unit #5
Burlington ON L7L 6A4 | **GEN**

Generator No: ON6381922
SIC Code: 541380
SIC Description: Testing Laboratories
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 114
Waste Class Name: OTHER INORGANIC ACID WASTES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

---

42 | **13 of 17** | **E/82.5** | **130.8 / -6.04** | **ALS Canada Ltd**
5420 Mainway Drive Unit #5
Burlington ON | **GEN**

Generator No: ON6381922
SIC Code: 541380
SIC Description: TESTING LABORATORIES
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 241

Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 114
Waste Class Name: OTHER INORGANIC ACID WASTES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

---

42 **14 of 17** **E/82.5** **130.8 / -6.04** **ALS Canada Ltd.**
5420 Mainway Drive, Unit 5 & 6
Burlington ON L7L 6A4 **ECA**

Approval No: 9482-6HXMRA
Approval Date: 2005-11-08
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-AIR
Project Type: AIR
Business Name: ALS Canada Ltd.
Address: 5420 Mainway Drive, Unit 5 & 6
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8279-6BVKVQ-14.pdf
PDF Site Location:

MOE District: Halton-Peel
City:
Longitude: -79.76867
Latitude: 43.398685
Geometry X:
Geometry Y:

---

42 **15 of 17** **E/82.5** **130.8 / -6.04** **ALS Canada Ltd.**
5420 Mainway Dr
Burlington ON L7L 6A4 **ECA**

Approval No: 9163-8DMQFN
Approval Date: 2011-01-31
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-AIR
Project Type: AIR
Business Name: ALS Canada Ltd.
Address: 5420 Mainway Dr
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0287-86VK9H-14.pdf
PDF Site Location:

MOE District: Halton-Peel
City:
Longitude: -79.76867
Latitude: 43.398685
Geometry X:
Geometry Y:

---

42 **16 of 17** **E/82.5** **130.8 / -6.04** **ALS Canada Ltd**
5420 Mainway Unit #1
Burlington ON L7L 6A4 **GEN**

Generator No: ON6381922

SIC Code:	541380
SIC Description:	TESTING LABORATORIES
Approval Years:	2015
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Alastair Blythe
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	905-331-3111 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	146
Waste Class Name:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	114
Waste Class Name:	OTHER INORGANIC ACID WASTES
Waste Class:	211
Waste Class Name:	AROMATIC SOLVENTS
Waste Class:	241
Waste Class Name:	HALOGENATED SOLVENTS
Waste Class:	312
Waste Class Name:	PATHOLOGICAL WASTES
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	17 of 17	E/82.5	130.8 / -6.04	**ALS Canada Ltd** **5420 Mainway Unit #1** **Burlington ON L7L 6A4**	GEN

Generator No:	ON6381922
SIC Code:	541380
SIC Description:	TESTING LABORATORIES
Approval Years:	2014
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Alastair Blythe
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	905-331-3111 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	114
Waste Class Name:	OTHER INORGANIC ACID WASTES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

---

43 | **1 of 1** | **N/82.5** | **144.2 / 7.38** | **SOUTH WEST INTERSECTION OF BURLOAK & UPPER MIDDLE Burlington ON** | **WWIS**

Well ID:	7105631	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Other	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	05/26/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z60545	**Contractor:**	6607
Tag:	A062359	**Form Version:**	4
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7105631.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/17/2008
Year Completed: 2008
Depth (m): 10.6
Latitude: 43.4078449756262
Longitude: -79.7746570275433
X: -79.7746568785939
Y: 43.407844973946915
Path: 710\7105631.pdf

Bore Hole Information

Bore Hole ID:	1001600904	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599213.00
Code OB Desc:		**North83:**	4806836.00

Open Hole:
Cluster Kind:
Date Completed: 03/17/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1001724265
Layer: 2
Color: 6
General Color: BROWN
Material 1:
Material 1 Desc:
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.2000000476837158
Formation End Depth:
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001724266
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth:
Formation End Depth: 10.600000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001724267
Layer: 4
Color: 6
General Color: BROWN
Material 1:
Material 1 Desc:
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 10.600000381469727
Formation End Depth:
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID:	1001724264
Layer:	1
Color:	7
General Color:	RED
Material 1:	06
Material 1 Desc:	SILT
Material 2:	28
Material 2 Desc:	SAND
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.2000000476837158
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001724269
Layer:	1
Plug From:	0.0
Plug To:	1.399999976158142
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001724271
Layer:	3
Plug From:	7.900000095367432
Plug To:	9.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001724270
Layer:	2
Plug From:	3.0
Plug To:	4.400000095367432
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1001724276
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	BORING

Pipe Information

Pipe ID:	1001724263
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID: 1001724273
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.5
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1001724274
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1001724272
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 2.799999952316284
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001724268
Diameter: 21.0
Depth From:
Depth To: 10.600000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

---

44 | ***1 of 1*** | ***ESE/84.8*** | ***130.1 / -6.73*** | ***John Lucas Drive & Sutton Drive lot 1 con 2 Burlington ON*** | ***WWIS***

Well ID: 7405082
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 3OLG3SD8
Tag: A334218
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 11/30/2021
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7472
Form Version: 9
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Municipality: BURLINGTON CITY
Site Info:

Additional Detail(s) (Map)

Bore Hole ID:	1008873228	***Tag No:***	A334218
Depth M:	7.62	***Contractor:***	7472
Year Completed:	2021	***Latitude:***	43.3983807972875
Well Completed Dt:	10/29/2021	***Longitude:***	-79.7678955274888
Audit No:	3OLG3SD8	***Y:***	43.398380794432185
Path:		***X:***	-79.7678953783099

Bore Hole Information

Bore Hole ID:	1008873228	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599776.00
Code OB Desc:		***North83:***	4805793.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/29/2021	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1008873353
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 06
Material 2 Desc: SILT
Material 3: 79
Material 3 Desc: PACKED
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008873354
Layer: 2
Color: 2
General Color: GREY
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 73
Material 3 Desc: HARD
Formation Top Depth: 5.0

Formation End Depth: 25.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008873481
Layer: 2
Plug From: 14.0
Plug To: 25.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008873442
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008873480
Layer: 1
Plug From: 0.0
Plug To: 14.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008873303
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1008873273
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008873375
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 15.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1008873395

Layer:	1
Slot:	10
Screen Top Depth:	15.0
Screen End Depth:	25.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.5

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008873274
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1008873422
Diameter:	7.5
Depth From:	0.0
Depth To:	25.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

45	1 of 1	N/84.9	144.8 / 8.00	NW CORNER OF UPPER MIDDLE & BURLOAK lot 1 Burlington ON	WWIS

Well ID:	7108932	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	07/31/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z60564	**Contractor:**	6607
Tag:	A062378	**Form Version:**	4
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7108932.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/24/2008
Year Completed: 2008
Depth (m): 10.6
Latitude: 43.4078282962921
Longitude: -79.7739410337808
X: -79.77394088471033
Y: 43.40782829389292
Path: 710\7108932.pdf

Bore Hole Information

Bore Hole ID: 1001703544
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 03/24/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599271.00
North83: 4806835.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1001727891
Layer: 1
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.600000023841858
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001727892
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 15
Material 3 Desc: LIMESTONE

Formation Top Depth: 1.600000023841858
Formation End Depth: 10.600000381469727
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001727895
Layer: 2
Plug From: 3.0
Plug To: 4.400000095367432
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001727894
Layer: 1
Plug From: 0.0
Plug To: 1.5
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001727896
Layer: 3
Plug From: 7.900000095367432
Plug To: 9.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1001727901
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction: BORING

Pipe Information

Pipe ID: 1001727890
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001727898
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 9.0
Casing Diameter: 2.5
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1001727899
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1001727897
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 3.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001727893
Diameter: 21.959999084472656
Depth From:
Depth To: 10.600000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

---

46 **1 of 1** **WSW/85.0** **135.8 / -1.00** **Walker Environmental Group Inc.**
5030 Mainway
Burlington ON L7L 5Z1
WDS

Approval No: A210114
Mob Unit Cert No:
EBR Registry No:
Status: Approved
Facility Type:
Record Type:
Link Source:
Project Type:
Application Status:
Issue Date: 2/6/15
Input Date:
Date Received:
Est Closure Date:
Mobile Capacity:
Mobile Units:
Mobile Description:
Prop City:
Prop Postal:
Prop Phone:
Serial Link:
Approval Type:
Proponent:
Prop Address:
Proponent County/District:
Full Address: Norjohn Transfer Station 5030 Mainway, U nits 10 & 11 Burlington City, Regional Municipality OfaHlton L7L 5Z1
Site Lot:
Waste Class Code:
Waste Class:
Waste Type:

Total Area (ha):
Landfill Cap (m³):
Transfer Area (ha):
Transfer Cap (m³):
Transfer Cert No:
Inciner. Area (ha):
Inciner. Cap (t):
Process Area (m³):
Process Cap (m³/d):
Process Vol (m³):
Process Feed (m³):
Site Concession:
Site Region/County: Burlington
SWP Area Name:
MOE District:
District Office:
Latitude: 43.39472222222222086429610499180853366851806640625
Longitude: -79.78527777777777885148680070415139198303222656 25
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL:
PDF Site Location:

---

47 | ***1 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***MCorp Technologies, Inc.***
5150 Mainway Unit 2
Burlington ON L7L 5Z1 | ***SCT***

Established: 01-JUN-02
Plant Size (ft²):
Employment:

--Details--
Description: Plastic Bottle Manufacturing
SIC/NAICS Code: 326160

Description: Plastic Bottle Manufacturing
SIC/NAICS Code: 326160

---

47 | ***2 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***Mcorp Technologies Inc.***
5150 Mainway Drive Unit 2
Burlington ON | ***GEN***

Generator No: ON8701718
SIC Code: 326160
SIC Description: PLASTIC BOTTLE MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

47 | ***3 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***MTI Preforms Limited***
5150 Mainway Unit 2
Burlington ON L7L 5Z1 | ***SCT***

Established:
Plant Size (ft²):
Employment:

--Details--
Description: All Other Plastic Product Manufacturing

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC/NAICS Code: 326198

Description: Plastic Bottle Manufacturing
SIC/NAICS Code: 326160

Description: Metal Can Manufacturing
SIC/NAICS Code: 332431

Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	4 of 23	SSE/86.0	130.8 / -6.00	Mcorp Technologies Inc. 5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	GEN

Generator No: ON8701718
SIC Code: 326160
SIC Description: Plastic Bottle Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	5 of 23	SSE/86.0	130.8 / -6.00	Mcorp Technologies Inc. 5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	GEN

Generator No: ON8701718
SIC Code: 326160
SIC Description: Plastic Bottle Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	6 of 23	SSE/86.0	130.8 / -6.00	Mcorp Technologies Inc. 5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	GEN

Generator No: ON8701718
SIC Code: 326160

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Description: Plastic Bottle Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

47	7 of 23	SSE/86.0	130.8 / -6.00	**Mcorp Technologies Inc.** **5150 Mainway Drive Unit 2** **Burlington ON L7L 5Z1**	GEN

Generator No: ON8701718
SIC Code: 326160
SIC Description: Plastic Bottle Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

47	8 of 23	SSE/86.0	130.8 / -6.00	**Rowhedge Construction Limited** **5150 Mainway Drive** **Burlington ON**	GEN

Generator No: ON2840030
SIC Code: 236210
SIC Description: Industrial Building and Structure Construction
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

47	9 of 23	SSE/86.0	130.8 / -6.00	**Ductmate Canada Limited** **1-5150 Mainway** **Burlington ON**	GEN

Generator No: ON7211771
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 265
Waste Class Name: GRAPHIC ART WASTES

47	10 of 23	SSE/86.0	130.8 / -6.00	**Rowhedge Construction Limited** **5150 Mainway Drive** **Burlington ON**	GEN

Generator No: ON2840030
SIC Code: 236210
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

47	11 of 23	SSE/86.0	130.8 / -6.00	**Mcorp Technologies Inc.** **5150 Mainway Drive Unit 2** **Burlington ON L7L 5Z1**	GEN

Generator No: ON8701718
SIC Code: 326160
SIC Description: PLASTIC BOTTLE MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Elias El-Hajar
Choice of Contact: CO_ADMIN
Phone No Admin: 905-319-2441 Ext.224
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

47	12 of 23	SSE/86.0	130.8 / -6.00	**Rowhedge Construction Limited** **5150 Mainway Drive**	GEN

Burlington ON L7L 5Z1

Generator No: ON2840030
SIC Code: 236210
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Daron McGregor
Choice of Contact: CO_ADMIN
Phone No Admin: 905-849-1360 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

47 | ***13 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***Mcorp Technologies Inc.*** ***5150 Mainway Drive Unit 2*** ***Burlington ON L7L 5Z1*** | ***GEN***

Generator No: ON8701718
SIC Code: 326160
SIC Description: PLASTIC BOTTLE MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Elias El-Hajar
Choice of Contact: CO_ADMIN
Phone No Admin: 905-319-2441 Ext.224
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

47 | ***14 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***Rowhedge Construction Limited*** ***5150 Mainway Drive*** ***Burlington ON L7L 5Z1*** | ***GEN***

Generator No: ON2840030
SIC Code: 236210
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Daron McGregor
Choice of Contact: CO_ADMIN
Phone No Admin: 905-849-1360 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		251			
Waste Class Name:		OIL SKIMMINGS & SLUDGES			

47	15 of 23	SSE/86.0	130.8 / -6.00	**Rowhedge Construction Limited** **5150 Mainway Drive** **Burlington ON L7L 5Z1**	GEN

Generator No: ON2840030
SIC Code: 236210
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Daron McGregor
Choice of Contact: CO_ADMIN
Phone No Admin: 905-849-1360 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

47	16 of 23	SSE/86.0	130.8 / -6.00	**Mcorp Technologies Inc.** **5150 Mainway Drive Unit 2** **Burlington ON L7L 5Z1**	GEN

Generator No: ON8701718
SIC Code: 326160
SIC Description: PLASTIC BOTTLE MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

47	17 of 23	SSE/86.0	130.8 / -6.00	**Mcorp Technologies Inc.** **5150 Mainway Drive Unit 2** **Burlington ON L7L 5Z1**	GEN

Generator No: ON8701718
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 253 L
Waste Class Name: Emulsified oils

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

---

47 | ***18 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***Rowhedge Construction Limited***
5150 Mainway Drive
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON2840030
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 D
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

47 | ***19 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***WENTWORTH TECH INC.***
5150 MAINWAY
BURLINGTON ON L7L 5Z1 | ***EASR***

Approval No: R-010-7110233496
Status: REGISTERED
Date: 2017-09-15
Record Type: EASR
Link Source: MOFA
Project Type: Air Emissions
Full Address:
Approval Type: EASR-Air Emissions
SWP Area Name: Halton
PDF NAICS Code: 326160
PDF URL:
PDF Site Location:

MOE District: Halton-Peel
Municipality: BURLINGTON
Latitude: 43.39305556
Longitude: -79.77388889
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	20 of 23	SSE/86.0	130.8 / -6.00	Rowhedge Construction Limited 5150 Mainway Drive Burlington ON L7L 5Z1	GEN

Generator No: ON2840030
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 D
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	21 of 23	SSE/86.0	130.8 / -6.00	Irco Automation Inc. Irco Automation Inc. 5150 Mainway, Unit #2 Burlington ON L7L 5Z1	GEN

Generator No: ON2915663
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 H
Waste Class Name: Wastes from the use of pigments, coatings and paints

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	22 of 23	SSE/86.0	130.8 / -6.00	Irco Automation Inc. Irco Automation Inc. 5150 Mainway, Unit #2 Burlington ON L7L 5Z1	GEN

Generator No: ON2915663
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 145 H
Waste Class Name: Wastes from the use of pigments, coatings and paints

---

47 | ***23 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***Irco Automation Inc. Irco Automation Inc.***
5150 Mainway, Unit #2
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON2915663
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 H
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

---

48 | ***1 of 21*** | ***SSE/87.2*** | ***130.8 / -6.00*** | ***CPC Pumps International Ltd.***
5200 Mainway
Burlington ON L7L 5Z1 | ***SCT***

Established: 01-JUL-58
Plant Size (ft²): 40000
Employment:

--Details--
Description: Pump and Compressor Manufacturing
SIC/NAICS Code: 333910

Description: Pump and Compressor Manufacturing
SIC/NAICS Code: 333910

---

48 | ***2 of 21*** | ***SSE/87.2*** | ***130.8 / -6.00*** | ***CPC PUMPS INTERNATIONAL***
5200 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON5405870
SIC Code: 332710
SIC Description: Machine Shops
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

---

48 | ***3 of 21*** | ***SSE/87.2*** | ***130.8 / -6.00*** | ***CPC PUMPS INTERNATIONAL***
5200 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON5405870
SIC Code: 332710
SIC Description: Machine Shops
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

48 | ***4 of 21*** | ***SSE/87.2*** | ***130.8 / -6.00*** | ***CPC PUMPS INTERNATIONAL***
5200 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON5405870
SIC Code: 332710

SIC Description: Machine Shops
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

48	***5 of 21***	***SSE/87.2***	***130.8 / -6.00***	***Melrose Investments Inc*** ***5200 Mainway Drive*** ***Burlington ON***	***GEN***

Generator No: ON7185369
SIC Code: 236210
SIC Description: Industrial Building and Structure Construction
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

48	***6 of 21***	***SSE/87.2***	***130.8 / -6.00***	***CPC PUMPS INTERNATIONAL*** ***5200 Mainway*** ***Burlington ON L7L 5Z1***	***GEN***

Generator No: ON5405870
SIC Code: 332710
SIC Description: Machine Shops
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

MHSW Facility:

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
48	7 of 21	SSE/87.2	130.8 / -6.00	5200 Mainway Drive Burlington ON	EHS

Order No: 20140514040
Status: C
Report Type: Custom Report
Report Date: 27-MAY-14
Date Received: 14-MAY-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.773328
Y: 43.393528

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
48	8 of 21	SSE/87.2	130.8 / -6.00	CPC PUMPS INTERNATIONAL 5200 Mainway Burlington ON	GEN

Generator No: ON5405870
SIC Code: 332710
SIC Description: MACHINE SHOPS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 221
Waste Class Name: LIGHT FUELS

48	9 of 21	SSE/87.2	130.8 / -6.00	Melrose Investments Inc 5200 Mainway Drive Burlington ON	GEN

Generator No: ON7185369
SIC Code: 236210
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

48	10 of 21	SSE/87.2	130.8 / -6.00	Melrose Investments Inc 5200 Mainway Drive Burlington ON L7L 5Z1	GEN

Generator No: ON7185369
SIC Code: 236210
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Daron McGregor
Choice of Contact: CO_ADMIN
Phone No Admin: 905-849-1360 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

48	11 of 21	SSE/87.2	130.8 / -6.00	CPC PUMPS INTERNATIONAL 5200 Mainway Burlington ON L7L 5Z1	GEN

Generator No: ON5405870
SIC Code: 332710

SIC Description:	MACHINE SHOPS
Approval Years:	2015
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Villa Quicho
Choice of Contact:	CO_ADMIN
Phone No Admin:	289 288 4753 Ext.226
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	213
Waste Class Name:	PETROLEUM DISTILLATES
Waste Class:	122
Waste Class Name:	ALKALINE WASTES - OTHER METALS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES
Waste Class:	221
Waste Class Name:	LIGHT FUELS
Waste Class:	253
Waste Class Name:	EMULSIFIED OILS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
48	12 of 21	SSE/87.2	130.8 / -6.00	***Melrose Investments Inc*** ***5200 Mainway Drive*** ***Burlington ON L7L 5Z1***	GEN

Generator No:	ON7185369
SIC Code:	236210
SIC Description:	INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years:	2015
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Daron McGregor
Choice of Contact:	CO_ADMIN
Phone No Admin:	905-849-1360 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	251
Waste Class Name:	OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
48	13 of 21	SSE/87.2	130.8 / -6.00	***Melrose Investments Inc*** ***5200 Mainway Drive*** ***Burlington ON L7L 5Z1***	GEN

Generator No:	ON7185369
SIC Code:	236210
SIC Description:	INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION

Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Daron McGregor
Choice of Contact: CO_ADMIN
Phone No Admin: 905-849-1360 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

48 | ***14 of 21*** | ***SSE/87.2*** | ***130.8 / -6.00*** | ***CPC PUMPS INTERNATIONAL*** ***5200 Mainway*** ***Burlington ON L7L 5Z1*** | ***GEN***

Generator No: ON5405870
SIC Code: 332710
SIC Description: MACHINE SHOPS
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Villa Quicho
Choice of Contact: CO_ADMIN
Phone No Admin: 289 288 4753 Ext.226
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

48 | ***15 of 21*** | ***SSE/87.2*** | ***130.8 / -6.00*** | ***CPC PUMPS INTERNATIONAL*** ***5200 Mainway*** ***Burlington ON L7L 5Z1*** | ***GEN***

Generator No: ON5405870
SIC Code:
SIC Description:
Approval Years: As of Dec 2018

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 253 L
Waste Class Name: Emulsified oils

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

48	***16 of 21***	***SSE/87.2***	***130.8 / -6.00***	***Melrose Investments Inc*** ***5200 Mainway Drive*** ***Burlington ON L7L 5Z1***	***GEN***

Generator No: ON7185369
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

48	***17 of 21***	***SSE/87.2***	***130.8 / -6.00***	***CPC PUMPS INTERNATIONAL*** ***5200 Mainway*** ***Burlington ON L7L 5Z1***	***GEN***

Generator No: ON5405870
SIC Code: 332710
SIC Description: MACHINE SHOPS
Approval Years: 2016
PO Box No:

Country:	Canada
Status:	
Co Admin:	Villa Quicho
Choice of Contact:	CO_ADMIN
Phone No Admin:	289 288 4753 Ext.226
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	122
Waste Class Name:	ALKALINE WASTES - OTHER METALS
Waste Class:	253
Waste Class Name:	EMULSIFIED OILS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	221
Waste Class Name:	LIGHT FUELS
Waste Class:	213
Waste Class Name:	PETROLEUM DISTILLATES
Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES

48	**18 of 21**	**SSE/87.2**	**130.8 / -6.00**	**CPC PUMPS INTERNATIONAL** **5200 Mainway** **Burlington ON L7L 5Z1**	**GEN**

Generator No:	ON5405870
SIC Code:	
SIC Description:	
Approval Years:	As of Jul 2020
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	252 L
Waste Class Name:	Waste crankcase oils and lubricants
Waste Class:	221 I
Waste Class Name:	Light fuels
Waste Class:	145 I
Waste Class Name:	Wastes from the use of pigments, coatings and paints
Waste Class:	331 I
Waste Class Name:	Waste compressed gases including cylinders
Waste Class:	253 L

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: Emulsified oils

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

---

48 | **19 of 21** | **SSE/87.2** | **130.8 / -6.00** | **Melrose Investments Inc**
5200 Mainway Drive
Burlington ON L7L 5Z1 | **GEN**

Generator No: ON7185369
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

48 | **20 of 21** | **SSE/87.2** | **130.8 / -6.00** | **CPC PUMPS INTERNATIONAL**
5200 Mainway
Burlington ON L7L 5Z1 | **GEN**

Generator No: ON5405870
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 253 L
Waste Class Name: Emulsified oils

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

48	21 of 21	SSE/87.2	130.8 / -6.00	CPC PUMPS INTERNATIONAL 5200 Mainway Burlington ON L7L 5Z1	GEN

Generator No: ON5405870
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 221 I
Waste Class Name: LIGHT FUELS

Waste Class: 253 L
Waste Class Name: EMULSIFIED OILS

Waste Class: 122 L
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

49	1 of 5	E/90.2	130.0 / -6.82	DIE-X-LIMITED 5540 MAINWAY DR BURLINGTON ON L7L 6C4	SCT

Established: 1988
Plant Size (ft²): 7000
Employment: 12

--Details--
Description: SPECIAL DIES & TOOLS & INDUSTRIAL MOLDS
SIC/NAICS Code: 3544

49	2 of 5	E/90.2	130.0 / -6.82	AUTOMATED FLUID POWER 5540 Mainway Dr Unit 1-2	SCT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Burlington ON L7L 6C4	

Established: 1981
Plant Size (ft²): 5000
Employment: 17

--Details--
Description: Other Ornamental and Architectural Metal Products Manufacturing
SIC/NAICS Code: 332329

Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

49	3 of 5	E/90.2	130.0 / -6.82	**Automated Fluid Power & Control Inc.** **5540 Mainway Dr Unit 1-2** **Burlington ON L7L 6C4**	SCT

Established: 1981
Plant Size (ft²): 5000
Employment: 17

--Details--
Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

49	4 of 5	E/90.2	130.0 / -6.82	**Automated Fluid Power** **5540 Mainway** **Burlington ON L7L 6C4**	SCT

Established: 1981
Plant Size (ft²): 15000
Employment:

--Details--
Description: Other Ornamental and Architectural Metal Product Manufacturing
SIC/NAICS Code: 332329

Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
49	5 of 5	E/90.2	130.0 / -6.82	Deloitte & Touche Inc. 5540 Mainway Burlington ON L7L 6C4	GEN

Generator No: ON4718969
SIC Code: 522329
SIC Description: Other Financial Transactions Processing and Clearing House Activities
Approval Years: 07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
50	1 of 16	SSE/91.2	130.9 / -5.97	Invitrogen Canada 5250 Mainway Burlington ON L7L 5Z1	GEN

Generator No: ON9232081
SIC Code: 541990
SIC Description: All Other Professional Scientific and Technical Services
Approval Years: 07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
50	2 of 16	SSE/91.2	130.9 / -5.97	Invitrogen Canada 5250 Mainway Burlington ON L7L 5Z1	GEN

Generator No: ON9232081
SIC Code: 541990

SIC Description: All Other Professional Scientific and Technical Services
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

50 | ***3 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Invitrogen Canada***
5250 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON9232081
SIC Code: 541990
SIC Description: All Other Professional Scientific and Technical Services
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

50 | ***4 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Life Technologies Inc***
5250 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON9232081
SIC Code: 541990
SIC Description: All Other Professional Scientific and Technical Services
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:

Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

---

50 | ***5 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Life Technologies Inc***
5250 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON9232081
SIC Code: 541990
SIC Description: All Other Professional Scientific and Technical Services
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

---

50 | ***6 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Life Technologies Inc***
5250 Mainway
Burlington ON | ***GEN***

Generator No: ON9232081
SIC Code: 541990
SIC Description: ALL OTHER PROFESSIONAL, SCIENTIFIC AND TECHNICAL SERVICES
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

50 | **7 of 16** | **SSE/91.2** | **130.9 / -5.97** | **Life Technologies Inc**
5250 Mainway
Burlington ON L7L 5Z1 | **GEN**

Generator No: ON9232081
SIC Code: 541990
SIC Description: ALL OTHER PROFESSIONAL, SCIENTIFIC AND TECHNICAL SERVICES
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Tracey L Arsenault
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-335-2255 Ext.41867
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

---

50 | **8 of 16** | **SSE/91.2** | **130.9 / -5.97** | **Life Technologies Inc**
5250 Mainway
Burlington ON L7L 5Z1 | **GEN**

Generator No: ON9232081
SIC Code: 541990
SIC Description: ALL OTHER PROFESSIONAL, SCIENTIFIC AND TECHNICAL SERVICES
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Tracey L Arsenault
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-335-2255 Ext.41867
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 148

Waste Class Name: INORGANIC LABORATORY CHEMICALS

---

50 | ***9 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Life Technologies Inc*** | ***GEN***
5250 Mainway
Burlington ON L7L 5Z1

Generator No: ON9232081
SIC Code: 541990
SIC Description: ALL OTHER PROFESSIONAL, SCIENTIFIC AND TECHNICAL SERVICES
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Tammie L Gaines
Choice of Contact: CO_ADMIN
Phone No Admin: 905-335-2255 Ext.41767
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

---

50 | ***10 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Melrose Investments Inc.*** | ***GEN***
5250 Mainway Drive
Burlington ON L7L 5Z1

Generator No: ON4430544
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

50 | ***11 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Thermo Fisher Scientific*** | ***GEN***
5250 Mainway
Burlington ON L7L 5Z1

Generator No: ON2694847
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 C
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

---

50 | ***12 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***5250 Mainway Burlington ON L7L 5Z1*** | ***EHS***

Order No: 20181210086
Status: C
Report Type: Custom Report
Report Date: 18-DEC-18
Date Received: 10-DEC-18
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.771942
Y: 43.394697

---

50 | ***13 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Thermo Fisher Scientific 5250 Mainway Burlington ON L7L 5Z1*** | ***GEN***

Generator No: ON2694847
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 148 L
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 263 C
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

50	*14 of 16*	*SSE/91.2*	*130.9 / -5.97*	***Melrose Investments Inc.*** ***5250 Mainway Drive*** ***Burlington ON L7L 5Z1***	***GEN***

Generator No: ON4430544
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

50	*15 of 16*	*SSE/91.2*	*130.9 / -5.97*	***Thermo Fisher Scientific*** ***5250 Mainway*** ***Burlington ON L7L 5Z1***	***GEN***

Generator No: ON2694847
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:

MHSW Facility:

Detail(s)

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 263 C
Waste Class Name: Misc. waste organic chemicals

---

50 | ***16 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Thermo Fisher Scientific***
5250 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON2694847
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 L
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 148 L
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 I
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 263 B

Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 C
Waste Class Name: ORGANIC LABORATORY CHEMICALS

---

51 | **1 of 1** | **NNE/91.6** | **144.8 / 8.00** | **lot 35 con 2 ON** | **WWIS**

Well ID:	2802408	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	04/19/1961
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	4602
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	035
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2802408.pdf

Additional Detail(s) (Map)

Well Completed Date:	03/21/1961
Year Completed:	1961
Depth (m):	13.4112
Latitude:	43.4075613130764
Longitude:	-79.7725557573522
X:	-79.77255560754693
Y:	43.40756131041381
Path:	280\2802408.pdf

Bore Hole Information

Bore Hole ID:	10148958	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599383.60
Code OB Desc:		**North83:**	4806807.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	03/21/1961	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Location Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931428462
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	44.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931428461
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	962802408
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10697528
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930253480
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	11.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930253481
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	44.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	992802408
Pump Set At:	
Static Level:	26.0
Final Level After Pumping:	43.0
Recommended Pump Depth:	43.0
Pumping Rate:	3.0
Flowing Rate:	
Recommended Pump Rate:	3.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933604478
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	43.0
Water Found Depth UOM:	ft

---

52 | ***1 of 1*** | ***NNE/93.4*** | ***145.0 / 8.14*** | ***lot 35 con 2 ON*** | ***WWIS***

Well ID:	2802407	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:	0	***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	01/07/1958
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:		***Contractor:***	1642
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	035
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	

Municipality: OAKVILLE TOWN
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2802407.pdf

Additional Detail(s) (Map)

Well Completed Date: 10/08/1957
Year Completed: 1957
Depth (m): 14.6304
Latitude: 43.4077647987767
Longitude: -79.7730580185587
X: -79.773057869818
Y: 43.40776479696061
Path: 280\2802407.pdf

Bore Hole Information

Bore Hole ID: 10148957
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/08/1957
Remarks:
Elevation:
Elevrc:
Zone: 17
East83: 599342.60
North83: 4806829.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: p9
Location Method Desc: Original Pre1985 UTM Rel Code 9: unknown UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931428459
Layer: 1
Color:
General Color:
Material 1: 23
Material 1 Desc: PREVIOUSLY DUG
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 19.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931428460
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:

Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 19.0
Formation End Depth: 48.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962802407
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10697527
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930253478
Layer: 1
Material:
Open Hole or Material:
Depth From:
Depth To: 19.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930253479
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 48.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 992802407
Pump Set At:
Static Level: 15.0
Final Level After Pumping: 35.0
Recommended Pump Depth:
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1

Pumping Duration HR: 0
Pumping Duration MIN: 15
Flowing: No

Water Details

Water ID: 933604477
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 45.0
Water Found Depth UOM: ft

---

53 | **1 of 8** | **ESE/94.2** | **131.8 / -5.00** | **Konecranes Canada Inc.**
5300 Mainway
Burlington ON L7L6A4 | **GEN**

Generator No: ON6330556
SIC Code: 811310
SIC Description: COMMERCIAL AND INDUSTRIAL MACHINERY AND EQUIPMENT (EXCEPT AUTOMOTIVE AND ELECTRONIC) REPAIR AND MAINTENANCE
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Nick Seaton
Choice of Contact: CO_OFFICIAL
Phone No Admin: 9059794783 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

---

53 | **2 of 8** | **ESE/94.2** | **131.8 / -5.00** | **Konecranes Canada Inc.**
5300 Mainway
Burlington ON L7L6A4 | **GEN**

Generator No: ON6330556
SIC Code: 811310
SIC Description: COMMERCIAL AND INDUSTRIAL MACHINERY AND EQUIPMENT (EXCEPT AUTOMOTIVE AND ELECTRONIC) REPAIR AND MAINTENANCE
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Nick Seaton
Choice of Contact: CO_OFFICIAL
Phone No Admin: 9059794783 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

53 **3 of 8** **ESE/94.2** **131.8 / -5.00** **Konecranes Canada Inc.**
5300 Mainway
Burlington ON L7L6A4 **GEN**

Generator No: ON6330556
SIC Code: 811310
SIC Description: COMMERCIAL AND INDUSTRIAL MACHINERY AND EQUIPMENT (EXCEPT AUTOMOTIVE AND ELECTRONIC) REPAIR AND MAINTENANCE
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Nick Seaton
Choice of Contact: CO_OFFICIAL
Phone No Admin: 9059794783 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

---

53 **4 of 8** **ESE/94.2** **131.8 / -5.00** **Melrose Investments Inc.**
5300 Mainway
Burlington ON L7L 5Z1 **GEN**

Generator No: ON6924680
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

53 **5 of 8** **ESE/94.2** **131.8 / -5.00** **Konecranes Canada Inc. Burlington**
5300 Mainway
Burlington ON L7L6A4 **GEN**

Generator No: ON6330556
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 T
Waste Class Name: Petroleum distillates

---

53 | ***6 of 8*** | ***ESE/94.2*** | ***131.8 / -5.00*** | ***Melrose Investments Inc.***
5300 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON6924680
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

53 | ***7 of 8*** | ***ESE/94.2*** | ***131.8 / -5.00*** | ***Konecranes Canada Inc. Burlington***
5300 Mainway
Burlington ON L7L6A4 | ***GEN***

Generator No: ON6330556
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 213 T
Waste Class Name: Petroleum distillates

---

53 | ***8 of 8*** | ***ESE/94.2*** | ***131.8 / -5.00*** | ***Konecranes Canada Inc. Burlington***
5300 Mainway
Burlington ON L7L6A4 | ***GEN***

Generator No: ON6330556
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 213 T
Waste Class Name: PETROLEUM DISTILLATES

---

54 | **1 of 1** | **N/99.1** | **144.6 / 7.76** | **OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON** | **WWIS**

Well ID: 7197924
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z164007
Tag: A142211
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03/04/2013
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7403
Form Version: 7
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197924.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 10.6
Latitude: 43.4079857052584
Longitude: -79.7743454265464
X: -79.77434527826125
Y: 43.407985702898735
Path: 719\7197924.pdf

Bore Hole Information

Bore Hole ID: 1004259177
Elevation:

DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599238.00
Code OB Desc:		**North83:**	4806852.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/30/2012	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004776920
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.5
Formation End Depth:	10.600000381469727
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004776918
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004776919
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	92
Material 3 Desc:	WEATHERED

Formation Top Depth: 1.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776929
Layer: 2
Plug From: 1.0
Plug To: 8.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776928
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004776927
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004776917
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004776924
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.699999988079071
Depth To: 8.600000381469727
Casing Diameter: 1.25
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004776925
Layer: 1
Slot: 10
Screen Top Depth: 8.600000381469727
Screen End Depth: 10.600000381469727
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 1.5

Water Details

Water ID:	1004776923
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	5.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004776921
Diameter:	6.0
Depth From:	0.0
Depth To:	10.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1004776922
Diameter:	4.0
Depth From:	10.0
Depth To:	35.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

55 ***1 of 1*** ***SSE/99.4*** ***130.8 / -6.00*** ***lot 3 con 2 ON*** ***WWIS***

Well ID:	7382370	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	03/12/2021
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	C27554	***Contractor:***	7675
Tag:	A309249	***Form Version:***	8
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008649920	***Tag No:***	A309249
Depth M:		***Contractor:***	7675
Year Completed:	2021	***Latitude:***	43.3942861751129
Well Completed Dt:	02/26/2021	***Longitude:***	-79.7723002159454
Audit No:	C27554	***Y:***	43.394286172829425
Path:		***X:***	-79.77230006684049

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Bore Hole ID: 1008649920
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 02/26/2021
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599426.00
North83: 4805333.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

---

56 | **1 of 1** | **N/100.0** | **144.2 / 7.33** | **OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON** | **WWIS**

Well ID: 7197928
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z128903
Tag: A121099
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03/04/2013
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7403
Form Version: 7
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197928.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 0.9144
Latitude: 43.407994972351
Longitude: -79.7743699407681
X: -79.77436979148014
Y: 43.40799496991707
Path: 719\7197928.pdf

Bore Hole Information

Bore Hole ID: 1004259189
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:

Elevation:
Elevrc:
Zone: 17
East83: 599236.00
North83: 4806853.00

Open Hole:
Cluster Kind:
Date Completed: 11/30/2012
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004777008
Layer: 1
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1004777009
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 92
Material 3 Desc: WEATHERED
Formation Top Depth: 1.0
Formation End Depth: 1.5
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1004777010
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 3.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004777018
Layer:	2
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004777017
Layer:	1
Plug From:	1.0
Plug To:	6.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1004777016
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	SONIC

Pipe Information

Pipe ID:	1004777007
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004777013
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	2.5
Depth To:	3.0
Casing Diameter:	1.25
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1004777014
Layer:	1
Slot:	10
Screen Top Depth:	3.0
Screen End Depth:	10.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	1.5

Water Details

Water ID:	1004777012

Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 5.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1004777011
Diameter: 15.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

---

57 | **1 of 1** | **N/100.1** | **144.6 / 7.76** | **OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON** | **WWIS**

Well ID: 7197927
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z128904
Tag: A121101
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03/04/2013
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7403
Form Version: 7
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197927.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 7.8
Latitude: 43.4079947076404
Longitude: -79.7743452450029
X: -79.77434509590252
Y: 43.40799470561015
Path: 719\7197927.pdf

Bore Hole Information

Bore Hole ID: 1004259186
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:

Elevation:
Elevrc:
Zone: 17
East83: 599238.00
North83: 4806853.00
Org CS: UTM83
UTMRC: 4

Date Completed: 11/30/2012
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004776996
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 92
Material 3 Desc: WEATHERED
Formation Top Depth: 1.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004776997
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 7.800000190734863
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004776995
Layer: 1
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: m

Annular Space/Abandonment

Sealing Record

Plug ID:	1004777005
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004777006
Layer:	2
Plug From:	1.0
Plug To:	9.0
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1004777004
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	SONIC

Pipe Information

Pipe ID:	1004776994
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004777001
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	2.5
Depth To:	16.0
Casing Diameter:	1.25
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1004777002
Layer:	1
Slot:	10
Screen Top Depth:	16.0
Screen End Depth:	25.5
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	1.5

Water Details

Water ID:	1004777000
Layer:	1
Kind Code:	8

Kind: Untested
Water Found Depth: 5.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1004776999
Diameter: 4.0
Depth From: 10.0
Depth To: 25.5
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1004776998
Diameter: 6.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: m
Hole Diameter UOM: cm

---

58 | **1 of 1** | **N/102.1** | **144.6 / 7.76** | **OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON** | **WWIS**

Well ID:	7197923	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	03/04/2013
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z164008	**Contractor:**	7403
Tag:	A142210	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197923.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 13.6
Latitude: 43.4080127124043
Longitude: -79.7743448819157
X: -79.77434473298169
Y: 43.40801270972373
Path: 719\7197923.pdf

Bore Hole Information

Bore Hole ID:	1004259174	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599238.00
Code OB Desc:		**North83:**	4806855.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/30/2012	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004776893
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004776894
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	92
Material 3 Desc:	WEATHERED
Formation Top Depth:	1.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004776895
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	

Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 13.600000381469727
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776903
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776904
Layer: 2
Plug From: 0.30000001192092896
Plug To: 11.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004776902
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004776892
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004776899
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.6000000238418579
Depth To: 11.600000381469727
Casing Diameter: 1.25
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004776900
Layer: 1
Slot: 10
Screen Top Depth: 11.600000381469727
Screen End Depth: 13.600000381469727
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 1.5

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Water Details

Water ID:	1004776898
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	5.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004776897
Diameter:	15.0
Depth From:	10.0
Depth To:	10.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1004776896
Diameter:	10.0
Depth From:	10.0
Depth To:	45.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
59	*1 of 3*	*E/103.5*	*129.8 / -7.00*	***Noram Solutions*** ***5510 Mainway Dr*** ***Burlington ON L7L 6C4***	*SCT*

Established:	1979
Plant Size (ft²):	
Employment:	20

--Details--

Description:	Medical Equipment and Supplies Manufacturing
SIC/NAICS Code:	339110
Description:	Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code:	417930

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
59	*2 of 3*	*E/103.5*	*129.8 / -7.00*	***Noram Solutions*** ***5510 Mainway*** ***Burlington ON L7L 6C4***	*SCT*

Established:	1979
Plant Size (ft²):	
Employment:	20

--Details--

Description:	Medical Equipment and Supplies Manufacturing
SIC/NAICS Code:	339110
Description:	Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code:	417930

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
59	3 of 3	E/103.5	129.8 / -7.00	Barton Medical Canada Inc. 5510 Mainway Burlington ON L7L 6C4	SCT

Established: 1979
Plant Size (ft²):
Employment:

--Details--
Description: Medical Equipment and Supplies Manufacturing
SIC/NAICS Code: 339110

Description: Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417930

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
60	1 of 1	N/103.9	144.8 / 8.00	UPPER MIDDLE RD AND BURLOAD DR Burlington ON	WWIS

Well ID: 7114250
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z60572
Tag: A062502
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 10/31/2008
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 4
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114250.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/25/2008
Year Completed: 2008
Depth (m): 10.6
Latitude: 43.408009800234
Longitude: -79.7740732284399
X: -79.774073078933
Y: 43.40800979778032
Path: 711\7114250.pdf

Bore Hole Information

Bore Hole ID: 1001858185
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:

Elevation:
Elevrc:
Zone: 17
East83: 599260.00
North83: 4806855.00
Org CS: UTM83
UTMRC: 3

Date Completed: 04/25/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1002546858
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth: 4.800000190734863
Formation End Depth: 10.600000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002546857
Layer: 1
Color: 6
General Color: BROWN
Material 1: 11
Material 1 Desc: GRAVEL
Material 2: 28
Material 2 Desc: SAND
Material 3: 77
Material 3 Desc: LOOSE
Formation Top Depth: 0.0
Formation End Depth: 4.800000190734863
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002546861
Layer: 2
Plug From: 3.200000047683716
Plug To: 6.699999809265137
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002546862
Layer: 3
Plug From: 8.600000381469727
Plug To: 9.399999618530273
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID:	1002546860
Layer:	1
Plug From:	0.0
Plug To:	1.2000000476837158
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1002546867
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	AUR CORING

Pipe Information

Pipe ID:	1002546856
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002546864
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	9.699999809265137
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002546865
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	
Screen Diameter UOM:	
Screen Diameter:	

Water Details

Water ID:	1002546863
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	1.7999999523162842
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1002546859
Diameter:	21.0

Depth From:	
Depth To:	10.600000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

61 | **1 of 1** | **N/104.4** | **143.8 / 6.97** | **OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON** | **WWIS**

Well ID:	7197930	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	03/04/2013
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z164009	**Contractor:**	7403
Tag:	A142212	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197930.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/30/2012
Year Completed:	2012
Depth (m):	15.2
Latitude:	43.4080409107077
Longitude:	-79.7744554683126
X:	-79.77445531914883
Y:	43.408040908853586
Path:	719\7197930.pdf

Bore Hole Information

Bore Hole ID:	1004259195	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599229.00
Code OB Desc:		**North83:**	4806858.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/30/2012	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004777050
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004777049
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004777051
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	74
Material 3 Desc:	LAYERED
Formation Top Depth:	1.5
Formation End Depth:	15.199999809265137
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004777061
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID: 1004777062
Layer: 2
Plug From: 0.30000001192092896
Plug To: 7.5
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004777060
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004777048
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004777056
Layer: 2
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.30000001192092896
Depth To: 25.5
Casing Diameter: 1.25
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1004777055
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.30000001192092896
Depth To: 25.5
Casing Diameter: 3.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004777058
Layer: 2
Slot: 10
Screen Top Depth: 25.5
Screen End Depth: 45.75
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 1.5

Construction Record - Screen

Screen ID: 1004777057

Layer:	1
Slot:	10
Screen Top Depth:	25.5
Screen End Depth:	45.75
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	3.5

Water Details

Water ID:	1004777054
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	5.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004777052
Diameter:	23.5
Depth From:	0.0
Depth To:	7.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1004777053
Diameter:	18.0
Depth From:	7.0
Depth To:	15.199999809265137
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

62 | ***1 of 1*** | ***SW/105.2*** | ***134.8 / -2.00*** | ***PALETTA INTERNATIONAL CORP.***
CREEK WAY/CORPORATE DR.
BURLINGTON ON | ***CA***

Certificate #:	7-0985-98-
Application Year:	98
Issue Date:	//
Approval Type:	Municipal water
Status:	In typing
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

---

63 | ***1 of 1*** | ***N/107.3*** | ***143.8 / 6.99*** | ***OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2***
BURLINGTON ON | ***WWIS***

Well ID:	7197929	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	

Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	03/04/2013
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z164010	**Contractor:**	7403
Tag:	A142205	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197929.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/30/2012
Year Completed:	2012
Depth (m):	7.5
Latitude:	43.4080680501988
Longitude:	-79.7744672716277
X:	-79.77446712300552
Y:	43.40806804748094
Path:	719\7197929.pdf

Bore Hole Information

Bore Hole ID:	1004259192	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599228.00
Code OB Desc:		**North83:**	4806861.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/30/2012	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004777020
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	

Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004777022
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.5
Formation End Depth:	7.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004777021
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	92
Material 3 Desc:	WEATHERED
Formation Top Depth:	1.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004777032
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004777033
Layer:	2
Plug From:	0.30000001192092896
Plug To:	4.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1004777031
Method Construction Code:	B
Method Construction:	Other Method

Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004777019
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004777026
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 16.5
Casing Diameter: 3.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1004777027
Layer: 2
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 16.5
Casing Diameter: 1.25
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004777028
Layer: 1
Slot: 10
Screen Top Depth: 16.5
Screen End Depth: 25.5
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 3.5

Construction Record - Screen

Screen ID: 1004777029
Layer: 2
Slot: 10
Screen Top Depth: 16.5
Screen End Depth: 25.5
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 1.5

Water Details

Water ID: 1004777025
Layer: 1

Kind Code: 8
Kind: Untested
Water Found Depth: 5.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1004777023
Diameter: 23.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1004777024
Diameter: 18.0
Depth From: 10.0
Depth To: 25.5
Hole Depth UOM: m
Hole Diameter UOM: cm

---

64 | **1 of 1** | **N/108.2** | **143.8 / 6.99** | **OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON** | **WWIS**

Well ID: 7197926
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z164023
Tag: A142208
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03/04/2013
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7403
Form Version: 7
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197926.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 2.37744
Latitude: 43.4080775819451
Longitude: -79.7745164817017
X: -79.77451633270034
Y: 43.40807757944578
Path: 719\7197926.pdf

Bore Hole Information

Bore Hole ID:	1004259183	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599224.00
Code OB Desc:		***North83:***	4806862.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	11/30/2012	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004776969
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	92
Material 3 Desc:	WEATHERED
Formation Top Depth:	1.0
Formation End Depth:	1.5
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004776970
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.5
Formation End Depth:	7.800000190734863
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004776968
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	

Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004776979
Layer: 2
Plug From: 1.0
Plug To: 9.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004776978
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1004776977
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004776967
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004776974
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 2.5
Depth To: 16.0
Casing Diameter: 1.25
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1004776975
Layer: 1
Slot: 10
Screen Top Depth: 16.0
Screen End Depth: 25.5
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch

Screen Diameter: 1.5

Water Details

Water ID: 1004776973
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 5.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1004776971
Diameter: 6.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1004776972
Diameter: 4.0
Depth From: 10.0
Depth To: 25.5
Hole Depth UOM: ft
Hole Diameter UOM: inch

---

65 | ***1 of 6*** | ***WSW/109.1*** | ***139.2 / 2.38*** | ***ORCHARD UPTOWN DEVELOPMENTS INC***
2055 APPLEBY LINE
BURLINGTON ON L7L 7H1 | ***GEN***

Generator No: ON5590172
SIC Code: 562990
SIC Description: All Other Waste Management Services
Approval Years: 06
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

---

65 | ***2 of 6*** | ***WSW/109.1*** | ***139.2 / 2.38*** | ***2055 APPLEBY LINE***
BURLINGTON ON L7L 7H1 | ***HINC***

External File Num: FS INC 0609-02666
Fuel Occurrence Type: Pipeline Strike
Date of Occurrence: 8/22/2006
Fuel Type Involved: Natural Gas
Status Desc: Completed - Causal Analysis(End)
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved: Construction Site (pipeline strike)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Service Interruptions:	Yes
Property Damage:	No
Fuel Life Cycle Stage:	Transmission, Distribution and Transportation
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training: Yes Management:Yes Human Factors:Yes
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Halton
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

65	*3 of 6*	***WSW/109.1***	***139.2 / 2.38***	***WILSON BLANCHARD MANAGEMENT INC.*** ***2055 APPLEBY LINE*** ***BURLINGTON ON L7L 7H1***	***GEN***

Generator No:	ON4515272
SIC Code:	
SIC Description:	
Approval Years:	As of Dec 2018
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	251 L
Waste Class Name:	Waste oils/sludges (petroleum based)

65	*4 of 6*	***WSW/109.1***	***139.2 / 2.38***	***WILSON BLANCHARD MANAGEMENT INC.*** ***2055 APPLEBY LINE*** ***BURLINGTON ON L7L 7H1***	***GEN***

Generator No:	ON4515272
SIC Code:	
SIC Description:	
Approval Years:	As of Jul 2020
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	251 L
Waste Class Name:	Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
65	5 of 6	WSW/109.1	139.2 / 2.38	WILSON BLANCHARD MANAGEMENT INC. 2055 APPLEBY LINE BURLINGTON ON L7L 7H1	GEN

Generator No: ON4515272
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
65	6 of 6	WSW/109.1	139.2 / 2.38	WILSON BLANCHARD MANAGEMENT INC. 2055 APPLEBY LINE BURLINGTON ON L7L 7H1	GEN

Generator No: ON4515272
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
66	1 of 1	N/110.2	143.8 / 6.99	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON	WWIS

Well ID: 7197931
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z164022
Tag: A142209
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03/04/2013
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7403
Form Version: 7
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:

Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197931.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 0.9144
Latitude: 43.4080957190477
Longitude: -79.774528466568
X: -79.77452831801749
Y: 43.408095716666885
Path: 719\7197931.pdf

Bore Hole Information

Bore Hole ID: 1004259198
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/30/2012
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599223.00
North83: 4806864.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004777079
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 92
Material 3 Desc: WEATHERED
Formation Top Depth: 1.0
Formation End Depth: 1.5
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1004777080
Layer: 3
Color: 7
General Color: RED

Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.5
Formation End Depth:	3.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004777078
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004777087
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1004777086
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	SONIC

Pipe Information

Pipe ID:	1004777077
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004777083
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	2.5
Depth To:	3.0
Casing Diameter:	1.25
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1004777084
Layer:	1
Slot:	10
Screen Top Depth:	3.0
Screen End Depth:	10.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	1.5

Water Details

Water ID:	1004777082
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	5.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1004777081
Diameter:	15.0
Depth From:	0.0
Depth To:	10.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

---

67 ***1 of 2*** ***N/110.2*** ***143.8 / 6.99*** ***OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON*** ***WWIS***

Well ID:	7197921	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	03/04/2013
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z164025	***Contractor:***	7403
Tag:	A142206	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	001
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197921.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/30/2012
Year Completed:	2012

Depth (m): 13.6
Latitude: 43.4080955867099
Longitude: -79.7745161186642
X: -79.7745159697795
Y: 43.40809558483997
Path: 719\7197921.pdf

Bore Hole Information

Bore Hole ID: 1004259168
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/30/2012
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599224.00
North83: 4806864.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004776868
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 92
Material 3 Desc: WEATHERED
Formation Top Depth: 1.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004776869
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 13.600000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004776867
Layer: 1
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776878
Layer: 2
Plug From: 0.30000001192092896
Plug To: 11.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776877
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004776876
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004776866
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004776873
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.6000000238418579
Depth To: 11.600000381469727
Casing Diameter: 1.25
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004776874
Layer: 1
Slot: 10
Screen Top Depth: 11.600000381469727
Screen End Depth: 13.600000381469727
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 1.5

Water Details

Water ID: 1004776872
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 5.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1004776870
Diameter: 15.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1004776871
Diameter: 10.0
Depth From: 10.0
Depth To: 45.0
Hole Depth UOM: m
Hole Diameter UOM: cm

---

67 | ***2 of 2*** | ***N/110.2*** | ***143.8 / 6.99*** | ***OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON*** | ***WWIS***

Well ID: 7197922
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z164026
Tag: A142207
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03/04/2013
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7403
Form Version: 7
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197922.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 17
Latitude: 43.4080955867099
Longitude: -79.7745161186642
X: -79.7745159697795
Y: 43.40809558483997
Path: 719\7197922.pdf

Bore Hole Information

Bore Hole ID: 1004259171
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/30/2012
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599224.00
North83: 4806864.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004776881
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 92
Material 3 Desc: WEATHERED
Formation Top Depth: 1.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004776882
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:

Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 17.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004776880
Layer: 1
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776891
Layer: 2
Plug From: 0.30000001192092896
Plug To: 14.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776890
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004776889
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004776879
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004776886
Layer: 1
Material: 5
Open Hole or Material: PLASTIC

Depth From:	14.899999618530273
Depth To:	17.0
Casing Diameter:	1.25
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1004776887
Layer:	1
Slot:	10
Screen Top Depth:	14.899999618530273
Screen End Depth:	17.0
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	1.25

Water Details

Water ID:	1004776885
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	5.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004776883
Diameter:	15.0
Depth From:	0.0
Depth To:	14.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1004776884
Diameter:	10.0
Depth From:	10.0
Depth To:	17.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

68 | ***1 of 1*** | ***SE/110.3*** | ***131.8 / -5.00*** | ***n/a*** ***Burlington ON*** | ***EHS***

Order No:	20320800434	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	11-DEC-20	**Search Radius (km):**	.25
Date Received:	08-DEC-20	**X:**	-79.77053455
Previous Site Name:		**Y:**	43.39569141
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

---

69 | ***1 of 1*** | ***ESE/110.3*** | ***129.8 / -7.00*** | ***5360 Mainway*** ***Burlington ON L7L 6A4*** | ***EHS***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Order No:	20190828217	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	05-SEP-19	**Search Radius (km):**	.25
Date Received:	28-AUG-19	**X:**	-79.768347
Previous Site Name:		**Y:**	43.397622
Lot/Building Size:			
Additional Info Ordered:			

70	1 of 1	N/111.2	143.8 / 6.99	OLD BURLOAK DR. PIPELINE EASEMENT BURLINGTON ON	WWIS

Well ID:	7197925	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	0	**Date Received:**	03/04/2013
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z164024	**Contractor:**	7403
Tag:	A121100	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197925.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/30/2012
Year Completed:	2012
Depth (m):	10.6
Latitude:	43.4081045890924
Longitude:	-79.7745159371453
X:	-79.77451578831908
Y:	43.408104586882416
Path:	719\7197925.pdf

Bore Hole Information

Bore Hole ID:	1004259180	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599224.00
Code OB Desc:		**North83:**	4806865.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/30/2012	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	1004776943
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004776945
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.5
Formation End Depth:	10.600000381469727
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004776944
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	92
Material 3 Desc:	WEATHERED
Formation Top Depth:	1.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004776954
Layer:	2
Plug From:	1.0
Plug To:	8.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004776953
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1004776952
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	SONIC

Pipe Information

Pipe ID:	1004776942
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004776949
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.699999988079071
Depth To:	8.600000381469727
Casing Diameter:	1.25
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1004776950
Layer:	1
Slot:	10
Screen Top Depth:	8.600000381469727
Screen End Depth:	10.600000381469727
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	1.5

Water Details

Water ID:	1004776948
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	5.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID: 1004776946
Diameter: 6.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1004776947
Diameter: 4.0
Depth From: 10.0
Depth To: 35.0
Hole Depth UOM: m
Hole Diameter UOM: cm

---

71 | **1 of 1** | **WSW/113.3** | **139.9 / 3.08** | **5164 UPPERMIDDLE RD lot 2 con 2 BURLINGTON ON** | **WWIS**

Well ID: 7042975
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z59302
Tag: A050021
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info: BLOCK 332

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 04/23/2007
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6988
Form Version: 3
Owner:
County: HALTON
Lot: 002
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/704\7042975.pdf

Additional Detail(s) (Map)

Well Completed Date: 02/16/2007
Year Completed: 2007
Depth (m): 3.4
Latitude: 43.3971230614182
Longitude: -79.784146737692
X: -79.78414658935246
Y: 43.39712305886415
Path: 704\7042975.pdf

Bore Hole Information

Bore Hole ID: 11765407
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:

Elevation:
Elevrc:
Zone: 17
East83: 598462.00
North83: 4805634.00
Org CS: UTM83
UTMRC: 3

Date Completed: 02/16/2007
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 933098726
Layer: 1
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2: 05
Material 2 Desc: CLAY
Material 3: 77
Material 3 Desc: LOOSE
Formation Top Depth: 0.0
Formation End Depth: 0.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933098728
Layer: 3
Color: 7
General Color: RED
Material 1: 06
Material 1 Desc: SILT
Material 2: 05
Material 2 Desc: CLAY
Material 3: 66
Material 3 Desc: DENSE
Formation Top Depth: 1.2999999523162842
Formation End Depth: 2.0999999046325684
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933098729
Layer: 4
Color: 7
General Color: RED
Material 1: 06
Material 1 Desc: SILT
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0999999046325684
Formation End Depth: 3.4000000953674316
Formation End Depth UOM: m

Overburden and Bedrock

Materials Interval

Formation ID:	933098727
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	05
Material 2 Desc:	CLAY
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.5
Formation End Depth:	1.2999999523162842
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933317694
Layer:	1
Plug From:	0.0
Plug To:	1.2000000476837158
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	967042975
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	

Pipe Information

Pipe ID:	11773097
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930898448
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	1.5
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	933424161
Layer:	1
Slot:	10
Screen Top Depth:	1.5
Screen End Depth:	4.300000190734863
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm

Screen Diameter: 6.0

Water Details

Water ID: 934085571
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 3.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11851797
Diameter: 10.199999809265137
Depth From: 0.0
Depth To: 4.300000190734863
Hole Depth UOM: m
Hole Diameter UOM: cm

---

72 | ***1 of 1*** | ***N/116.8*** | ***144.8 / 8.00*** | ***OAKVILLE,ONT lot 35 con 2 ON*** | ***WWIS***

Well ID: 2809963
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z09769
Tag: A009749
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 06/03/2004
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7201
Form Version: 3
Owner:
County: HALTON
Lot: 035
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2809963.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/29/2004
Year Completed: 2004
Depth (m): 4
Latitude: 43.4081375544806
Longitude: -79.7742312090932
X: -79.77423106019074
Y: 43.4081375519274
Path: 280\2809963.pdf

Bore Hole Information

Bore Hole ID: 11105812
DP2BR:
Spatial Status:

Elevation:
Elevrc:
Zone: 17

Code OB:		***East83:***	599247.00
Code OB Desc:		***North83:***	4806869.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	5
Date Completed:	04/29/2004	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932958086
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	92
Material 2 Desc:	WEATHERED
Material 3:	
Material 3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	4.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	932958084
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	01
Material 3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	932958085
Layer:	2
Color:	7
General Color:	RED
Material 1:	34
Material 1 Desc:	TILL
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	3.0

Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933249706
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 962809963
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 11111402
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930838618
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 1.0
Casing Diameter: 2.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 933408061
Layer: 1
Slot: 010
Screen Top Depth: 1.0
Screen End Depth: 4.0
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 2.0

Hole Diameter

Hole ID: 11111401
Diameter: 8.0
Depth From: 0.0
Depth To: 4.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
73	1 of 1	N/120.2	143.9 / 7.00	NW CORNER UPPERMIDDLE ON	WWIS

Well ID: 7105624
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z60547
Tag: A062488
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 05/26/2008
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 4
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7105624.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/29/2008
Year Completed: 2008
Depth (m): 3
Latitude: 43.4081862722108
Longitude: -79.7745760430829
X: -79.7745758936702
Y: 43.40818626955893
Path: 710\7105624.pdf

Bore Hole Information

Bore Hole ID: 1001600883
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 03/29/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599219.00
North83: 4806874.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1001724195
Layer: 1
Color: 6
General Color: BROWN

Material 1: 06
Material 1 Desc: SILT
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001724196
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 3.0
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001724198
Layer: 1
Plug From: 0.0
Plug To: 1.399999976158142
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1001724203
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1001724194
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001724200
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.5
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID:	1001724201
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	
Screen Diameter UOM:	
Screen Diameter:	

Water Details

Water ID:	1001724199
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	0.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1001724197
Diameter:	21.0
Depth From:	
Depth To:	3.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

74 | ***1 of 12*** | ***E/123.7*** | ***129.8 / -7.00*** | ***Staveley Services Canada Inc.***
1240 Burloak Drive Unit 6 Burlington, Regional Municipality of Halton CITY OF BURLINGTON ON | ***EBR***

EBR Registry No:	011-4955	***Decision Posted:***	
Ministry Ref No:	3934-8MJGGE	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	March 07, 2012	***Act 2:***	
Proposal Date:	November 07, 2011	***Site Location Map:***	
Year:	2011		
Instrument Type:	(EPA Part II.1-air) - Environmental Compliance Approval (project type: air)		
Off Instrument Name:			
Posted By:			
Company Name:	Staveley Services Canada Inc.		
Site Address:			
Location Other:			
Proponent Name:			
Proponent Address:	6180 Halle Drive, Cleveland OHIO, Canada 44125		
Comment Period:			
URL:			

Site Location Details:

1240 Burloak Drive Unit 6 Burlington, Regional Municipality of Halton CITY OF BURLINGTON

---

74 | ***2 of 12*** | ***E/123.7*** | ***129.8 / -7.00*** | ***Staveley Services Canada Inc. / Les Services Staveley Canada Inc.*** | ***ECA***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				1240 Burloak Drive Burlington ON L7L 6B3	

Approval No: 9595-8RJM7S
Approval Date: 3/2/2012
Status: Approved
Record Type:
Link Source:
SWP Area Name:
Approval Type:
Project Type: Air/Noise
Business Name:
Address:
Full Address:
Full PDF Link:
PDF Site Location:

MOE District:
City: Burlington
Longitude:
Latitude:
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
74	3 of 12	E/123.7	129.8 / -7.00	ALS Laboratory Group 6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	GEN

Generator No: ON6811653
SIC Code: 325999
SIC Description: All Other Miscellaneous Chemical Product Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
74	4 of 12	E/123.7	129.8 / -7.00	ALS Laboratory Group 6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	GEN

Generator No: ON6811653
SIC Code: 325999
SIC Description: All Other Miscellaneous Chemical Product Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 241

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

74 **5 of 12** **E/123.7** **129.8 / -7.00** **ALS Laboratory Group**
6-1240 Burloak Dr.
BURLINGTON ON L7L 6B3
GEN

Generator No: ON6811653
SIC Code: 325999
SIC Description: All Other Miscellaneous Chemical Product Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

74 **6 of 12** **E/123.7** **129.8 / -7.00** **ALS Laboratory Group**
6-1240 Burloak Dr.
BURLINGTON ON L7L 6B3
GEN

Generator No: ON6811653
SIC Code: 325999
SIC Description: All Other Miscellaneous Chemical Product Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

---

74 **7 of 12** **E/123.7** **129.8 / -7.00** **ALS Laboratory Group**
6-1240 Burloak Dr.
BURLINGTON ON
GEN

Generator No: ON6811653
SIC Code: 541380
SIC Description: TESTING LABORATORIES

Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

74 | ***8 of 12*** | ***E/123.7*** | ***129.8 / -7.00*** | ***Staveley Services Canada Inc. / Les Services Staveley Canada Inc.***
1240 Burloak Drive
Burlington ON L7L 6B3 | ***ECA***

Approval No: 9595-8RJM7S
Approval Date: 2012-03-02
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
MOE District: Halton-Peel
City:
Longitude: -79.76527
Latitude: 43.401703
Geometry X:
Geometry Y:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Staveley Services Canada Inc. / Les Services Staveley Canada Inc.
Address: 1240 Burloak Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3934-8MJGGE-14.pdf
PDF Site Location:

---

74 | ***9 of 12*** | ***E/123.7*** | ***129.8 / -7.00*** | ***ALS Laboratory Group***
6-1240 Burloak Dr.
BURLINGTON ON L7L 6B3 | ***GEN***

Generator No: ON6811653
SIC Code: 541380
SIC Description: TESTING LABORATORIES
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: John Walsh
Choice of Contact: CO_OFFICIAL
Phone No Admin: 1-905-332-9559 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

---

74 ***10 of 12*** ***E/123.7*** ***129.8 / -7.00*** ***ALS Laboratory Group 6-1240 Burloak Dr. BURLINGTON ON L7L 6B3*** ***GEN***

Generator No: ON6811653
SIC Code: 541380
SIC Description: TESTING LABORATORIES
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: John Walsh
Choice of Contact: CO_OFFICIAL
Phone No Admin: 1-905-332-9559 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

---

74 ***11 of 12*** ***E/123.7*** ***129.8 / -7.00*** ***ALS Laboratory Group 6-1240 Burloak Dr. BURLINGTON ON L7L 6B3*** ***GEN***

Generator No: ON6811653

SIC Code:	541380
SIC Description:	TESTING LABORATORIES
Approval Years:	2014
PO Box No:	
Country:	Canada
Status:	
Co Admin:	John Walsh
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	1-905-332-9559 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	113
Waste Class Name:	ACID WASTE - OTHER METALS
Waste Class:	221
Waste Class Name:	LIGHT FUELS
Waste Class:	112
Waste Class Name:	ACID WASTE - HEAVY METALS
Waste Class:	241
Waste Class Name:	HALOGENATED SOLVENTS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS

---

74 | **12 of 12** | **E/123.7** | **129.8 / -7.00** | ***ALS Laboratory Group Tribology***
6-1240 Burloak Dr.
BURLINGTON ON L7L 6B3 | **GEN**

Generator No:	ON6811653
SIC Code:	
SIC Description:	
Approval Years:	As of Dec 2017
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	252 T
Waste Class Name:	Waste crankcase oils and lubricants
Waste Class:	241 H
Waste Class Name:	Halogenated solvents and residues
Waste Class:	221 I
Waste Class Name:	Light fuels
Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues

Waste Class: 113 C
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

---

75 | **1 of 1** | **WSW/126.4** | **138.8 / 2.00** | **S/W CORNER lot 5 con 2 BURLINGTON ON** | **WWIS**

Well ID: 7039196
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z56655
Tag: A051087
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info: PLAN 20R15167

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 01/16/2007
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 3
Owner:
County: HALTON
Lot: 005
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/703\7039196.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/06/2006
Year Completed: 2006
Depth (m): 4.2
Latitude: 43.3940723442451
Longitude: -79.7885541382354
X: -79.78855398890646
Y: 43.39407234194147
Path: 703\7039196.pdf

Bore Hole Information

Bore Hole ID: 11761738
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/06/2006
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 598110.00
North83: 4805290.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID:	933086886
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	3.5999999046325684
Formation End Depth:	4.199999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933086885
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	34
Material 2 Desc:	TILL
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.5999999046325684
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933311363
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933311364
Layer:	2
Plug From:	0.30000001192092896
Plug To:	1.100000023841858
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	967039196
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID: 11769428
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930893978
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 1.2000000476837158
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 933422483
Layer: 1
Slot: 10
Screen Top Depth: 1.2000000476837158
Screen End Depth: 4.199999809265137
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Hole Diameter

Hole ID: 11847644
Diameter: 21.0
Depth From: 0.0
Depth To: 4.199999809265137
Hole Depth UOM: m
Hole Diameter UOM: cm

---

76 | **1 of 1** | **N/128.9** | **143.5 / 6.68** | **UPPER MIDDLE RD AND BURLOAD DR ON ROAD Burlington ON** | **WWIS**

Well ID: 7114255
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z60562
Tag: A062507
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 10/31/2008
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 4
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114255.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/24/2008
Year Completed: 2008
Depth (m): 10.5
Latitude: 43.40826001148
Longitude: -79.7747351141855
X: -79.77473496458876
Y: 43.40826000863528
Path: 711\7114255.pdf

Bore Hole Information

Bore Hole ID: 1001858200
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/24/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599206.00
North83: 4806882.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1002547061
Layer: 1
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 11
Material 2 Desc: GRAVEL
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 0.6000000238418579
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002547062
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:

Material 3 Desc:
Formation Top Depth: 0.6000000238418579
Formation End Depth: 1.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002547063
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 10.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547065
Layer: 1
Plug From: 0.0
Plug To: 1.2000000476837158
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547066
Layer: 2
Plug From: 3.200000047683716
Plug To: 4.5
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547067
Layer: 3
Plug From: 8.0
Plug To: 8.800000190734863
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1002547072
Method Construction Code: E
Method Construction: Auger
Other Method Construction: AIR CORING

Pipe Information

Pipe ID: 1002547060
Casing No: 0

Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002547069
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 9.100000381469727
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002547070
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1002547068
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 4.800000190734863
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1002547064
Diameter: 9.600000381469727
Depth From:
Depth To: 10.5
Hole Depth UOM: m
Hole Diameter UOM: cm

---

77 | **1 of 1** | **SSE/129.0** | **130.3 / -6.55** | **5200 Mainway**
Burlington ON L7L 5Z1 | **EHS**

Order No: 20320200475
Status: C
Report Type: Custom Report
Report Date: 28-JAN-21
Date Received: 02-DEC-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.7722927
Y: 43.39387509

---

78 | **1 of 1** | **E/129.1** | **129.8 / -7.00** | **Tyco International of Canada Ltd.**
1345 Heine Court
Burlington ON L8L 6A7 | **GEN**

Generator No: ON4391399
SIC Code: 493110
SIC Description: General Warehousing and Storage
Approval Years: 04,05,06
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

79	1 of 12	E/133.0	129.8 / -7.00	**Normac Adhesive Products Inc.** **1350 Heine Crt** **Burlington ON L7L 6M4**	SCT

Established: 01-JAN-82
Plant Size (ft²): 9000
Employment:

--Details--
Description: Chemical (except Agricultural) and Allied Product Wholesaler-Distributors
SIC/NAICS Code: 418410

Description: Chemical (except Agricultural) and Allied Product Wholesaler-Distributors
SIC/NAICS Code: 418410

79	2 of 12	E/133.0	129.8 / -7.00	**Shaw-Almex Fusion Canada** **1350 Heine Crt** **Burlington ON L7L 6M4**	SCT

Established:
Plant Size (ft²):
Employment:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

--Details--
Description: Other Rubber Product Manufacturing
SIC/NAICS Code: 326290

Description: All Other Industrial Machinery Manufacturing
SIC/NAICS Code: 333299

Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

---

79 | ***3 of 12*** | ***E/133.0*** | ***129.8 / -7.00*** | ***NORMAC ADHESIVE PRODUCTS INC.***
1350 HEINE COURT
BURLINGTON ON L7L 6M4 | ***GEN***

Generator No: ON2731249
SIC Code: 418990
SIC Description: All Other Wholesaler-Distributors
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

79 | ***4 of 12*** | ***E/133.0*** | ***129.8 / -7.00*** | ***NORMAC ADHESIVE PRODUCTS INC.***
1350 HEINE COURT
BURLINGTON ON L7L 6M4 | ***GEN***

Generator No: ON2731249
SIC Code: 418990
SIC Description: All Other Wholesaler-Distributors
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

79	*5 of 12*	*E/133.0*	*129.8 / -7.00*	***NORMAC ADHESIVE PRODUCTS INC.*** ***1350 HEINE COURT*** ***BURLINGTON ON L7L 6M4***	***GEN***

Generator No: ON2731249
SIC Code: 418990
SIC Description: All Other Wholesaler-Distributors
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

79	*6 of 12*	*E/133.0*	*129.8 / -7.00*	***Normac Adhesives Products Inc.*** ***1350 Heine Court***	***GEN***

Burlington ON L7L 6M4

Generator No: ON8900055
SIC Code: 325999
SIC Description: ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 233
Waste Class Name: OTHER POLYMERIC WASTES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

79	*7 of 12*	*E/133.0*	*129.8 / -7.00*	***Normac Adhesives Products Inc.*** ***1350 Heine Court*** ***Burlington ON L7L 6M4***	***GEN***

Generator No: ON8900055
SIC Code: 325999
SIC Description: ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 233
Waste Class Name: OTHER POLYMERIC WASTES

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

---

79 **8 of 12** **E/133.0** **129.8 / -7.00** **Normac Adhesives Products Inc.**
1350 Heine Court
Burlington ON L7L 6M4 **GEN**

Generator No: ON8900055
SIC Code: 325999
SIC Description: ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

---

79 **9 of 12** **E/133.0** **129.8 / -7.00** **Normac Adhesives Products Inc.**
1350 Heine Court
Burlington ON L7L 6M4 **GEN**

Generator No: ON8900055
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 145 T
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 232 I
Waste Class Name: Polymeric resins

Waste Class: 232 L
Waste Class Name: Polymeric resins

Waste Class: 233 I

Waste Class Name: Other polymeric wastes

Waste Class: 233 L
Waste Class Name: Other polymeric wastes

Waste Class: 241 H
Waste Class Name: Halogenated solvents and residues

Waste Class: 268 C
Waste Class Name: Amines

Waste Class: 268 L
Waste Class Name: Amines

---

79 | ***10 of 12*** | ***E/133.0*** | ***129.8 / -7.00*** | ***Normac Adhesives Products Inc.***
1350 Heine Court
Burlington ON L7L 6M4 | ***GEN***

Generator No: ON8900055
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 233 L
Waste Class Name: Other polymeric wastes

Waste Class: 232 L
Waste Class Name: Polymeric resins

Waste Class: 268 C
Waste Class Name: Amines

Waste Class: 145 T
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 241 H
Waste Class Name: Halogenated solvents and residues

Waste Class: 268 L
Waste Class Name: Amines

Waste Class: 233 I
Waste Class Name: Other polymeric wastes

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 232 B
Waste Class Name: Polymeric resins

Waste Class: 232 I

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: Polymeric resins

Waste Class: 212 H
Waste Class Name: Aliphatic solvents and residues

---

79 | ***11 of 12*** | ***E/133.0*** | ***129.8 / -7.00*** | ***Normac Adhesives Products Inc.***
1350 Heine Court
Burlington ON L7L 6M4 | ***GEN***

Generator No: ON8900055
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 T
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 233 L
Waste Class Name: Other polymeric wastes

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 241 H
Waste Class Name: Halogenated solvents and residues

Waste Class: 212 H
Waste Class Name: Aliphatic solvents and residues

Waste Class: 232 B
Waste Class Name: Polymeric resins

Waste Class: 232 I
Waste Class Name: Polymeric resins

Waste Class: 268 C
Waste Class Name: Amines

Waste Class: 232 L
Waste Class Name: Polymeric resins

Waste Class: 268 L
Waste Class Name: Amines

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 233 I
Waste Class Name: Other polymeric wastes

---

79 | ***12 of 12*** | ***E/133.0*** | ***129.8 / -7.00*** | ***Normac Adhesives Products Inc.***
1350 Heine Court
Burlington ON L7L 6M4 | ***GEN***

Generator No: ON8900055
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 268 C
Waste Class Name: AMINES

Waste Class: 212 I
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 233 L
Waste Class Name: OTHER POLYMERIC WASTES

Waste Class: 241 H
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 233 I
Waste Class Name: OTHER POLYMERIC WASTES

Waste Class: 232 L
Waste Class Name: POLYMERIC RESINS

Waste Class: 263 B
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 145 T
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 232 B
Waste Class Name: POLYMERIC RESINS

Waste Class: 241 B
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 232 I
Waste Class Name: POLYMERIC RESINS

Waste Class: 212 B
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 212 H
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 268 L
Waste Class Name: AMINES

Waste Class: 122 C
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 265 I
Waste Class Name: GRAPHIC ART WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
80	1 of 1	WSW/135.9	139.5 / 2.67	1989 Applyby Line lot 5 con 2 Burlington ON	WWIS

Well ID: 7415624
Construction Date:
Use 1st: Monitoring and Test Hole
Use 2nd:
Final Well Status: Monitoring and Test Hole
Water Type:
Casing Material:
Audit No: MHWRI67S
Tag: A339265
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 04/14/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7739
Form Version: 9
Owner:
County: HALTON
Lot: 005
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/741\7415624.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/07/2022
Year Completed: 2022
Depth (m): 9.1
Latitude: 43.3940489984616
Longitude: -79.7889003395495
X: -79.78890019052596
Y: 43.394048995454234
Path: 741\7415624.pdf

Bore Hole Information

Bore Hole ID: 1009001391
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/07/2022
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 598082.00
North83: 4805287.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1009001542
Layer: 3
Color: 7
General Color: RED

Material 1: 26
Material 1 Desc: ROCK
Material 2:
Material 2 Desc:
Material 3: 73
Material 3 Desc: HARD
Formation Top Depth: 3.799999952316284
Formation End Depth: 9.100000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009001541
Layer: 2
Color: 7
General Color: RED
Material 1: 28
Material 1 Desc: SAND
Material 2: 01
Material 2 Desc: FILL
Material 3: 66
Material 3 Desc: DENSE
Formation Top Depth: 2.5
Formation End Depth: 3.799999952316284
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009001540
Layer: 1
Color: 6
General Color: BROWN
Material 1: 01
Material 1 Desc: FILL
Material 2: 28
Material 2 Desc: SAND
Material 3: 11
Material 3 Desc: GRAVEL
Formation Top Depth: 0.0
Formation End Depth: 2.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001656
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001685
Layer: 2
Plug From: 5.5
Plug To: 9.100000381469727
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID:	1009001684
Layer:	1
Plug From:	0.0
Plug To:	5.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1009001483
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Method of Construction & Well Use

Method Construction ID:	1009001482
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

Pipe ID:	1009001445
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1009001582
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	6.099999904632568
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1009001609
Layer:	1
Slot:	10
Screen Top Depth:	6.099999904632568
Screen End Depth:	9.100000381469727
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.099999904632568

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1009001446
Pump Set At:	

Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1009001634
Diameter: 20.299999237060547
Depth From: 0.0
Depth To: 3.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1009001635
Diameter: 9.600000381469727
Depth From: 3.0
Depth To: 9.100000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

---

81 | ***1 of 12*** | ***WSW/136.9*** | ***140.7 / 3.90*** | ***Corpus Christi Secondary School***
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | ***GEN***

Generator No: ON9435473
SIC Code: 611110
SIC Description: Elementary and Secondary Schools
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 251

Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

81 | ***2 of 12*** | ***WSW/136.9*** | ***140.7 / 3.90*** | ***Corpus Christi Secondary School***
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | ***GEN***

Generator No: ON9435473
SIC Code: 611110
SIC Description: Elementary and Secondary Schools
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

---

81 | ***3 of 12*** | ***WSW/136.9*** | ***140.7 / 3.90*** | ***Corpus Christi Secondary School***
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | ***GEN***

Generator No: ON9435473
SIC Code: 611110
SIC Description: Elementary and Secondary Schools
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

---

81 | **4 of 12** | **WSW/136.9** | **140.7 / 3.90** | **Corpus Christi Secondary School**
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | **GEN**

Generator No: ON9435473
SIC Code: 611110
SIC Description: Elementary and Secondary Schools
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

81 | **5 of 12** | **WSW/136.9** | **140.7 / 3.90** | **Corpus Christi Secondary School**
5150 Upper Middle Rd.
Burlington ON | **GEN**

Generator No: ON9435473
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

81	6 of 12	WSW/136.9	140.7 / 3.90	**Corpus Christi Secondary School** **5150 Upper Middle Rd.** **Burlington ON L7L 0E5**	GEN

Generator No: ON9435473
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

81	7 of 12	WSW/136.9	140.7 / 3.90	**Corpus Christi Secondary School** **5150 Upper Middle Rd.** **Burlington ON L7L 0E5**	GEN

Generator No: ON9435473

SIC Code:	611110
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS
Approval Years:	2015
PO Box No:	
Country:	Canada
Status:	
Co Admin:	
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	251
Waste Class Name:	OIL SKIMMINGS & SLUDGES
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES
Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	121
Waste Class Name:	ALKALINE WASTES - HEAVY METALS

---

81 | ***8 of 12*** | ***WSW/136.9*** | ***140.7 / 3.90*** | ***Corpus Christi Secondary School***
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | ***GEN***

Generator No:	ON9435473
SIC Code:	611110
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS
Approval Years:	2014
PO Box No:	
Country:	Canada
Status:	
Co Admin:	
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	251
Waste Class Name:	OIL SKIMMINGS & SLUDGES

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

---

81 | **9 of 12** | **WSW/136.9** | **140.7 / 3.90** | **Corpus Christi Secondary School**
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | **GEN**

Generator No: ON9435473
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 148 A
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 R
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 B
Waste Class Name: Aliphatic solvents and residues

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 252 T
Waste Class Name: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

---

81 | **10 of 12** | **WSW/136.9** | **140.7 / 3.90** | **Corpus Christi Secondary School**
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | **GEN**

Generator No: ON9435473
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 252 T
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 212 B
Waste Class Name: Aliphatic solvents and residues

Waste Class: 148 A
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 R
Waste Class Name: Misc. wastes and inorganic chemicals

---

81 | **11 of 12** | **WSW/136.9** | **140.7 / 3.90** | **Corpus Christi Secondary School**
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | **GEN**

Generator No: ON9435473
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 212 B
Waste Class Name: Aliphatic solvents and residues

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 R
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 252 T
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 148 A
Waste Class Name: Misc. wastes and inorganic chemicals

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
81	12 of 12	WSW/136.9	140.7 / 3.90	Corpus Christi Secondary School 5150 Upper Middle Rd. Burlington ON L7L 0E5	GEN

Generator No: ON9435473
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 B
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148 A
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148 R
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 121 C
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 212 B
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148 T
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 B
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 252 T
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

82	1 of 1	N/140.1	143.8 / 6.99	OLD BURLOAK DR lot 35 con 2 Burlington ON	WWIS

Well ID:	7331635	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	04/18/2019
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z306794	**Contractor:**	6607
Tag:		**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	035
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1007428613	**Tag No:**	
Depth M:		**Contractor:**	6607
Year Completed:	2019	**Latitude:**	43.408354670549
Well Completed Dt:	02/01/2019	**Longitude:**	-79.7743256352392
Audit No:	Z306794	**Y:**	43.40835466874323
Path:		**X:**	-79.77432548565451

Bore Hole Information

Bore Hole ID:	1007428613	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599239.00
Code OB Desc:		**North83:**	4806893.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	02/01/2019	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1007825906
Layer:	1
Plug From:	0.0
Plug To:	1.600000023841858
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007825907

Layer: 2
Plug From: 1.600000023841858
Plug To: 11.0
Plug Depth UOM: m

Pipe Information

Pipe ID: 1007822272
Casing No: 0
Comment:
Alt Name:

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1007830394
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

---

83 ***1 of 1*** ***WSW/142.4*** ***139.7 / 2.88*** ***ON*** ***WWIS***

Well ID: 7417282
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z384292
Tag: A343727
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 05/10/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Bore Hole ID: 1009023039
Depth M:
Year Completed: 2022
Well Completed Dt: 04/11/2022

Tag No: A343727
Contractor: 7241
Latitude: 43.3939670610939
Longitude: -79.7888155375464

Audit No:	Z384292	**Y:**	43.393967058721564
Path:		**X:**	-79.78881538869894

Bore Hole Information

Bore Hole ID:	1009023039	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598089.00
Code OB Desc:		**North83:**	4805278.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	04/11/2022	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

---

84 | ***1 of 1*** | ***W/142.9*** | ***143.1 / 6.25*** | ***lot 4 con 1 ON*** | ***WWIS***

Well ID:	2809655	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Not Used	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Abandoned-Other	**Date Received:**	10/01/2002
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	240106	**Contractor:**	1663
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	004
Depth to Bedrock:		**Concession:**	01
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2809655.pdf

Additional Detail(s) (Map)

Well Completed Date:	07/31/2002
Year Completed:	2002
Depth (m):	
Latitude:	43.4000439287374
Longitude:	-79.7853195132355
X:	-79.7853193635818
Y:	43.40004392673709
Path:	280\2809655.pdf

Bore Hole Information

Bore Hole ID:	10531828	**Elevation:**	

DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598362.30
Code OB Desc:		**North83:**	4805957.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	07/31/2002	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gis
Location Method Desc:	from gis		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	962809655
Method Construction Code:	A
Method Construction:	Digging
Other Method Construction:	

Pipe Information

Pipe ID:	11080398
Casing No:	1
Comment:	
Alt Name:	

---

85 | ***1 of 3*** | ***N/143.4*** | ***143.8 / 6.92*** | ***Enbridge Pipelines Inc***
2249 Old Burloak Drive
Burlington ON L7L 6B3 | ***GEN***

Generator No:	ON4049679
SIC Code:	
SIC Description:	
Approval Years:	As of Dec 2018
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	251 L
Waste Class Name:	Waste oils/sludges (petroleum based)

---

85 | ***2 of 3*** | ***N/143.4*** | ***143.8 / 6.92*** | ***Enbridge Pipelines Inc***
2249 Old Burloak Drive
Burlington ON L7L 6B3 | ***GEN***

Generator No:	ON4049679
SIC Code:	
SIC Description:	
Approval Years:	As of Jul 2020
PO Box No:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
85	3 of 3	N/143.4	143.8 / 6.92	Enbridge Pipelines Inc 2249 Old Burloak Drive Burlington ON L7L 6B3	GEN

Generator No: ON4049679
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	1 of 20	ESE/146.0	130.8 / -6.00	5330 Mainway Drive Burlington ON	CA

Certificate #: 7105-592Q7C
Application Year: 02
Issue Date: 5/7/02
Approval Type: Industrial air
Status: Approved
Application Type: New Certificate of Approval
Client Name: Amhil Enterprises
Client Address: 400 Traders Boulevard East
Client City: Mississauga
Client Postal Code: L4Z 1W7
Project Description: This application is for approval of the installation and operation of one (1) extrusion line to manufacture thermoformed products for the disposal packaging industry. This application also includes the installation of comfort heating equipment and two (2) cooling towers. The production line has a hopper, an extrusion die, a thermal former and a cutter followed by manual packaging.
Contaminants:
Emission Control: No Controls

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	2 of 20	ESE/146.0	130.8 / -6.00	Amhil Enterprises 5330 Mainway Drive Burlington Ontario Burlington ON	EBR

EBR Registry No: IA01E1555 **Decision Posted:**

Ministry Ref No: 5167-548TJC
Exception Posted:
Notice Type: Instrument Decision
Section:
Notice Stage:
Act 1:
Notice Date: May 13, 2002
Act 2:
Proposal Date: November 07, 2001
Site Location Map:
Year: 2001
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Amhil Enterprises
Site Address:
Location Other:
Proponent Name:
Proponent Address: 400 Traders Boulevard East, Mississauga Ontario, L4Z 1W7
Comment Period:
URL:

Site Location Details:

5330 Mainway Drive Burlington Ontario Burlington

---

86 ***3 of 20*** ***ESE/146.0*** ***130.8 / -6.00*** ***Amhil Enterprises***
5330 Mainway Drive
Burlington ON L7L5Z2
GEN

Generator No: ON4763950
SIC Code: 326198
SIC Description: All Other Plastic Product Mfg.
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

86 ***4 of 20*** ***ESE/146.0*** ***130.8 / -6.00*** ***Amhil Enterprises***
5330 Mainway Dr
Burlington ON L7L 6A4
SCT

Established:
Plant Size (ft²):
Employment: 16

--Details--
Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	5 of 20	ESE/146.0	130.8 / -6.00	Wentworth Technologies Company 5330 Mainway Burlington ON L7L 5Z1	SCT

Established: 7/1/2000
Plant Size (ft²):
Employment:

--Details--
Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Description: Industrial Mould Manufacturing
SIC/NAICS Code: 333511

Description: Industrial Mould Manufacturing
SIC/NAICS Code: 333511

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	6 of 20	ESE/146.0	130.8 / -6.00	Amhil Enterprises 5330 Mainway Drive Burlington ON L7L 6A4	GEN

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: All Other Plastic Product Manufacturing, Laminated Plastics Plate Sheet (except Packaging) and Shape Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	7 of 20	ESE/146.0	130.8 / -6.00	Amhil Enterprises 5330 Mainway Drive Burlington ON L7L 6A4	GEN

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: All Other Plastic Product Manufacturing, Laminated Plastics Plate Sheet (except Packaging) and Shape Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:

Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

86 ***8 of 20*** ***ESE/146.0*** ***130.8 / -6.00*** ***Amhil Enterprises***
5330 Mainway Drive
Burlington ON L7L 6A4 ***GEN***

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: All Other Plastic Product Manufacturing, Laminated Plastics Plate Sheet (except Packaging) and Shape Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

86 ***9 of 20*** ***ESE/146.0*** ***130.8 / -6.00*** ***Amhil Enterprises***
5330 Mainway Drive
Burlington ON L7L5Z2 ***GEN***

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: All Other Plastic Product Manufacturing, Laminated Plastics Plate Sheet (except Packaging) and Shape Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	10 of 20	ESE/146.0	130.8 / -6.00	5330 Mainway Drive Burlington ON	EHS

Order No: 20140514009
Status: C
Report Type: Standard Report
Report Date: 23-MAY-14
Date Received: 14-MAY-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality: Burlington
Client Prov/State: ON
Search Radius (km): .25
X: -79.769144
Y: 43.39693

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	11 of 20	ESE/146.0	130.8 / -6.00	Amhil Enterprises 5330 Mainway Drive Burlington ON	GEN

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: ALL OTHER PLASTIC PRODUCT MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET AND SHAPE MANUFACTURING, LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	12 of 20	ESE/146.0	130.8 / -6.00	Amhil Enterprises 5330 Mainway Drive Burlington ON L4Z 1W7	ECA

Approval No: 7105-592Q7C
Approval Date: 2002-05-07
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Amhil Enterprises
Address: 5330 Mainway Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5167-548TJC-14.pdf
PDF Site Location:
MOE District: Halton-Peel
City:
Longitude: -79.76888
Latitude: 43.39849
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	13 of 20	ESE/146.0	130.8 / -6.00	**Amhil Enterprises** **5330 Mainway Drive** **Burlington ON L7L5Z1**	GEN

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: ALL OTHER PLASTIC PRODUCT MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET AND SHAPE MANUFACTURING, LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Barry Fairway
Choice of Contact: CO_ADMIN
Phone No Admin: 905-332-9765 Ext.301
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	14 of 20	ESE/146.0	130.8 / -6.00	**Amhil Enterprises** **5330 Mainway Drive** **Burlington ON L7L5Z1**	GEN

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: ALL OTHER PLASTIC PRODUCT MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET AND SHAPE MANUFACTURING, LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Ricardo S Jumaquio
Choice of Contact: CO_ADMIN
Phone No Admin: 905-890-5261 Ext.213
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	15 of 20	ESE/146.0	130.8 / -6.00	**Amhil Enterprises** **5330 Mainway Drive** **Burlington ON L7L5Z1**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: ALL OTHER PLASTIC PRODUCT MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET AND SHAPE MANUFACTURING, LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Ricardo S Jumaquio
Choice of Contact: CO_ADMIN
Phone No Admin: 905-890-5261 Ext.213
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

86	16 of 20	ESE/146.0	130.8 / -6.00	**Melrose Investments Inc.** **5330 Mainway** **Burlington ON L7L 5Z1**	GEN

Generator No: ON9517739
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

86	17 of 20	ESE/146.0	130.8 / -6.00	**Amhil Enterprises Burlington** **5330 Mainway Drive** **Burlington ON L7L5Z1**	GEN

Generator No: ON4763950
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 253 L
Waste Class Name: Emulsified oils

---

86 | ***18 of 20*** | ***ESE/146.0*** | ***130.8 / -6.00*** | ***AMHIL ENTERPRISES***
5330 MAINWAY
BURLINGTON ON L7L 6A4 | ***EASR***

Approval No: R-010-7110542614
Status: REGISTERED
Date: 2018-08-07
Record Type: EASR
Link Source: MOFA
Project Type: Air Emissions
Full Address:
Approval Type: EASR-Air Emissions
SWP Area Name: Halton
PDF NAICS Code: 326198
PDF URL:
PDF Site Location:

MOE District: Halton-Peel
Municipality: BURLINGTON
Latitude: 43.39694444
Longitude: -79.76916667
Geometry X:
Geometry Y:

---

86 | ***19 of 20*** | ***ESE/146.0*** | ***130.8 / -6.00*** | ***Amhil Enterprises Burlington***
5330 Mainway Drive
Burlington ON L7L5Z1 | ***GEN***

Generator No: ON4763950
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 253 L
Waste Class Name: Emulsified oils

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

---

86 | **20 of 20** | **ESE/146.0** | **130.8 / -6.00** | **Melrose Investments Inc.**
5330 Mainway
Burlington ON L7L 5Z1 | **GEN**

Generator No: ON9517739
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

87 | **1 of 2** | **SW/150.2** | **134.8 / -2.00** | **Global Xposure - Div. of Jimmy Tees Inc.**
1816 Hobson Dr
Burlington ON L7L 6L7 | **SCT**

Established:
Plant Size (ft²):
Employment: 4

--Details--
Description: All Other Textile Product Mills
SIC/NAICS Code: 314990

Description: Cut and Sew Clothing Contracting
SIC/NAICS Code: 315210

Description: Clothing Accessories and Other Clothing Manufacturing
SIC/NAICS Code: 315990

Description: Commercial Screen Printing
SIC/NAICS Code: 323113

Description: Digital Printing
SIC/NAICS Code: 323115

Description: Other Printing
SIC/NAICS Code: 323119

Description: Clothing and Clothing Accessories Wholesaler-Distributors
SIC/NAICS Code: 414110

---

87 | **2 of 2** | **SW/150.2** | **134.8 / -2.00** | **Global Xposure**
1816 Hobson Dr
Burlington ON L7L 6L7 | **SCT**

Established:
Plant Size (ft²):
Employment:

--Details--

Description:	Clothing and Clothing Accessories Wholesaler-Distributors
SIC/NAICS Code:	414110
Description:	All Other Textile Product Mills
SIC/NAICS Code:	314990
Description:	Cut and Sew Clothing Contracting
SIC/NAICS Code:	315210
Description:	Clothing Accessories and Other Clothing Manufacturing
SIC/NAICS Code:	315990
Description:	Commercial Screen Printing
SIC/NAICS Code:	323113
Description:	Digital Printing
SIC/NAICS Code:	323115
Description:	Other Printing
SIC/NAICS Code:	323119

---

88 ***1 of 1*** ***WSW/150.3*** ***139.2 / 2.34*** ***1989 Applyby Line lot 5 con 2 Burlington ON*** ***WWIS***

Well ID:	7415625	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring and Test Hole	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Monitoring and Test Hole	***Date Received:***	04/14/2022
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	9CCA4UKN	***Contractor:***	7739
Tag:	A339266	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	005
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/741\7415625.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/08/2022
Year Completed:	2022
Depth (m):	7.9
Latitude:	43.3938564161909
Longitude:	-79.7885707877376
X:	-79.7885706391939
Y:	43.39385641353209

Path: 741\7415625.pdf

Bore Hole Information

Bore Hole ID:	1009001394	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	598109.00
Code OB Desc:		***North83:***	4805266.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	04/08/2022	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1009001544
Layer:	2
Color:	7
General Color:	RED
Material 1:	34
Material 1 Desc:	TILL
Material 2:	28
Material 2 Desc:	SAND
Material 3:	66
Material 3 Desc:	DENSE
Formation Top Depth:	2.5
Formation End Depth:	3.4000000953674316
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1009001543
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	01
Material 1 Desc:	FILL
Material 2:	28
Material 2 Desc:	SAND
Material 3:	11
Material 3 Desc:	GRAVEL
Formation Top Depth:	0.0
Formation End Depth:	2.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1009001545
Layer:	3
Color:	7
General Color:	RED

Material 1: 26
Material 1 Desc: ROCK
Material 2:
Material 2 Desc:
Material 3: 73
Material 3 Desc: HARD
Formation Top Depth: 3.4000000953674316
Formation End Depth: 7.900000095367432
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001686
Layer: 1
Plug From: 0.0
Plug To: 4.300000190734863
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001687
Layer: 2
Plug From: 4.300000190734863
Plug To: 7.900000095367432
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001657
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1009001485
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1009001484
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1009001447
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	1009001583
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	4.900000095367432
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1009001610
Layer:	1
Slot:	10
Screen Top Depth:	4.900000095367432
Screen End Depth:	7.900000095367432
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.099999904632568

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1009001448
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1009001637
Diameter:	9.600000381469727
Depth From:	3.0
Depth To:	7.900000095367432
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1009001636
Diameter:	20.299999237060547
Depth From:	0.0
Depth To:	3.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
89	1 of 1	WSW/151.4	139.7 / 2.86	ON	WWIS

Well ID: 7417283
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z384254
Tag: A343650
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 05/10/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Bore Hole ID: 1009023042
Depth M:
Year Completed: 2022
Well Completed Dt: 04/12/2022
Audit No: Z384254
Path:

Tag No: A343650
Contractor: 7241
Latitude: 43.39386711876
Longitude: -79.7887310944202
Y: 43.39386711682967
X: -79.78873094530117

Bore Hole Information

Bore Hole ID: 1009023042
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/12/2022
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 598096.00
North83: 4805267.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
90	1 of 1	N/151.5	143.2 / 6.38	UPPER MIDDLE RD AND BURLOAK DR ON ROAD Burlington ON	WWIS

Well ID: 7114256
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 10/31/2008
Selected Flag: TRUE

Casing Material:		**Abandonment Rec:**	
Audit No:	Z60560	**Contractor:**	6607
Tag:	A062484	**Form Version:**	4
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114256.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/23/2008
Year Completed:	2008
Depth (m):	10.5
Latitude:	43.408466404685
Longitude:	-79.7746692000513
X:	-79.77466905070762
Y:	43.40846640275949
Path:	711\7114256.pdf

Bore Hole Information

Bore Hole ID:	1001858203	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599211.00
Code OB Desc:		**North83:**	4806905.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	04/23/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1002547124
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	0.6000000238418579
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID: 1002547126
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 10.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002547125
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 92
Material 3 Desc: WEATHERED
Formation Top Depth: 0.6000000238418579
Formation End Depth: 1.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547128
Layer: 1
Plug From: 0.0
Plug To: 1.2000000476837158
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547130
Layer: 3
Plug From: 8.0
Plug To: 8.800000190734863
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547129
Layer: 2
Plug From: 3.200000047683716
Plug To: 4.5
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:	1002547135
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	AIR CORING

Pipe Information

Pipe ID:	1002547123
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002547132
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	9.100000381469727
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002547133
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	
Screen Diameter UOM:	
Screen Diameter:	

Water Details

Water ID:	1002547131
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	4.800000190734863
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1002547127
Diameter:	9.600000381469727
Depth From:	
Depth To:	10.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

91	***1 of 1***	***WSW/158.1***	***139.8 / 3.00***	***ON***	***WWIS***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Well ID:	7404746	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	12/07/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z369962	**Contractor:**	7241
Tag:	A336098	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008868846	**Tag No:**	A336098
Depth M:		**Contractor:**	7241
Year Completed:	2021	**Latitude:**	43.3938889154249
Well Completed Dt:	10/12/2021	**Longitude:**	-79.7890887432269
Audit No:	Z369962	**Y:**	43.393888912464995
Path:		**X:**	-79.78908859414476

Bore Hole Information

Bore Hole ID:	1008868846	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598067.00
Code OB Desc:		**North83:**	4805269.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/12/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

92	*1 of 1*	*WSW/161.3*	*139.8 / 3.00*	*ON*	*WWIS*

Well ID:	7404747	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	12/07/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z369961	**Contractor:**	7241
Tag:	A336097	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON

Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008868849	**Tag No:**	A336097
Depth M:		**Contractor:**	7241
Year Completed:	2021	**Latitude:**	43.3937962760091
Well Completed Dt:	10/12/2021	**Longitude:**	-79.7888436346045
Audit No:	Z369961	**Y:**	43.39379627351325
Path:		**X:**	-79.78884348621045

Bore Hole Information

Bore Hole ID:	1008868849	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598087.00
Code OB Desc:		**North83:**	4805259.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/12/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

---

93 | ***1 of 1*** | ***E/162.4*** | ***129.8 / -7.00*** | ***1340 Heine Crt Burlington ON L7L6M4*** | ***EHS***

Order No:	20141008060	**Nearest Intersection:**	
Status:	C	**Municipality:**	City of Burlington
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	15-OCT-14	**Search Radius (km):**	.25
Date Received:	08-OCT-14	**X:**	-79.766354
Previous Site Name:		**Y:**	43.398645
Lot/Building Size:			
Additional Info Ordered:			

---

94 | ***1 of 1*** | ***WSW/163.6*** | ***139.8 / 3.00*** | ***ON*** | ***WWIS***

Well ID:	7404748	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	12/07/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z374539	**Contractor:**	7241
Tag:	A336100	**Form Version:**	7

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008868852	**Tag No:**	A336100
Depth M:		**Contractor:**	7241
Year Completed:	2021	**Latitude:**	43.3937879273255
Well Completed Dt:	10/12/2021	**Longitude:**	-79.7889055392337
Audit No:	Z374539	**Y:**	43.39378792471835
Path:		**X:**	-79.78890538999609

Bore Hole Information

Bore Hole ID:	1008868852	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598082.00
Code OB Desc:		**North83:**	4805258.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/12/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
95	1 of 1	N/165.7	144.8 / 8.00	OLD BURLOAK DR lot 35 con 2 Burlington ON	WWIS

Well ID:	7331634	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	04/18/2019
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z306793	**Contractor:**	6607
Tag:		**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	035
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1007428610	***Tag No:***	
Depth M:		***Contractor:***	6607
Year Completed:	2019	***Latitude:***	43.4085573566915
Well Completed Dt:	02/08/2019	***Longitude:***	-79.7739139757215
Audit No:	Z306793	***Y:***	43.408557354451496
Path:		***X:***	-79.77391382650023

Bore Hole Information

Bore Hole ID:	1007428610	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599272.00
Code OB Desc:		***North83:***	4806916.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	02/08/2019	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1007825905
Layer:	2
Plug From:	1.600000023841858
Plug To:	10.699999809265137
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007825904
Layer:	1
Plug From:	0.0
Plug To:	1.600000023841858
Plug Depth UOM:	m

Pipe Information

Pipe ID:	1007822271
Casing No:	0
Comment:	
Alt Name:	

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1007830389
Pump Set At:	
Static Level:	
Final Level After Pumping:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:		0			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
96	*1 of 3*	*NNW/167.0*	*144.9 / 8.01*	***MATTAMY HOMES LTD.*** ***SUBD.PH.1/DEER PL/THORN LANE*** ***BURLINGTON CITY ON***	*CA*
Certificate #:		3-1116-99-			
Application Year:		99			
Issue Date:		9/20/1999			
Approval Type:		Municipal sewage			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
96	*2 of 3*	*NNW/167.0*	*144.9 / 8.01*	***MATTAMY HOMES LTD.*** ***DEER PL/THORN LANE*** ***BURLINGTON CITY ON***	*CA*
Certificate #:		3-1118-99-			
Application Year:		99			
Issue Date:		9/20/1999			
Approval Type:		Municipal sewage			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
96	*3 of 3*	*NNW/167.0*	*144.9 / 8.01*	***MATTAMY HOMES LTD.*** ***SUBD.PH.1/DEER PL/THORN LANE*** ***BURLINGTON CITY ON***	*CA*
Certificate #:		7-0770-99-			
Application Year:		99			
Issue Date:		9/20/1999			
Approval Type:		Municipal water			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

97 | ***1 of 4*** | ***SE/167.7*** | ***130.8 / -6.00*** | ***Higginson Equipment Sales*** ***1330 Sutton Dr*** ***Burlington ON L7L 6R6*** | ***SCT***

Established: 1945
Plant Size (ft²): 12500
Employment:

--Details--
Description: Metal Tank (Heavy Gauge) Manufacturing
SIC/NAICS Code: 332420

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Other Motor Vehicle Parts Manufacturing
SIC/NAICS Code: 336390

Description: Railroad Rolling Stock Manufacturing
SIC/NAICS Code: 336510

Description: Other New Motor Vehicle Parts and Accessories Wholesaler-Distributors
SIC/NAICS Code: 415290

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

---

97 | ***2 of 4*** | ***SE/167.7*** | ***130.8 / -6.00*** | ***1023976 ONTARIO LIMITED*** ***1330 SUTTON DRIVE*** ***BURLINGTON ON L7L 6R6*** | ***GEN***

Generator No: ON7765629
SIC Code: 417230
SIC Description: Industrial Machinery Equipment and Supplies Wholesaler-Distributors
Approval Years: 04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

---

97 *3 of 4* *SE/167.7* *130.8 / -6.00* **BADGER DAYLIGHTING LIMITED PARTNERSHIP** **EASR**
1330 SUTTON DR
BURLINGTON ON L7L 0J2

Approval No:	R-004-1110284044	**MOE District:**	Halton-Peel
Status:	REGISTERED	**Municipality:**	BURLINGTON
Date:	2017-12-05	**Latitude:**	43.39416667
Record Type:	EASR	**Longitude:**	-79.77138889
Link Source:	MOFA	**Geometry X:**	
Project Type:	Waste Management System	**Geometry Y:**	
Full Address:			
Approval Type:	EASR-Waste Management System		
SWP Area Name:	Halton		
PDF NAICS Code:			
PDF URL:			
PDF Site Location:			

---

97 *4 of 4* *SE/167.7* *130.8 / -6.00* **CPC Pumps International Inc.** **GEN**
1330 Sutton Drive
Burlington ON L7L 6C2

Generator No:	ON6887592
SIC Code:	
SIC Description:	
Approval Years:	As of Nov 2021
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

98 *1 of 1* *ESE/169.6* *129.8 / -7.00* **5329 John Lucas Drive lot 2 con 2** **WWIS**
Burlington ON

Well ID:	7338355	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	06/14/2019
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	A7RMQKT5	**Contractor:**	7147
Tag:	_NO_TAG	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	002
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	

Clear/Cloudy: ***UTM Reliability:***
Municipality: BURLINGTON CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/733\7338355.pdf

Additional Detail(s) (Map)

Well Completed Date: 05/23/2019
Year Completed: 2019
Depth (m):
Latitude: 43.39687185615
Longitude: -79.7682471612507
X: -79.76824701217048
Y: 43.39687185353903
Path: 733\7338355.pdf

Bore Hole Information

Bore Hole ID: 1007555649 ***Elevation:***
DP2BR: ***Elevrc:***
Spatial Status: ***Zone:*** 17
Code OB: ***East83:*** 599750.00
Code OB Desc: ***North83:*** 4805625.00
Open Hole: ***Org CS:*** UTM83
Cluster Kind: ***UTMRC:*** 4
Date Completed: 05/23/2019 ***UTMRC Desc:*** margin of error : 30 m - 100 m
Remarks: ***Location Method:*** wwr
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1007556041
Layer: 1
Color:
General Color:
Material 1:
Material 1 Desc:
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth:
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007556297
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID:	1007556468
Layer:	1
Plug From:	0.0
Plug To:	6.099999904632568
Plug Depth UOM:	m

Pipe Information

Pipe ID:	1007555810
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1007556120
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	3.0999999046325684
Casing Diameter:	5.0
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1007556185
Layer:	1
Slot:	
Screen Top Depth:	3.0999999046325684
Screen End Depth:	6.099999904632568
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.300000190734863

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1007555811
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Water Details

Water ID:	1007555942
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	3.0
Water Found Depth UOM:	m

99 **1 of 1** **WSW/171.3** **139.8 / 3.00** **ON** **WWIS**

Well ID:	7404749	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	12/07/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z374532	**Contractor:**	7241
Tag:	A336099	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008868855	**Tag No:**	A336099
Depth M:		**Contractor:**	7241
Year Completed:	2021	**Latitude:**	43.3937909342361
Well Completed Dt:	10/13/2021	**Longitude:**	-79.7891894757404
Audit No:	Z374532	**Y:**	43.39379093134337
Path:		**X:**	-79.78918932670575

Bore Hole Information

Bore Hole ID:	1008868855	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598059.00
Code OB Desc:		**North83:**	4805258.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/13/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

100 **1 of 1** **ESE/171.8** **129.8 / -7.03** ***5329 John Lucas Drive lot 1 con 2 Burlington ON*** **WWIS**

Well ID:	7338356	**Flowing (Y/N):**	

Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	06/14/2019
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	LVN3XRI4	**Contractor:**	7147
Tag:	A178960	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/733\7338356.pdf

Additional Detail(s) (Map)

Well Completed Date:	05/23/2019
Year Completed:	2019
Depth (m):	
Latitude:	43.3977610510332
Longitude:	-79.7672042239473
X:	-79.76720407466694
Y:	43.39776104861081
Path:	733\7338356.pdf

Bore Hole Information

Bore Hole ID:	1007555652	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599833.00
Code OB Desc:		**North83:**	4805725.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	05/23/2019	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007556042
Layer:	1
Color:	
General Color:	
Material 1:	
Material 1 Desc:	
Material 2:	
Material 2 Desc:	

Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth:
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007556298
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007556469
Layer: 1
Plug From: 0.0
Plug To: 6.099999904632568
Plug Depth UOM: m

Pipe Information

Pipe ID: 1007555812
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007556121
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 3.0999999046325684
Casing Diameter: 5.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007556186
Layer: 1
Slot:
Screen Top Depth: 3.0999999046325684
Screen End Depth: 6.099999904632568
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.300000190734863

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1007555813
Pump Set At:
Static Level:

Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Water Details

Water ID: 1007555943
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 3.0
Water Found Depth UOM: m

---

101 | ***1 of 1*** | ***WSW/172.0*** | ***139.8 / 3.00*** | ***1989 Appleby Line, Burlington ON L7L 6K3*** | ***EHS***

Order No: 21062200339
Status: C
Report Type: Custom Report
Report Date: 17-AUG-21
Date Received: 22-JUN-21
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.78906257
Y: 43.39374623

---

102 | ***1 of 1*** | ***WSW/172.6*** | ***139.6 / 2.71*** | ***Burlington City of, 5011 Upper Middle Road, Burlington ON*** | ***GEN***

Generator No: ON4839356
SIC Code:
SIC Description:
Approval Years: 03,04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

---

103 | ***1 of 15*** | ***SSE/172.8*** | ***129.8 / -7.00*** | ***CONTROLCHAM CANADA LTD., 5275 JOHN LUCAS DR, BURLINGTON ON L7L 6A8*** | ***SCT***

Established: 1989
Plant Size (ft²): 25000
Employment: 17

--Details--

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Description:		CHEMICALS AND CHEMICAL PREPARATIONS, NOT ELSEWHERE CLASSIFIED			
SIC/NAICS Code:		2899			
103	2 of 15	SSE/172.8	129.8 / -7.00	**CONTROLCHEM CANADA LTD** **5275 JOHN LUCAS DR** **BURLINGTON ON L7L 6A8**	CHM
Headcode:		273600			
Headcode Desc:					
Phone:		9053192234			
List Name:					
Description:					
103	3 of 15	SSE/172.8	129.8 / -7.00	**ControlChem Canada Ltd.** **5275 John Lucas Dr** **Burlington ON L7L 6A8**	SCT
Established:		01-JUL-89			
Plant Size (ft²):		25000			
Employment:					
--Details--					
Description:		All Other Miscellaneous Chemical Product Manufacturing			
SIC/NAICS Code:		325999			
Description:		All Other Miscellaneous Chemical Product Manufacturing			
SIC/NAICS Code:		325999			
103	4 of 15	SSE/172.8	129.8 / -7.00	**CONTROLCHEM CANADA LIMITED** **5275 JOHN LUCAS DRIVE** **BURLINGTON ON L7L 6A8**	GEN
Generator No:		ON2517400			
SIC Code:		3799			
SIC Description:		OTHER CHEM. PROD.			
Approval Years:		99,00,01,02,03,04,05,06,07,08			
PO Box No:					
Country:					
Status:					
Co Admin:					
Choice of Contact:					
Phone No Admin:					
Contaminated Facility:					
MHSW Facility:					
Detail(s)					
Waste Class:		113			
Waste Class Name:		ACID WASTE - OTHER METALS			
103	5 of 15	SSE/172.8	129.8 / -7.00	**CONTROLCHEM CANADA** **5275 JOHN LUCAS DR** **BURLINGTON ON L7L 6A8**	CHM
Headcode:		00273600			
Headcode Desc:		CHEMICALS			
Phone:					
List Name:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description:

---

103 **6 of 15** **SSE/172.8** **129.8 / -7.00** **CONTROLCHEM CANADA LIMITED** **GEN**
5275 John Lucas Drive
Burlington ON L7L 6A8

Generator No: ON2517400
SIC Code: 418410
SIC Description: Chemical (except Agricultural) and Allied Product Wholesaler-Distributors
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

---

103 **7 of 15** **SSE/172.8** **129.8 / -7.00** **5275 John Lucas Drive** **EHS**
Burlington ON L7L 6A8

Order No: 20120517017
Status: C
Report Type: Site Report
Report Date: 5/18/2012 1:44:35 PM
Date Received: 5/17/2012 1:44:53 PM
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality: Burlington
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.770455
Y: 43.392659

---

103 **8 of 15** **SSE/172.8** **129.8 / -7.00** **ControlChem Canada Ltd.** **SPL**
5275 John Lucas Dr
Burlington ON L7L 6A8

Ref No: 2155-8SUMHM
Year:
Incident Dt: 29-MAR-12
Dt MOE Arvl on Scn: 29-MAR-12
MOE Reported Dt: 29-MAR-12
Dt Document Closed:
Site No:
MOE Response: Priority Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: ControlChem Canada Ltd.
Site Address: 5275 John Lucas Dr
Site Region:
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing: 4805214

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Easting: 599444
Incident Cause:
Incident Preceding Spill:
Environment Impact:
Health Env Consequence:
Nature of Impact:
Contaminant Qty:
System Facility Address:
Client Name: ControlChem Canada Ltd.
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Sewage - Municipal/Private and Commercial
Incident Reason:
Incident Summary: Sheldon Creek running white
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class: Pollution Incident Reports (PIRs) and ¿Other¿ calls
Call Report Locatn Geodata:

---

103 ***9 of 15*** ***SSE/172.8*** ***129.8 / -7.00*** ***CONTROLCHEM CANADA LIMITED***
5275 John Lucas Drive
Burlington ON L7L 6A8 ***GEN***

Generator No: ON2517400
SIC Code: 418410
SIC Description: Chemical (except Agricultural) and Allied Product Wholesaler-Distributors
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

---

103 ***10 of 15*** ***SSE/172.8*** ***129.8 / -7.00*** ***CONTROLCHEM CANADA LIMITED***
5275 John Lucas Drive
Burlington ON L7L 6A8 ***GEN***

Generator No: ON2517400
SIC Code: 418410
SIC Description: Chemical (except Agricultural) and Allied Product Wholesaler-Distributors
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

---

103 | ***11 of 15*** | ***SSE/172.8*** | ***129.8 / -7.00*** | ***CONTROLCHEM CANADA LIMITED***
5275 John Lucas Drive
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON2517400
SIC Code: 418410
SIC Description: Chemical (except Agricultural) and Allied Product Wholesaler-Distributors
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

---

103 | ***12 of 15*** | ***SSE/172.8*** | ***129.8 / -7.00*** | ***CONTROLCHEM CANADA***
5275 JOHN LUCAS DR
BURLINGTON ON L7L6A8 | ***CHM***

Headcode: 00273600
Headcode Desc: CHEMICALS
Phone: 9053192234
List Name:
Description:

---

103 | ***13 of 15*** | ***SSE/172.8*** | ***129.8 / -7.00*** | ***CPC Pumps International Inc.***
5275 John Lucas Drive
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON8526451
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L

Waste Class Name: Waste oils/sludges (petroleum based)

---

103 | **14 of 15** | **SSE/172.8** | **129.8 / -7.00** | **CONTROLCHEM CANADA INC.**
5275 JOHN LUCAS DRIVE
BURLINGTON ON L7L6A8 | **NPR2**

NPRI ID: 10707
Facility ID: 344386, 244696
Latitude: 43.3933
Longitude: -79.7723
Note: Substances included on NPRI reports for this NPRI ID are summarized below in the NPRI ID Substances Summary section. Substances listed in the Substances Summary are included on the basis of NPRI ID only. For entities (NPRI ID) with mobile plants and/or more than one facility location, substances listed above may or may not have been reported for specific facilities/mobile locations. The list of substances additionally includes those which have been included on the NPRI report with an unknown quantity or a quantity of 0.

For specific details about substance quantities, years, release/transfer/disposal methods, the reader is referred the facility report:

https://pollution-waste.canada.ca/national-release-inventory/?fromYear=1993&toYear=2022&name=10707

NPRI ID Substances Summary

CAS No: 7647-01-0
Is VOC?: FALSE
Is DF?: FALSE
Name English: Hydrochloric acid
Name French: Acide chlorhydrique
Sort English: Hydrochloric acid
Sort French: Acide chlorhydrique
Is PAH?: FALSE
NPRI: TRUE

CAS No: 107-21-1
Is VOC?: FALSE
Is DF?: FALSE
Name English: Ethylene glycol
Name French: Éthylène glycol
Sort English: Ethylene glycol
Sort French: Éthylèneglycol
Is PAH?: FALSE
NPRI: TRUE

CAS No: 7632-00-0
Is VOC?: FALSE
Is DF?: FALSE
Name English: Sodium nitrite
Name French: Nitrite de sodium
Sort English: Sodium nitrite
Sort French: Nitrite de sodium
Is PAH?: FALSE
NPRI: TRUE

CAS No: NA - M16
Is VOC?: FALSE
Is DF?: FALSE
Name English: Volatile Organic Compounds (VOCs)
Name French: Composés organiques volatils (COV)
Sort English: Volatile Organic Compounds (VOCs)
Sort French: Composés organiques volatils (COV)
Is PAH?: FALSE
NPRI: TRUE

CAS No: 7664-93-9
Is VOC?: FALSE
Is DF?: FALSE
Name English: Sulphuric acid
Name French: Acide sulfurique
Sort English: Sulphuric acid
Sort French: Acide sulfurique
Is PAH?: FALSE
NPRI: TRUE

CAS No: 67-56-1
Is VOC?: TRUE
Is DF?: FALSE
Is PAH?: FALSE
NPRI: TRUE

Name English: Methanol
Name French: Méthanol
Sort English: Methanol
Sort French: Méthanol

Geographic Location

DLS Description:		**Datum:**	1983.0
NTS Description:	B-072-F/030-M-5	**Forward Sort Area:**	L7L
Latitude:	43.3933	**SOMA:**	TRUE
Longitude:	-79.7723	**ON PEMA:**	TRUE
Census Subdiv ID:	3524002	**QC PEMA:**	FALSE
Ecozone ID:	8	**Quebec Windsor Corr:**	TRUE
Water Survey ID:	2	**Province Code:**	ON

NPRI ID Facility ID

NPRI ID: 10707
Facility ID: 244696

Facility

Facility ID:	244696	**IDM ID:**	8075
Portable:	FALSE	**AB Approval ID:**	0
NAICS Primary:	325999	**GHGRP ID:**	0
NAICS Secondary:	0	**ON GHGRP ID:**	0
NAICS Tertiary:	0		

Facility Name: CONTROLCHEM CANADA INC.
Website:

Address

Address1: 5275 John Lucas Drive
Address2:
City: BURLINGTON
Postal Zip: L7L6A8
Prov:

Address Geographic

Latitude:	43.3933	**Datum:**	1983
Longitude:	-79.7723	**Land Survey:**	
UTM Easting:	0.000000	**Topograph:**	
UTM Northing:	0.000000	**Additional Info:**	
UTM Zone:	0		

Primary NAICS Details

NAICS Code:	325999	**Start Date:**	1993
Record Year:	1997	**End Date:**	2001

Key Indus Sector En: Chemicals
Key Indus Sector Fr: Produits chimiques
NAICS Title En: All Other Miscellaneous Chemical Product Manufacturing
NAICS Title Fr: Fabrication de tous les autres produits chimiques divers

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2002	***End Date:***	2006
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All Other Miscellaneous Chemical Product Manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2007	***End Date:***	2011
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All Other Miscellaneous Chemical Product Manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2012	***End Date:***	2016
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All other miscellaneous chemical product manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing chemical products.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de produits chimiques.

NAICS Code:	325999	***Start Date:***	2017
Record Year:	2017	***End Date:***	2021
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All other miscellaneous chemical product manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing chemical products.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de produits chimiques.

NPRI Report

Report ID:	56594	***Repor Type ID:***	1

Report Year:	2011	**New Reporter:**	FALSE
NPRI ID:	10707	**No of Employees:**	28
Company ID:	111108	**Is Compressor:**	FALSE
Facility ID:	244696	**Is NPRI Part 4:**	FALSE
SWR Report ID:	7982	**Is Battery:**	FALSE

Company

Company Name:	Controlchem Holdings Inc.
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916
Website:	

NPRI Report Comment

Description En:	General comments about the facility
Description Fr:	Commentaires généraux à propos de l'installation
Comment:	Due to the change in sales at ControlChem Candda this caused to change in nature of the report.
Note:	Many NPRI Report Comments are truncated in the NPRI data.

NPRI Report Contact

Contact Type:	NPRI	**Phone:**	9053192234
First Name:	Douglas	**Extension:**	
Last Name:	Fast	**Fax:**	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:	E		
Company Name:			

NPRI Report

Report ID:	130493	**Repor Type ID:**	1
Report Year:	2010	**New Reporter:**	TRUE
NPRI ID:	10707	**No of Employees:**	26
Company ID:	111108	**Is Compressor:**	FALSE
Facility ID:	244696	**Is NPRI Part 4:**	FALSE
SWR Report ID:	20100000010707	**Is Battery:**	FALSE

Company

Company Name:	Controlchem Holdings Inc.
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916
Website:	

NPRI Report Contact

Contact Type:	NPRI	**Phone:**	9053192234
First Name:	Douglas	**Extension:**	
Last Name:	Fast	**Fax:**	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:			
Company Name:			

NPRI ID Facility ID

NPRI ID: 10707
Facility ID: 344386

Facility

Facility ID:	344386	***IDM ID:***	0
Portable:	FALSE	***AB Approval ID:***	0
NAICS Primary:	325999	***GHGRP ID:***	0
NAICS Secondary:	0	***ON GHGRP ID:***	0
NAICS Tertiary:	0		

Facility Name: CONTROLCHEM CANADA INC.
Website: www.controlchem.com

Address

Address1: 5275 John Lucas Drive
Address2:
City: BURLINGTON
Postal Zip: L7L6A8
Prov:

Address Geographic

Latitude:	43.3933	***Datum:***	1983
Longitude:	-79.7723	***Land Survey:***	
UTM Easting:	0.000000	***Topograph:***	
UTM Northing:	0.000000	***Additional Info:***	
UTM Zone:	0		

Primary NAICS Details

NAICS Code:	325999	***Start Date:***	1993
Record Year:	1997	***End Date:***	2001

Key Indus Sector En: Chemicals
Key Indus Sector Fr: Produits chimiques
NAICS Title En: All Other Miscellaneous Chemical Product Manufacturing
NAICS Title Fr: Fabrication de tous les autres produits chimiques divers

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2002	***End Date:***	2006

Key Indus Sector En: Chemicals
Key Indus Sector Fr: Produits chimiques
NAICS Title En: All Other Miscellaneous Chemical Product Manufacturing
NAICS Title Fr: Fabrication de tous les autres produits chimiques divers

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2007	***End Date:***	2011

Key Indus Sector En: Chemicals
Key Indus Sector Fr: Produits chimiques
NAICS Title En: All Other Miscellaneous Chemical Product Manufacturing
NAICS Title Fr: Fabrication de tous les autres produits chimiques divers

NAICS Description En:

NAICS Description Fr:

NAICS Code: 325999 ***Start Date:*** 1993
Record Year: 2012 ***End Date:*** 2016
Key Indus Sector En: Chemicals
Key Indus Sector Fr: Produits chimiques
NAICS Title En: All other miscellaneous chemical product manufacturing
NAICS Title Fr: Fabrication de tous les autres produits chimiques divers

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing chemical products.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de produits chimiques.

NAICS Code: 325999 ***Start Date:*** 2017
Record Year: 2017 ***End Date:*** 2021
Key Indus Sector En: Chemicals
Key Indus Sector Fr: Produits chimiques
NAICS Title En: All other miscellaneous chemical product manufacturing
NAICS Title Fr: Fabrication de tous les autres produits chimiques divers

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing chemical products.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de produits chimiques.

NPRI Report

Report ID: 125574 ***Repor Type ID:*** 1
Report Year: 2009 ***New Reporter:*** FALSE
NPRI ID: 10707 ***No of Employees:*** 26
Company ID: 133645 ***Is Compressor:*** FALSE
Facility ID: 344386 ***Is NPRI Part 4:*** FALSE
SWR Report ID: 20090000010707 ***Is Battery:*** FALSE

Company

Company Name: CONTROLCHEM
Trade Name En:
Trade Name Fr:
DUNS No: 248291916
Website: www.controlchem.com

NPRI Report Contact

Contact Type:	NPRI	***Phone:***	9053192234
First Name:	Doug	***Extension:***	
Last Name:	Fast	***Fax:***	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:			
Company Name:			

NPRI Report

Report ID:	141066	***Repor Type ID:***	1
Report Year:	2007	***New Reporter:***	FALSE
NPRI ID:	10707	***No of Employees:***	35
Company ID:	133645	***Is Compressor:***	FALSE
Facility ID:	344386	***Is NPRI Part 4:***	FALSE
SWR Report ID:	20070000010707	***Is Battery:***	FALSE

Company

Company Name:	CONTROLCHEM
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916
Website:	www.controlchem.com

NPRI Report Contact

Contact Type:	NPRI	***Phone:***	9053192234
First Name:	Doug	***Extension:***	
Last Name:	Fast	***Fax:***	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:			
Company Name:			

NPRI Report

Report ID:	264172	***Repor Type ID:***	1
Report Year:	2004	***New Reporter:***	FALSE
NPRI ID:	10707	***No of Employees:***	35
Company ID:	133645	***Is Compressor:***	FALSE
Facility ID:	344386	***Is NPRI Part 4:***	FALSE
SWR Report ID:	20040000010707	***Is Battery:***	FALSE

Company

Company Name:	CONTROLCHEM
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916
Website:	www.controlchem.com

NPRI Report Comment

Description En:	General comments about the facility
Description Fr:	Commentaires généraux à propos de l'installation
Comment:	Please note that Methanol is not reportable in 2004 due to decreased usage of materials containing Methanol.
Note:	Many NPRI Report Comments are truncated in the NPRI data.

NPRI Report Contact

Contact Type:	NPRI	**Phone:**	9053192234
First Name:	Doug	**Extension:**	0
Last Name:	Fast	**Fax:**	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:			
Company Name:			

NPRI Report

Report ID:	156229	**Repor Type ID:**	1
Report Year:	2005	**New Reporter:**	FALSE
NPRI ID:	10707	**No of Employees:**	35
Company ID:	133645	**Is Compressor:**	FALSE
Facility ID:	344386	**Is NPRI Part 4:**	FALSE
SWR Report ID:	20050000010707	**Is Battery:**	FALSE

Company

Company Name:	CONTROLCHEM
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916
Website:	www.controlchem.com

NPRI Report Contact

Contact Type:	NPRI	**Phone:**	9053192234
First Name:	Doug	**Extension:**	0
Last Name:	Fast	**Fax:**	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:			
Company Name:			

NPRI Report

Report ID:	135995	**Repor Type ID:**	1
Report Year:	2006	**New Reporter:**	FALSE
NPRI ID:	10707	**No of Employees:**	35
Company ID:	133645	**Is Compressor:**	FALSE
Facility ID:	344386	**Is NPRI Part 4:**	FALSE
SWR Report ID:	20060000010707	**Is Battery:**	FALSE

Company

Company Name:	CONTROLCHEM
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916

Website: www.controlchem.com

NPRI Report Comment

Description En: NPRI - Report Submission
Description Fr: INRP - Soumission de rapport
Comment: ID and password process is ridiculous. Too many questions.
Note: Many NPRI Report Comments are truncated in the NPRI data.

NPRI Report Comment

Description En: General comments about the facility
Description Fr: Commentaires généraux à propos de l'installation
Comment: Methanol (CAS 67-56-1) is reportable in 2006 due to increasing in sale / distribution of this substance.
Note: Many NPRI Report Comments are truncated in the NPRI data.

NPRI Report Contact

Contact Type: NPRI
First Name: Doug
Last Name: Fast
Email: dfast@controlchem.com
Description En: Public Contact
Description Fr: Responsable des renseignements au public
Position: President
Language:
Company Name:
Phone: 9053192234
Extension:
Fax: 9053190438

NPRI Report

Report ID: 131096
Report Year: 2008
NPRI ID: 10707
Company ID: 133645
Facility ID: 344386
SWR Report ID: 20080000010707
Repor Type ID: 1
New Reporter: FALSE
No of Employees: 26
Is Compressor: FALSE
Is NPRI Part 4: FALSE
Is Battery: FALSE

Company

Company Name: CONTROLCHEM
Trade Name En:
Trade Name Fr:
DUNS No: 248291916
Website: www.controlchem.com

NPRI Report Contact

Contact Type: NPRI
First Name: Doug
Last Name: Fast
Email: dfast@controlchem.com
Description En: Public Contact
Description Fr: Responsable des renseignements au public
Position: President
Language:
Company Name:
Phone: 9053192234
Extension:
Fax: 9053190438

103	15 of 15	SSE/172.8	129.8 / -7.00	***CONTROLCHEM CANADA INC.*** ***5275 JOHN LUCAS DRIVE*** ***BURLINGTON ON L7L6A8***	***NPR2***

NPRI ID: 10707 **Latitude:** 43.3933
Facility ID: 369180 **Longitude:** -79.7723
Note: Substances included on NPRI reports for this NPRI ID are summarized below in the NPRI ID Substances Summary section. Substances listed in the Substances Summary are included on the basis of NPRI ID only. For entities (NPRI ID) with mobile plants and/or more than one facility location, substances listed above may or may not have been reported for specific facilities/mobile locations. The list of substances additionally includes those which have been included on the NPRI report with an unknown quantity or a quantity of 0.

For specific details about substance quantities, years, release/transfer/disposal methods, the reader is referred the facility report:

https://pollution-waste.canada.ca/national-release-inventory/?fromYear=1993&toYear=2022&name=10707

NPRI ID Substances Summary

CAS No: 7632-00-0 **Is PAH?:** FALSE
Is VOC?: FALSE **NPRI:** TRUE
Is DF?: FALSE
Name English: Sodium nitrite
Name French: Nitrite de sodium
Sort English: Sodium nitrite
Sort French: Nitrite de sodium

CAS No: 7664-93-9 **Is PAH?:** FALSE
Is VOC?: FALSE **NPRI:** TRUE
Is DF?: FALSE
Name English: Sulphuric acid
Name French: Acide sulfurique
Sort English: Sulphuric acid
Sort French: Acide sulfurique

CAS No: 107-21-1 **Is PAH?:** FALSE
Is VOC?: FALSE **NPRI:** TRUE
Is DF?: FALSE
Name English: Ethylene glycol
Name French: Éthylène glycol
Sort English: Ethylene glycol
Sort French: Éthylèneglycol

CAS No: NA - M16 **Is PAH?:** FALSE
Is VOC?: FALSE **NPRI:** TRUE
Is DF?: FALSE
Name English: Volatile Organic Compounds (VOCs)
Name French: Composés organiques volatils (COV)
Sort English: Volatile Organic Compounds (VOCs)
Sort French: Composés organiques volatils (COV)

CAS No: 7647-01-0 **Is PAH?:** FALSE
Is VOC?: FALSE **NPRI:** TRUE
Is DF?: FALSE
Name English: Hydrochloric acid
Name French: Acide chlorhydrique
Sort English: Hydrochloric acid
Sort French: Acide chlorhydrique

CAS No: 67-56-1 **Is PAH?:** FALSE
Is VOC?: TRUE **NPRI:** TRUE
Is DF?: FALSE
Name English: Methanol
Name French: Méthanol
Sort English: Methanol
Sort French: Méthanol

Geographic Location

DLS Description:		***Datum:***	1983.0
NTS Description:	B-072-F/030-M-5	***Forward Sort Area:***	L7L
Latitude:	43.3933	***SOMA:***	TRUE
Longitude:	-79.7723	***ON PEMA:***	TRUE
Census Subdiv ID:	3524002	***QC PEMA:***	FALSE
Ecozone ID:	8	***Quebec Windsor Corr:***	TRUE
Water Survey ID:	2	***Province Code:***	ON

NPRI ID Facility ID

NPRI ID:	10707
Facility ID:	369180

Facility

Facility ID:	369180	***IDM ID:***	0
Portable:	FALSE	***AB Approval ID:***	0
NAICS Primary:	325999	***GHGRP ID:***	0
NAICS Secondary:	0	***ON GHGRP ID:***	0
NAICS Tertiary:	0		
Facility Name:			
Website:	www.controlchem.com		

Address

Address1:	5275 John Lucas Drive
Address2:	
City:	BURLINGTON
Postal Zip:	L7L6A8
Prov:	

Address Geographic

Latitude:	43.3933	***Datum:***	1983
Longitude:	-79.7723	***Land Survey:***	
UTM Easting:	0.000000	***Topograph:***	
UTM Northing:	0.000000	***Additional Info:***	
UTM Zone:	0		

Primary NAICS Details

NAICS Code:	325999	***Start Date:***	1993
Record Year:	1997	***End Date:***	2001
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All Other Miscellaneous Chemical Product Manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2002	***End Date:***	2006
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All Other Miscellaneous Chemical Product Manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2007	***End Date:***	2011
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All Other Miscellaneous Chemical Product Manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2012	***End Date:***	2016
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All other miscellaneous chemical product manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing chemical products.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de produits chimiques.

NAICS Code:	325999	***Start Date:***	2017
Record Year:	2017	***End Date:***	2021
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All other miscellaneous chemical product manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing chemical products.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de produits chimiques.

NPRI Report

Report ID:	156231	***Repor Type ID:***	1
Report Year:	2003	***New Reporter:***	FALSE
NPRI ID:	10707	***No of Employees:***	29
Company ID:	133645	***Is Compressor:***	FALSE
Facility ID:	369180	***Is NPRI Part 4:***	FALSE
SWR Report ID:	20030000010707	***Is Battery:***	FALSE

Company

Company Name:	CONTROLCHEM
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916
Website:	www.controlchem.com

NPRI Report Contact

Contact Type:	NPRI	***Phone:***	9053192234
First Name:	Doug	***Extension:***	0
Last Name:	Fast	***Fax:***	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:			
Company Name:			

---

104 ***1 of 1*** ***WSW/173.5*** ***139.8 / 3.00*** ***1989 Applyby Line lot 5 con 2 Burlington ON*** ***WWIS***

Well ID:	7415622	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring and Test Hole	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Monitoring and Test Hole	***Date Received:***	04/14/2022
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	SXRO2NZR	***Contractor:***	7739
Tag:	A339263	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	005
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/741\7415622.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/04/2022
Year Completed:	2022
Depth (m):	6.7
Latitude:	43.3937544015298
Longitude:	-79.7891408125287
X:	-79.78914066408717
Y:	43.39375439962739
Path:	741\7415622.pdf

Bore Hole Information

Bore Hole ID:	1009001385	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17

Code OB:		***East83:***	598063.00
Code OB Desc:		***North83:***	4805254.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	04/04/2022	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1009001536
Layer:	2
Color:	7
General Color:	RED
Material 1:	28
Material 1 Desc:	SAND
Material 2:	34
Material 2 Desc:	TILL
Material 3:	66
Material 3 Desc:	DENSE
Formation Top Depth:	2.5
Formation End Depth:	4.599999904632568
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1009001535
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	01
Material 3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	2.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1009001537
Layer:	3
Color:	7
General Color:	RED
Material 1:	26
Material 1 Desc:	ROCK
Material 2:	
Material 2 Desc:	
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	4.599999904632568
Formation End Depth:	6.699999809265137

Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001654
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001681
Layer: 2
Plug From: 3.0
Plug To: 6.699999809265137
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001680
Layer: 1
Plug From: 0.0
Plug To: 3.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1009001479
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1009001478
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1009001441
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1009001580
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 3.700000047683716

Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1009001607
Layer: 1
Slot: 10
Screen Top Depth: 3.700000047683716
Screen End Depth: 6.699999809265137
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.099999904632568

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1009001442
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1009001629
Diameter: 15.199999809265137
Depth From: 3.0
Depth To: 4.599999904632568
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1009001628
Diameter: 20.299999237060547
Depth From: 0.0
Depth To: 3.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1009001630
Diameter: 9.600000381469727
Depth From: 4.599999904632568
Depth To: 6.699999809265137
Hole Depth UOM: m
Hole Diameter UOM: cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
105	1 of 2	W/173.6	140.8 / 4.00	Upper Middle Road and Orchard Road Burlington ON	CA

Certificate #: 1934-5CRR5Z
Application Year: 02
Issue Date: 8/7/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: 783880 Ontario Limited
Client Address: 427 Montmorency Court
Client City: Hamilton
Client Postal Code: L8K 6K8
Project Description: This application is for the construction of sanitary sewers and appurtenances on Upper Middle Road.
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
105	2 of 2	W/173.6	140.8 / 4.00	783880 Ontario Limited Upper Middle Road and Orchard Road Burlington ON L8K 6K8	ECA

Approval No: 1934-5CRR5Z
Approval Date: 2002-08-07
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
MOE District: Halton-Peel
City:
Longitude: -79.7943
Latitude: 43.4045
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: 783880 Ontario Limited
Address: Upper Middle Road and Orchard Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0138-5CMR38-14.pdf
PDF Site Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
106	1 of 1	W/173.7	140.8 / 4.00	R.M. OF HALTON ORCHARD RD./UPPER MIDDLE RD. BURLINGTON CITY ON	CA

Certificate #: 7-0732-97-
Application Year: 97
Issue Date: 8/5/1997
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	1 of 13	WSW/174.1	139.8 / 3.00	COMMISSO ESSO 1989 APPLEBY LINE BURLINGTON ON L7L 6K3	RST

Headcode: 1186800
Headcode Desc: Service Stations-Gasoline, Oil & Natural Gas

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Phone: 9053159043
List Name:
Description:

---

107 | **2 of 13** | **WSW/174.1** | **139.8 / 3.00** | **VINCE COMMISSO**
1989 APPLEBY LINE
BURLINGTON ON L7L 6K3 | **FSTH**

License Issue Date: 2/4/2004
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 46400
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 46400
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 46400
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

---

107 | **3 of 13** | **WSW/174.1** | **139.8 / 3.00** | **COMMISSO ESSO**
1989 APPLEBY LINE
ON L7L 6K3 | **RST**

Headcode: 01186800
Headcode Desc: SERVICE STATIONS-GASOLINE, OIL & NATURAL GAS
Phone: 9053159043
List Name:
Description:

---

107 | **4 of 13** | **WSW/174.1** | **139.8 / 3.00** | **VINCE COMMISSO**
1989 APPLEBY LINE
BURLINGTON ON L7L 6K3 | **FSTH**

License Issue Date: 2/4/2004 1:17:00 PM
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 46400
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 46400
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 46400
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

---

107 | **5 of 13** | **WSW/174.1** | **139.8 / 3.00** | **Imperial Oil Limited**
1989 Appleby St
Burlington ON L7L 6K3 | **CA**

Certificate #: 7156-7MSQ6B
Application Year: 2009
Issue Date: 1/7/2009
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

107 | **6 of 13** | **WSW/174.1** | **139.8 / 3.00** | **1989 Appleby Line**
Burlington ON L7L6K3 | **EHS**

Order No: 20150428101
Status: C
Report Type: Standard Report
Report Date: 05-MAY-15
Date Received: 28-APR-15
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory

Nearest Intersection:
Municipality: Burlington
Client Prov/State: ON
Search Radius (km): .25
X: -79.789189
Y: 43.393593

---

107 | **7 of 13** | **WSW/174.1** | **139.8 / 3.00** | **Imperial Oil Limited**
1989 Appleby St
Burlington ON M3C 1K5 | **ECA**

Approval No: 7156-7MSQ6B
Approval Date: 2009-01-07
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Imperial Oil Limited
Address: 1989 Appleby St
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6100-7LGNDP-14.pdf
PDF Site Location:

MOE District: Halton-Peel
City:
Longitude: -79.789055
Latitude: 43.393734
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	8 of 13	WSW/174.1	139.8 / 3.00	Mac's Convenience Stores Inc. 1989 Appleby Line Burlington ON L7L 6K3	GEN

Generator No: ON4677881
SIC Code:
SIC Description:
Approval Years: As of Jan 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	9 of 13	WSW/174.1	139.8 / 3.00	Mac's Convenience Stores Inc. 1989 Appleby Line Burlington ON L7L 6K3	GEN

Generator No: ON4677881
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	10 of 13	WSW/174.1	139.8 / 3.00	MAC'S CONVENIENCE STORES INC. 1989 APPLEBY LINE BURLINGTON ON	EXP

Inventory No: 26823942
Inventory Status: inactive
Installation Year: 2003
Capacity: 46400
Capacity Unit: L
Tank Type: Double Wall UST
Manufacturer:
Model:
Description: 2009VBS
Previous Fuel Type:
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	11 of 13	WSW/174.1	139.8 / 3.00	MAC'S CONVENIENCE STORES INC. 1989 APPLEBY LINE BURLINGTON ON	EXP

Inventory No:	26823940	**Tank Material:**	Fiberglass (FRP)
Inventory Status:	inactive	**Corrosion Protect:**	Fiberglass
Installation Year:	2003	**Overfill Protection:**	
Capacity:	46400	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Double Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		
Previous Fuel Type:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	12 of 13	WSW/174.1	139.8 / 3.00	MAC'S CONVENIENCE STORES INC. 1989 APPLEBY LINE BURLINGTON ON	EXP

Inventory No:	26118630	**Tank Material:**	
Inventory Status:	Inactive	**Corrosion Protect:**	
Installation Year:		**Overfill Protection:**	
Capacity:	0	**Inventory Context:**	Liquid Fuels
Capacity Unit:	L	**Inventory Item:**	FS Gasoline Station - Self Serve
Tank Type:			
Manufacturer:			
Model:			
Description:			
Previous Fuel Type:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	13 of 13	WSW/174.1	139.8 / 3.00	MAC'S CONVENIENCE STORES INC. 1989 APPLEBY LINE BURLINGTON ON	EXP

Inventory No:	26823941	**Tank Material:**	Fiberglass (FRP)
Inventory Status:	inactive	**Corrosion Protect:**	Fiberglass
Installation Year:	2003	**Overfill Protection:**	
Capacity:	46400	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Double Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		
Previous Fuel Type:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
108	1 of 1	WSW/180.5	139.8 / 3.00	ON	WWIS

Well ID:	7404750	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	12/07/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z374538	**Contractor:**	7241
Tag:	A338025	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	

Depth to Bedrock: ***Concession:***
Well Depth: ***Concession Name:***
Overburden/Bedrock: ***Easting NAD83:***
Pump Rate: ***Northing NAD83:***
Static Water Level: ***Zone:***
Clear/Cloudy: ***UTM Reliability:***
Municipality: BURLINGTON CITY
Site Info:

Additional Detail(s) (Map)

Bore Hole ID:	1008868858	***Tag No:***	A338025
Depth M:		***Contractor:***	7241
Year Completed:	2021	***Latitude:***	43.3936160961897
Well Completed Dt:	10/12/2021	***Longitude:***	-79.7888348757079
Audit No:	Z374538	***Y:***	43.3936160939292
Path:		***X:***	-79.78883472675672

Bore Hole Information

Bore Hole ID:	1008868858	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	598088.00
Code OB Desc:		***North83:***	4805239.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/12/2021	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

109	***1 of 1***	***SE/182.6***	***130.8 / -6.00***	***lot 3 con 2 ON***	***WWIS***

Well ID:	7382371	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	03/12/2021
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	C27552	***Contractor:***	7675
Tag:	A309250	***Form Version:***	8
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Bore Hole ID: 1008649923
Depth M:
Year Completed: 2021
Well Completed Dt: 02/24/2021
Audit No: C27552
Path:
Tag No: A309250
Contractor: 7675
Latitude: 43.3942542458407
Longitude: -79.7710043459244
Y: 43.394254243928216
X: -79.77100419715164

Bore Hole Information

Bore Hole ID: 1008649923
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 02/24/2021
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 17
East83: 599531.00
North83: 4805331.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

---

110 | ***1 of 1*** | ***SSE/184.9*** | ***129.2 / -7.60*** | ***AMCAST INDUSTRIAL LTD.***
5276 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | ***GEN***

Generator No: ON2086700
SIC Code: 5622
SIC Description: PLUMBING, ETC., WH.
Approval Years: 95,96,97,98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

---

111 | ***1 of 2*** | ***E/186.0*** | ***130.1 / -6.74*** | ***CANADIAN COUNTRY CANDLES***
1329 HEINE CRT
BURLINGTON ON L7L 6A7 | ***SCT***

Established: 1988
Plant Size (ft²): 0
Employment: 9

--Details--
Description: PRESSED & BLOWN GLASS & GLASSWARE, N.E.C.
SIC/NAICS Code: 3229

Description: POTTERY PRODUCTS, N.E.C.

SIC/NAICS Code: 3269

Description: FABRICATED METAL PRODUCTS, N.E.C.
SIC/NAICS Code: 3499

Description: SILVERWARE, PLATED WARE, & STAINLESS STEELWARE
SIC/NAICS Code: 3914

Description: MANUFACTURING INDUSTRIES, N.E.C.
SIC/NAICS Code: 3999

---

111 | **2 of 2** | **E/186.0** | **130.1 / -6.74** | **Cantex Coatings Ltd.**
1329 Heine Crt
Burlington ON L7L 6A7 | **SCT**

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Paint and Coating Manufacturing
SIC/NAICS Code: 325510

Description: All Other Miscellaneous Chemical Product Manufacturing
SIC/NAICS Code: 325999

Description: Paint and Coating Manufacturing
SIC/NAICS Code: 325510

---

112 | **1 of 1** | **SSE/187.9** | **129.8 / -7.00** | **lot 3 con 2**
ON | **WWIS**

Well ID:	7382361	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	03/12/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	C27553	**Contractor:**	7675
Tag:	A309248	**Form Version:**	8
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	003
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008649908	**Tag No:**	A309248
Depth M:		**Contractor:**	7675
Year Completed:	2021	**Latitude:**	43.3933904306275
Well Completed Dt:	02/24/2021	**Longitude:**	-79.7718984828716
Audit No:	C27553	**Y:**	43.39339042843275
Path:		**X:**	-79.7718983341633

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Bore Hole Information

Bore Hole ID:	1008649908	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599460.00
Code OB Desc:		***North83:***	4805234.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	02/24/2021	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

---

113 ***1 of 33*** ***SSW/193.8*** ***132.9 / -3.93***

Regional Municipality Of Halton
5200 Corporate Drive
Burlington ON L7L 7G7

GEN

Generator No:	ON9876410
SIC Code:	621911
SIC Description:	Ambulance (except Air Ambulance) Services
Approval Years:	06,07,08
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	251
Waste Class Name:	OIL SKIMMINGS & SLUDGES
Waste Class:	150
Waste Class Name:	INERT INORGANIC WASTES

---

113 ***2 of 33*** ***SSW/193.8*** ***132.9 / -3.93***

The Regional Municipality of Halton
5200 Corporate Drive
Burlington ON L7L 7G7

CA

Certificate #:	0731-68QH9Z
Application Year:	2005
Issue Date:	1/17/2005
Approval Type:	Air
Status:	Revoked and/or Replaced
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	3 of 33	SSW/193.8	132.9 / -3.93	The Regional Municipality of Halton 5200 Corporate Drive Burlington ON L7L 7G7	CA

Certificate #: 1784-6NTR6W
Application Year: 2006
Issue Date: 4/19/2006
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	4 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality of Halton 5200 Corporate Drive Burlington ON L7L 7G7	GEN

Generator No: ON9299952
SIC Code: 623310
SIC Description: Community Care Facilities for the Elderly
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	5 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality Of Halton 5200 Corporate Drive Burlington ON L7L 7G7	GEN

Generator No: ON9876410
SIC Code: 621911
SIC Description: Ambulance (except Air Ambulance) Services
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251

Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

---

113 *6 of 33* **SSW/193.8** **132.9 / -3.93** **Regional Municipality Of Halton**
5200 Corporate Drive
Burlington ON L7L 7G7
GEN

Generator No: ON9876410
SIC Code: 621911
SIC Description: Ambulance (except Air Ambulance) Services
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

---

113 *7 of 33* **SSW/193.8** **132.9 / -3.93** **Regional Municipality of Halton**
5200 Corporate Drive
Burlington ON L7L 7G7
GEN

Generator No: ON9299952
SIC Code: 623310
SIC Description: Community Care Facilities for the Elderly
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 *8 of 33* **SSW/193.8** **132.9 / -3.93** **Regional Municipality Of Halton**
5200 Corporate Drive
Burlington ON L7L 7G7
GEN

Generator No: ON9876410
SIC Code: 621911
SIC Description: Ambulance (except Air Ambulance) Services
Approval Years: 2011
PO Box No:
Country:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 | ***9 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality of Halton***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9299952
SIC Code: 623310
SIC Description: Community Care Facilities for the Elderly
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 | ***10 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality Of Halton***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9876410
SIC Code: 621911
SIC Description: Ambulance (except Air Ambulance) Services
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	11 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality of Halton 5200 Corporate Drive Burlington ON L7L 7G7	GEN

Generator No: ON9299952
SIC Code: 623310
SIC Description: Community Care Facilities for the Elderly
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	12 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality Of Halton 5200 Corporate Drive Burlington ON	GEN

Generator No: ON9876410
SIC Code: 621911
SIC Description:
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	13 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality of Halton 5200 Corporate Drive Burlington ON	GEN

Generator No: ON9299952
SIC Code: 623310
SIC Description:
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 ***14 of 33*** ***SSW/193.8*** ***132.9 / -3.93*** ***CFOT***

REGIONAL MUNICIPALITY OF HALTON
5200 CORPORATE DR
BURLINGTON ON

Inventory No: 41466017
Inventory Status: Active
Installation Year: 2005
Capacity: 2500
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description:

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Fuel Oil Tank
Inventory Item: FS FUEL OIL TANK

---

113 ***15 of 33*** ***SSW/193.8*** ***132.9 / -3.93*** ***ECA***

The Regional Municipality of Halton
5200 Corporate Drive
Burlington ON L6M 3L1

Approval No: 0731-68QH9Z
Approval Date: 2005-01-17
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-AIR
Project Type: AIR
Business Name: The Regional Municipality of Halton
Address: 5200 Corporate Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1894-667P4P-14.pdf
PDF Site Location:

MOE District: Halton-Peel
City:
Longitude: -79.77991
Latitude: 43.39301
Geometry X:
Geometry Y:

---

113 ***16 of 33*** ***SSW/193.8*** ***132.9 / -3.93*** ***ECA***

The Regional Municipality of Halton
5200 Corporate Drive
Burlington ON L6M 3L1

Approval No: 1784-6NTR6W
Approval Date: 2006-04-19
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-AIR
Project Type: AIR
Business Name: The Regional Municipality of Halton
Address: 5200 Corporate Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1951-6M7TRV-14.pdf
PDF Site Location:

MOE District: Halton-Peel
City:
Longitude: -79.77991
Latitude: 43.39301
Geometry X:
Geometry Y:

---

113 ***17 of 33*** ***SSW/193.8*** ***132.9 / -3.93*** ***GEN***

Regional Municipality of Halton
5200 Corporate Drive

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Burlington ON L7L 7G7	

Generator No: ON9299952
SIC Code: 623310
SIC Description: 623310
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Marlene Hardcastle
Choice of Contact: CO_ADMIN
Phone No Admin: 905-825-6000 Ext.8607
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

113	***18 of 33***	***SSW/193.8***	***132.9 / -3.93***	***Regional Municipality Of Halton*** ***5200 Corporate Drive*** ***Burlington ON L7L 7G7***	***GEN***

Generator No: ON9876410
SIC Code: 621911
SIC Description: 621911
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Linda T Sinker
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905 825-6000 Ext.7035
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

113	***19 of 33***	***SSW/193.8***	***132.9 / -3.93***	***Regional Municipality of Halton*** ***5200 Corporate Drive*** ***Burlington ON L7L 7G7***	***GEN***

Generator No: ON9299952
SIC Code: 623310
SIC Description: 623310
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Marlene Hardcastle
Choice of Contact: CO_ADMIN
Phone No Admin: 905-825-6000 Ext.8607
Contaminated Facility: No
MHSW Facility: No

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 | ***20 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality Of Halton***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9876410
SIC Code: 621911
SIC Description: 621911
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Linda T Sinker
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905 825-6000 Ext.7035
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 | ***21 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality of Halton***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9299952
SIC Code: 623310
SIC Description: 623310
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Marlene Hardcastle
Choice of Contact: CO_ADMIN
Phone No Admin: 905-825-6000 Ext.8607
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 | ***22 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality Of Halton***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9876410
SIC Code: 621911
SIC Description: 621911
Approval Years: 2014
PO Box No:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Country: Canada
Status:
Co Admin: Linda T Sinker
Choice of Contact: CO_ADMIN
Phone No Admin: 905 825-6000 Ext.7035
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	23 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality of Halton Services for Seniors 5200 Corporate Drive Burlington ON L7L 7G7	GEN

Generator No: ON9299952
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	24 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality Of Halton Health Department 5200 Corporate Drive Burlington ON L7L 7G7	GEN

Generator No: ON9876410
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		251 L			
Waste Class Name:		Waste oils/sludges (petroleum based)			
113	25 of 33	SSW/193.8	132.9 / -3.93	**Regional Municipality of Halton Services for Seniors** **5200 Corporate Drive** **Burlington ON L7L 7G7**	GEN
Generator No:		ON9299952			
SIC Code:					
SIC Description:					
Approval Years:		As of Jul 2020			
PO Box No:					
Country:		Canada			
Status:		Registered			
Co Admin:					
Choice of Contact:					
Phone No Admin:					
Contaminated Facility:					
MHSW Facility:					
Detail(s)					
Waste Class:		251 L			
Waste Class Name:		Waste oils/sludges (petroleum based)			
113	26 of 33	SSW/193.8	132.9 / -3.93	**Regional Municipality Of Halton Health Department** **5200 Corporate Drive** **Burlington ON L7L 7G7**	GEN
Generator No:		ON9876410			
SIC Code:					
SIC Description:					
Approval Years:		As of Jul 2020			
PO Box No:					
Country:		Canada			
Status:		Registered			
Co Admin:					
Choice of Contact:					
Phone No Admin:					
Contaminated Facility:					
MHSW Facility:					
Detail(s)					
Waste Class:		251 L			
Waste Class Name:		Waste oils/sludges (petroleum based)			
Waste Class:		312 P			
Waste Class Name:		Pathological wastes			
Waste Class:		150 L			
Waste Class Name:		Inert organic wastes			
113	27 of 33	SSW/193.8	132.9 / -3.93	**Halton Region** **5200 Corporate Drive** **Burlington ON L7L7G7**	GEN
Generator No:		ON4937770			
SIC Code:					
SIC Description:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

113	28 of 33	SSW/193.8	132.9 / -3.93	**Regional Municipality Of Halton Health Department** **5200 Corporate Drive** **Burlington ON L7L 7G7**	GEN

Generator No: ON9876410
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 150 L
Waste Class Name: Inert organic wastes

113	29 of 33	SSW/193.8	132.9 / -3.93	**Regional Municipality of Halton Services for Seniors** **5200 Corporate Drive** **Burlington ON L7L 7G7**	GEN

Generator No: ON9299952
SIC Code:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

113	30 of 33	SSW/193.8	132.9 / -3.93	**Halton Region** **5200 Corporate Drive** **Burlington ON L7L7G7**	GEN

Generator No: ON4937770
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

113	31 of 33	SSW/193.8	132.9 / -3.93	**Halton Region** **5200 Corporate Drive** **Burlington ON L7L7G7**	GEN

Generator No: ON4937770
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 145 L
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 I
Waste Class Name: ORGANIC LABORATORY CHEMICALS

---

113 | ***32 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality of Halton Services for Seniors***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9299952
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 | ***33 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality Of Halton Health Department***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9876410
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150 L
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

---

114 ***1 of 1*** ***WSW/196.0*** ***139.8 / 3.00*** ***ON*** ***WWIS***

Well ID: 7404751
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z374533
Tag: A332670
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 12/07/2021
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Bore Hole ID: 1008868861
Depth M:
Year Completed: 2021
Well Completed Dt: 10/13/2021
Audit No: Z374533
Path:

Tag No: A332670
Contractor: 7241
Latitude: 43.3934815824078
Longitude: -79.7888869453217
Y: 43.39348157983325
X: -79.78888679580079

Bore Hole Information

Bore Hole ID: 1008868861
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/13/2021
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 598084.00
North83: 4805224.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
115	1 of 1	SSW/198.0	132.0 / -4.87	5200 CORPORATE DR Burlington ON	WWIS

Well ID: 7180404
Construction Date:
Use 1st: Monitoring and Test Hole
Use 2nd: 0
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z146344
Tag: A097720
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 05/07/2012
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/718\7180404.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/28/2012
Year Completed: 2012
Depth (m): 6.096
Latitude: 43.3928775588162
Longitude: -79.779502541097
X: -79.77950239190997
Y: 43.39287755637377
Path: 718\7180404.pdf

Bore Hole Information

Bore Hole ID: 1003723946
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 03/28/2012
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 598845.00
North83: 4805168.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004296184
Layer: 2
Color: 7

General Color:	RED
Material 1:	34
Material 1 Desc:	TILL
Material 2:	17
Material 2 Desc:	SHALE
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	5.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004296185
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	34
Material 2 Desc:	TILL
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	10.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004296183
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	01
Material 1 Desc:	FILL
Material 2:	28
Material 2 Desc:	SAND
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004296193
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004296194
Layer:	2
Plug From:	1.0
Plug To:	9.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004296195
Layer:	3
Plug From:	9.0
Plug To:	20.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1004296192
Method Construction Code:	D
Method Construction:	Direct Push
Other Method Construction:	

Pipe Information

Pipe ID:	1004296182
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004296188
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	10.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1004296189
Layer:	1
Slot:	10
Screen Top Depth:	10.0
Screen End Depth:	20.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Water Details

Water ID:	1004296187
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1004296186
Diameter:	8.0
Depth From:	0.0
Depth To:	20.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

116 **1 of 1** **SSW/198.4** **132.0 / -4.87** **5200 CORPORATE DR Burlington ON** **WWIS**

Well ID:	7180402	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring and Test Hole	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	
Final Well Status:	Test Hole	**Date Received:**	05/07/2012
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z146345	**Contractor:**	7241
Tag:	A097721	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/718\7180402.pdf

Additional Detail(s) (Map)

Well Completed Date:	03/28/2012
Year Completed:	2012
Depth (m):	6.096
Latitude:	43.3928776905789
Longitude:	-79.7795148859338
X:	-79.77951473655467
Y:	43.39287768888658
Path:	718\7180402.pdf

Bore Hole Information

Bore Hole ID:	1003723940	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598844.00
Code OB Desc:		**North83:**	4805168.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	03/28/2012	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004296156
Layer:	2
Color:	7
General Color:	RED
Material 1:	34
Material 1 Desc:	TILL
Material 2:	17
Material 2 Desc:	SHALE
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	5.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004296155
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	01
Material 1 Desc:	FILL
Material 2:	28
Material 2 Desc:	SAND
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004296157
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	34
Material 2 Desc:	TILL
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	10.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004296165
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004296166
Layer: 2
Plug From: 1.0
Plug To: 9.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004296167
Layer: 3
Plug From: 9.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1004296164
Method Construction Code: D
Method Construction: Direct Push
Other Method Construction:

Pipe Information

Pipe ID: 1004296154
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004296160
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 10.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1004296161
Layer: 1
Slot: 10
Screen Top Depth: 10.0
Screen End Depth: 20.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.25

Water Details

Water ID: 1004296159
Layer:
Kind Code:
Kind:

Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1004296158
Diameter: 8.0
Depth From: 0.0
Depth To: 20.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

---

117 | ***1 of 1*** | ***SSW/198.7*** | ***131.9 / -4.95*** | ***5200 CORPORATE DR Burlington ON*** | ***WWIS***

Well ID:	7180403	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring and Test Hole	***Data Entry Status:***	
Use 2nd:	0	***Data Src:***	
Final Well Status:	Test Hole	***Date Received:***	05/07/2012
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z146341	***Contractor:***	7241
Tag:	A097719	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	

Municipality: BURLINGTON CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/718\7180403.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/28/2012
Year Completed: 2012
Depth (m): 6.096
Latitude: 43.392868424629
Longitude: -79.7794903769466
X: -79.77949022782737
Y: 43.39286842281962
Path: 718\7180403.pdf

Bore Hole Information

Bore Hole ID:	1003723943	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	598846.00
Code OB Desc:		***North83:***	4805167.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	03/28/2012	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:

Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	1004296169
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	01
Material 1 Desc:	FILL
Material 2:	28
Material 2 Desc:	SAND
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004296170
Layer:	2
Color:	7
General Color:	RED
Material 1:	34
Material 1 Desc:	TILL
Material 2:	17
Material 2 Desc:	SHALE
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	5.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004296171
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	34
Material 2 Desc:	TILL
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	10.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004296179
Layer:	1

Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004296180
Layer: 2
Plug From: 1.0
Plug To: 9.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004296181
Layer: 3
Plug From: 9.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1004296178
Method Construction Code: D
Method Construction: Direct Push
Other Method Construction:

Pipe Information

Pipe ID: 1004296168
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004296174
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 10.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1004296175
Layer: 1
Slot: 10
Screen Top Depth: 10.0
Screen End Depth: 20.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.25

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Water Details

Water ID:	1004296173
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1004296172
Diameter:	8.0
Depth From:	0.0
Depth To:	20.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

---

118 ***1 of 3*** ***E/202.0*** ***130.7 / -6.20*** ***ON LINE EMBOSSING SERVICES*** ***SCT***
1327 HEINE CRT
BURLINGTON ON L7L 6A7

Established:	1975
Plant Size (ft²):	6000
Employment:	6

--Details--

Description:	COMMERCIAL PRINTING, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code:	2759
Description:	PLASTICS PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code:	3089

---

118 ***2 of 3*** ***E/202.0*** ***130.7 / -6.20*** ***LAYDON INDUSTRIES INC.*** ***SCT***
1327 HEINE CRT
BURLINGTON ON L7L 6A7

Established:	1992
Plant Size (ft²):	3500
Employment:	5

--Details--

Description:	INDUSTRIAL & COMMERCIAL MACHINERY & EQUIPMENT, N.E.C.
SIC/NAICS Code:	3599

---

118 ***3 of 3*** ***E/202.0*** ***130.7 / -6.20*** ***First General Services*** ***GEN***
1327 Heine Court
Burlington ON L7L 6A7

Generator No:	ON8587289
SIC Code:	
SIC Description:	
Approval Years:	As of Jan 2021
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	

Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 262 L
Waste Class Name: Detergents and soaps

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

---

119 ***1 of 15*** ***E/202.7*** ***129.8 / -7.00*** ***K.N. Crowder Mfg. Inc.***
1220 Burloak Dr
Burlington ON L7L 6B3 ***SCT***

Established: 01-JAN-51
Plant Size (ft²): 30000
Employment:

--Details--
Description: Hardware Manufacturing
SIC/NAICS Code: 332510

Description: Other Ornamental and Architectural Metal Product Manufacturing
SIC/NAICS Code: 332329

Description: Metal Window and Door Manufacturing
SIC/NAICS Code: 332321

---

119 ***2 of 15*** ***E/202.7*** ***129.8 / -7.00*** ***K. N. CROWDER MFG. INC.***
1220 BURLOAK DR
BURLINGTON ON L7L 6B3 ***GEN***

Generator No: ON6698461
SIC Code: 332510
SIC Description: Hardware Manufacturing
Approval Years: 05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
119	3 of 15	E/202.7	129.8 / -7.00	K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3	GEN

Generator No: ON6698461
SIC Code: 332510
SIC Description: Hardware Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
119	4 of 15	E/202.7	129.8 / -7.00	K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3	GEN

Generator No: ON6698461
SIC Code: 332510
SIC Description: Hardware Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
119	5 of 15	E/202.7	129.8 / -7.00	K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3	GEN

Generator No: ON6698461
SIC Code: 332510
SIC Description: Hardware Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

119 | ***6 of 15*** | ***E/202.7*** | ***129.8 / -7.00*** | ***Burlington Hydro 1220 Burloak Dr Burlington ON*** | ***SPL***

Ref No: 4822-95RJZR
Year:
Incident Dt: 13-MAR-13
Dt MOE Arvl on Scn:
MOE Reported Dt: 13-MAR-13
Dt Document Closed: 14-JUN-13
Site No:
MOE Response: No Further Response (PR-PIR Table A)
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: xfrmr oil spill<UNOFFICIAL>
Site Address: 1220 Burloak Dr
Site Region:
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Leak/Break
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Soil Contamination
Contaminant Qty: 350 L
System Facility Address:
Client Name: Burlington Hydro
Client Type:
Source Type:
Contaminant Code: 15
Contaminant Name: TRANSFORMER OIL (N.O.S.)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Incident Reason: Equipment Failure
Incident Summary: Burlington Hydro: 350L xfrmr oil to grnd, clnd
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Transformer
SAC Action Class: Land Spills
Call Report Locatn Geodata:

---

119 | ***7 of 15*** | ***E/202.7*** | ***129.8 / -7.00*** | ***K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3*** | ***GEN***

Generator No: ON6698461
SIC Code: 332510
SIC Description: Hardware Manufacturing

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

119 | ***8 of 15*** | ***E/202.7*** | ***129.8 / -7.00*** | ***K. N. CROWDER MFG. INC.***
1220 BURLOAK DR
BURLINGTON ON | ***GEN***

Generator No: ON6698461
SIC Code: 332510
SIC Description: HARDWARE MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

119 | ***9 of 15*** | ***E/202.7*** | ***129.8 / -7.00*** | ***K. N. CROWDER MFG. INC.***
1220 BURLOAK DR
BURLINGTON ON L7L 6B3 | ***GEN***

Generator No: ON6698461
SIC Code: 332510
SIC Description: HARDWARE MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
119	10 of 15	E/202.7	129.8 / -7.00	K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3	GEN

Generator No: ON6698461
SIC Code: 332510
SIC Description: HARDWARE MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
119	11 of 15	E/202.7	129.8 / -7.00	K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3	GEN

Generator No: ON6698461
SIC Code: 332510
SIC Description: HARDWARE MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
119	12 of 15	E/202.7	129.8 / -7.00	K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3	GEN

Generator No: ON6698461
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

---

119 | ***13 of 15*** | ***E/202.7*** | ***129.8 / -7.00*** | ***K. N. CROWDER MFG. INC.***
1220 BURLOAK DR
BURLINGTON ON L7L 6B3 | ***GEN***

Generator No: ON6698461
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

---

119 | ***14 of 15*** | ***E/202.7*** | ***129.8 / -7.00*** | ***K. N. CROWDER MFG. INC.***
1220 BURLOAK DR
BURLINGTON ON L7L 6B3 | ***GEN***

Generator No: ON6698461
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 251 I
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

---

119 | **15 of 15** | **E/202.7** | **129.8 / -7.00** | **K. N. CROWDER MFG. INC.**
1220 BURLOAK DR
BURLINGTON ON L7L 6B3 | **GEN**

Generator No: ON6698461
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 251 I
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

120 | **1 of 3** | **E/208.5** | **129.8 / -7.00** | **1453372 Ontario Inc.**
1330 Heine Crt
Burlington ON L6H 2K2 | **ECA**

Approval No: 1674-6LRK2T
Approval Date: 2014-02-12
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-WASTE MANAGEMENT SYSTEMS
Project Type: WASTE MANAGEMENT SYSTEMS
Business Name: 1453372 Ontario Inc.
Address: 1330 Heine Crt
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2264-9D5M3D-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

---

120 | **2 of 3** | **E/208.5** | **129.8 / -7.00** | **1330 Heine Court**
Burlington ON | **EHS**

Order No: 20170707047
Status: C
Report Type: Standard Select Report
Report Date: 13-JUL-17
Date Received: 07-JUL-17
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.765889
Y: 43.398462

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
120	3 of 3	E/208.5	129.8 / -7.00	1330 Heine Court, Burlington BURLINGTON ON	SPL

Ref No: 1-GCZM8
Year:
Incident Dt:
Dt MOE Arvl on Scn:
MOE Reported Dt: 5/20/2021 9:13:13 AM
Dt Document Closed: 8/11/2021 12:23:31 PM
Site No:
MOE Response: Desktop Response
Site County/District:
Site Geo Ref Meth:
Site District Office: Halton-Peel District Office
Nearest Watercourse:
Site Name:
Site Address: 1330 Heine Court, Burlington
Site Region: REGIONAL MUNICIPALITY OF HALTON
Site Municipality: BURLINGTON
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause:
Incident Preceding Spill: Overfill
Environment Impact: 1 Minor Impact
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 100 litre (L)
System Facility Address:
Client Name: DAVIS FUELS
Client Type: Private Business
Source Type: Truck - Only Saddle Tanks
Contaminant Code:
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land
Incident Reason:
Incident Summary: Spartan Response: Spill at McDougall Energy
Activity Preceding Spill: Fueling
Property 2nd Watershed: Lake Ontario and Niagara Peninsula
Property Tertiary Watershed: 02HB-Credit - 16 Mile
Sector Type: PETROLEUM AND PETROLEUM PRODUCTS MERCHANT WHOLESALERS
SAC Action Class:
Call Report Locatn Geodata: {"integration_ids":["PR00000452845"],"wkts":["POINT (-79.7659685000 43.3983330000)"],"creation_date":"2021-05-20"}

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
121	1 of 2	E/211.1	130.9 / -5.92	JM Tek Ltd 1325 Heine Court Burlington ON L7L 6A7	GEN

Generator No: ON3174887
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253 L
Waste Class Name: Emulsified oils

---

121 ***2 of 2*** ***E/211.1*** ***130.9 / -5.92*** ***JM Tek Ltd***
1325 Heine Court
Burlington ON L7L 6A7 ***GEN***

Generator No: ON3174887
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253 L
Waste Class Name: EMULSIFIED OILS

---

122 ***1 of 5*** ***SE/213.3*** ***130.8 / -6.00*** ***Pack-N-Rail Ltd.***
1295 Sutton Dr
Burlington ON L7L 6C2 ***SCT***

Established: 01-AUG-80
Plant Size (ft²):
Employment:

--Details--
Description: Wood Container and Pallet Manufacturing
SIC/NAICS Code: 321920

Description: Packaging and Labelling Services
SIC/NAICS Code: 561910

---

122 ***2 of 5*** ***SE/213.3*** ***130.8 / -6.00*** ***Pack N Rail Ltd.***
1295 Sutton Drive
Burlington ON L7L 6C2 ***GEN***

Generator No: ON5582084
SIC Code:
SIC Description:
Approval Years: 03,04
PO Box No:
Country:
Status:
Co Admin:

Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

---

122 | ***3 of 5*** | ***SE/213.3*** | ***130.8 / -6.00*** | ***Hazmat Environmental Group Ltd. <UNOFFICIAL> 1295 Sutton Drive Burlington ON L7L 6C2*** | ***SPL***

Ref No: 6046-62ESPP
Year:
Incident Dt: 6/29/2004
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/29/2004
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: PACK N RAIL<UNOFFICIAL>
Site Address:
Site Region: Central
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Container Leak (Fuel Tank Barrels)
Incident Preceding Spill:
Environment Impact: Possible
Health Env Consequence:
Nature of Impact: Air Pollution; Human Health/Safety
Contaminant Qty:
System Facility Address:
Client Name: Hazmat Environmental Group Ltd.<UNOFFICIAL>
Client Type:
Source Type:
Contaminant Code: 36
Contaminant Name: ACID FUMES
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Air
Incident Reason: Unknown - Reason not determined
Incident Summary: Hazmat Env. Group: 1 Drum, HBr Sol., Acid Fuming
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Transport Truck
SAC Action Class: Spill to Air
Call Report Locatn Geodata:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group: Gases/Particulate
Impact to Health:
Agency Involved:

---

122 | ***4 of 5*** | ***SE/213.3*** | ***130.8 / -6.00*** | ***Kami Metals 1295 Sutton Drive Burlington ON*** | ***GEN***

Generator No: ON4891685
SIC Code: 488210

SIC Description: SUPPORT ACTIVITIES FOR RAIL TRANSPORTATION
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

122 | **5 of 5** | **SE/213.3** | **130.8 / -6.00** | **1295 Sutton Drive Burlington ON L7L 6C2** | **EHS**

Order No: 23020100402
Status: C
Report Type: Standard Report
Report Date: 06-FEB-23
Date Received: 01-FEB-23
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; Title Searches; City Directory

Nearest Intersection:
Municipality: Halton Region
Client Prov/State: ON
Search Radius (km): .25
X: -79.7700391
Y: 43.3946724

---

123 | **1 of 1** | **WSW/216.4** | **139.8 / 3.00** | **ON** | **WWIS**

Well ID: 7417284
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z384253
Tag: A343726
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 05/10/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Bore Hole ID: 1009023045
Depth M:
Year Completed: 2022
Well Completed Dt: 04/11/2022
Audit No: Z384253
Path:

Tag No: A343726
Contractor: 7241
Latitude: 43.3934056586189
Longitude: -79.7893700135212
Y: 43.393405656927314
X: -79.78936986469817

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Bore Hole Information

Bore Hole ID:	1009023045	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	598045.00
Code OB Desc:		***North83:***	4805215.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	04/11/2022	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

---

124 ***1 of 1*** ***WSW/217.9*** ***139.8 / 3.00*** ***1963 Appleby Line Burlington ON L7L*** ***EHS***

Order No:	20200224138	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	27-FEB-20	***Search Radius (km):***	.25
Date Received:	24-FEB-20	***X:***	-79.790261
Previous Site Name:		***Y:***	43.3938394
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Aerial Photos		

---

125 ***1 of 17*** ***SSE/219.0*** ***128.8 / -8.08*** ***FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON CITY ON L7L 5Z9*** ***CA***

Certificate #:	8-3044-95-
Application Year:	95
Issue Date:	3/31/1995
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	POWDER CURING OVEN, METAL CLEANING UNIT
Contaminants:	Nitrogen Oxides, Phosphoric Acid
Emission Control:	

---

125 ***2 of 17*** ***SSE/219.0*** ***128.8 / -8.08*** ***FROST PRODUCTS LIMITED 5280 JOHN LUCAS DR BURLINGTON ON L7L 5Z9*** ***SCT***

Established:	1962
Plant Size (ft²):	20000
Employment:	20

--Details--

Description:	FABRICATED METAL PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code:	3499

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: OFFICE AND STORE FIXTURES, PARTITIONS, SHELVING, AND LOCKERS, EXCEPT WOOD
SIC/NAICS Code: 2542

Description: ENAMELED IRON AND METAL SANITARY WARE
SIC/NAICS Code: 3431

---

125 | **3 of 17** | **SSE/219.0** | **128.8 / -8.08** | **Frost Products Ltd.**
5280 John Lucas Dr
Burlington ON L7L 5Z9 | **SCT**

Established: 01-AUG-62
Plant Size (ft²): 20000
Employment:

--Details--
Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Showcase, Partition, Shelving and Locker Manufacturing
SIC/NAICS Code: 337215

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

---

125 | **4 of 17** | **SSE/219.0** | **128.8 / -8.08** | **FROST PRODUCTS LTD.**
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | **GEN**

Generator No: ON0707501
SIC Code: 3099
SIC Description: OTHER METAL FAB. IND
Approval Years: 94,95,96,97,98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

---

125 | **5 of 17** | **SSE/219.0** | **128.8 / -8.08** | **FROST PRODUCTS LIMITED**
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | **GEN**

Generator No: ON0707501
SIC Code: 3099
SIC Description: OTHER METAL FAB. IND.
Approval Years: 99,00,01,02,03,04,05,06,07,08
PO Box No:
Country:
Status:

Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

---

125 | ***6 of 17*** | ***SSE/219.0*** | ***128.8 / -8.08*** | ***FROST PRODUCTS LIMITED***
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | ***GEN***

Generator No: ON0707501
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

---

125 **7 of 17** **SSE/219.0** **128.8 / -8.08** **FROST PRODUCTS LIMITED** **GEN**
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9

Generator No: ON0707501
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

---

125 **8 of 17** **SSE/219.0** **128.8 / -8.08** **FROST PRODUCTS LIMITED** **GEN**
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9

Generator No: ON0707501
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 331

Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
125	9 of 17	SSE/219.0	128.8 / -8.08	FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON0707501
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
125	10 of 17	SSE/219.0	128.8 / -8.08	FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON ON	GEN

Generator No: ON0707501
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:

Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

125	11 of 17	SSE/219.0	128.8 / -8.08	FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON0707501
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Curtis WB Biggar
Choice of Contact: CO_ADMIN
Phone No Admin: 905 3325700 Ext.34
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 212

Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

---

125 **12 of 17** **SSE/219.0** **128.8 / -8.08** **FROST PRODUCTS LIMITED**
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 **GEN**

Generator No: ON0707501
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Curtis WB Biggar
Choice of Contact: CO_ADMIN
Phone No Admin: 905 3325700 Ext.34
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

125 **13 of 17** **SSE/219.0** **128.8 / -8.08** **FROST PRODUCTS LIMITED**
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 **GEN**

Generator No: ON0707501
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Curtis WB Biggar
Choice of Contact: CO_ADMIN
Phone No Admin: 905 3325700 Ext.34
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

125	14 of 17	SSE/219.0	128.8 / -8.08	**FROST PRODUCTS LIMITED** **5280 JOHN LUCAS DRIVE** **BURLINGTON ON L7L 5Z9**	GEN

Generator No: ON0707501
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113 L
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
125	15 of 17	SSE/219.0	128.8 / -8.08	FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON0707501
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 113 L
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
125	16 of 17	SSE/219.0	128.8 / -8.08	FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON0707501
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 113 L
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

125	***17 of 17***	***SSE/219.0***	***128.8 / -8.08***	***FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9***	***GEN***

Generator No: ON0707501
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 I
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 146 L
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 263 L
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 113 L
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122 C
Waste Class Name: ALKALINE WASTES - OTHER METALS

---

126 | **1 of 1** | **ESE/219.4** | **129.8 / -7.00** | **5329 JOHN LUCAS DR. Burlington ON** | **WWIS**

Well ID:	7255960	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring and Test Hole	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	
Final Well Status:	Monitoring and Test Hole	**Date Received:**	01/14/2016
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z208481	**Contractor:**	7247
Tag:	A178960	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:			
Site Info:			

Bore Hole Information

Bore Hole ID:	1005867374	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	
Code OB:		**East83:**	
Code OB Desc:		**North83:**	
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	9
Date Completed:	08/19/2015	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005935004
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	84
Material 2 Desc:	SILTY

Material 3:	34
Material 3 Desc:	TILL
Formation Top Depth:	2.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005935005
Layer:	3
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	84
Material 2 Desc:	SILTY
Material 3:	66
Material 3 Desc:	DENSE
Formation Top Depth:	10.0
Formation End Depth:	
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005935003
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	05
Material 2 Desc:	CLAY
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005935013
Layer:	1
Plug From:	0.0
Plug To:	10.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1005935012
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

Pipe ID:	1005935002
Casing No:	0
Comment:	

Alt Name:

Construction Record - Casing

Casing ID:	1005935008
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	12.5
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1005935009
Layer:	1
Slot:	10
Screen Top Depth:	12.5
Screen End Depth:	22.5
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.125

Water Details

Water ID:	1005935007
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	18.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1005935006
Diameter:	6.0
Depth From:	0.0
Depth To:	22.5
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

127	***1 of 1***	***WSW/223.0***	***139.8 / 3.00***	***1989 Applyby Line lot 5 con 2 Burlington ON***	***WWIS***

Well ID:	7415623	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring and Test Hole	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Monitoring and Test Hole	***Date Received:***	04/14/2022
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	ND23IDH4	***Contractor:***	7739
Tag:	A339264	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	005
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	

Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/741\7415623.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/05/2022
Year Completed: 2022
Depth (m): 4.6
Latitude: 43.3932770099976
Longitude: -79.789125623439
X: -79.78912547362242
Y: 43.39327700744737
Path: 741\7415623.pdf

Bore Hole Information

Bore Hole ID: 1009001388
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/05/2022
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 598065.00
North83: 4805201.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1009001539
Layer: 2
Color: 7
General Color: RED
Material 1: 28
Material 1 Desc: SAND
Material 2: 34
Material 2 Desc: TILL
Material 3: 66
Material 3 Desc: DENSE
Formation Top Depth: 2.5
Formation End Depth: 4.599999904632568
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009001538
Layer: 1
Color: 6
General Color: BROWN

Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	01
Material 3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	2.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1009001683
Layer:	2
Plug From:	4.300000190734863
Plug To:	7.900000095367432
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1009001655
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1009001682
Layer:	1
Plug From:	0.0
Plug To:	4.300000190734863
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1009001480
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Method of Construction & Well Use

Method Construction ID:	1009001481
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	1009001443
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1009001581
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	4.900000095367432
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1009001608
Layer:	1
Slot:	10
Screen Top Depth:	4.900000095367432
Screen End Depth:	7.900000095367432
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.099999904632568

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1009001444
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1009001631
Diameter:	20.299999237060547
Depth From:	0.0
Depth To:	3.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1009001633
Diameter:	9.600000381469727
Depth From:	4.599999904632568
Depth To:	7.900000095367432
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Hole Diameter

Hole ID: 1009001632
Diameter: 15.199999809265137
Depth From: 3.0
Depth To: 4.599999904632568
Hole Depth UOM: m
Hole Diameter UOM: cm

128	1 of 1	WSW/224.6	139.8 / 3.00	Halton Standard Condominium 490 2035-2045 Applyby Line Burlington ON L7L 7G8	GEN

Generator No: ON5180890
SIC Code: 814110
SIC Description: Private Households
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

129	1 of 11	WSW/224.7	139.8 / 3.00	R.M. OF HALTON APPLEBY LINE UPPER MIDDLE RD. BURLINGTON CITY ON	CA

Certificate #: 3-1028-86-
Application Year: 86
Issue Date: 7/28/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

129	2 of 11	WSW/224.7	139.8 / 3.00	R.M. OF HALTON - LOTS 5 & 6, CONC. 1 APPLEBY ST./UPPER MIDDLE RD. BURLINGTON CITY ON	CA

Certificate #: 7-0600-92-
Application Year: 92
Issue Date: 8/25/1992
Approval Type: Municipal water
Status: Revised
Application Type:
Client Name:
Client Address:
Client City:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					

129	3 of 11	WSW/224.7	139.8 / 3.00	R.M. OF HALTON APPLEBY LINE UPPER MIDDLE RD. BURLINGTON CITY ON	CA

Certificate #:	7-0827-86-
Application Year:	86
Issue Date:	7/22/1986
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

129	4 of 11	WSW/224.7	139.8 / 3.00	BURLINGTON CITY APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON ON	CA

Certificate #:	3-0754-98-
Application Year:	98
Issue Date:	6/16/1998
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

129	5 of 11	WSW/224.7	139.8 / 3.00	BURLINGTON CITY APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	CA

Certificate #:	3-0144-97-
Application Year:	97
Issue Date:	3/5/1997
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
129	6 of 11	WSW/224.7	139.8 / 3.00	R.M. OF HALTON UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	CA

Certificate #: 7-0422-96-
Application Year: 96
Issue Date: 6/6/1996
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
129	7 of 11	WSW/224.7	139.8 / 3.00	BURLINGTON CITY APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	CA

Certificate #: 3-0815-96-
Application Year: 96
Issue Date: 7/23/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
129	8 of 11	WSW/224.7	139.8 / 3.00	MATTAMY HOMES LTD. UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	CA

Certificate #: 3-0666-99-
Application Year: 99
Issue Date: 6/24/1999
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
129	9 of 11	WSW/224.7	139.8 / 3.00	MATTAMY HOMES LTD. UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	CA

Certificate #: 7-0443-99-
Application Year: 99
Issue Date: 6/24/1999

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

129 | **10 of 11** | **WSW/224.7** | **139.8 / 3.00** | **R.M. OF HALTON**
APPLEBY LINE/UPPER MIDDLE RD.
BURLINGTON CITY ON | **CA**

Certificate #: 7-1038-95-006
Application Year: 95
Issue Date: 11/3/95
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

129 | **11 of 11** | **WSW/224.7** | **139.8 / 3.00** | **Appleby Line & Upper Middle Rd**
Burlington ON | **EHS**

Order No: 20071127017
Status: C
Report Type: CAN - Custom Report
Report Date: 1/28/2008
Date Received: 11/27/2007
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State:
Search Radius (km): 1.5
X: -79.793744
Y: 43.390713

---

130 | **1 of 1** | **N/230.3** | **143.2 / 6.36** | **lot 35 con 1**
ON | **WWIS**

Well ID: 2803728
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/04/1972
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4602
Form Version: 1
Owner:
County: HALTON
Lot: 035
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:

Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2803728.pdf

Additional Detail(s) (Map)

Well Completed Date:	01/24/1972
Year Completed:	1972
Depth (m):	14.9352
Latitude:	43.4091707604293
Longitude:	-79.7748575521292
X:	-79.77485740304655
Y:	43.40917075757539
Path:	280\2803728.pdf

Bore Hole Information

Bore Hole ID:	10150260	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599194.60
Code OB Desc:		**North83:**	4806983.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	01/24/1972	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4

Location Method Desc: Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	931433015
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	8.0
Formation End Depth:	49.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931433013
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	05

Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931433014
Layer: 2
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962803728
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10698830
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930255528
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 17.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930255529
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 49.0
Casing Diameter: 6.0

Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992803728
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 41.0
Recommended Pump Depth: 46.0
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934176609
Test Type: Draw Down
Test Duration: 15
Test Level: 41.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934970753
Test Type: Draw Down
Test Duration: 60
Test Level: 41.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934710439
Test Type: Draw Down
Test Duration: 45
Test Level: 41.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934451237
Test Type: Draw Down
Test Duration: 30
Test Level: 41.0
Test Level UOM: ft

Water Details

Water ID: 933606253
Layer: 1
Kind Code: 1
Kind: FRESH

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Water Found Depth: 21.0
Water Found Depth UOM: ft

Water Details

Water ID: 933606254
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 42.0
Water Found Depth UOM: ft

---

131 | **1 of 1** | **ESE/233.0** | **129.8 / -7.00** | **Burlington**
Burlington ON L7L 6A8 | **EHS**

Order No: 22050200876
Status: C
Report Type: Standard Report
Report Date: 09-MAY-22
Date Received: 02-MAY-22
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory

Nearest Intersection:
Municipality:
Client Prov/State: CA
Search Radius (km): .25
X: -79.7668622
Y: 43.3971987

---

132 | **1 of 1** | **WSW/233.8** | **139.8 / 3.00** | **LISA LISSON**
2075 APPLEBY LINE,UNIT # 209,BURLINGTON, ON,L7L 7H3,CA
ON | **VAR**

Incident No: 3153594
Status: Variance Approved
Incident Reported Dt: 12/21/2021
Incident Created On: 12/21/2021

Item Instance: NULL
Incident Type: FS-Variance
Aband USTs: Abandon UST

---

133 | **1 of 1** | **ESE/234.4** | **129.8 / -7.00** | **5335 John Lucas Drive**
Burlington ON L7L 6A8 | **EHS**

Order No: 20200622219
Status: C
Report Type: Standard Report
Report Date: 25-JUN-20
Date Received: 22-JUN-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.7672019
Y: 43.3968781

---

134 | **1 of 1** | **WSW/240.4** | **139.0 / 2.19** | **1963 Appleby Line**
Burlington ON | **EHS**

Order No: 20060920012
Status: C
Report Type: Complete Report
Report Date: 9/28/2006
Date Received: 9/20/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory

Nearest Intersection: across from Ironstone Drive
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.788742
Y: 43.393055

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
135	1 of 1	W/241.4	140.4 / 3.56	lot 5 con 1 ON	WWIS

Well ID:	2809604	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Abandoned-Other	**Date Received:**	07/09/2002
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	229645	**Contractor:**	3030
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	005
Depth to Bedrock:		**Concession:**	01
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2809604.pdf

Additional Detail(s) (Map)

Well Completed Date:	06/10/2002
Year Completed:	2002
Depth (m):	
Latitude:	43.3989228613702
Longitude:	-79.7865891313026
X:	-79.78658898191266
Y:	43.39892285839655
Path:	280\2809604.pdf

Bore Hole Information

Bore Hole ID:	10531777	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598261.30
Code OB Desc:		**North83:**	4805831.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	06/10/2002	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gis
Location Method Desc:	from gis		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	962809604
Method Construction Code:	0
Method Construction:	Not Known

Other Method Construction:

Pipe Information

Pipe ID: 11080347
Casing No: 1
Comment:
Alt Name:

---

136 ***1 of 1*** ***SE/243.1*** ***130.8 / -6.00*** ***5311 John Lucas Drive Burlington ON*** ***EHS***

Order No: 20141103062
Status: C
Report Type: Standard Report
Report Date: 10-NOV-14
Date Received: 03-NOV-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.768958
Y: 43.395205

---

137 ***1 of 1*** ***W/245.4*** ***143.0 / 6.20*** ***lot 4 con 1 ON*** ***WWIS***

Well ID: 2809656
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 240105
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 10/01/2002
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1663
Form Version: 1
Owner:
County: HALTON
Lot: 004
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2809656.pdf

Additional Detail(s) (Map)

Well Completed Date: 07/31/2002
Year Completed: 2002
Depth (m):
Latitude: 43.4002730957864
Longitude: -79.7865498329971
X: -79.78654968410619
Y: 43.40027309386054
Path: 280\2809656.pdf

Bore Hole Information

Bore Hole ID: 10531829
Elevation:

DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598262.30
Code OB Desc:		**North83:**	4805981.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	07/31/2002	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gis
Location Method Desc:	from gis		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	962809656
Method Construction Code:	A
Method Construction:	Digging
Other Method Construction:	

Pipe Information

Pipe ID:	11080399
Casing No:	1
Comment:	
Alt Name:	

---

138 | ***1 of 1*** | ***SW/249.1*** | ***136.8 / 0.00*** | ***Burlington Hydro***
1822 Imperial Way
Burlington ON | ***SPL***

Ref No:	8624-A89QN8	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	2016/03/21	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	2016/03/21	**Impact to Health:**	
Dt Document Closed:	2016/06/04	**Agency Involved:**	
Site No:	NA		
MOE Response:	No		
Site County/District:			
Site Geo Ref Meth:	1-10 metres eg. Good Quality GPS		
Site District Office:			
Nearest Watercourse:			
Site Name:	Pad mount Transformer<UNOFFICIAL>		
Site Address:	1822 Imperial Way		
Site Region:			
Site Municipality:	Burlington		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:	4805191		
Easting:	598332		
Incident Cause:			
Incident Preceding Spill:	Leak/Break		
Environment Impact:			
Health Env Consequence:			
Nature of Impact:			
Contaminant Qty:	1 L		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

System Facility Address:	
Client Name:	Burlington Hydro
Client Type:	
Source Type:	
Contaminant Code:	13
Contaminant Name:	MINERAL OIL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	Land
Incident Reason:	Equipment Failure
Incident Summary:	Burlington hydro: 1 L non pcb mineral oil to concrete pad; cleaning
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Electric Power Generation
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	

---

139 ***1 of 12*** ***E/255.4*** ***130.1 / -6.78*** ***KONECRANES CANADA INC.***
1320 Heine Crt
Burlington ON L7L 6L9 ***SCT***

Established:	1984
Plant Size (ft²):	0
Employment:	50

--Details--

Description:	Other Plate Work and Fabricated Structural Product Manufacturing
SIC/NAICS Code:	332319
Description:	All Other Industrial Machinery Manufacturing
SIC/NAICS Code:	333299
Description:	Other Engine and Power Transmission Equipment Manufacturing
SIC/NAICS Code:	333619
Description:	Material Handling Equipment Manufacturing
SIC/NAICS Code:	333920
Description:	Switchgear and Switchboard, and Relay and Industrial Control Apparatus Manufacturing
SIC/NAICS Code:	335315
Description:	Aerospace Product and Parts Manufacturing
SIC/NAICS Code:	336410
Description:	All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code:	333990
Description:	Wood Container and Pallet Manufacturing
SIC/NAICS Code:	321920

---

139 ***2 of 12*** ***E/255.4*** ***130.1 / -6.78*** ***Provincial Konecranes Inc.***
1320 Heine Crt
Burlington ON L7L 6L9 ***SCT***

Established:	1992
Plant Size (ft²):	1500
Employment:	15

--Details--

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Description:		Material Handling Equipment Manufacturing			
SIC/NAICS Code:		333920			

139	3 of 12	E/255.4	130.1 / -6.78	**Crane Pro Parts - Div. of Konecranes** **1320 Heine Crt** **Burlington ON L7L 6L9**	SCT

Established:
Plant Size (ft²):
Employment: 50

--Details--
Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

139	4 of 12	E/255.4	130.1 / -6.78	**KONE CRANES** **1320 HEINE COURT** **BURLINGTON ON L7L 6L9**	GEN

Generator No: ON2499200
SIC Code: 3192
SIC Description: CONSTRTUCTION EQUIP.
Approval Years: 99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

139	5 of 12	E/255.4	130.1 / -6.78	**KONECRANES CANADA INC.** **1320 HEINE COURT** **BURLINGTON ON L7L 6L9**	GEN

Generator No: ON2499200
SIC Code:
SIC Description:
Approval Years: 02,03,04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

139 **6 of 12** **E/255.4** **130.1 / -6.78** **Classic Care Pharmacy**
1320 Heine Court
Burlington ON L7L 6L9
GEN

Generator No: ON4848391
SIC Code: 414510
SIC Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
Approval Years: 04,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

Waste Class: 269
Waste Class Name: NON-HALOGENATED PESTICIDES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

139 **7 of 12** **E/255.4** **130.1 / -6.78** **Classic Care Pharmacy**
1320 Heine Court
Burlington ON L7L 6L9
GEN

Generator No: ON4848391
SIC Code: 414510
SIC Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 312

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: PATHOLOGICAL WASTES

---

139 | **8 of 12** | **E/255.4** | **130.1 / -6.78** | **Classic Care Pharmacy**
1320 Heine Court
Burlington ON L7L 6L9 | **GEN**

Generator No: ON4848391
SIC Code: 414510
SIC Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

139 | **9 of 12** | **E/255.4** | **130.1 / -6.78** | **Classic Care Pharmacy**
1320 Heine Court
Burlington ON L7L 6L9 | **GEN**

Generator No: ON4848391
SIC Code: 414510
SIC Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

---

139 | **10 of 12** | **E/255.4** | **130.1 / -6.78** | **1320 Heine Crt**
Burlington ON L7L6L9 | **EHS**

Order No: 20161228014
Status: C
Report Type: Standard Report
Report Date: 03-JAN-17
Date Received: 28-DEC-16
Previous Site Name:
Lot/Building Size:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.765082
Y: 43.398474

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Additional Info Ordered:

---

139 | **11 of 12** | **E/255.4** | **130.1 / -6.78** | **UNIVERSAL MATTER INC.**
1320 HEINE CRT
BURLINGTON ON L7L 6L9 | **EASR**

Approval No:	R-010-9115855074	**MOE District:**	Halton-Peel
Status:	REGISTERED	**Municipality:**	BURLINGTON
Date:	February 9, 2024	**Latitude:**	43.39833333
Record Type:	EASR	**Longitude:**	-79.76527778
Link Source:	MOFA	**Geometry X:**	-8879430.1052000001
Project Type:	Air Emissions	**Geometry Y:**	5372800.1230000034
Full Address:			
Approval Type:	EASR-Air Emissions		
SWP Area Name:	Halton		
PDF NAICS Code:	541710		
PDF URL:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=3309978		
PDF Site Location:	1320 HEINE Court BURLINGTON ON L7L 6L9		

---

139 | **12 of 12** | **E/255.4** | **130.1 / -6.78** | **1320 Heine Court**
Burlington ON L7L 6L9 | **EHS**

Order No:	22013100093	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	03-FEB-22	**Search Radius (km):**	.25
Date Received:	31-JAN-22	**X:**	-79.7651334
Previous Site Name:		**Y:**	43.3984072
Lot/Building Size:			
Additional Info Ordered:			

---

140 | **1 of 1** | **WSW/257.5** | **138.8 / 2.00** | **1940 Ironstone Dr**
Burlington ON L7L0E4 | **EHS**

Order No:	20140425027	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	30-APR-14	**Search Radius (km):**	.25
Date Received:	25-APR-14	**X:**	-79.788297
Previous Site Name:	Property previous vacant land until date unknown	**Y:**	43.392879
Lot/Building Size:			
Additional Info Ordered:			

---

141 | **1 of 31** | **SE/258.1** | **129.8 / -7.00** | **Natrix Separations Inc.**
5295 John Lucas Drive Burlington Regional Municipality of Halton L7L 6A8 CITY OF BURLINGTON
ON | **EBR**

EBR Registry No:	010-4548	**Decision Posted:**	
Ministry Ref No:	8293-7HXNWY	**Exception Posted:**	
Notice Type:	Instrument Decision	**Section:**	
Notice Stage:		**Act 1:**	
Notice Date:	September 08, 2009	**Act 2:**	
Proposal Date:	September 03, 2008	**Site Location Map:**	
Year:	2008		
Instrument Type:	(EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)		
Off Instrument Name:			

Posted By:
Company Name: Natrix Separations Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 5295 John Lucas Drive , Unit 6, Burlington Ontario, Canada L7L 6A8
Comment Period:
URL:

Site Location Details:

5295 John Lucas Drive Burlington Regional Municipality of Halton L7L 6A8 CITY OF BURLINGTON

---

141 | ***2 of 31*** | ***SE/258.1*** | ***129.8 / -7.00*** | ***Nysa Membrane Technologies***
5295 John Lucas dr Unit 6
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON4491252
SIC Code: 541710
SIC Description: Research and Development in the Physical Engineering and Life Sciences
Approval Years: 07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

---

141 | ***3 of 31*** | ***SE/258.1*** | ***129.8 / -7.00*** | ***Natrix Separations Inc.***
5295 John Lucas Dr
Burlington ON L7L 6A8 | ***CA***

Certificate #: 9070-7UPPAG
Application Year: 2009
Issue Date: 8/30/2009
Approval Type: Air
Status: Approved
Application Type:
Client Name:

Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

141 | ***4 of 31*** | ***SE/258.1*** | ***129.8 / -7.00*** | ***Natrix Separations Inc.***
5295 John Lucas Dr Unit 6
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON4491252
SIC Code: 313320
SIC Description: Fabric Coating
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

---

141 | ***5 of 31*** | ***SE/258.1*** | ***129.8 / -7.00*** | ***Natrix Separations Inc.***
5295 John Lucas Dr Unit 6
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON4491252
SIC Code: 313320
SIC Description: Fabric Coating
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

---

141 | **6 of 31** | **SE/258.1** | **129.8 / -7.00** | **Natrix Separations Inc.**
5295 John Lucas Dr Unit 6
Burlington ON L7L 6A8 | **GEN**

Generator No: ON4491252
SIC Code: 313320
SIC Description: Fabric Coating
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	7 of 31	SE/258.1	129.8 / -7.00	Natrix Separations Inc. 5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	GEN

Generator No: ON4491252
SIC Code: 313320
SIC Description: Fabric Coating
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	8 of 31	SE/258.1	129.8 / -7.00	MOHAWK MEDBUY CORPORATION 5295 JOHN LUCAS DR BURLINGTON ON L7L 6A8	EASR

Approval No: R-002-3429798530
Status: REGISTERED
Date: 2014-07-09
Record Type: EASR
Link Source: MOFA
Project Type: Standby Power System
Full Address:
Approval Type: EASR-Standby Power System
SWP Area Name:
PDF NAICS Code:
PDF URL:
PDF Site Location:
MOE District:
Municipality: BURLINGTON
Latitude: 43.39277778
Longitude: 79.77083333
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	9 of 31	SE/258.1	129.8 / -7.00	5295 John Lucas Dr Burlington ON L7L6A8	EHS

Order No: 20131119033
Status: C
Report Type: Standard Report
Nearest Intersection:
Municipality:
Client Prov/State: ON

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Report Date:	28-NOV-13	**Search Radius (km):**	.25
Date Received:	19-NOV-13	**X:**	-79.770527
Previous Site Name:		**Y:**	43.393386
Lot/Building Size:			
Additional Info Ordered:			

---

141 ***10 of 31*** ***SE/258.1*** ***129.8 / -7.00*** ***Natrix Separations Inc.***
5295 John Lucas Dr Unit 6
Burlington ON ***GEN***

Generator No:	ON4491252
SIC Code:	313320
SIC Description:	FABRIC COATING
Approval Years:	2013
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	146
Waste Class Name:	OTHER SPECIFIED INORGANICS
Waste Class:	131
Waste Class Name:	NEUTRALIZED WASTES - HEAVY METALS
Waste Class:	312
Waste Class Name:	PATHOLOGICAL WASTES
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	267
Waste Class Name:	ORGANIC ACIDS
Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	241
Waste Class Name:	HALOGENATED SOLVENTS

---

141 ***11 of 31*** ***SE/258.1*** ***129.8 / -7.00*** ***5295 John Lucas Dr Burlington On***
Burlington ON L7L6A8 ***EHS***

Order No:	20150603106	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	AB
Report Date:	10-JUN-15	**Search Radius (km):**	.25
Date Received:	03-JUN-15	**X:**	-79.770815
Previous Site Name:		**Y:**	43.393354
Lot/Building Size:			
Additional Info Ordered:	City Directory; Aerial Photos		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	12 of 31	SE/258.1	129.8 / -7.00	**Natrix Separations Inc.** **5295 John Lucas Dr** **Burlington ON L7L 6A8**	ECA

Approval No: 9070-7UPPAG
Approval Date: 2009-08-30
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
MOE District: Halton-Peel
City:
Longitude: -79.773094
Latitude: 43.39331
Geometry X:
Geometry Y:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Natrix Separations Inc.
Address: 5295 John Lucas Dr
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8293-7HXNWY-14.pdf
PDF Site Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	13 of 31	SE/258.1	129.8 / -7.00	**WILLARD MANUFACTURING INC.** **5295 JOHN LUCAS DRIVE** **BURLINGTON ON L7L 6A8**	GEN

Generator No: ON4055159
SIC Code: 325610
SIC Description: SOAP AND CLEANING COMPOUND MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 262
Waste Class Name: DETERGENTS/SOAPS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	14 of 31	SE/258.1	129.8 / -7.00	**Natrix Separations Inc.** **5295 John Lucas Dr Unit 6** **Burlington ON L7L 6A8**	GEN

Generator No: ON4491252
SIC Code: 313320
SIC Description: FABRIC COATING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Bradley Kachuik
Choice of Contact: CO_ADMIN
Phone No Admin: 905-319-2682 Ext.104
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

---

141 | **15 of 31** | **SE/258.1** | **129.8 / -7.00** | **Natrix Separations Inc.**
5295 John Lucas Dr Unit 6
Burlington ON L7L 6A8 | **GEN**

Generator No: ON4491252
SIC Code: 313320
SIC Description: FABRIC COATING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Bradley Kachuik
Choice of Contact: CO_ADMIN
Phone No Admin: 905-319-2682 Ext.104
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

---

141 | **16 of 31** | **SE/258.1** | **129.8 / -7.00** | **Natrix Separations Inc.**
5295 John Lucas Dr Unit 6
Burlington ON L7L 6A8 | **GEN**

Generator No: ON4491252
SIC Code: 313320
SIC Description: FABRIC COATING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Bradley Kachuik
Choice of Contact: CO_ADMIN
Phone No Admin: 905-319-2682 Ext.104
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	17 of 31	SE/258.1	129.8 / -7.00	Natrix Separations Inc. 5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	GEN

Generator No: ON4491252
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 131 L
Waste Class Name: Neutralized solutions - containing heavy metals

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 241 B
Waste Class Name: Halogenated solvents and residues

Waste Class: 241 L
Waste Class Name: Halogenated solvents and residues

Waste Class: 261 B
Waste Class Name: Pharmaceuticals

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 268 C
Waste Class Name: Amines

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 267 C

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: Organic acids

---

141 **18 of 31** **SE/258.1** **129.8 / -7.00** **Melrose investments Inc.**
5295 John Lucas drive
Burlington ON L7L 6AB **GEN**

Generator No: ON8066890
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

141 **19 of 31** **SE/258.1** **129.8 / -7.00** **WILLARD MANUFACTURING INC.**
5295 JOHN LUCAS DRIVE
BURLINGTON ON L7L 6A8 **GEN**

Generator No: ON4055159
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 262 L
Waste Class Name: Detergents and soaps

---

141 **20 of 31** **SE/258.1** **129.8 / -7.00** **NATRIX SEPARATIONS INC.**
5295 John Lucas DR
Burlington ON L7L 6A8 **EASR**

Approval No: R-010-7110473513
Status: REGISTERED
Date: 2018-05-28
Record Type: EASR
Link Source: MOFA
Project Type: Air Emissions
Full Address:
Approval Type: EASR-Air Emissions
SWP Area Name: Halton
PDF NAICS Code: 541710
PDF URL:
PDF Site Location:

MOE District: Halton-Peel
Municipality: Burlington
Latitude: 43.39333333
Longitude: -79.77083333
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	21 of 31	SE/258.1	129.8 / -7.00	Mohawk Medbuy Corporation Logistics 5295 John Lucas Drive, Unit 5 Burlington ON L7L 6A8	GEN

Generator No: ON4125909
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113 C
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 261 L
Waste Class Name: Pharmaceuticals

Waste Class: 262 L
Waste Class Name: Detergents and soaps

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	22 of 31	SE/258.1	129.8 / -7.00	Natrix Separations Inc. 5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	GEN

Generator No: ON4491252
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 267 C
Waste Class Name: Organic acids

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 131 L
Waste Class Name: Neutralized solutions - containing heavy metals

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 268 C
Waste Class Name: Amines

Waste Class: 241 B
Waste Class Name: Halogenated solvents and residues

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 241 L
Waste Class Name: Halogenated solvents and residues

Waste Class: 261 B
Waste Class Name: Pharmaceuticals

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

141	23 of 31	SE/258.1	129.8 / -7.00	**Melrose investments Inc.** **5295 John Lucas drive** **Burlington ON L7L 6AB**	GEN

Generator No: ON8066890
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

141	24 of 31	SE/258.1	129.8 / -7.00	**RAMPF Composite Solutions Inc.** **5295 John Lucas Drive Unit 5** **Burlington ON L7L 6A8**	GEN

Generator No: ON8023971
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 232 L
Waste Class Name: Polymeric resins

Waste Class: 131 L
Waste Class Name: Neutralized solutions - containing heavy metals

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 211 H
Waste Class Name: Aromatic solvents and residues

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	25 of 31	SE/258.1	129.8 / -7.00	**Natrix Separations Inc.** **5295 John Lucas Dr Unit 6** **Burlington ON L7L 6A8**	GEN

Generator No: ON4491252
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 131 L
Waste Class Name: Neutralized solutions - containing heavy metals

Waste Class: 267 C
Waste Class Name: Organic acids

Waste Class: 268 C
Waste Class Name: Amines

Waste Class: 261 B
Waste Class Name: Pharmaceuticals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 241 L
Waste Class Name: Halogenated solvents and residues

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 241 B
Waste Class Name: Halogenated solvents and residues

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

141	26 of 31	SE/258.1	129.8 / -7.00	**RAMPF Composite Solutions Inc.** **5295 John Lucas Drive Burlington , ON Canada** **ON**	EBR

EBR Registry No: 019-3264
Ministry Ref No: 9831-BV4R69
Notice Type: Instrument
Notice Stage: Decision
Notice Date:
Proposal Date: March 5, 2021
Year: 2021
Decision Posted: February 17, 2022
Exception Posted:
Section: Part II.1 (20.3 or 20.5)
Act 1: Environmental Protection Act, R.S.O. 1990
Act 2: Environmental Protection Act
Site Location Map: 43.39333,-79.77088
Instrument Type: Environmental Compliance Approval (air)
Off Instrument Name: Environmental Compliance Approval (air) (EPA s.9)
Posted By: Ministry of the Environment, Conservation and Parks
Company Name:
Site Address: 5295 John Lucas Drive Burlington , ON Canada
Location Other:
Proponent Name: RAMPF Composite Solutions Inc.
Proponent Address: RAMPF Composite Solutions Inc. 5295 John Lucas Drive Units 3-5 Burlington, ON L7L 6A8 Canada
Comment Period: March 5, 2021 - April 19, 2021 (45 days) Closed
URL: https://ero.ontario.ca/notice/019-3264

Site Location Details:

141	27 of 31	SE/258.1	129.8 / -7.00	**Elite Pack Inc** **5295 John Lucas Drive Unit 1** **Burlington ON L7L 6A8**	GEN

Generator No: ON5325957
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 213 L
Waste Class Name: Petroleum distillates

---

141 | ***28 of 31*** | ***SE/258.1*** | ***129.8 / -7.00*** | ***RAMPF Composite Solutions Inc.***
5295 John Lucas Dr
Burlington ON L7L 6A8 | ***ECA***

Approval No: 3289-C7ANHK
Approval Date: February 15, 2022
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
MOE District: Halton-Peel
City:
Longitude: -79.773094
Latitude: 43.39331
Geometry X: -8880300.2030999996
Geometry Y: 5372030.5442999965
Approval Type: ECA-AIR
Project Type: AIR
Business Name: RAMPF Composite Solutions Inc.
Address: 5295 John Lucas Dr
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9831-BV4R69-14.pdf
PDF Site Location: 5295 John Lucas Drive
Burlington City, Regional Municipality of Halton
L7L 6A8

---

141 | ***29 of 31*** | ***SE/258.1*** | ***129.8 / -7.00*** | ***RAMPF Composite Solutions Inc.***
5295 John Lucas Drive Unit 5
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON8023971
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 232 L
Waste Class Name: POLYMERIC RESINS

Waste Class: 112 C
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 131 L
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 211 H
Waste Class Name: AROMATIC SOLVENTS

---

141 | **30 of 31** | **SE/258.1** | **129.8 / -7.00** | **Natrix Separations Inc.**
5295 John Lucas Dr Unit 6
Burlington ON L7L 6A8 | **GEN**

Generator No: ON4491252
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 T
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 241 L
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 263 I
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 241 B
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 268 C
Waste Class Name: AMINES

Waste Class: 131 L
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 267 C
Waste Class Name: ORGANIC ACIDS

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 146 L
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212 I
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 261 B
Waste Class Name: PHARMACEUTICALS

Waste Class: 263 L
Waste Class Name: ORGANIC LABORATORY CHEMICALS

---

141 | **31 of 31** | **SE/258.1** | **129.8 / -7.00** | **Rootree Inc.**
5295 John Lucas Drive Unit 1
Burlington ON L7L 6A8 | **GEN**

Generator No: ON5325957
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 L
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 212 I
Waste Class Name: ALIPHATIC SOLVENTS

---

142 | **1 of 1** | **SW/259.2** | **133.8 / -3.01** | **1769 HOBSON DRIVE**
BURLINGTON ON L7L 7C9 | **HINC**

External File Num: FS INC 0709-05331
Fuel Occurrence Type: Pipeline Strike
Date of Occurrence: 8/24/2007
Fuel Type Involved: Natural Gas
Status Desc: Completed - Causal Analysis(End)
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved: Private Dwelling
Service Interruptions: Yes
Property Damage: No
Fuel Life Cycle Stage: Utilization
Root Cause: Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training: Yes Management:Yes Human Factors:Yes
Reported Details:
Fuel Category: Gaseous Fuel
Occurrence Type: Incident
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name: Halton
Approx. Quant. Rel:
Nearby body of water:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Enter Drainage Syst.:
Approx. Quant. Unit:
Environmental Impact:

---

143 **1 of 1** **E/259.9** **130.8 / -6.01** **1315 Heine Court**
Burlington ON L7L 6A7 **EHS**

Order No: 22122000275
Status: C
Report Type: Standard Report
Report Date: 23-DEC-22
Date Received: 20-DEC-22
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.7646078
Y: 43.3988073

---

144 **1 of 17** **SSE/265.9** **127.9 / -8.95** **BLAST CLEANING PROCUCTS LTD.**
5284 JOHN LUCAS DRIVE
BURLINGTON CITY ON L7L 5Z9 **CA**

Certificate #: 8-3044-96-
Application Year: 96
Issue Date: 4/1/1996
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: PAINT SPRAY BOOTH FOR FAB./ASSY. FAC.
Contaminants:
Emission Control:

---

144 **2 of 17** **SSE/265.9** **127.9 / -8.95** **Blast Cleaning Products Limited**
5284 John Lucas Drive CITY OF BURLINGTON
ON **EBR**

EBR Registry No: IA6E0211
Ministry Ref No: 8304496
Notice Type: Instrument Decision
Notice Stage:
Notice Date: August 02, 2001
Proposal Date: February 14, 1996
Year: 1996
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Blast Cleaning Products Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: c/o. D'Orsay Design Build Inc., 47 Winston Grove, Etobicoke Ontario, M8Y 2L1
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

5284 John Lucas Drive CITY OF BURLINGTON

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
144	3 of 17	SSE/265.9	127.9 / -8.95	US FILTERS/BLAST CLEANING PRODUCTS 5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON1655601
SIC Code: 3199
SIC Description: OTHER MACHINERY
Approval Years: 98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
144	4 of 17	SSE/265.9	127.9 / -8.95	BLAST CLEANING PRODUCTS 5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON1655601
SIC Code: 3199
SIC Description: OTHER MACHINERY
Approval Years: 99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
144	5 of 17	SSE/265.9	127.9 / -8.95	5284 John Lucas Dr Burlington ON L7L 5Z9	EHS

Order No: 20041026015
Status: C
Report Type: Custom Report
Report Date: 10/26/04
Date Received: 10/26/04
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.5
X: -79.771843
Y: 43.392517

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
144	6 of 17	SSE/265.9	127.9 / -8.95	ABS PRODUCTION INC 5284 JOHN LUCAS DRIVE	GEN

BURLINGTON ON L7L 5Z9

Generator No: ON5517124
SIC Code: 333519
SIC Description: Other Metalworking Machinery Manufacturing
Approval Years: 06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

144 | **7 of 17** | **SSE/265.9** | **127.9 / -8.95** | **ABS PRODUCTION INC**
5284 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | **GEN**

Generator No: ON5517124
SIC Code: 333519
SIC Description: Other Metalworking Machinery Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

144 | **8 of 17** | **SSE/265.9** | **127.9 / -8.95** | **ABS PRODUCTION INC**
5284 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | **GEN**

Generator No: ON5517124

SIC Code: 333519
SIC Description: Other Metalworking Machinery Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

144	9 of 17	SSE/265.9	127.9 / -8.95	ABS PRODUCTION INC 5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON5517124
SIC Code: 333519
SIC Description: Other Metalworking Machinery Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

144	10 of 17	SSE/265.9	127.9 / -8.95	ABS PRODUCTION INC 5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON5517124
SIC Code: 333519

SIC Description: Other Metalworking Machinery Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

144 **11 of 17** **SSE/265.9** **127.9 / -8.95** **ABS PRODUCTION INC**
5284 JOHN LUCAS DRIVE
BURLINGTON ON **GEN**

Generator No: ON5517124
SIC Code: 333519
SIC Description: OTHER METALWORKING MACHINERY MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

144 **12 of 17** **SSE/265.9** **127.9 / -8.95** **ABS PRODUCTION INC**
5284 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 **GEN**

Generator No: ON5517124
SIC Code: 333519
SIC Description: OTHER METALWORKING MACHINERY MANUFACTURING

Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

144 | ***13 of 17*** | ***SSE/265.9*** | ***127.9 / -8.95*** | ***ABS PRODUCTION INC***
5284 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | ***GEN***

Generator No: ON5517124
SIC Code: 333519
SIC Description: OTHER METALWORKING MACHINERY MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

144 | ***14 of 17*** | ***SSE/265.9*** | ***127.9 / -8.95*** | ***ABS PRODUCTION INC***
5284 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | ***GEN***

Generator No: ON5517124
SIC Code: 333519
SIC Description: OTHER METALWORKING MACHINERY MANUFACTURING
Approval Years: 2014

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

144	15 of 17	SSE/265.9	127.9 / -8.95	ABS PRODUCTION INC 5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON5517124
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 253 T
Waste Class Name: Emulsified oils

144	16 of 17	SSE/265.9	127.9 / -8.95	ABS PRODUCTION INC 5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON5517124
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 253 T
Waste Class Name: Emulsified oils

---

144 | ***17 of 17*** | ***SSE/265.9*** | ***127.9 / -8.95*** | ***ABS PRODUCTION INC***
5284 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | ***GEN***

Generator No: ON5517124
SIC Code:
SIC Description:
Approval Years: As of Jan 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 253 T
Waste Class Name: Emulsified oils

---

145 | ***1 of 1*** | ***SSE/265.9*** | ***127.9 / -8.95*** | ***5284 John Lucas Drive***
Burlington ON L7L 5Z9 | ***EHS***

Order No: 20190208019
Status: C
Report Type: Standard Report
Report Date: 13-FEB-19
Date Received: 08-FEB-19
Previous Site Name:
Lot/Building Size:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.772091
Y: 43.392118

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Additional Info Ordered:					

146 **1 of 6** **E/265.9** **130.9 / -5.97** **CARTER HOLT HARVEY ROOFING INC** **SCT**
1200 BURLOAK DR UNIT 3
BURLINGTON ON L7L 6B4

Established: 0000
Plant Size (ft²): 100000
Employment: 6

--Details--
Description: SHEET METAL WORK
SIC/NAICS Code: 3444

---

146 **2 of 6** **E/265.9** **130.9 / -5.97** **SUMMO STEEL TUBING** **GEN**
1200 BURLOAK DRIVE
BURLINGTON ON L7L 6B3

Generator No: ON2203100
SIC Code: 4223
SIC Description: STEEL REINFORCING
Approval Years: 00,01,02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 270
Waste Class Name: OTHER SPECIFIED ORGANICS

---

146 **3 of 6** **E/265.9** **130.9 / -5.97** **Summo Steel Corp.** **SCT**
1200 Burloak Dr
Burlington ON L7L 6B4

Established: 01-JUN-80
Plant Size (ft²):
Employment:

--Details--
Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Motor Vehicle Metal Stamping
SIC/NAICS Code: 336370

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: Other Motor Vehicle Parts Manufacturing
SIC/NAICS Code: 336390

---

146 *4 of 6* *E/265.9* *130.9 / -5.97* **SUMMO STEEL TUBING**
1200 BURLOAK DRIVE
BURLINGTON ON L7L 6B4 **GEN**

Generator No: ON2203100
SIC Code: 441310
SIC Description: Automotive Parts and Accessories Stores
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

146 *5 of 6* *E/265.9* *130.9 / -5.97* **1200 Burloak Dr**
Burlington ON L7L6B4 **EHS**

Order No: 20150306062
Status: C
Report Type: Custom Report
Report Date: 12-MAR-15
Date Received: 06-MAR-15
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.76342
Y: 43.399584

---

146 *6 of 6* *E/265.9* *130.9 / -5.97* **1200 Burloak Dr**
Burlington ON L7L6B4 **EHS**

Order No: 20160907145
Status: C
Report Type: Standard Report
Report Date: 13-SEP-16
Date Received: 07-SEP-16
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.763841
Y: 43.399376

---

147 *1 of 3* *ESE/267.2* *129.8 / -7.00* **5335 John Lucas Dr**
Burlington ON L7L6A8 **EHS**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Order No:	20150504085	**Nearest Intersection:**	
Status:	C	**Municipality:**	Halton
Report Type:	RSC Report (Urban)	**Client Prov/State:**	ON
Report Date:	11-MAY-15	**Search Radius (km):**	.3
Date Received:	04-MAY-15	**X:**	-79.767151
Previous Site Name:		**Y:**	43.396931
Lot/Building Size:			
Additional Info Ordered:			

---

147 **2 of 3** **ESE/267.2** **129.8 / -7.00** **Yale Industrial Trucks Yale Industrial Trucks**
5335 John Lucas Drive Unit #5
Burlington ON L7L 6A8 **GEN**

Generator No:	ON0192102
SIC Code:	
SIC Description:	
Approval Years:	As of Nov 2021
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	213 I
Waste Class Name:	Petroleum distillates
Waste Class:	251 L
Waste Class Name:	Waste oils/sludges (petroleum based)
Waste Class:	252 L
Waste Class Name:	Waste crankcase oils and lubricants

---

147 **3 of 3** **ESE/267.2** **129.8 / -7.00** **Yale Industrial Trucks Yale Industrial Trucks**
5335 John Lucas Drive Unit #5
Burlington ON L7L 6A8 **GEN**

Generator No:	ON0192102
SIC Code:	
SIC Description:	
Approval Years:	As of Oct 2022
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	212 L
Waste Class Name:	ALIPHATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

---

148 *1 of 2* *ESE/270.8* *129.8 / -7.00* ***MORTIMER'S FINE FOODS***
5341 JOHN LUCAS DR
BURLINGTON ON L7L 6A8 ***SCT***

Established: 1982
Plant Size (ft²): 16000
Employment: 45

--Details--
Description: FOOD PREPARATIONS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 2099

Description: Rendering and Meat Processing from Carcasses
SIC/NAICS Code: 311614

---

148 *2 of 2* *ESE/270.8* *129.8 / -7.00* ***Mortimer's Fine Foods Inc.***
5341 John Lucas Dr
Burlington ON L7L 6A8 ***SCT***

Established: 01-AUG-82
Plant Size (ft²): 16000
Employment:

--Details--
Description: Rendering and Meat Processing from Carcasses
SIC/NAICS Code: 311614

---

149 *1 of 1* *ESE/276.4* *129.8 / -7.00* ***Häfele Canada Inc.***
5323 John Lucas Dr
Burlington ON L7L 6A8 ***SCT***

Established: 01-SEP-83
Plant Size (ft²): 45000
Employment:

--Details--
Description: Hardware Wholesaler-Distributors
SIC/NAICS Code: 416330

Description: Hardware Wholesaler-Distributors
SIC/NAICS Code: 416330

---

150 *1 of 3* *ESE/276.7* *129.5 / -7.30* ***FOSTER TECHNOLOGIES INC.***
5347 JOHN LUCAS DR
BURLINGTON ON L7L 6A8 ***SCT***

Established: 1987
Plant Size (ft²): 0

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Employment:		5			
--Details--					
Description:		Semiconductor and Other Electronic Component Manufacturing			
SIC/NAICS Code:		334410			
150	***2 of 3***	***ESE/276.7***	***129.5 / -7.30***	***Safetran Canada Inc.*** ***5347 John Lucas Dr*** ***Burlington ON L7L 6A8***	***SCT***
Established:					
Plant Size (ft²):					
Employment:					
--Details--					
Description:		All Other Industrial Machinery Manufacturing			
SIC/NAICS Code:		333299			
150	***3 of 3***	***ESE/276.7***	***129.5 / -7.30***	***Gemalto Canada Inc.*** ***5347 John Lucas Dr*** ***Burlington ON L7L 6A8***	***SCT***
Established:					
Plant Size (ft²):					
Employment:					
--Details--					
Description:		Computer Systems Design and Related Services			
SIC/NAICS Code:		541510			
Description:		Software Publishers			
SIC/NAICS Code:		511210			
Description:		Computer Systems Design and Related Services			
SIC/NAICS Code:		541510			
151	***1 of 16***	***WSW/277.0***	***139.8 / 3.00***	***MONARCH CONSTRUCTION LTD.*** ***2000 APPLEBY LINE, A&P STORE*** ***BURLINGTON ON L7L 7H7***	***CA***
Certificate #:		8-3052-98-			
Application Year:		98			
Issue Date:		2/23/1998			
Approval Type:		Industrial air			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:		COMMERCIAL KITCHEN EXHAUST EQUIPMENT			
Contaminants:		Odour/Fumes			
Emission Control:		Panel Filter			
151	***2 of 16***	***WSW/277.0***	***139.8 / 3.00***	***ZELLERS INC.*** ***2000 APPLEBY LINE***	***CA***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				BURLINGTON ON L7L 7H7	

Certificate #: 8-3209-98-
Application Year: 98
Issue Date: 5/20/1998
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: COMMERCIAL KITCHEN EXHAUST EQUIPMENT
Contaminants:
Emission Control:

151	3 of 16	WSW/277.0	139.8 / 3.00	ZELLERS STORE #487 - MILLCROFT CENTRE 2000 APPLEBY LINE BURLINGTON ON L7L 7H7	PES

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

151	4 of 16	WSW/277.0	139.8 / 3.00	ZELLERS STORE #487 - MILLCROFT CENTRE 2000 APPLEBY LINE BURLINGTON ON L7L 7H7	PES

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
151	5 of 16	WSW/277.0	139.8 / 3.00	RRG LANDSCAPING INC. 191 - 2000 APPLEBY LINE BURLINGTON ON L7L 7H7	PES

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Operator	**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
151	6 of 16	WSW/277.0	139.8 / 3.00	2000 Appleby Line, Unit J, Burlington ON	PINC

Incident Id:	2705288	**Pipe Material:**	
Incident No:	548802	**Fuel Category:**	Natural Gas
Incident Reported Dt:		**Health Impact:**	No
Type:	FS-Pipeline Incident	**Environment Impact:**	No
Status Code:	Pipeline Damage Reason Est	**Property Damage:**	Yes
Tank Status:	RC Established	**Service Interrupt:**	Yes
Task No:	3265443	**Enforce Policy:**	Yes
Spills Action Centre:		**Public Relation:**	No
Fuel Type:	Natural Gas	**Pipeline System:**	
Fuel Occurrence Tp:	Vapour Release	**PSIG:**	
Date of Occurrence:	2/15/2011 0:00	**Attribute Category:**	FS-Perform P-line Inc Invest
Occurrence Start Dt:	2011/03/23	**Regulator Location:**	
Depth:		**Method Details:**	E-mail
Customer Acct Name:			
Incident Address:			
Operation Type:	Industrial / Manufacturing Facility		
Pipeline Type:			
Regulator Type:			
Summary:	2000 Appleby Line, Unit J, Burlington - Vapour Release		
Reported By:	Lawrence, Louise - Union Gas		
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)		
Occurrence Desc:			
Damage Reason:	Excavation practices not sufficient		
Notes:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
151	7 of 16	WSW/277.0	139.8 / 3.00	2000 Appleby Line Burlington ON L7L 7H7	EHS

Order No:	20120214022	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	2/23/2012 9:50:11 AM	**Search Radius (km):**	0.25
Date Received:	2/14/2012 9:47:42 AM	**X:**	-79.793759
Previous Site Name:		**Y:**	43.394135

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans;

---

151 **8 of 16** **WSW/277.0** **139.8 / 3.00** **TARGET CANADA CO.** **EASR**
2000 APPLEBY LINE
BURLINGTON ON L7L 7H7

Approval No:	R-003-1239435285	**MOE District:**	Halton-Peel
Status:	REGISTERED	**Municipality:**	BURLINGTON
Date:	2012-10-25	**Latitude:**	43.39368
Record Type:	EASR	**Longitude:**	-79.791725
Link Source:	MOFA	**Geometry X:**	
Project Type:	Heating System	**Geometry Y:**	
Full Address:			
Approval Type:	EASR-Heating System		
SWP Area Name:	Halton		
PDF NAICS Code:			
PDF URL:			
PDF Site Location:			

---

151 **9 of 16** **WSW/277.0** **139.8 / 3.00** **TARGET CANADA CO.** **EASR**
2000 APPLEBY LINE
BURLINGTON ON L7L 7H7

Approval No:	R-002-4252235367	**MOE District:**	Halton-Peel
Status:	REGISTERED	**Municipality:**	BURLINGTON
Date:	2012-10-26	**Latitude:**	43.39368
Record Type:	EASR	**Longitude:**	-79.791725
Link Source:	MOFA	**Geometry X:**	
Project Type:	Standby Power System	**Geometry Y:**	
Full Address:			
Approval Type:	EASR-Standby Power System		
SWP Area Name:	Halton		
PDF NAICS Code:			
PDF URL:			
PDF Site Location:			

---

151 **10 of 16** **WSW/277.0** **139.8 / 3.00** **TARGET CANADA CO. STORE# T3761** **PES**
2000 APPLEBY LINE
BURLINGTON ON L7L7H7

Detail Licence No:		**Operator Box:**	
Licence No:	16319	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	905
Licence Type:	Limited Vendor	**Oper Phone No:**	3364180
Licence Type Code:	23	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
151	11 of 16	WSW/277.0	139.8 / 3.00	ZELLERS 2000 APPLEBY Line BURLINGTON ON L7L6M5	NPRI

NPRI ID:	8800000415	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	Mr.
Rpt Type ID:		**Cont First Name:**	FRED
Report Year:	2004	**Cont Last Name:**	WARE
Not-Current Rpt?:		**Contact Position:**	SENIOR MANAGER ENERGY ENVIRONMENT SOURCING INITIATIVES
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	ZELLERS STORE, #487 MILLCROFT CENTRE	**Cont Area Code:**	416
Fac Address1:		**Contact Tel.:**	8614938
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	
Facility Lat:		**Contact Fax:**	
Facility Long:		**Contact Email:**	fred.ware@hbc.com
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	20	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real Estate and Rental and Leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of Real Estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Substance Release Report

CAS No:	11104-93-1
Report ID:	
Rpt Period:	2004
Subst Released:	Nitrogen oxides (expressed as NO2)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

CAS No:	NA - M16
Report ID:	
Rpt Period:	2004
Subst Released:	Volatile Organic Compounds (VOCs)
Air:	
Water:	
Land:	

Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M08
Report ID:
Rpt Period: 2004
Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004

Subst Released:	PM2.5 - Particulate Matter <= 2.5 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	124-38-9
Report ID:	
Rpt Period:	2004
Subst Released:	Carbon dioxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M09
Report ID:	
Rpt Period:	2004
Subst Released:	PM10 - Particulate Matter <= 10 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

151	***12 of 16***	***WSW/277.0***	***139.8 / 3.00***	***Target Canada Co. 2000 APPLEBY LINE BURLINGTON ON***	***GEN***

Generator No:	ON8422744
SIC Code:	452112
SIC Description:	
Approval Years:	2013
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES
Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	261
Waste Class Name:	PHARMACEUTICALS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 262
Waste Class Name: DETERGENTS/SOAPS

Waste Class: 269
Waste Class Name: NON-HALOGENATED PESTICIDES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

151	13 of 16	WSW/277.0	139.8 / 3.00	Target Canada Co. 2000 APPLEBY LINE BURLINGTON ON L7L 7H7	GEN

Generator No: ON8422744
SIC Code: 452112
SIC Description: 452112
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Carolyn Bue
Choice of Contact: CO_ADMIN
Phone No Admin: 800-587-2228 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 262
Waste Class Name: DETERGENTS/SOAPS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 269
Waste Class Name: NON-HALOGENATED PESTICIDES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

151	***14 of 16***	***WSW/277.0***	***139.8 / 3.00***	***Target Canada Co.*** ***2000 APPLEBY LINE*** ***BURLINGTON ON L7L 7H7***	***GEN***

Generator No: ON8422744
SIC Code: 452112
SIC Description: 452112
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Carolyn Bue
Choice of Contact: CO_ADMIN
Phone No Admin: 800-587-2228 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 262
Waste Class Name: DETERGENTS/SOAPS

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class:	112
Waste Class Name:	ACID WASTE - HEAVY METALS
Waste Class:	122
Waste Class Name:	ALKALINE WASTES - OTHER METALS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	269
Waste Class Name:	NON-HALOGENATED PESTICIDES
Waste Class:	213
Waste Class Name:	PETROLEUM DISTILLATES
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES
Waste Class:	312
Waste Class Name:	PATHOLOGICAL WASTES

151 **15 of 16** **WSW/277.0** **139.8 / 3.00** **PES**

ZELLERS STORE #487 - MILLCROFT CENTRE
2000 APPLEBY LINE
BURLINGTON ON L7L6M5

Detail Licence No:		**Operator Box:**	
Licence No:	12933	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	905
Licence Type:	Limited Vendor	**Oper Phone No:**	3317743
Licence Type Code:	23	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

151 **16 of 16** **WSW/277.0** **139.8 / 3.00** **PES**

RRG LANDSCAPING INC.
191 - 2000 APPLEBY LINE
BURLINGTON ON L7L7H7

Detail Licence No:		**Operator Box:**	
Licence No:	06527	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	905
Licence Type:	Operator	**Oper Phone No:**	3365613
Licence Type Code:	02	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:		**Oper Concession:**	

Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

152 | ***1 of 11*** | ***SE/280.0*** | ***130.0 / -6.87*** | ***L. E. Taylor Associates Ltd.***
5305 John Lucas Dr
Burlington ON L7L 6A8 | ***SCT***

Established: 01-MAY-64
Plant Size (ft²): 50000
Employment:

--Details--
Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Plumbing, Heating and Air-Conditioning Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 416120

---

152 | ***2 of 11*** | ***SE/280.0*** | ***130.0 / -6.87*** | ***Staveley Services Canada Inc.***
5305 John Lucas Drive
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON4108754
SIC Code:
SIC Description:
Approval Years: 03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

---

152 | ***3 of 11*** | ***SE/280.0*** | ***130.0 / -6.87*** | ***Applus RTD Canada*** | ***GEN***
5305 John Lucas Drive
Burlington ON

Generator No: ON4108754
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

---

152 | ***4 of 11*** | ***SE/280.0*** | ***130.0 / -6.87*** | ***5305 John Lucas Drive, Unit 1*** | ***EHS***
Burlington ON L7L 6A8

Order No: 20080221027
Status: C
Report Type: Complete Report
Report Date: 3/3/2008
Date Received: 2/21/2008
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans; Title Search; Aerials Photos; City Directory; Topographical Maps
Nearest Intersection:
Municipality:
Client Prov/State: OH
Search Radius (km): 0.25
X: -79.769345
Y: 43.394621

---

152 | ***5 of 11*** | ***SE/280.0*** | ***130.0 / -6.87*** | ***Applus RTD Canada*** | ***GEN***
5305 John Lucas Drive
Burlington ON L7L 6A8

Generator No: ON4108754
SIC Code: 332999

SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

---

152 | **6 of 11** | **SE/280.0** | **130.0 / -6.87** | **Applus RTD Canada**
5305 John Lucas Drive
Burlington ON L7L 6A8 | **GEN**

Generator No: ON4108754
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
152	7 of 11	SE/280.0	130.0 / -6.87	Applus RTD Canada 5305 John Lucas Drive Burlington ON L7L 6A8	GEN

Generator No: ON4108754
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
152	8 of 11	SE/280.0	130.0 / -6.87	Applus RTD Canada 5305 John Lucas Drive Burlington ON L7L 6A8	GEN

Generator No: ON4108754
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 241

Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

152 | **9 of 11** | **SE/280.0** | **130.0 / -6.87** | **Applus RTD Canada**
5305 John Lucas Drive
Burlington ON L7L 6A8 | **GEN**

Generator No: ON4108754
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Mark Wiedener
Choice of Contact: CO_ADMIN
Phone No Admin: 905-333-3004 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

152 | **10 of 11** | **SE/280.0** | **130.0 / -6.87** | **Rowhedge construction Limited**
5305 John luccas drive
Burlington ON L7L 6A8 | **GEN**

Generator No: ON3906063
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

152 | ***11 of 11*** | ***SE/280.0*** | ***130.0 / -6.87*** | ***Rowhedge construction Limited*** | ***GEN***
5305 John luccas drive
Burlington ON L7L 6A8

Generator No: ON3906063
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

153 | ***1 of 1*** | ***SW/280.6*** | ***136.8 / 0.00*** | ***1819 MCCOY AVENUE, BURLINGTON ON*** | ***INC***

Incident No:	1924460	**Any Health Impact:**	No
Incident ID:		**Any Enviro Impact:**	No
Instance No:		**Service Intrp:**	Yes
Status Code:		**Was Prop Damaged:**	Yes
Incident Status:		**Reside App. Type:**	
Incident Severity:		**Commer App. Type:**	
Task No:	6290785	**Indus App. Type:**	
Attribute Category:	FS-Perform L1 Incident Insp	**Institut App. Type:**	
Context:		**Depth Ground Cover:**	
Date of Occurrence:	2016/08/17 00:00:00	**Operation Pressure:**	
Time of Occurrence:	10:00:00	**Equipment Type:**	
Occr Insp Start Dt:	2016/08/17 00:00:00	**Equipment Model:**	
Incident Creat On:		**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	
Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:	Fire	**Contam. Migrated:**	
Occur Type Rpt:		**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:	Natural Gas	**Sub Surface Contam:**	
Fuel Type Reported:		**Tank Material Type:**	
Enforcement Policy:	NULL	**Tank Storage Type:**	
Prc Escalation Req:	NULL	**Tank Location Type:**	

Item:
Item Description:
Device Installed Location:
Venting Type:
Vent Conn Mater:
Vent Chimney Mater:
Pipeline Type:
Pipeline Involved:
Pipe Material:
Regulator Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Regulator Type:
Liquid Prop Make:
Liquid Prop Model:
Liquid Prop Serial No:
Liquid Prop Notes:
Inventory Address: 1819 MCCOY AVENUE, BURLINGTON - FIRE
Invent Postal Code:
Notes:
Contact Natural Env:
Aff Prop Use Water:
Occurence Narrative: furnace control fire
Operation Type Involved: Private Dwelling

154	*1 of 26*	*E/285.9*	*129.8 / -7.00*	***BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON L7R 3X5***	***PRT***

Location ID: 2398
Type: private
Expiry Date:
Capacity (L): 11365.00
Licence #: 0001018101

154	*2 of 26*	*E/285.9*	*129.8 / -7.00*	***BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON L7R3X5***	***PRT***

Location ID: 2398
Type: retail
Expiry Date:
Capacity (L): 11365
Licence #: 0001023543

154	*3 of 26*	*E/285.9*	*129.8 / -7.00*	***MINISTRY OF NATURAL RESOURCES BRONTE CREEK PROVINCIAL PARK 1219 BURLOAK DRIVE BURLINGTON ON L7R 3X5***	***GEN***

Generator No: ON0124104
SIC Code: 8272
SIC Description: RES. CONS./IND. DEV.
Approval Years: 86,87,88,89,90,92,93,97,98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	4 of 26	E/285.9	129.8 / -7.00	MINISTRY OF NATURAL RESOURCES 25-085 BRONTE CREEK PROVINCIAL PARK 1219 BURLOAK DRIVE BURLINGTON ON L7R 3X5	GEN

Generator No: ON0124104
SIC Code: 8272
SIC Description: RES. CONS./IND. DEV.
Approval Years: 94,95,96
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	5 of 26	E/285.9	129.8 / -7.00	MINISTRY OF NATURAL RESOURCES 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	GEN

Generator No: ON0124104
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 243
Waste Class Name: PCB'S

Waste Class: 243
Waste Class Name: PCB'S

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	6 of 26	E/285.9	129.8 / -7.00	BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON	FSTH

License Issue Date: 1/30/1992
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1987
Corrosion Protection:
Capacity: 9092
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1987
Corrosion Protection:
Capacity: 2273
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	7 of 26	E/285.9	129.8 / -7.00	BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON	FSTH

License Issue Date: 1/30/1992
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1987
Corrosion Protection:
Capacity: 9092
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1987
Corrosion Protection:
Capacity: 2273
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	8 of 26	E/285.9	129.8 / -7.00	BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 9290860
Status: EXPIRED
Instance ID: 384638
Expired Date:
Max Hazard Rank:
Facility Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Instance Type:	FS Facility	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	Fuels Safety Private Fuel Outlet - Self Serve		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

154	***9 of 26***	***E/285.9***	***129.8 / -7.00***	***BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10627473	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	29570	***Facility Location:***	
Instance Type:	FS Piping	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Record Date:		Up to Mar 2012			

154	10 of 26	E/285.9	129.8 / -7.00	BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10627428	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	31759	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

154	11 of 26	E/285.9	129.8 / -7.00	MINISTRY OF NATURAL RESOURCES 1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	GEN

Generator No:	ON0124104
SIC Code:	912910
SIC Description:	Other Provincial and Territorial Public Administration
Approval Years:	2009
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	213
Waste Class Name:	PETROLEUM DISTILLATES

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

154 **12 of 26** **E/285.9** **129.8 / -7.00** ***MINISTRY OF NATURAL RESOURCES***
1219 BURLOAK DRIVE
OAKVILLE ON L6M 4J7 **GEN**

Generator No: ON0124104
SIC Code: 912910
SIC Description: Other Provincial and Territorial Public Administration
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

154 **13 of 26** **E/285.9** **129.8 / -7.00** ***MINISTRY OF NATURAL RESOURCES***
1219 BURLOAK DRIVE
OAKVILLE ON L6M 4J7 **GEN**

Generator No: ON0124104
SIC Code: 912910
SIC Description: Other Provincial and Territorial Public Administration
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251

Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

154 | **14 of 26** | **E/285.9** | **129.8 / -7.00** | **BRONTE CREEK PROV PARK ATTN JIM MCNABB**
1219 BURLOAK DR
BURLINGTON ON | **FST**

Inventory No: 10627304
Inventory Status: Active
Installation Year:
Capacity:
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK

Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

154 | **15 of 26** | **E/285.9** | **129.8 / -7.00** | **BRONTE CREEK PROV PARK ATTN JIM MCNABB**
1219 BURLOAK DR
BURLINGTON ON | **FST**

Inventory No: 10627350
Inventory Status: Active
Installation Year:
Capacity:
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK

Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

154 | **16 of 26** | **E/285.9** | **129.8 / -7.00** | **MINISTRY OF NATURAL RESOURCES**
1219 BURLOAK DRIVE
OAKVILLE ON L6M4J7 | **GEN**

Generator No: ON0124104
SIC Code: 912910
SIC Description: Other Provincial and Territorial Public Administration
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

---

154 | ***17 of 26*** | ***E/285.9*** | ***129.8 / -7.00*** | ***MINISTRY OF NATURAL RESOURCES 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7*** | ***GEN***

Generator No: ON0124104
SIC Code: 912910
SIC Description: OTHER PROVINCIAL AND TERRITORIAL PUBLIC ADMINISTRATION
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Christine Prince
Choice of Contact: CO_ADMIN
Phone No Admin: 905-827-6911 Ext.225
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 243
Waste Class Name: PCBS

---

154 | ***18 of 26*** | ***E/285.9*** | ***129.8 / -7.00*** | ***MINISTRY OF NATURAL RESOURCES 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7*** | ***GEN***

Generator No: ON0124104
SIC Code: 912910
SIC Description: OTHER PROVINCIAL AND TERRITORIAL PUBLIC ADMINISTRATION
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Christine Prince

Choice of Contact: CO_ADMIN
Phone No Admin: 905-827-6911 Ext.225
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 243
Waste Class Name: PCBS

---

154 | ***19 of 26*** | ***E/285.9*** | ***129.8 / -7.00*** | ***MINISTRY OF NATURAL RESOURCES 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7*** | ***GEN***

Generator No: ON0124104
SIC Code: 912910
SIC Description: OTHER PROVINCIAL AND TERRITORIAL PUBLIC ADMINISTRATION
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: JILLIAN J VAN NIEKERK
Choice of Contact: CO_ADMIN
Phone No Admin: 905-827-6911 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

154 | ***20 of 26*** | ***E/285.9*** | ***129.8 / -7.00*** | ***MINISTRY OF NATURAL RESOURCES ONTARIO PARKS 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7*** | ***GEN***

Generator No: ON0124104
SIC Code:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 133 L
Waste Class Name: Brine, chlor-alkali sludges

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 243 D
Waste Class Name: PCB

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

154	21 of 26	E/285.9	129.8 / -7.00	**Danosh Construction** **1219 Burloak Drive** **Oakville ON L6M 4J7**	GEN

Generator No: ON3046193
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	22 of 26	E/285.9	129.8 / -7.00	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	GEN

Generator No: ON0124104
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 243 D
Waste Class Name: PCB

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 133 L
Waste Class Name: Brine, chlor-alkali sludges

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	23 of 26	E/285.9	129.8 / -7.00	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	GEN

Generator No: ON0124104
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 133 L
Waste Class Name: Brine, chlor-alkali sludges

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 243 D
Waste Class Name: PCB

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

---

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	24 of 26	E/285.9	129.8 / -7.00	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	GEN

Generator No: ON0124104
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 243 D
Waste Class Name: PCBS

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 133 L
Waste Class Name: BRINES, CHLOR-ALKALI WASTES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 145 L
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	25 of 26	E/285.9	129.8 / -7.00	BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR	EXP

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				BURLINGTON ON	

Inventory No: 10627447
Inventory Status: EXPIRED
Installation Year: 1987
Capacity: 2273
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Diesel

Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

154 | **26 of 26** | **E/285.9** | **129.8 / -7.00** | **BRONTE CREEK PROV PARK ATTN JIM MCNABB**
1219 BURLOAK DR
BURLINGTON ON | **EXP**

Inventory No: 10627399
Inventory Status: EXPIRED
Installation Year: 1987
Capacity: 9092
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline

Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

155 | **1 of 28** | **WSW/286.3** | **139.8 / 3.00** | **1960 APPLEBY LINE**
BURLINGTON ON L7L 0B7 | **EHS**

Order No: 20110119003
Status: C
Report Type: Standard Report
Report Date: 1/27/2011
Date Received: 1/19/2011 8:50:50 AM
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection: UPPER MIDDLE RD. & APPLEBY LINE
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.789733
Y: 43.392794

---

155 | **2 of 28** | **WSW/286.3** | **139.8 / 3.00** | **CMLHealthCare**
1960 Appleby LINE
burlington ON L7L 0B7 | **GEN**

Generator No: ON8082710
SIC Code: 621510
SIC Description:
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
155	3 of 28	WSW/286.3	139.8 / 3.00	LifeLabs LP 1960 Appleby LINE burlington ON L7L 0B7	GEN

Generator No: ON8082710
SIC Code: 621510
SIC Description: Medical and Diagnostic Laboratories
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
155	4 of 28	WSW/286.3	139.8 / 3.00	GI Health Centre Inc 1960 Appleby Line, Unit 32 Burlington ON	GEN

Generator No: ON4179265
SIC Code: 621110, 621499
SIC Description: Offices of Physicians, All Other Out-Patient Care Centres
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
155	5 of 28	WSW/286.3	139.8 / 3.00	GI Health Centre Inc 1960 Appleby Line, Unit 32 Burlington ON	GEN

Generator No: ON4179265
SIC Code: 621110, 621499
SIC Description: OFFICES OF PHYSICIANS, ALL OTHER OUT-PATIENT CARE CENTRES
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
155	6 of 28	WSW/286.3	139.8 / 3.00	LifeLabs LP 1960 Appleby LINE burlington ON	GEN

Generator No: ON8082710
SIC Code: 621510
SIC Description: MEDICAL AND DIAGNOSTIC LABORATORIES

Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 | ***7 of 28*** | ***WSW/286.3*** | ***139.8 / 3.00*** | ***GI Health Centre Inc***
1960 Appleby Line, Unit 32
Burlington ON L7L 0B7 | ***GEN***

Generator No: ON4179265
SIC Code: 621110, 621499
SIC Description: OFFICES OF PHYSICIANS, ALL OTHER OUT-PATIENT CARE CENTRES
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Vanesa Seepersaud
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-335-1888 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 | ***8 of 28*** | ***WSW/286.3*** | ***139.8 / 3.00*** | ***LifeLabs LP***
1960 Appleby LINE
burlington ON L7L 0B7 | ***GEN***

Generator No: ON8082710
SIC Code: 621510
SIC Description: MEDICAL AND DIAGNOSTIC LABORATORIES
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 | ***9 of 28*** | ***WSW/286.3*** | ***139.8 / 3.00*** | ***2183401 Ontario Inc***
36-1960 Appleby Line | ***GEN***

Burlington ON L7L 0B7

Generator No: ON6781209
SIC Code: 621110
SIC Description: OFFICES OF PHYSICIANS
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 ***10 of 28*** ***WSW/286.3*** ***139.8 / 3.00*** ***GI Health Centre Inc*** ***GEN***
1960 Appleby Line, Unit 32
Burlington ON L7L 0B7

Generator No: ON4179265
SIC Code: 621110, 621499
SIC Description: OFFICES OF PHYSICIANS, ALL OTHER OUT-PATIENT CARE CENTRES
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Jasmine Dimartino
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-335-1888 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 ***11 of 28*** ***WSW/286.3*** ***139.8 / 3.00*** ***2183401 Ontario Inc*** ***GEN***
36-1960 Appleby Line
Burlington ON L7L 0B7

Generator No: ON6781209
SIC Code: 621110
SIC Description: OFFICES OF PHYSICIANS
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 **12 of 28** **WSW/286.3** **139.8 / 3.00** **LifeLabs LP** **GEN**
1960 Appleby LINE
burlington ON L7L 0B7

Generator No: ON8082710
SIC Code: 621510
SIC Description: MEDICAL AND DIAGNOSTIC LABORATORIES
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 **13 of 28** **WSW/286.3** **139.8 / 3.00** **LifeLabs LP** **GEN**
1960 Appleby LINE
burlington ON L7L6A1

Generator No: ON8082710
SIC Code: 621510
SIC Description: MEDICAL AND DIAGNOSTIC LABORATORIES
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Jacquie Maertz
Choice of Contact: CO_ADMIN
Phone No Admin: 905 565 0043 Ext.3280
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 **14 of 28** **WSW/286.3** **139.8 / 3.00** **GI Health Centre Inc** **GEN**
1960 Appleby Line, Unit 32
Burlington ON L7L 0B7

Generator No: ON4179265
SIC Code: 621110, 621499
SIC Description: OFFICES OF PHYSICIANS, ALL OTHER OUT-PATIENT CARE CENTRES
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Jasmine Dimartino
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-335-1888 Ext.
Contaminated Facility: No

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 | ***15 of 28*** | ***WSW/286.3*** | ***139.8 / 3.00*** | ***2183401 Ontario Inc***
36-1960 Appleby Line
Burlington ON L7L 0B7 | ***GEN***

Generator No: ON6781209
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261 P
Waste Class Name: Pharmaceuticals

Waste Class: 312 P
Waste Class Name: Pathological wastes

---

155 | ***16 of 28*** | ***WSW/286.3*** | ***139.8 / 3.00*** | ***LifeLabs LP***
1960 Appleby LINE
burlington ON L7L 0B7 | ***GEN***

Generator No: ON8082710
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

---

155 | ***17 of 28*** | ***WSW/286.3*** | ***139.8 / 3.00*** | ***GI Health Centre Inc***
1960 Appleby Line, Unit 32
Burlington ON L7L 0B7 | ***GEN***

Generator No: ON4179265
SIC Code:
SIC Description:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

155	18 of 28	WSW/286.3	139.8 / 3.00	**LifeLabs LP** **1960 Appleby LINE** **burlington ON L7L 0B7**	GEN

Generator No: ON8082710
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

155	19 of 28	WSW/286.3	139.8 / 3.00	**GI Health Centre Inc** **1960 Appleby Line, Unit 32** **Burlington ON L7L 0B7**	GEN

Generator No: ON4179265
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

155	20 of 28	WSW/286.3	139.8 / 3.00	**2183401 Ontario Inc** **34-1960 Appleby Line**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Burlington ON L7L 0B7	

Generator No: ON6781209
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 261 P
Waste Class Name: Pharmaceuticals

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
155	21 of 28	WSW/286.3	139.8 / 3.00	**LifeLabs LP** **1960 Appleby LINE** **burlington ON L7L 0B7**	GEN

Generator No: ON8082710
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
155	22 of 28	WSW/286.3	139.8 / 3.00	**2183401 Ontario Inc** **34-1960 Appleby Line** **Burlington ON L7L 0B7**	GEN

Generator No: ON6781209
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 261 P
Waste Class Name: Pharmaceuticals

155	*23 of 28*	*WSW/286.3*	*139.8 / 3.00*	***GI Health Centre Inc*** ***1960 Appleby Line, Unit 32*** ***Burlington ON L7L 0B7***	***GEN***

Generator No: ON4179265
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

155	*24 of 28*	*WSW/286.3*	*139.8 / 3.00*	***Blueridge OMS*** ***31-1960 Appleby Line*** ***BURLINGTON ON L7L 0B7***	***GEN***

Generator No: ON4882038
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 264 L
Waste Class Name: Photoprocessing wastes

155	*25 of 28*	*WSW/286.3*	*139.8 / 3.00*	***Blueridge OMS*** ***31-1960 Appleby Line*** ***BURLINGTON ON L7L 0B7***	***GEN***

Generator No: ON4882038
SIC Code:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 264 L
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

155	26 of 28	WSW/286.3	139.8 / 3.00	**2183401 Ontario Inc** **34-1960 Appleby Line** **Burlington ON L7L 0B7**	GEN

Generator No: ON6781209
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 261 P
Waste Class Name: PHARMACEUTICALS

155	27 of 28	WSW/286.3	139.8 / 3.00	**GI Health Centre Inc** **1960 Appleby Line, Unit 32** **Burlington ON L7L 0B7**	GEN

Generator No: ON4179265
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 261 A
Waste Class Name: PHARMACEUTICALS

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

---

155 | **28 of 28** | **WSW/286.3** | **139.8 / 3.00** | **LifeLabs LP**
1960 Appleby LINE
burlington ON L7L 0B7 | **GEN**

Generator No: ON8082710
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

---

156 | **1 of 5** | **S/288.6** | **128.5 / -8.31** | **Eaton Electrical - Div. of Eaton Corp.**
5050 Main Way
Burlington ON L7L 5Z1 | **PAP**

Company ID: 146955047
Status: Active
Type: Head Office
Operation:
Status Desc:
Effluent Pollution Control:
Company Name:
Division:
Company Mailing Address:
Mailing Address: 5050 Main Way, Burlington ON L7L 5Z1
Mill Mailing Address:
Mill Notes:
History:
Company History:
Year: 2009
Description:
Website:

---

156 | **2 of 5** | **S/288.6** | **128.5 / -8.31** | **Eaton Yale Corporation**
5050B Mainway
Burlington ON L7L 5Z1 | **SCT**

Established: 1/1/1994
Plant Size (ft²):
Employment:

--Details--
Description: Wiring Device Manufacturing
SIC/NAICS Code: 335930

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
156	3 of 5	S/288.6	128.5 / -8.31	Norjohn Transfer Systems Limited 5050 Mainway Burlington ON L7L 5Z1	CA

Certificate #: 5884-6AGJD6
Application Year: 2005
Issue Date: 3/14/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
156	4 of 5	S/288.6	128.5 / -8.31	Eaton Corporation 5050 Mainway Burlington ON L7L 5Z1	SCT

Established: 01-SEP-20
Plant Size (ft²):
Employment:

--Details--
Description: Electrical Wiring and Construction Supplies Wholesaler-Distributors
SIC/NAICS Code: 416110

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
156	5 of 5	S/288.6	128.5 / -8.31	Norjohn Transfer Systems Limited 5050 Mainway Burlington ON L2V 3Y8	ECA

Approval No: 5884-6AGJD6
Approval Date: 2005-03-14
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
MOE District: Halton-Peel
City:
Longitude: -79.774376
Latitude: 43.393612
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Norjohn Transfer Systems Limited
Address: 5050 Mainway
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2138-6A6PNA-14.pdf
PDF Site Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
157	1 of 4	WSW/289.8	137.8 / 1.00	ayesof professional inc. 1893 appleby line BURLINGTON ON L7L0G5	GEN

Generator No: ON8006484
SIC Code: 623999
SIC Description: 623999
Approval Years: 2015
PO Box No:
Country: Canada
Status:

Co Admin: sadaf faisal
Choice of Contact: CO_OFFICIAL
Phone No Admin: 9053158008 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

---

157 | ***2 of 4*** | ***WSW/289.8*** | ***137.8 / 1.00*** | ***1893 Appleby Line Burlington ON L7L0G5*** | ***EHS***

Order No: 20170214185
Status: C
Report Type: Standard Report
Report Date: 20-FEB-17
Date Received: 14-FEB-17
Previous Site Name: N/A
Lot/Building Size:
Additional Info Ordered: Topographic Maps

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.787651
Y: 43.392627

---

157 | ***3 of 4*** | ***WSW/289.8*** | ***137.8 / 1.00*** | ***1893 Appleby Line Burlington ON L7L0G5*** | ***EHS***

Order No: 20161017084
Status: C
Report Type: Standard Report
Report Date: 21-OCT-16
Date Received: 17-OCT-16
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.787651
Y: 43.392627

---

157 | ***4 of 4*** | ***WSW/289.8*** | ***137.8 / 1.00*** | ***1893 Appleby Line Burlington ON L7L 6K3*** | ***EHS***

Order No: 21040600036
Status: C
Report Type: Standard Report
Report Date: 09-APR-21
Date Received: 06-APR-21
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.7877762
Y: 43.3927258

---

158 | ***1 of 3*** | ***S/290.8*** | ***125.8 / -11.00*** | ***Norjohn Business Park (East) Inc 1107 & 1109 Clay Ave Burlington ON L6H 0C3*** | ***ECA***

Approval No: 1400-ARBPJ4
Approval Date: 2017-09-21
Status: Approved
Record Type: ECA
Link Source: IDS

MOE District:
City:
Longitude:
Latitude:
Geometry X:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SWP Area Name: **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Norjohn Business Park (East) Inc
Address: 1107 & 1109 Clay Ave
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4019-ANSP6U-14.pdf
PDF Site Location:

---

158 *2 of 3* **S/290.8** **125.8 / -11.00** **Straumann Canada Limited**
1109 Clay Ave., Unit 8
Burlington ON L7L 0A1
GEN

Generator No: ON9440098
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

---

158 *3 of 3* **S/290.8** **125.8 / -11.00** **Straumann Canada Limited**
1109 Clay Ave., Unit 8
Burlington ON L7L 0A1
GEN

Generator No: ON9440098
SIC Code:
SIC Description:
Approval Years: As of Jan 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

---

159 *1 of 2* **WSW/294.2** **138.8 / 2.00** **MONARCH CONSTRUCTION LTD.-ROD FORTUNE**
IRONSTONE DR./APPLEBY LINE
BURLINGTON CITY ON
CA

Certificate #: 3-1657-90-
Application Year: 90
Issue Date: 9/6/1990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

159 | **2 of 2** | **WSW/294.2** | **138.8 / 2.00** | **MONARCH CONSTRUCTION LIMITED-ROD FORTUNE**
IRONSIDE DR./APPLEBY LINE
BURLINGTON CITY ON | **CA**

Certificate #: 7-1349-90-
Application Year: 90
Issue Date: 9/6/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

160 | **1 of 1** | **SSW/295.1** | **130.8 / -6.09** | **TOTAL LANDSCAPING & SUPPLY**
5178 THORNBURN DR
BURLINGTON ON L7L 6K9 | **PES**

Detail Licence No: 02-01-05778-0
Licence No: 05778
Status:
Approval Date:
Report Source:
Licence Type: Operator
Licence Type Code: 02
Licence Class: 01
Licence Control: 0
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No: 5778
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region: 3
Operator District:
Operator County: 28
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

161 | **1 of 1** | **WSW/297.5** | **140.8 / 4.00** | **Appleby Line and Heron Way, Burlington ON** | **SPL**

Ref No: 1-1DIWEF
Year:
Incident Dt:
Dt MOE Arvl on Scn:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:

MOE Reported Dt:	11/4/2021 8:44:10 AM	***Impact to Health:***	0 No Impact
Dt Document Closed:		***Agency Involved:***	
Site No:			
MOE Response:	Desktop Response		
Site County/District:			
Site Geo Ref Meth:			
Site District Office:	Halton-Peel District Office		
Nearest Watercourse:			
Site Name:			
Site Address:	Appleby Line and Heron Way, Burlington		
Site Region:	REGIONAL MUNICIPALITY OF HALTON		
Site Municipality:	BURLINGTON		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:			
Incident Preceding Spill:	Leak/Break		
Environment Impact:	1 Minor Impact		
Health Env Consequence:			
Nature of Impact:			
Contaminant Qty:	200 litre (L)		
System Facility Address:			
Client Name:	DARLING INTERNATIONAL CANADA INC.		
Client Type:	Private Business		
Source Type:			
Contaminant Code:			
Contaminant Name:	TALLOW		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	Land		
Incident Reason:			
Incident Summary:	Rothsay/Darling: hot tallow sprayed on the street		
Activity Preceding Spill:	Transportation		
Property 2nd Watershed:	Lake Ontario and Niagara Peninsula		
Property Tertiary Watershed:	02HB-Credit - 16 Mile		
Sector Type:	GENERAL FREIGHT TRUCKING, LONG DISTANCE, TRUCK-LOAD		
SAC Action Class:			
Call Report Locatn Geodata:	{"integration_ids":["PR00001212620"],"wkts":["POINT (-79.7920082000 43.3948393000)"],"creation_date":"2021-11-04"}		

Unplottable Summary

Total: 176 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA		Within the Right of Way of Appleby Line	Burlington ON	
CA	Falcon Boulevard Area	Lot 2 and 3, Concession 1	Burlington ON	
CA		Upper Middle Road	Oakville ON	
CA	Mattamy Orchard East, Phase 2, 24T-95011/B(B)	Dunmore Avenue	Burlington ON	
CA	Mattamy Orchard East, Phase 2, 24T-95011/B(B)	Dunmore Avenue	Burlington ON	
CA		Lot 4, Concession 2	Burlington ON	
CA		Lot 4, Concession 2	Burlington ON	
CA	CENTRAL CANADA GROCERS INC.	UPPER MIDDLE RD.	BURLINGTON ON	
CA	REG.MUNIC.OF HALTON	UPPER MIDDLE RD.	OAKVILLE ON	
CA	OKINS LEIPCIGER CUPLINSKAS ETC.	UPPER MIDDLE RD.	OAKVILLE ON	
CA	REG. MUN. OF HALTON	UPPER MIDDLE RD.	BURLINGTON ON	
CA	REG.MUN.OF HALTON	UPPER MIDDLE RD. EASMENT	OAKVILLE ON	
CA	REG.MUN.OF HALTON	UPPER MIDDLE RD. EASMENT	OAKVILLE ON	
CA	MATTAMY HOMES LTD.	ORCHARD PH.9/UPPER MIDDLE RD.	BURLINGTON CITY ON	
CA	MATTAMY HOMES LTD.	UPPER MIDDLE RD.N.,PT.LOTS 1&2	BURLINGTON CITY ON	
CA	MATTAMY HOMES LTD.	ORCHARD PH.9/UPPER MIDDLE RD.	BURLINGTON CITY ON	
CA	R.M. OF HALTON, PUBLIC WORKS DEPT.	UPPER MIDDLE RD. RES. & P.S.	OAKVILLE TOWN ON	

CA	R.M. OF HALTON	UPPER MIDDLE RD.RESERVOIR & PS	OAKVILLE TOWN ON
CA	PALETTA INTERNATIONAL CORP.	PT.LOT 5/C-2, SHELDON CREEK	BURLINGTON CITY ON
CA	PALETTA INTERNATIONAL CORP.	PT.LOT 5/C-2, APPLEBY LINE	BURLINGTON CITY ON
CA	RADIX INVESTMENTS LTD.	LOT 2 CONC 1	BURLINGTON CITY ON
CA	RADIX INVESTMENTS LTD.	PART LOT 2 CONC 1	BURLINGTON CITY ON
CA	R.M. OF HALTON	UPPER MIDDLE RD. RESERVOIR/PS	OAKVILLE TOWN ON
CA	PALETTA INTERNATIONAL CORP.	PT.LOTS 4&5/C-2,SHELDON CK.PH2	BURLINGTON ON
CA	PALETTA INTERNATIONAL CORP.	DES JARDINES DR./PORTER ST.	BURLINGTON ON
CA	R.M. OF HALTON APPLEBY LINE	APPLEBY LINE	BURLINGTON CITY ON
CA	R.M. OF HALTON	UPPER MIDDLE RD.	OAKVILLE TOWN ON
CA	R.M. OF HALTON	UPPER MIDDLE RD.	BURLINGTON CITY ON
CA	R.M. OF HALTON	APPLEBY LINE/LOT 5, CONC. 1	BURLINGTON CITY ON
CA	FRAM BUILDING GROUP-SHELDON CREEK BUSINE	JOHN LUCAS DR./LOTS 25 & 26	BURLINGTON CITY ON
CA	R.M. OF HALTON UPPER MIDDLE RD.	UPPER MIDDLE RD.	OAKVILLE TOWN ON
CA	ROCCA GROUP INC. TANSLEY TOWNHOUSE	UPPER MIDDLE RD.	BURLINGTON CITY ON
CA	COOPER CORPORATION LIMITED	MAINWAY BUS. CENTRE	BURLINGTON CITY ON
CA	R.M. OF HALTON	UPPER MIDDLE RD.	OAKVILLE TOWN ON
CA	R.M. OF HALTON PR-973 WALKER'S LINE	UPPER MIDDLE ROAD	BURLINGTON CITY ON
CA	R. M. OF HALTON	UPPER MIDDLE RD.	OAKVILLE TOWN ON
CA	FRAM BUILDING GROUP-SHELDON CREEK BUSINE	JOHN LUCAS DR./LOTS 25&26	BURLINGTON CITY ON
CA	R.M. OF HALTON PHASE 1	UPPER MIDDLE RD.	OAKVILLE TOWN ON
CA	D. GREENFIELD ASSOC. LTD.	EASEMENT APPLEBY LINE	BURLINGTON CITY ON

CA	ROCCA GROUP INC. TANSLEY TOWNHOUSES	UPPER MIDDLE RD.	BURLINGTON CITY ON
CA	R.M. OF HALTON APPLEBY LINE	APPLEBY LINE	BURLINGTON CITY ON
CA	MONARCH CONSTRUCTION LTD. MILLCROFT PH.I	ROAD A UPPER MIDDLE RD. PART 1	BURLINGTON CITY ON
CA	N.H.D. DEVELOP.LTD.C/O THE SORBARA GROUP	UPPER MIDDLE RD. PHASE I	OAKVILLE TOWN ON
CA	N.H.D. DEVELOPMENTS LTD. C/O SORBARA GRP.	UPPER MIDDLE RD. PHASE I	OAKVILLE TOWN ON
CA	R.M. OF HALTON	UPPER MIDDLE ROAD	BURLINGTON CITY ON
CA	INTERPROVINCIAL PIPE LINE INC.	PT.LOT 35/CON.2, DUNDAS ST.S.	OAKVILLE TOWN ON
CA	North Service Road Portfolio Inc.	Lot 1, Conc. 1	Burlington ON
CA	RRL Burloak Inc.		Oakville ON
CA	Paletta International Corporation		Burlington ON
CA	Monarch Construction Limited		Burlington ON
CA	Monarch Construction Limited		Oakville ON
CA	The Regional Municipality of Halton	Upper Middle Road	Oakville ON
CA	The Regional Municipality of Halton	Upper Middle Road	Oakville ON
CA	RRL Burloak Inc.		Oakville ON
CA	The Regional Municipality of Halton	Appleby Line	Burlington ON
CA	Norjohn Business Park Inc.	Lot 4, Concession 2	Burlington ON
CA	Bella Court Developments Limited	Part of Lot 4, Concession 1, S.D.S.	Burlington ON
CA	Southcorp Canada Management Inc.	Part of Lot 4, Concession 1, South of Dundas St	Burlington ON
CA	Dunster Investments Limited	Burloak Drive and Block 9 Access Road	Burlington ON
CA	Losani Homes (1998) Ltd.	Part of Lot 4, Concession 1	Burlington ON
CA	City of Burlington	Upper Middle Road and Ironstone Drive	Burlington ON

CA	Monarch Construction Limited		Oakville ON	
CA	City of Burlington	Upper Middle Rd	Burlington ON	
CA	Suncor Energy Products Inc.		Burlington ON	
CA	Bronte Woods Community Subdivision	Part of Lot 2, Concession 1	Burlington ON	
CA	Bronte Woods Community Subdivision	Part of Lot 2, Concession 1, SDS	Burlington ON	
CA	Bronte Woods Community Subdivision	Part of Lot 2, Concession 1	Burlington ON	
CA		lot 4 and lot 5, Concession 1 & 2, SDS	Burlington ON	
CA	Bronte Woods Community Subdivision	Part of Lot 3, Concession 1	Burlington ON	
CA	Bronte Woods Community Subdivision	Part of Lot 3, Concession 1	Burlington ON	
ECA	404072 Ontario Limited	Lot 4 Concession 1 Conc	Oakville ON	L9T 8Z4
ECA	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.	Various locations in Ontario	Oakville ON	L6L 6N5
ECA	City of Burlington	Upper Middle Rd	Burlington ON	L7R 3Z6
ECA	The Regional Municipality of Halton	Appleby Line	Burlington ON	L6M 3L1
ECA	Tabera Ltd.	Part of Lot 2, Concession 1, SDS	Burlington ON	M5M 3Z2
ECA	The Regional Municipality of Halton	Within the Right of Way of Appleby Line	Burlington ON	L6M 3L1
ECA	Dunster Investments Limited	Burloak Drive and Block 9 Access Road	Burlington ON	M3H 5V3
ECA	The Regional Municipality of Halton	Appleby Line	Burlington ON	L6M 3L1
ECA	Dunster Investments Limited	Burloak Drive and Block 9 Access Road	Burlington ON	M3H 5V3
ECA	Melrose Investments Inc.	South of Dundas Street	Oakville ON	L6J 0A7
ECA	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.	Various locations in Ontario	Oakville ON	L6L 6N5
ECA	Bella Court Developments Limited	Part of Lot 4, Concession 1, S.D.S.	Burlington ON	L7N 3P2
ECA	The Regional Municipality of Halton	Sutton Drive from Mainway to Upper Middle Road	Burlington ON	L6M 3L1

ECA	Suncor Energy Inc.	Various locations in Ontario	Oakville ON	L6L 6N5
ECA	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.	Various Locations in Ontario	Oakville ON	L6L 6N5
ECA	Melrose Investments Inc.		Oakville ON	L6J 0A7
ECA	Suncor Energy Inc.	Various Locations in Ontario	Oakville ON	L6L 6N5
ECA	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.	Various Locations in Ontario	Oakville ON	L6L 6N5
ECA	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.	Various locations in Ontario	Oakville ON	L6L 6N5
ECA	The Regional Municipality of Halton	Appleby Line	Burlington ON	L6M 3L1
ECA	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.	Various Locations in Ontario	Oakville ON	L6L 6N5
EHS		Mainway	Burlington ON	
EHS		Mainway	Burlington ON	
EHS		Ironstone Drive	Burlington ON	
EHS		Burloak Dr	Burlington ON	
FCON	Amcast Industrial Limited and Mr. Peter Clothier		Burlinton ON	
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	
GEN	ANIMAL HOSPITAL OF RIVER OAKS	CHG UPPER MIDDLE ROAD WEST	OAKVILLE ON	L6H 1M2
GEN	INTERPROVINCIAL PIPE LINE INC.	LOT 35, CONCESSION 2 SOUTH OF DUNDAS STREET	OAKVILLE ON	
GEN	INTERPROVINCIAL PIPE LINE INC. 21-572	LOT 35, CONC.2 S. OF DUNDAS ST.	OAKVILLE ON	
GEN	VAC AERO International Incorporated Head Office	Mainway	Burlington ON	L7L 5N9
GEN	Trans Northern Pipelines Inc.	Between Concession 2 and 3, South of Dundas St	Oakville ON	L6J 4A8
GEN	Trans Northern Pipelines Inc.	Lot 3, Concession 2, South of Dundas	Oakville ON	L6J 7T1
GEN	VAC AERO International Incorporated Head Office	Mainway	Burlington ON	L7L 5N9

GEN	VAC AERO International Incorporated Head Office	Mainway	Burlington ON	L7L 5N9
GEN	VAC AERO International Incorporated Head Office	Mainway	Burlington ON	L7L 5N9
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	L6M 4J7
GEN	VAC AERO International Incorporated	Mainway	Burlington ON	L7L 5N9
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	L6M 4J7
GEN	VAC AERO International Incorporated	Mainway	Burlington ON	L7L 5N9
GEN	VAC AERO International Incorporated	Mainway	Burlington ON	L7L 5N9
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	L6M 4J7
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	
GEN	VAC AERO International Incorporated	Mainway	Burlington ON	
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	L6M 4J7
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	L6M 4J7
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	
LIMO	Ralph Van der Meuler	Lot 4, Concession 1	Oakville ON	
PTTW	Enbridge Pipelines Inc.		ON	
PTTW	Burlington Springs Golf Course	Lots 1,2 Concession 2 CITY OF BURLINGTON	ON	
PTTW	Enbridge Pipelines Inc.		ON	
SCT	Straumann Canada Limited		ON	
SPL	BURLINGTON HYDRO-ELECTRIC COMM	TRANSFORMER	BURLINGTON CITY ON	
SPL	BURLINGTON HYDRO-ELECTRIC COMM	MOTOR VEHICLE (OPERATING FLUID)	BURLINGTON CITY ON	
SPL	IMPERIAL OIL	FORD TRUCK PLANT GASOLINE TANK AREA TANK TRUCK (CARGO)	OAKVILLE TOWN ON	

SPL		Mainway, East of Appleby Line	Burlington ON
SPL	Burlington Hydro		Burlington ON
SPL	Burlington Hydro Inc.		Burlington ON
SPL	Suncor Energy Inc.		Burlington ON
SPL	Metro Waste Paper Recovery Inc.	Appleby Line	Burlington ON
SPL	Zenon Environmental Inc.	Mainway Ave,	Burlington ON
WWIS		lot 3 con 2	ON
WWIS		lot 3 con 2	ON
WWIS		lot 3 con 2	ON
WWIS		lot 3 con 2	ON
WWIS		lot 3 con 2	ON
WWIS		lot 3 con 2	ON
WWIS		lot 2 con 1	ON
WWIS		lot 4	ON
WWIS		lot 4 con 2	ON
WWIS		con 1	ON
WWIS		lot 4 con 1	ON
WWIS		lot 5 con 1	ON
WWIS		lot 5 con 1	ON
WWIS		lot 5 con 1	ON
WWIS		lot 5 con 1	ON
WWIS		lot 2 con 1	ON
WWIS		lot 5 con 1	ON

WWIS	lot 5 con 2	ON
WWIS	lot 5 con 2	ON
WWIS	lot 2 con 1	ON
WWIS	lot 5 con 1	ON
WWIS	lot 5 con 1	ON
WWIS	lot 1 con 2	BURLINGTON ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	con 2	ON
WWIS	con 2	ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	lot 3 con 2	ON
WWIS	lot 3 con 1	ON
WWIS	lot 3	ON
WWIS	lot 3	ON
WWIS	lot 3 con 2	ON
WWIS	lot 3 con 1	ON
WWIS	lot 3 con 2	ON

WWIS	lot 3 con 2	ON
WWIS	lot 5	ON
WWIS	lot 3 con 2	ON

Unplottable Report

Site:
Within the Right of Way of Appleby Line Burlington ON

Database: ***CA***

Certificate #:	7555-4TGS7R
Application Year:	01
Issue Date:	2/5/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Corporation of the Regional Municipality of Halton
Client Address:	1151 Bronte Road
Client City:	Oakville
Client Postal Code:	L6M 3L1
Project Description:	Installation of watermains on Appleby Line and Birett Drive in the City of Burlington.
Contaminants:	
Emission Control:	

Site: ***Falcon Boulevard Area***
Lot 2 and 3, Concession 1 Burlington ON

Database: ***CA***

Certificate #:	0292-57LHZN
Application Year:	02
Issue Date:	2/26/02
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	The Corporation of the Regional Municipality of Halton
Client Address:	1151 Bronte Road
Client City:	Oakville
Client Postal Code:	L6M 3L1
Project Description:	This application is for approval to install watermains in the Falcon Boulevard Area.
Contaminants:	
Emission Control:	

Site:
Upper Middle Road Oakville ON

Database: ***CA***

Certificate #:	4302-4MLKTG
Application Year:	00
Issue Date:	7/31/00
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Corporation of the Town of Oakville
Client Address:	1225 Trafalgar Road, P.O. Box 310 Station Main
Client City:	Oakville
Client Postal Code:	L6J 5A6
Project Description:	Road reconstuction and installation of storm sewers and catch basins on Upper Middle Road from Fourth Line to 250m west of Postmaster Drive and Third Line from Glen Abbey Gate to Sandpiper Road.
Contaminants:	
Emission Control:	

Site: ***Mattamy Orchard East, Phase 2, 24T-95011/B(B)***
Dunmore Avenue Burlington ON

Database: ***CA***

Certificate #: 0761-4JRJVW
Application Year: 00
Issue Date: 4/28/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Mattamy Homes Limited
Client Address: 2360 Bristol Circle
Client City: Oakville
Client Postal Code: L6H 6M5
Project Description: Watermains
Contaminants:
Emission Control:

Site: ***Mattamy Orchard East, Phase 2, 24T-95011/B(B)***
Dunmore Avenue Burlington ON

Database: ***CA***

Certificate #: 6836-4JRJ7N
Application Year: 00
Issue Date: 4/28/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Mattamy Homes Limited
Client Address: 2360 Bristol Circle
Client City: Oakville
Client Postal Code: L6H 6M5
Project Description: Sanitary and Storm Sewers
Contaminants:
Emission Control:

Site:
Lot 4, Concession 2 Burlington ON

Database: ***CA***

Certificate #: 8395-5CKHLQ
Application Year: 02
Issue Date: 7/31/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Norjohn Business Park Inc.
Client Address: 2800 Thorold Townline Road R.R. #1
Client City: Niagara Falls
Client Postal Code: L2E 6S4
Project Description: This application is for the construction of watermains and appurtenances on Clay Avenue.
Contaminants:
Emission Control:

Site:
Lot 4, Concession 2 Burlington ON

Database: ***CA***

Certificate #: 5274-5CKHEV
Application Year: 02
Issue Date: 7/31/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Norjohn Business Park Inc.
Client Address: 2800 Thorold Townline Road R.R. #1
Client City: Niagara Falls
Client Postal Code: L2E 6S4
Project Description: This application is for the construction of sanitary and storm sewers on Clay Avenue.
Contaminants:
Emission Control:

Site: ***CENTRAL CANADA GROCERS INC.***
UPPER MIDDLE RD. BURLINGTON ON

Database: ***CA***

Certificate #: 3-0944-85-006
Application Year: 85
Issue Date: 8/14/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***REG.MUNIC.OF HALTON***
UPPER MIDDLE RD. OAKVILLE ON

Database: ***CA***

Certificate #: 7-0856-85-006
Application Year: 85
Issue Date: 10/4/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***OKINS LEIPCIGER CUPLINSKAS ETC.***
UPPER MIDDLE RD. OAKVILLE ON

Database: ***CA***

Certificate #: 3-0840-85-006
Application Year: 85
Issue Date: 8/13/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***REG. MUN. OF HALTON***
UPPER MIDDLE RD. BURLINGTON ON

Database: ***CA***

Certificate #: 7-0247-85-006
Application Year: 85
Issue Date: 4/30/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:

Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***REG.MUN.OF HALTON***
UPPER MIDDLE RD. EASMENT OAKVILLE ON

Database: ***CA***

Certificate #: 7-0149-85-006
Application Year: 85
Issue Date: 3/21/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***REG.MUN.OF HALTON***
UPPER MIDDLE RD. EASMENT OAKVILLE ON

Database: ***CA***

Certificate #: 7-0149-85-006
Application Year: 85
Issue Date: 3/21/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MATTAMY HOMES LTD.***
ORCHARD PH.9/UPPER MIDDLE RD. BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0572-99-
Application Year: 99
Issue Date: 7/22/1999
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MATTAMY HOMES LTD.***
UPPER MIDDLE RD.N.,PT.LOTS 1&2 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0910-99-

Application Year: 99
Issue Date: 9/14/1999
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MATTAMY HOMES LTD.***
ORCHARD PH.9/UPPER MIDDLE RD. BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0832-99-
Application Year: 99
Issue Date: 7/22/1999
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON, PUBLIC WORKS DEPT.***
UPPER MIDDLE RD. RES. & P.S. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 8-3263-99-
Application Year: 99
Issue Date: 9/9/1999
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: 1500KW EMERGENCY GENSET FOR RESERVOIR/PS
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
UPPER MIDDLE RD.RESERVOIR & PS OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 8-3120-97-
Application Year: 97
Issue Date: 3/17/1997
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: 30KW EMERGENCY GEN-SET FOR RES. & P.S.
Contaminants: Nitrogen Oxides
Emission Control:

Site: ***PALETTA INTERNATIONAL CORP.***
PT.LOT 5/C-2, SHELDON CREEK BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0598-97-
Application Year: 97
Issue Date: 6/2/1997
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PALETTA INTERNATIONAL CORP.***
PT.LOT 5/C-2, APPLEBY LINE BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0460-97-
Application Year: 97
Issue Date: 6/2/1997
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***RADIX INVESTMENTS LTD.***
LOT 2 CONC 1 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0210-96-
Application Year: 96
Issue Date: 4/1/1996
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***RADIX INVESTMENTS LTD.***
PART LOT 2 CONC 1 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0206-96-
Application Year: 96
Issue Date: 4/1/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:

Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
UPPER MIDDLE RD. RESERVOIR/PS OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 7-0158-97-
Application Year: 97
Issue Date: 10/22/1997
Approval Type: Municipal water
Status: Revised
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PALETTA INTERNATIONAL CORP.***
PT.LOTS 4&5/C-2,SHELDON CK.PH2 BURLINGTON ON

Database: ***CA***

Certificate #: 3-1498-98-
Application Year: 98
Issue Date: 11/30/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PALETTA INTERNATIONAL CORP.***
DES JARDINES DR./PORTER ST. BURLINGTON ON

Database: ***CA***

Certificate #: 3-1501-98-
Application Year: 98
Issue Date: 10/7/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON APPLEBY LINE***
APPLEBY LINE BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0508-88-
Application Year: 88

Issue Date: 5/10/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
UPPER MIDDLE RD. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 7-1839-87-
Application Year: 87
Issue Date: 12/18/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
UPPER MIDDLE RD. BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0131-87-
Application Year: 87
Issue Date: 3/4/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
APPLEBY LINE/LOT 5, CONC. 1 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0117-93-
Application Year: 93
Issue Date: 4/26/1993
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***FRAM BUILDING GROUP-SHELDON CREEK BUSINE***
JOHN LUCAS DR./LOTS 25 & 26 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0465-90-
Application Year: 90
Issue Date: 4/18/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON UPPER MIDDLE RD.***
UPPER MIDDLE RD. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 7-0739-88-
Application Year: 88
Issue Date: 5/8/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***ROCCA GROUP INC. TANSLEY TOWNHOUSE***
UPPER MIDDLE RD. BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-1693-88-
Application Year: 88
Issue Date: 10/24/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***COOPER CORPORATION LIMITED***
MAINWAY BUS. CENTRE BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0399-88-
Application Year: 88
Issue Date: 3/30/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:

Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
UPPER MIDDLE RD. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 7-1228-86-
Application Year: 86
Issue Date: 10/22/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON PR-973 WALKER'S LINE***
UPPER MIDDLE ROAD BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0784-86-
Application Year: 86
Issue Date: 7/25/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R. M. OF HALTON***
UPPER MIDDLE RD. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 7-0098-86-
Application Year: 86
Issue Date: 3/3/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***FRAM BUILDING GROUP-SHELDON CREEK BUSINE***
JOHN LUCAS DR./LOTS 25&26 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0560-90-
Application Year: 90
Issue Date: 4/18/1990

Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON PHASE 1***
UPPER MIDDLE RD. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 3-1397-89-
Application Year: 89
Issue Date: 7/27/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***D. GREENFIELD ASSOC. LTD.***
EASEMENT APPLEBY LINE BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0855-89-
Application Year: 89
Issue Date: 5/29/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***ROCCA GROUP INC. TANSLEY TOWNHOUSES***
UPPER MIDDLE RD. BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-1993-88-
Application Year: 88
Issue Date: 10/24/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON APPLEBY LINE***
APPLEBY LINE BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0572-88-
Application Year: 88
Issue Date: 5/10/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MONARCH CONSTRUCTION LTD. MILLCROFT PH.I***
ROAD A UPPER MIDDLE RD. PART 1 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-1056-86-
Application Year: 86
Issue Date: 7/28/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***N.H.D. DEVELOP.LTD.C/O THE SORBARA GROUP***
UPPER MIDDLE RD. PHASE I OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 3-0229-86-
Application Year: 86
Issue Date: 3/14/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***N.H.D. DEVELOPMENTS LTD.C/O SORBARA GRP.***
UPPER MIDDLE RD. PHASE I OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 3-0266-86-
Application Year: 86
Issue Date: 3/14/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:

Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
UPPER MIDDLE ROAD BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-1271-87-
Application Year: 87
Issue Date: 7/18/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***INTERPROVINCIAL PIPE LINE INC.***
PT.LOT 35/CON.2, DUNDAS ST.S. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 8-3463-94-
Application Year: 94
Issue Date: 10/31/1994
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: VENTING OF NITROGEN PIPE LINE
Contaminants: Methane (Incl. Hydrocarbons Expr. As Ch4
Emission Control: No Controls

Site: ***North Service Road Portfolio Inc.***
Lot 1, Conc. 1 Burlington ON

Database: ***CA***

Certificate #: 3353-8DVPAZ
Application Year: 2011
Issue Date: 2/22/2011
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***RRL Burloak Inc.***
Oakville ON

Database: ***CA***

Certificate #: 9823-6R6QPT
Application Year: 2006
Issue Date: 7/20/2006
Approval Type: Municipal and Private Sewage Works

Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Paletta International Corporation***
Burlington ON

Database: ***CA***

Certificate #: 8894-5GPM8P
Application Year: 2002
Issue Date: 12/16/2002
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Monarch Construction Limited***
Burlington ON

Database: ***CA***

Certificate #: 8574-5TGKSQ
Application Year: 2003
Issue Date: 12/19/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Monarch Construction Limited***
Oakville ON

Database: ***CA***

Certificate #: 7488-5RUJ6V
Application Year: 2003
Issue Date: 9/30/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***The Regional Municipality of Halton***

Database: ***CA***

Upper Middle Road Oakville ON

Certificate #: 7133-5J222P
Application Year: 2003
Issue Date: 2/6/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***The Regional Municipality of Halton***
Upper Middle Road Oakville ON

Database: ***CA***

Certificate #: 6468-5FTQ82
Application Year: 2002
Issue Date: 11/15/2002
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***RRL Burloak Inc.***
Oakville ON

Database: ***CA***

Certificate #: 5688-6RLS3K
Application Year: 2006
Issue Date: 7/14/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***The Regional Municipality of Halton***
Appleby Line Burlington ON

Database: ***CA***

Certificate #: 4380-62LQKU
Application Year: 2004
Issue Date: 7/6/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:

Contaminants:
Emission Control:

Site: ***Norjohn Business Park Inc.***
Lot 4, Concession 2 Burlington ON

Database: ***CA***

Certificate #: 4034-5YHHFK
Application Year: 2004
Issue Date: 4/29/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Bella Court Developments Limited***
Part of Lot 4, Concession 1, S.D.S. Burlington ON

Database: ***CA***

Certificate #: 3915-5FNPPP
Application Year: 2002
Issue Date: 11/8/2002
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Southcorp Canada Management Inc.***
Part of Lot 4, Concession 1, South of Dundas St Burlington ON

Database: ***CA***

Certificate #: 3798-5FNLUS
Application Year: 2002
Issue Date: 11/8/2002
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Dunster Investments Limited***
Burloak Drive and Block 9 Access Road Burlington ON

Database: ***CA***

Certificate #: 2962-5QEKCR
Application Year: 2003
Issue Date: 8/25/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved

Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Losani Homes (1998) Ltd.***
Part of Lot 4, Concession 1 Burlington ON

Database: ***CA***

Certificate #: 2120-5QDL8J
Application Year: 2003
Issue Date: 8/25/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***City of Burlington***
Upper Middle Road and Ironstone Drive Burlington ON

Database: ***CA***

Certificate #: 1985-7A4L2K
Application Year: 2008
Issue Date: 1/2/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Monarch Construction Limited***
Oakville ON

Database: ***CA***

Certificate #: 1365-5T2HMR
Application Year: 2003
Issue Date: 12/18/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***City of Burlington***
Upper Middle Rd Burlington ON

Database: ***CA***

Certificate #: 0986-7D5HWL
Application Year: 2008
Issue Date: 3/28/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Suncor Energy Products Inc.***
Burlington ON

Database: ***CA***

Certificate #: 0845-6FHK5G
Application Year: 2007
Issue Date: 12/11/2007
Approval Type: Industrial Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Bronte Woods Community Subdivision***
Part of Lot 2, Concession 1 Burlington ON

Database: ***CA***

Certificate #: 7186-52ZR53
Application Year: 01
Issue Date: 10/9/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Tabera Limited
Client Address: 1810 Avenue Road
Client City: Toronto
Client Postal Code: M5M 3Z2
Project Description: Watermain construction on Street A, Street B, Street C, Street D and Street E.
Contaminants:
Emission Control:

Site: ***Bronte Woods Community Subdivision***
Part of Lot 2, Concession 1, SDS Burlington ON

Database: ***CA***

Certificate #: 0652-538JYL
Application Year: 01
Issue Date: 10/15/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Tabera Ltd.
Client Address: 1810 Avenue Road
Client City: Toronto
Client Postal Code: M5M 3Z2
Project Description: Stormwater Management Pond
Contaminants:

Emission Control:

Site: ***Bronte Woods Community Subdivision***
Part of Lot 2, Concession 1 Burlington ON

Database: ***CA***

Certificate #: 6825-52ZR8H
Application Year: 01
Issue Date: 10/15/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Tabera Limited
Client Address: 1810 Avenue Road
Client City: Toronto
Client Postal Code: M5M 3Z2
Project Description: Storm and sanitary sewer construction on Street A, Street B, Street C and Street D, sanitary sewers to be constructed on Street E, storm sewers to be constructed on Easement (west limit of subdivision to Street C) and storm outfall (from intersection with Street C to Pond).
Contaminants:
Emission Control:

Site:
lot 4 and lot 5, Concession 1 & 2, SDS Burlington ON

Database: ***CA***

Certificate #: 8780-4LGQG4
Application Year: 00
Issue Date: 6/21/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation Of The City Of Burlington
Client Address: P.O. Box 5013, 426 Brant Street
Client City: Burlington
Client Postal Code: L7R 3Z6
Project Description: Extension of existing 965mm x 1625mm storm sewer from existing outlet to proposed culvert, and construction of new storm sewer and catchbasins along Upper Middle Road (from Appleby Line to Orchard Road).
Contaminants:
Emission Control:

Site: ***Bronte Woods Community Subdivision***
Part of Lot 3, Concession 1 Burlington ON

Database: ***CA***

Certificate #: 3181-54GQU5
Application Year: 01
Issue Date: 11/16/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: 1374151 Ontario Inc.
Client Address: 2398 Headon Road
Client City: Burlington
Client Postal Code: L7M 3Y3
Project Description: watermain construction
Contaminants:
Emission Control:

Site: ***Bronte Woods Community Subdivision***
Part of Lot 3, Concession 1 Burlington ON

Database: ***CA***

Certificate #: 4293-54MQ8P
Application Year: 01
Issue Date: 11/22/01
Approval Type: Municipal & Private sewage

Status: Approved
Application Type: New Certificate of Approval
Client Name: 1374151 Ontario Inc.
Client Address: 2398 Headon Road
Client City: Burlington
Client Postal Code: L7M 3Y3
Project Description: storm and sanitary sewer construction
Contaminants:
Emission Control:

Site: ***404072 Ontario Limited***
Lot 4 Concession 1 Conc Oakville ON L9T 8Z4

Database: ***ECA***

Approval No: 2979-CHMKP8
Approval Date: September 16, 2022
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District: North Bay
City:
Longitude:
Latitude:
Geometry X: -9016878.7543000001
Geometry Y: 5700582.7322999965
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: 404072 Ontario Limited
Address: Lot 4 Concession 1 Conc
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4045-CHDJEU-14.pdf
PDF Site Location: Petgor Phase 2 Block 263 Development
Lot 4 Concession 1
Town of Oakville, Regional Municipality of Halton

Site: ***Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.***
Various locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No: 7737-9W2KCW
Approval Date: 2015-05-05
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.
Address: Various locations in Ontario
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6016-9KAJMN-14.pdf
PDF Site Location:

Site: ***City of Burlington***
Upper Middle Rd Burlington ON L7R 3Z6

Database: ***ECA***

Approval No: 0986-7D5HWL
Approval Date: 2008-03-28
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: City of Burlington
Address: Upper Middle Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6541-7CPHU4-14.pdf
PDF Site Location:

Site: ***The Regional Municipality of Halton***
Appleby Line Burlington ON L6M 3L1

Database: ***ECA***

Approval No:	4380-62LQKU	***MOE District:***	
Approval Date:	2004-07-06	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	The Regional Municipality of Halton		
Address:	Appleby Line		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/9635-623QN5-14.pdf		
PDF Site Location:			

Site: ***Tabera Ltd.***
Part of Lot 2, Concession 1, SDS Burlington ON M5M 3Z2

Database: ***ECA***

Approval No:	0652-538JYL	***MOE District:***	
Approval Date:	2001-10-15	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Tabera Ltd.		
Address:	Part of Lot 2, Concession 1, SDS		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/1970-52SNRS-14.pdf		
PDF Site Location:			

Site: ***The Regional Municipality of Halton***
Within the Right of Way of Appleby Line Burlington ON L6M 3L1

Database: ***ECA***

Approval No:	7555-4TGS7R	***MOE District:***	
Approval Date:	2001-02-05	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Business Name:	The Regional Municipality of Halton		
Address:	Within the Right of Way of Appleby Line		
Full Address:			
Full PDF Link:			
PDF Site Location:			

Site: ***Dunster Investments Limited***
Burloak Drive and Block 9 Access Road Burlington ON M3H 5V3

Database: ***ECA***

Approval No:	2962-5QEKCR	***MOE District:***	
Approval Date:	2003-08-25	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Dunster Investments Limited		

Address: Burloak Drive and Block 9 Access Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8535-5Q6LW9-14.pdf
PDF Site Location:

Site: ***The Regional Municipality of Halton***
Appleby Line Burlington ON L6M 3L1

Database: ***ECA***

Approval No: 8170-5Y9RZU
Approval Date: 2004-04-23
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: The Regional Municipality of Halton
Address: Appleby Line
Full Address:
Full PDF Link:
PDF Site Location:

Site: ***Dunster Investments Limited***
Burloak Drive and Block 9 Access Road Burlington ON M3H 5V3

Database: ***ECA***

Approval No: 3401-5QEKY3
Approval Date: 2003-08-25
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: Dunster Investments Limited
Address: Burloak Drive and Block 9 Access Road
Full Address:
Full PDF Link:
PDF Site Location:

Site: ***Melrose Investments Inc.***
South of Dundas Street Oakville ON L6J 0A7

Database: ***ECA***

Approval No: 2513-9BHJA5
Approval Date: 2013-09-30
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Melrose Investments Inc.
Address: South of Dundas Street
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3399-9B9J9E-14.pdf
PDF Site Location:

Site: ***Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.***
Various locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No: 8007-9W2J9W
Approval Date: 2015-05-05
Status: Revoked and/or Replaced
MOE District:
City:
Longitude:

Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.
Address: Various locations in Ontario
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8589-9KAJYF-14.pdf
PDF Site Location:
Latitude:
Geometry X:
Geometry Y:

Site: ***Bella Court Developments Limited***
Part of Lot 4, Concession 1, S.D.S. Burlington ON L7N 3P2

Database: ***ECA***

Approval No: 3915-5FNPPP
Approval Date: 2002-11-08
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Bella Court Developments Limited
Address: Part of Lot 4, Concession 1, S.D.S.
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1468-5FMUHE-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***The Regional Municipality of Halton***
Sutton Drive from Mainway to Upper Middle Road Burlington ON L6M 3L1

Database: ***ECA***

Approval No: 1714-4H7QNE
Approval Date: 2000-03-09
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Regional Municipality of Halton
Address: Sutton Drive from Mainway to Upper Middle Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5517-4GBT77-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***Suncor Energy Inc.***
Various locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No: 8558-AAHJMW
Approval Date: 2016-07-22
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Suncor Energy Inc.
Address: Various locations in Ontario
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7637-A67RNM-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.***
Various Locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No:	0828-9DGMQK	***MOE District:***	
Approval Date:	2013-11-26	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-INDUSTRIAL SEWAGE WORKS		
Project Type:	INDUSTRIAL SEWAGE WORKS		
Business Name:	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.		
Address:	Various Locations in Ontario		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/1381-9ALR6V-14.pdf		
PDF Site Location:			

Site: ***Melrose Investments Inc.***
Oakville ON L6J 0A7

Database: ***ECA***

Approval No:	4152-9EKM2H	***MOE District:***	
Approval Date:	2014-01-21	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Melrose Investments Inc.		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4590-9CWHQR-14.pdf		
PDF Site Location:			

Site: ***Suncor Energy Inc.***
Various Locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No:	3551-9CBRQP	***MOE District:***	
Approval Date:	2013-10-31	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-INDUSTRIAL SEWAGE WORKS		
Project Type:	INDUSTRIAL SEWAGE WORKS		
Business Name:	Suncor Energy Inc.		
Address:	Various Locations in Ontario		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6352-9ADQSN-14.pdf		
PDF Site Location:			

Site: ***Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.***
Various Locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No:	3352-9A3GTX	***MOE District:***	
Approval Date:	2013-07-30	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-INDUSTRIAL SEWAGE WORKS		
Project Type:	INDUSTRIAL SEWAGE WORKS		
Business Name:	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.		
Address:	Various Locations in Ontario		

Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0006-94QQ48-14.pdf
PDF Site Location:

Site: ***Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.***
Various locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No: 8054-AWEQVH
Approval Date: 2018-03-01
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.
Address: Various locations in Ontario
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7140-AQ9KMN-14.pdf
PDF Site Location:

Site: ***The Regional Municipality of Halton***
Appleby Line Burlington ON L6M 3L1

Database: ***ECA***

Approval No: 7967-5NTPCY
Approval Date: 2003-06-25
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: The Regional Municipality of Halton
Address: Appleby Line
Full Address:
Full PDF Link:
PDF Site Location:

Site: ***Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.***
Various Locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No: 4635-98ULLG
Approval Date: 2013-06-24
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.
Address: Various Locations in Ontario
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8881-94QQB7-14.pdf
PDF Site Location:

Site:
Mainway Burlington ON

Database: ***EHS***

Order No: 20111123010
Status: C
Report Type: Custom Report
Report Date: 11/24/2011
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25

Date Received:	11/23/2011 11:13:03 AM	***X:***	-79.771198
Previous Site Name:		***Y:***	1
Lot/Building Size:			
Additional Info Ordered:			

Site: ***Database:***
EHS

Mainway Burlington ON

Order No:	20111108016	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Custom Report	***Client Prov/State:***	ON
Report Date:	11/16/2011	***Search Radius (km):***	0.25
Date Received:	11/8/2011	***X:***	-79.76883
Previous Site Name:		***Y:***	43.39215
Lot/Building Size:			
Additional Info Ordered:			

Site: ***Database:***
EHS

Ironstone Drive Burlington ON

Order No:	20040521016	***Nearest Intersection:***	Southwest corner of Appleby Lane and Ironstone Drive
Status:	C	***Municipality:***	
Report Type:	Complete Report	***Client Prov/State:***	OH
Report Date:	6/2/04	***Search Radius (km):***	0.50
Date Received:	5/21/04	***X:***	-79.788409
Previous Site Name:		***Y:***	43.391307
Lot/Building Size:	8.8 acres		
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Site: ***Database:***
EHS

Burloak Dr Burlington ON

Order No:	20020919011	***Nearest Intersection:***	north of Prince William Dr
Status:	C	***Municipality:***	
Report Type:	Custom Report	***Client Prov/State:***	ON
Report Date:	9/27/02	***Search Radius (km):***	0.45
Date Received:	9/19/02	***X:***	-79.750026
Previous Site Name:		***Y:***	43.388864
Lot/Building Size:			
Additional Info Ordered:			

Site: ***Amcast Industrial Limited and Mr. Peter Clothier*** ***Database:***
Burlinton ON ***FCON***

Mailing Address:	Burlington, ON
Offence Date:	1993-1995
Offence:	CEPA 7 Counts: Ozone-depleting Substances Products Regulations. Alleged illegal sale of a product containing restricted ozone-depleting substances (SCC20 Switch and Contact Cleaner containing CFC 113)
Status:	For Plea
Offence Location:	
Date Charged:	96/05/15
Court Date:	96/08/14
Penalty:	
Result:	
Notes:	

Site: ***Enbridge Pipelines Inc*** ***Database:***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON ***GEN***

Generator No:	ON4049679

SIC Code: 486110
SIC Description: Pipeline Transportation of Crude Oil
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***ANIMAL HOSPITAL OF RIVER OAKS***
CHG UPPER MIDDLE ROAD WEST OAKVILLE ON L6H 1M2

Database: ***GEN***

Generator No: ON1964800
SIC Code: 0211
SIC Description: VETERINARY SERVICE
Approval Years: 96,97,98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Site: ***INTERPROVINCIAL PIPE LINE INC.***
LOT 35, CONCESSION 2 SOUTH OF DUNDAS STREET OAKVILLE ON

Database: ***GEN***

Generator No: ON0102612
SIC Code: 4612
SIC Description: OIL PIPELINE TRANS.
Approval Years: 98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***INTERPROVINCIAL PIPE LINE INC. 21-572***
LOT 35, CONC.2 S. OF DUNDAS ST. OAKVILLE ON

Database: ***GEN***

Generator No: ON0102612
SIC Code: 4612
SIC Description: OIL PIPELINE TRANS.
Approval Years: 92,93,94,95,96,97
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***VAC AERO International Incorporated Head Office***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211 H
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***Trans Northern Pipelines Inc.***
Between Concession 2 and 3, South of Dundas St Oakville ON L6J 4A8

Database: ***GEN***

Generator No: ON7768663
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:

MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

---

Site: ***Trans Northern Pipelines Inc.***
Lot 3, Concession 2, South of Dundas Oakville ON L6J 7T1

Database: ***GEN***

Generator No: ON3030409
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

---

Site: ***VAC AERO International Incorporated Head Office***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 211 H
Waste Class Name: Aromatic solvents and residues

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Site: ***VAC AERO International Incorporated Head Office***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code:
SIC Description:

Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211 H
Waste Class Name: Aromatic solvents and residues

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

---

Site: ***VAC AERO International Incorporated Head Office***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 211 H
Waste Class Name: Aromatic solvents and residues

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON L6M 4J7

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: PIPELINE TRANSPORTATION OF CRUDE OIL
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL

Phone No Admin:
Contaminated Facility: Yes
MHSW Facility: No

Detail(s)

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Site: ***VAC AERO International Incorporated***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code: 333990
SIC Description: ALL OTHER GENERAL-PURPOSE MACHINERY MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Wade Maloney
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905 336 0673 Ext.127
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON L6M 4J7

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: PIPELINE TRANSPORTATION OF CRUDE OIL
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: Yes
MHSW Facility: No

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***VAC AERO International Incorporated***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code: 333990
SIC Description: ALL OTHER GENERAL-PURPOSE MACHINERY MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Wade Maloney
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905 336 0673 Ext.127
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***VAC AERO International Incorporated***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code: 333990
SIC Description: ALL OTHER GENERAL-PURPOSE MACHINERY MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Wade Maloney
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905 336 0673 Ext.127
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON L6M 4J7

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: PIPELINE TRANSPORTATION OF CRUDE OIL
Approval Years: 2016

PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: Yes
MHSW Facility: No

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: PIPELINE TRANSPORTATION OF CRUDE OIL
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***VAC AERO International Incorporated***
Mainway Burlington ON

Database: ***GEN***

Generator No: ON8346163
SIC Code: 333990
SIC Description: ALL OTHER GENERAL-PURPOSE MACHINERY MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON L6M 4J7

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: Pipeline Transportation of Crude Oil
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: Pipeline Transportation of Crude Oil
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON L6M 4J7

Database: ***GEN***

Generator No: ON4049679
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: Pipeline Transportation of Crude Oil
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Site: ***Ralph Van der Meuler***
Lot 4, Concession 1 Oakville ON

Database: ***LIMO***

ECA/Instrument No: A210404
Operation Status: Closed
C of A Issue Date:
C of A Issued to:
Lndfl Gas Mgmt (P):
Lndfl Gas Mgmt (F):
Lndfl Gas Mgmt (E):
Lndfl Gas Mgmt Sys:
Landfill Gas Mntr:
Leachate Coll Sys:
ERC Est Vol (m3):
Natural Attenuation:
Liners:
Cover Material:
Leachate Off-Site:
Leachate On Site:
Req Coll Lndfll Gas:
Lndfll Gas Coll:
Total Waste Rec:
TWR Methodology:
TWR Unit:
Tot Aprv Cap Unit:

ERC Volume Unit:		***Financial Assurance:***	
ERC Dt Last Det:		***Last Report Year:***	
Landfill Type:		***Region:***	Central
Source File Type:		***District Office:***	Halton-Peel
Fill Rate:		***Site County:***	
Fill Rate Unit:		***Lot:***	
Tot Fill Area (ha):		***Concession:***	
Tot Site Area (ha):		***Latitude:***	
Footprint:		***Longitude:***	
Tot Apprv Cap (m3):		***Easting:***	
Contam Atten Zone:		***Northing:***	
Grndwtr Mntr:		***UTM Zone:***	
Surf Wtr Mntr:		***Data Source:***	
Air Emis Monitor:			
Approved Waste Type:			
Client Site Name:			
ERC Methodology:			
Site Name:	Ralph Van der Meuler		
Site Location Details:			
Service Area:			
Page URL:			

Site: ***Enbridge Pipelines Inc.***
ON

Database: ***PTTW***

EBR Registry No:	013-4308	***Decision Posted:***	
Ministry Ref No:	4020-B6NLWC	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	March 08, 2019	***Act 2:***	
Proposal Date:	December 12, 2018	***Site Location Map:***	
Year:	2018		
Instrument Type:	Permit to Take Water - OWRA s. 34		
Off Instrument Name:			
Posted By:			
Company Name:			
Site Address:			
Location Other:			
Proponent Name:	Enbridge Pipelines Inc.		
Proponent Address:	10175-101 Street Northwest Edmonton Alberta Canada T5J 0H3		
Comment Period:			
URL:	http://www.ebr.gov.on.ca/ERS-WEB-External/displaynoticecontent.do?noticeId=MTM2NzM2&statusId=MjA5NTM4&language=en		

Site Location Details:

Enbridge Integrity Dig Sites (MP 1887.0059 to MP 1895.1845)
Lot: 2 to 7, Concession: Range 4 North of Dundas Street, Lot: 1 to 2 and 7 to 8, Concession: Range 5 North of Dundas Street, Lot: 11 to 24 and 31 to 35, Concession: 2 North of Dundas Street, Geographic Township of TORONTO, City of Mississauga, Regional Municipality of Peel
Lot: 1 to 7, Concession: 2 North of Dundas Street, Geographic Township of TRAFALGAR, Town of Oakville, Regional Municipality of Halton
TORONTO
TRAFALGAR

Site: ***Burlington Springs Golf Course***
Lots 1,2 Concession 2 CITY OF BURLINGTON ON

Database: ***PTTW***

EBR Registry No:	IA00E1515	***Decision Posted:***	
Ministry Ref No:	00-P-3072	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	March 14, 2003	***Act 2:***	
Proposal Date:	September 20, 2000	***Site Location Map:***	
Year:	2000		
Instrument Type:	(OWRA s. 34) - Permit to Take Water		
Off Instrument Name:			

Posted By:
Company Name: Burlington Springs Golf Course
Site Address:
Location Other:
Proponent Name:
Proponent Address: 4235 Cedar Springs Road, R.R. #3, Campbellville Ontario, L0R 1B0
Comment Period:
URL:

Site Location Details:

Lots 1,2 Concession 2 CITY OF BURLINGTON

Site: ***Enbridge Pipelines Inc.***
ON

Database: ***PTTW***

EBR Registry No: 013-4200
Ministry Ref No: 7776-B6QMBU
Notice Type: Instrument Decision
Notice Stage:
Notice Date: March 08, 2019
Proposal Date: November 28, 2018
Year: 2018
Instrument Type: Permit to Take Water - OWRA s. 34
Off Instrument Name:
Posted By:
Company Name:
Site Address:
Location Other:
Proponent Name: Enbridge Pipelines Inc.
Proponent Address: 10130 103 Street Northwest Edmonton Alberta Canada T5J 3N7
Comment Period:
URL: http://www.ebr.gov.on.ca/ERS-WEB-External/displaynoticecontent.do?noticeId=MTM2NjMz&statusId=MjA5NTM2&language=en

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Integrity Dig Sites MP 1873.5348 to MP 1887.0059
Lots 1 to 3, Concession 2 North of Dundas Street
Town of Milton, Regional Municipality of Halton
Integrity Dig Sites MP 1873.5348 to MP 1887.0059
Lots 21 to 28, Concession 2 North of Dundas Street
Town of Oakville, Regional Municipality of Halton
Integrity Dig Sites MP 1873.5348 to MP 1887.0059
Lots 7 to 20 and 29 and 30, Concession 2
Town of Milton, Regional Municipality of Halton
Integrity Dig Sites MP 1873.5348 to MP 1887.0059
Lots 4 to 24, Concession 2 North of Dundas Street
City of Burlington, Regional Municipality of Halton
Integrity Dig Sites MP 1873.5348 to MP 1887.0059
Lot 31 to 35, Concession 2 North of Dundas Street
Town of Milton, Regional Municipality of Halton
CITY OF BURLINGTON
TOWN OF MILTON
TOWN OF OAKVILLE

Site: ***Straumann Canada Limited***
ON

Database: ***SCT***

Established: 1993
Plant Size (ft²):
Employment: 8

--Details--
Description: Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417930

Site: ***BURLINGTON HYDRO-ELECTRIC COMM TRANSFORMER BURLINGTON CITY ON***

Database: ***SPL***

Ref No: 159820
Year:
Incident Dt: 9/6/1998
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/6/1998
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: BURLINGTON CITY
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: COOLING SYSTEM LEAK
Incident Preceding Spill:
Environment Impact: NOT ANTICIPATED
Health Env Consequence:
Nature of Impact:
Contaminant Qty:
System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: OVERSTRESS/OVERPRESSURE
Incident Summary: BURLINGTON HYDRO-<127L TRANSFORMER OIL TO VAULT.CHLOR-N-OIL POSITIVE.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:

Municipality No: 14101
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site: ***BURLINGTON HYDRO-ELECTRIC COMM MOTOR VEHICLE (OPERATING FLUID) BURLINGTON CITY ON***

Database: ***SPL***

Ref No: 68601
Year:
Incident Dt: 3/19/1992
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/19/1992
Dt Document Closed:
Site No:
MOE Response:
Site County/District:

Municipality No: 14101
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: BURLINGTON CITY
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: PIPE/HOSE LEAK
Incident Preceding Spill:
Environment Impact: NOT ANTICIPATED
Health Env Consequence:
Nature of Impact:
Contaminant Qty:
System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: OVERSTRESS/OVERPRESSURE
Incident Summary: BACKENTRY BURLINGTON HYDRO - 15 L. OF HYDRAULIC FLUID TO GROUND
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:

Site: ***IMPERIAL OIL***
FORD TRUCK PLANT GASOLINE TANK AREA TANK TRUCK (CARGO) OAKVILLE TOWN ON

Database: ***SPL***

Ref No: 3118
Year:
Incident Dt: 5/2/1988
Dt MOE Arvl on Scn:
MOE Reported Dt: 5/2/1988
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: OAKVILLE TOWN
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: CONTAINER OVERFLOW
Incident Preceding Spill:
Environment Impact:
Health Env Consequence:

Municipality No: 14403
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Nature of Impact:
Contaminant Qty:
System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: ERROR
Incident Summary: IMPERIAL OIL - 2700 L. GASOLINE TO SUMP AREA AT FORD TRUCK PLANT
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:

Site:
Mainway, East of Appleby Line Burlington ON

Database: ***SPL***

Ref No: 8713-AB9RLC
Year:
Incident Dt: 2016/06/25
Dt MOE Arvl on Scn:
MOE Reported Dt: 2016/06/25
Dt Document Closed: 2016/07/14
Site No: NA
MOE Response: No
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: Manhole #MH7550<UNOFFICIAL>
Site Address: Mainway, East of Appleby Line
Site Region:
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause:
Incident Preceding Spill: Overflow/Surcharge
Environment Impact:
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 0.5 m^3
System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code: 44
Contaminant Name: SEWAGE,RAW UNCHLORINATED
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Surface Water
Incident Reason: Blockage
Incident Summary: Region of Halton: 0.5m3 Raw Swg to CB and Road. Cleaned.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Sector Type: Municipal Sewage
SAC Action Class: Land Spills
Call Report Locatn Geodata:

Site: ***Burlington Hydro***
Burlington ON

Database: ***SPL***

Ref No: 4840-9HPLMJ
Year:
Incident Dt: 2014/03/29
Dt MOE Arvl on Scn:
MOE Reported Dt: 2014/03/30
Dt Document Closed: 2014/06/05
Site No: NA
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: 2270 Headon Forest Drive, Burlington<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Leak/Break
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Soil Contamination; Surface Water Pollution
Contaminant Qty: 100 L
System Facility Address:
Client Name: Burlington Hydro
Client Type:
Source Type:
Contaminant Code: 15
Contaminant Name: TRANSFORMER OIL (N.O.S.)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Incident Reason: Operator/Human Error
Incident Summary: Burlington Hydro: transformer oil to ground
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Transformer
SAC Action Class: Land Spills
Call Report Locatn Geodata:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site: ***Burlington Hydro Inc.***
Burlington ON

Database: ***SPL***

Ref No: 7656-8XMP7Q
Year:
Incident Dt: 29-AUG-12
Dt MOE Arvl on Scn:
MOE Reported Dt: 29-AUG-12
Dt Document Closed: 29-OCT-12
Site No:
MOE Response: No Field Response
Site County/District:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: 2185 Fairchild Road<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Other Discharges
Incident Preceding Spill:
Environment Impact: Not Anticipated
Health Env Consequence:
Nature of Impact: Other Impact(s)
Contaminant Qty: 10 L
System Facility Address:
Client Name: Burlington Hydro Inc.
Client Type:
Source Type:
Contaminant Code: 13
Contaminant Name: MINERAL OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Incident Reason: Spill
Incident Summary: Burlington Hydro: 5-10 l of mineral oil to grnd, clning
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Transformer
SAC Action Class: Land Spills
Call Report Locatn Geodata:

Site: ***Suncor Energy Inc.***
Burlington ON

Database: ***SPL***

Ref No: 1818-8GCHYZ
Year:
Incident Dt: 4/28/2011
Dt MOE Arvl on Scn:
MOE Reported Dt: 4/28/2011
Dt Document Closed: 5/19/2011
Site No:
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: Corner of Appleby and Dundas<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Other Transport Accident
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:

Nature of Impact: Soil Contamination
Contaminant Qty: 7000 L
System Facility Address:
Client Name: Suncor Energy Inc.
Client Type:
Source Type:
Contaminant Code: 12
Contaminant Name: GASOLINE
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Incident Reason: Spill
Incident Summary: SIMULATION: Suncor spill of 7000 L of gasoline to road/land
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Tank Truck
SAC Action Class: Land Spills
Call Report Locatn Geodata:

Site: ***Metro Waste Paper Recovery Inc.***
Appleby Line Burlington ON

Database: ***SPL***

Ref No: 7027-87UNN3
Year:
Incident Dt:
Dt MOE Arvl on Scn:
MOE Reported Dt: 7/30/2010
Dt Document Closed:
Site No:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: Appleby Line<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality:
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause:
Incident Preceding Spill:
Environment Impact: Not Anticipated
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 125 L
System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code: 15
Contaminant Name: HYDRAULIC OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Incident Reason:
Incident Summary: QEW E/Appleby Line: hydraulic oil to road/drain
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Sector Type:
SAC Action Class: Land Spills
Call Report Locatn Geodata:

Site: ***Zenon Environmental Inc.***
Mainway Ave, Burlington ON

Database: ***SPL***

Ref No: 4442-67746L
Year:
Incident Dt: 11/26/2004
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/28/2004
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: ZENON ENVIRONMENTAL - PRODUCTION PLANT<UNOFFICIAL>
Site Address:
Site Region: Central
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Other Discharges
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Human Health/Safety; Other Impact(s); Soil Contamination
Contaminant Qty:
System Facility Address:
Client Name: Zenon Environmental Inc.
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land
Incident Reason:
Incident Summary: Hotline: Unkn Sub from Zenon, Stained Cars
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:

Site:
lot 3 con 2 ON

Database: ***WWIS***

Well ID: 2809158
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54154
Tag:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1

Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155415	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	01/28/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931454460
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	42.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933140508
Layer:	1
Plug From:	0.0
Plug To:	25.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	962809158
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	10703985
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930264474
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	3.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933339083
Layer:	1
Slot:	
Screen Top Depth:	27.0
Screen End Depth:	42.0
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	992809158
Pump Set At:	
Static Level:	22.0
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933613319
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	22.0
Water Found Depth UOM:	ft

Site:
lot 3 con 2 ON

Database:
WWIS

Well ID: 2809156
Construction Date:

Flowing (Y/N):
Flow Rate:

Use 1st:	Not Used	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Observation Wells	***Date Received:***	04/18/2000
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	54151	***Contractor:***	1129
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155413	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	01/25/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931454458
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	56.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933140506
Layer:	1
Plug From:	0.0
Plug To:	33.0
Plug Depth UOM:	ft

Method of Construction & Well

Use

Method Construction ID: 962809156
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703983
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264472
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339081
Layer: 1
Slot:
Screen Top Depth: 36.0
Screen End Depth: 56.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809156
Pump Set At:
Static Level: 27.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613317
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 27.0

Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database:
WWIS

Well ID:	2809155	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Not Used	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Observation Wells	***Date Received:***	04/18/2000
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	54150	***Contractor:***	1129
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155412	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	01/19/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931454457
Layer:	1
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	61.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140505

Layer: 1
Plug From: 0.0
Plug To: 39.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809155
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703982
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264471
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339080
Layer: 1
Slot:
Screen Top Depth: 41.0
Screen End Depth: 61.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809155
Pump Set At:
Static Level: 30.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID:	933613316
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	30.0
Water Found Depth UOM:	ft

Site:
lot 3 con 2 ON

Database:
WWIS

Well ID:	2809154	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Not Used	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Observation Wells	***Date Received:***	04/18/2000
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	54148	***Contractor:***	1129
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155411	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	01/10/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931454456
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0

Formation End Depth: 56.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140504
Layer: 1
Plug From: 0.0
Plug To: 34.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809154
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703981
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264470
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339079
Layer: 1
Slot:
Screen Top Depth: 36.0
Screen End Depth: 56.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809154
Pump Set At:
Static Level: 34.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM

Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613315
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 34.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database: ***WWIS***

Well ID: 2809153
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54149
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155410
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/17/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454455
Layer: 1
Color: 6
General Color: BROWN

Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 64.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140503
Layer: 1
Plug From: 0.0
Plug To: 30.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809153
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703980
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264469
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339078
Layer: 1
Slot:
Screen Top Depth: 34.0
Screen End Depth: 64.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809153
Pump Set At:
Static Level: 47.0

Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613314
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 47.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database:
WWIS

Well ID: 2809152
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54147
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155409
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/06/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID:	931454454
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	45.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933140502
Layer:	1
Plug From:	0.0
Plug To:	25.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	962809152
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	10703979
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930264468
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	3.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933339077
Layer:	1
Slot:	
Screen Top Depth:	25.0
Screen End Depth:	45.0
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	992809152
Pump Set At:	
Static Level:	11.0
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933613313
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	11.0
Water Found Depth UOM:	ft

Site:
lot 2 con 1 ON

Database:
WWIS

Well ID:	2808930	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	02/18/1999
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	192159	***Contractor:***	1660
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	002
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	DS N
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155187	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	09/16/1998	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			

Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931453566
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 16.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931453568
Layer: 4
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 19.0
Formation End Depth: 53.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931453567
Layer: 3
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 16.0
Formation End Depth: 19.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931453565
Layer: 1
Color: 8
General Color: BLACK
Material 1: 02

Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140346
Layer: 1
Plug From: 0.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962808930
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10703757
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264077
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 53.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930264076
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 25.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992808930
Pump Set At:
Static Level: 17.0
Final Level After Pumping: 48.0

Recommended Pump Depth: 19.0
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934457039
Test Type: Draw Down
Test Duration: 30
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934977454
Test Type: Draw Down
Test Duration: 60
Test Level: 48.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934715564
Test Type: Draw Down
Test Duration: 45
Test Level: 48.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934174641
Test Type: Draw Down
Test Duration: 15
Test Level: 28.0
Test Level UOM: ft

Water Details

Water ID: 933612966
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 48.0
Water Found Depth UOM: ft

Site:
lot 4 ON

Database:
WWIS

Well ID: 2808929
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 02/23/1999
Selected Flag: TRUE
Abandonment Rec:

Audit No:	200482	***Contractor:***	1737
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	004
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155186	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	11/02/1998	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931453563
Layer:	2
Color:	2
General Color:	GREY
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	06
Material 2 Desc:	SILT
Material 3:	12
Material 3 Desc:	STONES
Formation Top Depth:	47.0
Formation End Depth:	87.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931453562
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	12
Material 2 Desc:	STONES
Material 3:	06
Material 3 Desc:	SILT
Formation Top Depth:	0.0
Formation End Depth:	47.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 931453564
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 73
Material 2 Desc: HARD
Material 3: 85
Material 3 Desc: SOFT
Formation Top Depth: 87.0
Formation End Depth: 120.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962808929
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 10703756
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264074
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 60.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930264075
Layer: 2
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 120.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339064
Layer: 1
Slot: 020
Screen Top Depth: 20.0
Screen End Depth: 60.0

Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 5.0

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992808929
Pump Set At:
Static Level: 37.0
Final Level After Pumping: 115.0
Recommended Pump Depth: 118.0
Pumping Rate: 1.0
Flowing Rate:
Recommended Pump Rate: 1.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 48
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934977453
Test Type: Recovery
Test Duration: 60
Test Level: 55.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934174640
Test Type: Recovery
Test Duration: 15
Test Level: 100.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934715563
Test Type: Recovery
Test Duration: 45
Test Level: 70.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934457038
Test Type: Recovery
Test Duration: 30
Test Level: 85.0
Test Level UOM: ft

Water Details

Water ID: 933612965
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 90.0

Water Found Depth UOM: ft

Site:
lot 4 con 2 ON

Database:
WWIS

Well ID:	2808787	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	06/17/1998
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	187553	***Contractor:***	1660
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	004
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS N
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155044	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	12/22/1997	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931452964
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	11.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931452966

Layer: 4
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 33.0
Formation End Depth: 76.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452965
Layer: 3
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 81
Material 2 Desc: SANDY
Material 3:
Material 3 Desc:
Formation Top Depth: 11.0
Formation End Depth: 33.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452963
Layer: 1
Color: 8
General Color: BLACK
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962808787
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10703614
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930263853

Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 76.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930263852
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 37.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992808787
Pump Set At:
Static Level: 19.0
Final Level After Pumping: 68.0
Recommended Pump Depth: 72.0
Pumping Rate: 6.0
Flowing Rate:
Recommended Pump Rate: 6.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934182897
Test Type: Draw Down
Test Duration: 15
Test Level: 32.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934715059
Test Type: Draw Down
Test Duration: 45
Test Level: 58.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934447627
Test Type: Draw Down
Test Duration: 30
Test Level: 47.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	934977366
Test Type:	Draw Down
Test Duration:	60
Test Level:	68.0
Test Level UOM:	ft

Water Details

Water ID:	933612779
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	51.0
Water Found Depth UOM:	ft

Site:
con 1 ON

Database:
WWIS

Well ID:	2808555	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	08/14/1997
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	181752	***Contractor:***	4005
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	DS N
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	10154812	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	07/29/1997	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931452083
Layer:	2

Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 12.0
Formation End Depth: 18.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452084
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 77
Material 2 Desc: LOOSE
Material 3:
Material 3 Desc:
Formation Top Depth: 18.0
Formation End Depth: 27.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452086
Layer: 5
Color: 2
General Color: GREY
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 60.0
Formation End Depth: 97.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452082
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452085
Layer: 4
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 73
Material 2 Desc: HARD
Material 3:
Material 3 Desc:
Formation Top Depth: 27.0
Formation End Depth: 60.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452087
Layer: 6
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 73
Material 2 Desc: HARD
Material 3:
Material 3 Desc:
Formation Top Depth: 97.0
Formation End Depth: 100.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962808555
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10703382
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930263412
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 27.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930263413
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE

Depth From:
Depth To: 100.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992808555
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 2
Pumping Duration HR: 0
Pumping Duration MIN: 30
Flowing: No

Site:
lot 4 con 1 ON

Database: ***WWIS***

Well ID: 2806702
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 16638
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 07/30/1987
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3349
Form Version: 1
Owner:
County: HALTON
Lot: 004
Concession: 01
Concession Name: SOS
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10152971
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/30/1987
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931443973
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 37.0
Formation End Depth: 200.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931443971
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931443972
Layer: 2
Color: 3
General Color: BLUE
Material 1: 05
Material 1 Desc: CLAY
Material 2: 06
Material 2 Desc: SILT
Material 3: 12
Material 3 Desc: STONES
Formation Top Depth: 8.0
Formation End Depth: 37.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962806702
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10701541

Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930260137
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 200.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930260136
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 42.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992806702
Pump Set At:
Static Level: 41.0
Final Level After Pumping: 200.0
Recommended Pump Depth: 195.0
Pumping Rate: 7.0
Flowing Rate:
Recommended Pump Rate: 40.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934970871
Test Type: Draw Down
Test Duration: 60
Test Level: 200.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934176688
Test Type: Draw Down
Test Duration: 15
Test Level: 86.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934450740
Test Type: Draw Down
Test Duration: 30
Test Level: 131.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934709483
Test Type: Draw Down
Test Duration: 45
Test Level: 170.0
Test Level UOM: ft

Water Details

Water ID: 933610069
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 42.0
Water Found Depth UOM: ft

Water Details

Water ID: 933610070
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 169.0
Water Found Depth UOM: ft

Site:
lot 5 con 1 ON

Database: ***WWIS***

Well ID: 2805374
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 08/17/1979
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4005
Form Version: 1
Owner:
County: HALTON
Lot: 005
Concession: 01
Concession Name: DS N
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009023696
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:

Elevation:
Elevrc:
Zone:
East83:
North83:

Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	9
Date Completed:	08/02/1979	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Site: ***Database:*** ***WWIS***

lot 5 con 1 ON

Well ID:	2805420	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	10/25/1979
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	NA	***Contractor:***	3349
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	005
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	1009073643	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	9
Date Completed:	08/18/1978	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Site: ***Database:*** ***WWIS***

lot 5 con 1 ON

Well ID:	2806218	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	11/19/1984
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	NA	***Contractor:***	3349
Tag:		***Form Version:***	1

Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Owner:
County: HALTON
Lot: 005
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009074060
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 09/16/1983
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Site:
lot 5 con 1 ON

Database: ***WWIS***

Well ID: 2806108
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 03/23/1984
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3637
Form Version: 1
Owner:
County: HALTON
Lot: 005
Concession: 01
Concession Name: DS N
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009073985
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 07/15/1983
Remarks:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Site: ***Database:*** ***WWIS***
lot 2 con 1 ON

Well ID: 2806061
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 08/12/1983
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4008
Form Version: 1
Owner:
County: HALTON
Lot: 002
Concession: 01
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009073919
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 08/05/1983
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Site: ***Database:*** ***WWIS***
lot 5 con 1 ON

Well ID: 2806044
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 07/29/1983
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4005
Form Version: 1
Owner:
County: HALTON
Lot: 005
Concession: 01

Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009073826
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 05/07/1983
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Site:
lot 5 con 2 ON

Database: ***WWIS***

Well ID: 2806021
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 03/18/1983
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3637
Form Version: 1
Owner:
County: HALTON
Lot: 005
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009073784
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 07/06/1982
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Site: ***Database:*** ***WWIS***
lot 5 con 2 ON

Well ID:	2806020	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	03/18/1983
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	NA	***Contractor:***	3637
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	005
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	1009073772	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	9
Date Completed:	08/16/1982	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Site: ***Database:*** ***WWIS***
lot 2 con 1 ON

Well ID:	2805827	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	06/01/1982
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	NA	***Contractor:***	4005
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	002
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	NS
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	

Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009073658
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 05/13/1982
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Site:
lot 5 con 1 ON

Database: ***WWIS***

Well ID: 2806003
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 03/18/1983
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3637
Form Version: 1
Owner:
County: HALTON
Lot: 005
Concession: 01
Concession Name: DS N
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009023741
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 08/10/1982
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Site:
lot 5 con 1 ON

Database: ***WWIS***

Well ID:	2805390	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	09/07/1979
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	NA	***Contractor:***	4005
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	005
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	DS N
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	1009023732	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	9
Date Completed:	09/01/1979	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Site:
lot 1 con 2 BURLINGTON ON

Database: ***WWIS***

Well ID:	2810606	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Abandoned-Quality	***Date Received:***	08/25/2006
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	Yes
Audit No:	Z50917	***Contractor:***	4868
Tag:		***Form Version:***	3
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	001
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	11552516	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	08/03/2006	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	933300315
Layer:	4
Plug From:	4.0
Plug To:	0.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933300314
Layer:	3
Plug From:	33.0
Plug To:	4.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933300313
Layer:	2
Plug From:	35.0
Plug To:	33.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933300312
Layer:	1
Plug From:	45.0
Plug To:	35.0
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	962810606
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID: 11562123
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930885033
Layer: 1
Material: 3
Open Hole or Material: CONCRETE
Depth From: 0.0
Depth To: 45.0
Casing Diameter: 30.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Hole Diameter

Hole ID: 11683640
Diameter: 30.0
Depth From: 0.0
Depth To: 45.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809820
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Not A Well
Water Type:
Casing Material:
Audit No: 259726
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 11/10/2003
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7215
Form Version: 2
Owner:
County: HALTON
Lot:
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11098123
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/18/2003
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Method of Construction & Well Use

Method Construction ID: 962809820
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11101838
Casing No: 1
Comment:
Alt Name:

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809819
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 259727
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 11/10/2003
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7215
Form Version: 2
Owner:
County: HALTON
Lot:
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11098122
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/18/2003
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID: 962809819
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11101837
Casing No: 1
Comment:
Alt Name:

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809818
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Not A Well
Water Type:
Casing Material:
Audit No: 259728
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 11/10/2003
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7215
Form Version: 2
Owner:
County: HALTON
Lot:
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11098121
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/18/2003
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID: 962809818
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11101836
Casing No: 1
Comment:
Alt Name:

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809817
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 259729
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 11/10/2003
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7215
Form Version: 2
Owner:
County: HALTON
Lot:
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11098120
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/18/2003
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID: 962809817
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11101835
Casing No: 1
Comment:
Alt Name:

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809816
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Not A Well
Water Type:
Casing Material:
Audit No: 259730
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 11/10/2003
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7215
Form Version: 2
Owner:
County: HALTON
Lot:
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11098119
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/18/2003
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID: 962809816
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11101834
Casing No: 1
Comment:
Alt Name:

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809815
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 11/10/2003
Selected Flag: TRUE
Abandonment Rec:

Audit No:	257909	***Contractor:***	7215
Tag:		***Form Version:***	2
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	11098118	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	10/18/2003	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	962809815
Method Construction Code:	0
Method Construction:	Not Known
Other Method Construction:	

Pipe Information

Pipe ID:	11101833
Casing No:	1
Comment:	
Alt Name:	

Site: ***Database:*** ***WWIS***

con 1 ON

Well ID:	2809579	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	05/22/2002
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	228758	***Contractor:***	3349
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	

Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10525254
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 05/22/2002
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 932862502
Layer: 1
Color: 8
General Color: BLACK
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932862503
Layer: 2
Color: 2
General Color: GREY
Material 1: 00
Material 1 Desc: UNKNOWN TYPE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 46.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933226412
Layer: 1
Plug From: 1.0

Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809579
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11073824
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264967
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930264966
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 992809579
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 4
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 934017948
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 6.0
Water Found Depth UOM: ft

Site:
con 2 ON

Database:
WWIS

Well ID: 2809506
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 234056
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 12/14/2001
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1660
Form Version: 1
Owner:
County: HALTON
Lot:
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10518560
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 09/21/2001
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID: 962809506
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11067130
Casing No: 1
Comment:
Alt Name:

Site:
con 2 ON

Database: ***WWIS***

Well ID:	2809505	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Abandoned-Other	***Date Received:***	12/14/2001
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	234055	***Contractor:***	1660
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	10518559	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	09/21/2001	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	962809505
Method Construction Code:	0
Method Construction:	Not Known
Other Method Construction:	

Pipe Information

Pipe ID:	11067129
Casing No:	1
Comment:	
Alt Name:	

Site:
con 1 ON

Database: ***WWIS***

Well ID:	2809498	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Commerical	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	12/14/2001

Water Type:
Casing Material:
Audit No: 234053
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Selected Flag: TRUE
Abandonment Rec:
Contractor: 1660
Form Version: 1
Owner:
County: HALTON
Lot:
Concession: 01
Concession Name: DS N
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10518552
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/10/2001
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 932838882
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 77
Material 2 Desc: LOOSE
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 19.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838886
Layer: 5
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 42.0

Formation End Depth: 48.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838883
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 81
Material 2 Desc: SANDY
Material 3:
Material 3 Desc:
Formation Top Depth: 19.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838885
Layer: 4
Color: 2
General Color: GREY
Material 1: 06
Material 1 Desc: SILT
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 33.0
Formation End Depth: 42.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838884
Layer: 3
Color: 2
General Color: GREY
Material 1: 29
Material 1 Desc: FINE GRAVEL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 28.0
Formation End Depth: 33.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838887
Layer: 6
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:

Material 3:
Material 3 Desc:
Formation Top Depth: 48.0
Formation End Depth: 80.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933221258
Layer: 1
Plug From: 0.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809498
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11067122
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264894
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930264893
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992809498
Pump Set At:
Static Level: 27.0
Final Level After Pumping: 65.0
Recommended Pump Depth: 70.0
Pumping Rate: 5.0
Flowing Rate:

Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 30
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934175813
Test Type: Draw Down
Test Duration: 15
Test Level: 36.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934716704
Test Type: Draw Down
Test Duration: 45
Test Level: 57.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934458204
Test Type: Draw Down
Test Duration: 30
Test Level: 48.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934978483
Test Type: Draw Down
Test Duration: 60
Test Level: 65.0
Test Level UOM: ft

Water Details

Water ID: 934010629
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 68.0
Water Found Depth UOM: ft

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809497
Construction Date:
Use 1st: Commerical
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 234052
Tag:
Constructn Method:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 12/14/2001
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1660
Form Version: 1
Owner:

Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

County: HALTON
Lot:
Concession: 01
Concession Name: DS N
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10518551
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/05/2001
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 932838878
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 81
Material 2 Desc: SANDY
Material 3:
Material 3 Desc:
Formation Top Depth: 22.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838881
Layer: 5
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 46.0
Formation End Depth: 80.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932838879
Layer: 3
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 84
Material 2 Desc: SILTY
Material 3:
Material 3 Desc:
Formation Top Depth: 30.0
Formation End Depth: 41.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838880
Layer: 4
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 41.0
Formation End Depth: 46.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838877
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 22.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933221257
Layer: 1
Plug From: 0.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809497
Method Construction Code: 1
Method Construction: Cable Tool

Other Method Construction:

Pipe Information

Pipe ID: 11067121
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264891
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930264892
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992809497
Pump Set At:
Static Level: 32.0
Final Level After Pumping: 68.0
Recommended Pump Depth: 70.0
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 30
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934716703
Test Type: Draw Down
Test Duration: 45
Test Level: 62.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934978482

Test Type: Draw Down
Test Duration: 60
Test Level: 68.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934175812
Test Type: Draw Down
Test Duration: 15
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934458203
Test Type: Draw Down
Test Duration: 30
Test Level: 51.0
Test Level UOM: ft

Water Details

Water ID: 934010628
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 70.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database: ***WWIS***

Well ID: 2809166
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54146
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155423
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 12/24/1999
Remarks:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931454468
Layer: 1
Color: 6
General Color: BROWN
Material 1: 00
Material 1 Desc: UNKNOWN TYPE
Material 2: 92
Material 2 Desc: WEATHERED
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 46.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140516
Layer: 1
Plug From: 0.0
Plug To: 25.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809166
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703993
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264482
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339091

Layer: 1
Slot:
Screen Top Depth: 26.0
Screen End Depth: 46.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809166
Pump Set At:
Static Level: 15.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613327
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 15.0
Water Found Depth UOM: ft

Site:
lot 3 con 1 ON

Database: ***WWIS***

Well ID: 2809165
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54144
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 01
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155422
DP2BR:
Elevation:
Elevrc:

Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 12/22/1999
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454467
Layer: 1
Color: 6
General Color: BROWN
Material 1: 17
Material 1 Desc: SHALE
Material 2: 92
Material 2 Desc: WEATHERED
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 62.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140515
Layer: 1
Plug From: 0.0
Plug To: 43.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809165
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703992
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264481
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0

Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339090
Layer: 1
Slot:
Screen Top Depth: 47.0
Screen End Depth: 62.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809165
Pump Set At:
Static Level: 43.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613326
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 43.0
Water Found Depth UOM: ft

Site:
lot 3 ON

Database: ***WWIS***

Well ID: 2809164
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54153
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Site Info:

Bore Hole Information

Bore Hole ID:	10155421	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	01/29/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931454466
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	92
Material 2 Desc:	WEATHERED
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	29.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933140514
Layer:	1
Plug From:	0.0
Plug To:	13.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	962809164
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	10703991
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID: 930264480
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339089
Layer: 1
Slot:
Screen Top Depth: 14.0
Screen End Depth: 29.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809164
Pump Set At:
Static Level: 17.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613325
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 17.0
Water Found Depth UOM: ft

Site:
lot 3 ON

Database:
WWIS

Well ID: 2809163
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54158
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003

Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155420
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 02/08/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454465
Layer: 1
Color: 6
General Color: BROWN
Material 1: 17
Material 1 Desc: SHALE
Material 2: 92
Material 2 Desc: WEATHERED
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140513
Layer: 1
Plug From: 0.0
Plug To: 8.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809163
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10703990

Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264479
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 0.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339088
Layer: 1
Slot:
Screen Top Depth: 10.0
Screen End Depth: 30.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809163
Pump Set At:
Static Level: 10.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613324
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 10.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database: ***WWIS***

Well ID: 2809162
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Observation Wells

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000

Water Type:
Casing Material:
Audit No: 54159
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155419
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/03/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454464
Layer: 1
Color: 6
General Color: BROWN
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140512
Layer: 1
Plug From: 0.0
Plug To: 3.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809162

Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10703989
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264478
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 0.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339087
Layer: 1
Slot:
Screen Top Depth: 3.0
Screen End Depth: 16.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809162
Pump Set At:
Static Level: 5.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613323
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 5.0
Water Found Depth UOM: ft

Site:

lot 3 con 1 ON

Database: ***WWIS***

Well ID:	2809161	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Not Used	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Observation Wells	***Date Received:***	04/18/2000
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	54157	***Contractor:***	1129
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155418	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	02/08/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931454463
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933140511
Layer:	1
Plug From:	0.0

Plug To: 8.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809161
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703988
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264477
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 0.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339086
Layer: 1
Slot:
Screen Top Depth: 10.0
Screen End Depth: 20.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809161
Pump Set At:
Static Level: 8.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613322
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 8.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database:
WWIS

Well ID: 2809160
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54156
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155417
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/30/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454462
Layer: 1
Color: 6
General Color: BROWN
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 41.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140510
Layer: 1
Plug From: 0.0
Plug To: 24.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809160
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703987
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264476
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339085
Layer: 1
Slot:
Screen Top Depth: 26.0
Screen End Depth: 41.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809160
Pump Set At:
Static Level: 20.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:

Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613321
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 20.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database: ***WWIS***

Well ID: 2809159
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54155
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155416
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/30/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454461
Layer: 1
Color: 6
General Color: BROWN
Material 1: 17
Material 1 Desc: SHALE

Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140509
Layer: 1
Plug From: 0.0
Plug To: 17.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809159
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703986
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264475
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339084
Layer: 1
Slot:
Screen Top Depth: 18.0
Screen End Depth: 28.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809159
Pump Set At:
Static Level: 15.0
Final Level After Pumping:
Recommended Pump Depth:

Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613320
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 15.0
Water Found Depth UOM: ft

Site:
lot 5 ON

Database:
WWIS

Well ID: 2806107
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 02/08/1984
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4005
Form Version: 1
Owner:
County: HALTON
Lot: 005
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10152422
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/09/1984
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931441624
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 73
Material 2 Desc: HARD
Material 3:
Material 3 Desc:
Formation Top Depth: 30.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931441623
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 81
Material 2 Desc: SANDY
Material 3: 11
Material 3 Desc: GRAVEL
Formation Top Depth: 12.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931441622
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 77
Material 2 Desc: LOOSE
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962806107
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10700992
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930259095
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 31.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930259096
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 50.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992806107
Pump Set At:
Static Level: 29.0
Final Level After Pumping: 45.0
Recommended Pump Depth: 47.0
Pumping Rate: 7.0
Flowing Rate:
Recommended Pump Rate: 6.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934449082
Test Type: Recovery
Test Duration: 30
Test Level: 29.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934969185
Test Type: Recovery
Test Duration: 60
Test Level: 29.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934175131
Test Type: Recovery
Test Duration: 15
Test Level: 32.0

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934716597
Test Type: Recovery
Test Duration: 45
Test Level: 29.0
Test Level UOM: ft

Water Details

Water ID: 933609357
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 47.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database: ***WWIS***

Well ID: 2809157
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54152
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155414
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/27/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454459
Layer: 1
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 55.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140507
Layer: 1
Plug From: 0.0
Plug To: 38.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809157
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703984
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264473
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339082
Layer: 1
Slot:
Screen Top Depth: 40.0
Screen End Depth: 55.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809157
Pump Set At:
Static Level: 41.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613318
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 41.0
Water Found Depth UOM: ft

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2023

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Apr 2024

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Apr 30, 2024

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2022

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Chemical Manufacturers and Distributors: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Apr 30, 2024

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -May 2024

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-May 2024

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994 - Jun 30, 2024

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Aug 2023

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Oct 2023

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Jun 30, 2024

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Jun 30, 2024

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Jun 30, 2024

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Mar 31, 2024

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2023

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Jun 2024

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: Oct 31, 2021

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Oct 31, 2022

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2022

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: 31 Oct, 2023

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Mar 31, 2022

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2024

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2022

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory 1993-2020: Federal NPR2

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Sep 2020

National Pollutant Release Inventory - Historic: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances. This data holds historic records; current records are found in NPR2.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-May 31, 2024

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Aug 2023

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Jun 30, 2024

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011-Jun 30, 2024

NPRI Reporters - PFAS Substances: Federal PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Sep 2020

Potential PFAS Handlers from NPRI: Federal PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Sep 2020

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Jun 30, 2024

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2021

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up. RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004-Jun 2024

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Apr 30, 2024

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available by the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X. The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests. This database includes spill incidents that occurred in Mar 2023-Mar 2024, May 2024 in addition to those listed in the Government Publication Date.

Government Publication Date: 1988-Jan 2023; see description

Wastewater Discharger Registration Database: Provincial SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation, Mining, Petroleum Refining, Organic Chemicals, Inorganic Chemicals, Pulp & Paper, Metal Casting, Iron & Steel, and Quarries.

Government Publication Date: 1990-Dec 31, 2021

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Apr 2023

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011-Jun 30, 2024

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Dec 31 2023

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

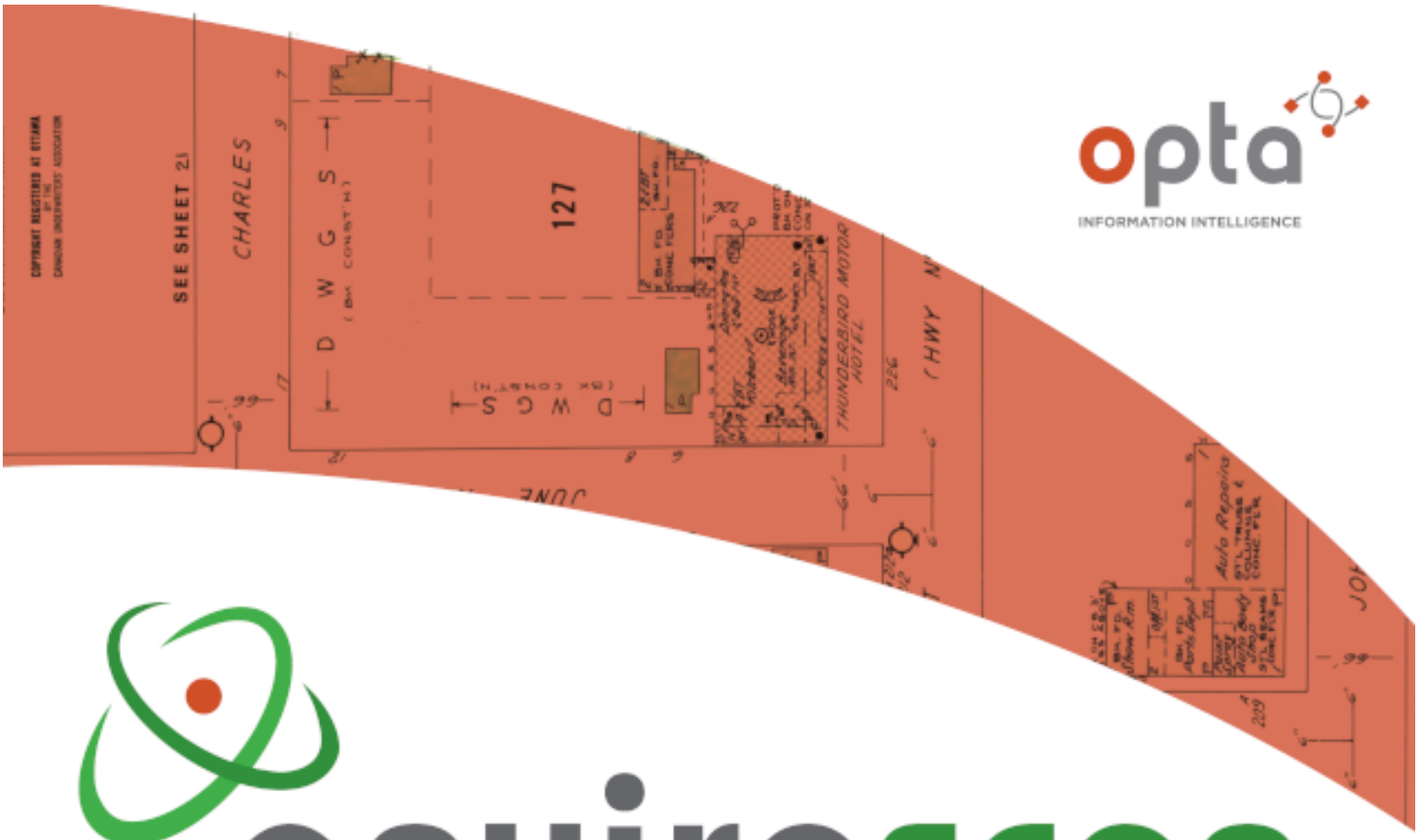
'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.



opta
INFORMATION INTELLIGENCE

enviroscan







175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

T: 1 877 244 9437
W: optaintel.ca

Nate

Phase One Environmental Site Assessment - Bronte Creek Meadows, Burlington, ON

Project No:
24081200485

Opta Order ID:
148172

Requested by:
Eleanor Goolab
ERIS

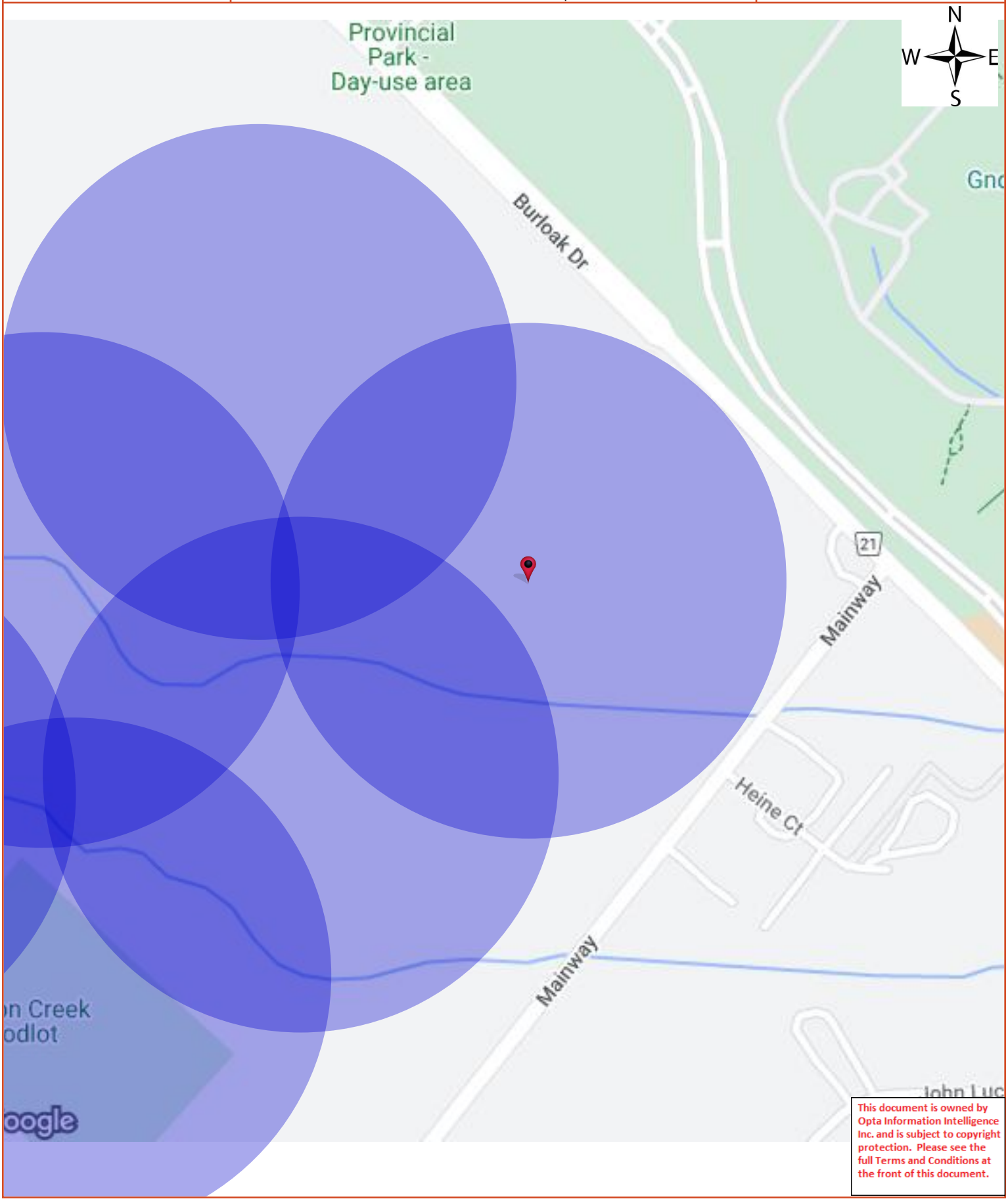
Date Completed:
8/20/2024 3:05:54 PM

ENVIROSCAN Report

Search Area: Phase One Environmental Site Assessment - Bronte Creek Meadows, Burlington, ON

Requested by:
Eleanor Goolab
Date Completed: 08/20/2024 15:05:54

enviroscan
OPTA INFORMATION INTELLIGENCE



This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

Opta Historical Environmental Services Enviroscan™ Terms and Conditions

Report

The documents (hereinafter referred to as the "Documents") to be released as part of the report (hereinafter referred to as the "Report") to be delivered to the purchaser as set out above are documents in Opta's records relating to the described property (hereinafter referred to as the "Property"). Opta makes no representations or warranties respecting the Documents whatsoever, including, without limitation, with respect to the completeness, accuracy or usefulness of the Documents, and does not represent or warrant that these are the only plans and reports prepared in association with the Property or in Opta's possession at the time of Report delivery to the purchaser. The Documents are current as of the date(s) indicated on them. Interpretation of the Documents, if any, is by inference based upon the information which is apparent and obvious on the face of the Documents only. Opta does not represent, warrant or guarantee that interpretations other than those referred to do not exist from other sources. The Report will be prepared for use by the purchaser of the services as shown above hereof only.

Disclaimer

Opta disclaims responsibility for any losses or damages of any kind whatsoever, whether consequential or other, however caused, incurred or suffered, arising directly or indirectly as a result of the services (which services include, but are not limited to, the preparation of the Report provided hereunder), including but not limited to, any losses or damages arising directly or indirectly from any breach of contract, fundamental or otherwise, from reliance on Opta Reports or from any tortious acts or omissions of Opta's agents, employees or representatives.

Entire Agreement

The parties hereto acknowledge and agree to be bound by the terms and conditions hereof. The request form constitutes the entire agreement between the parties pertaining to the subject matter hereof and supersedes all prior and contemporaneous agreements, negotiations and discussions, whether oral or written, and there are no representations or warranties, or other agreements between the parties in connection with the subject matter hereof except as specifically set forth herein. No supplement, modification, waiver, or termination of the request shall be binding, unless confirmed in writing by the parties hereto.

Governing Document

In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

ENVIROSCAN Report

No Records Found

Requested by:
Eleanor Goolab
Date Completed: 08/20/2024 15:05:54

OPTA INFORMATION INTELLIGENCE

No Records Found

This document is owned by Opta Information Intelligence Inc. and is subject to copyright protection. Please see the full Terms and Conditions at the front of this document.

N
W E
S

Appendix C

Chain of Title

PROPERTY DESCRIPTION: PT PCL 2-3 , SEC N11 ; PT LT 3 , CON 2 NEL SDS, PT 1, 20R10977; BURLINGTON. S/T EASE IN FAVOUR OF PT LT 3, CON 2 SDS, PT 2, 20R10977 OVER PT LT 3, CON 2 SDS, PT 1, 20R10977 AS IN 539613. S/T EASE H849278 OVER PT 14, 20R13554.

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
FIRST CONVERSION FROM BOOK

PIN CREATION DATE:
1996/05/27

OWNERS' NAMES
PALETTA BROS. FOUR LTD.

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/05/27 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/05/27						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/05/24 ***						
20R2619	1976/05/05	PLAN REFERENCE				C
H324495	1987/08/10	TRANSFER		*** COMPLETELY DELETED ***	LIMESIDE DEVELOPMENTS INC.	
H379586	1988/10/20	CHARGE		*** COMPLETELY DELETED ***	CANADIAN IMPERIAL BANK OF COMMERCE	
CORRECTIONS: 'THIS INSTRUMENT' WAS DELETED FROM PROPERTY 07183-0017 IN ERROR AND WAS RE-INSTATED ON 2002/12/17 BY JOAN O'ROURKE.						
20R10977	1992/11/03	PLAN REFERENCE				C
20R13110	1999/03/02	PLAN REFERENCE				C
H787642	1999/05/05	DISCH PART CHARGE		*** COMPLETELY DELETED *** CANADIAN IMPERIAL BANK OF COMMERCE		
REMARKS: RE: H379586						
H787643	1999/05/05	TRANSFER	$1,377,931	LIMESIDE DEVELOPMENTS INC.	PALETTA BROS. FOUR LTD.	C
20R13554	2000/03/16	PLAN REFERENCE				C
H849278	2000/05/25	TRANSFER EASEMENT		PALETTA BROS. FOUR LTD.	THE REGIONAL MUNICIPALITY OF HALTON	C
H850764	2000/06/01	NOTICE AGREEMENT		PALETTA BROS. FOUR LTD.	THE REGIONAL MUNICIPALITY OF HALTON	C
REMARKS: PT LT 3, CON 2,SDS, PTS 13 & 15 20R13554. EXPIRES DEC.31, 2001.						
HR1838596	2021/10/21	CHARGE		*** DELETED AGAINST THIS PROPERTY *** PALETTA INTERNATIONAL (1990) INC.	TNG ENTERPRISES INC.	

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
				PALETTA BROS. FOUR LIMITED QUALICO FOODS (1994) INC. PALETTA BROS. FOUR LTD. 2362302 ONTARIO INC.		
HR1993520	2023/10/04	DISCH OF CHARGE		*** COMPLETELY DELETED *** TNG ENTERPRISES INC.		
REMARKS: HR1838596.						

ONLAND

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PCL 2-4 , SEC N11 ; PT LT 2 , CON 2 NEL SDS, PTS 1-2, 20R7372; BURLINGTON. T/W PT 3 & 4, 20R7372 AS IN NU9900 & 16314. S/T 62756,H426281. S/T EASE H849279 OVER PT 11, 20R13554.

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
ABSOLUTE

RECENTLY:
FIRST CONVERSION FROM BOOK

PIN CREATION DATE:
1996/05/27

OWNERS' NAMES
QUALICO FOODS (1994) INC.

CAPACITY SHARE
BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/05/27 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/05/27						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/05/24 ***						
62756	1957/03/29	TRANSFER EASEMENT			INTERPROVINCIAL PIPE LINE COMPANY	C
20R7372	1986/01/21	PLAN REFERENCE				C
20R9629	1989/11/20	PLAN REFERENCE				C
H426281	1989/12/06	TRANSFER EASEMENT			THE CORPORATION OF THE CITY OF BURLINGTON	C
H461272	1990/11/06	NOTICE			THE REGIONAL MUNICIPALITY OF HALTON	C
H465623	1990/12/20	TRANSFER		*** COMPLETELY DELETED ***	WOOLWORTH CANADA INC.	
	REMARKS: AMENDED BY H575668					
H575669	1994/05/05	NOTICE			THE CORPORATION OF THE CITY OF BURLINGTON	C
H719831	1998/01/22	TRANSFER	$4,272,849	WOOLWORTH CANADA INC.	QUALICO FOODS (1994) INC.	C
	REMARKS: PLANNING ACT STATEMENTS					
H719832	1998/01/22	CHARGE		*** COMPLETELY DELETED *** QUALICO FOODS (1994) INC.	WOOLWORTH CANADA INC.	
H778717	1999/03/04	APL CH NAME OWNER		*** COMPLETELY DELETED *** WOOLWORTH CANADA INC.	VENATOR GROUP CANADA INC.	
	REMARKS: H719832					
H778718	1999/03/04	NOTICE AGREEMENT		*** COMPLETELY DELETED *** QUALICO FOODS (1994) INC.	VENATOR GROUP CANADA INC.	

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
	REMARKS: AMENDING H719832					
20R13554	2000/03/16	PLAN REFERENCE				C
H849279	2000/05/25	TRANSFER EASEMENT		QUALICO FOODS (1994) INC.	THE REGIONAL MUNICIPALITY OF HALTON	C
H849282	2000/05/25	POSTPONEMENT		*** COMPLETELY DELETED *** VENATOR GROUP CANADA INC.	THE REGIONAL MUNICIPALITY OF HALTON	
	REMARKS: H719832 TO H849279					
H850763	2000/06/01	NOTICE AGREEMENT		QUALICO FOODS (1994) INC.	THE REGIONAL MUNICIPALITY OF HALTON	C
	REMARKS: EXPIRES DEC. 31,2001. PTLT 2,CON2SDS, PTS 10 & 12 20R13554.					
HR39731	2001/03/08	DISCH OF CHARGE		*** COMPLETELY DELETED *** VENATOR GROUP CANADA INC.		
	REMARKS: RE: H719832					
HR1838596	2021/10/21	CHARGE	$675,000,000	PALETTA INTERNATIONAL (1990) INC. PALETTA BROS. FOUR LIMITED QUALICO FOODS (1994) INC. PALETTA BROS. FOUR LTD. 2362302 ONTARIO INC.	TNG ENTERPRISES INC.	C
HR1993521	2023/10/04	NOTICE	$1	PALETTA INTERNATIONAL (1990) INC. PALETTA BROS. FOUR LIMITED QUALICO FOODS (1994) INC. PALETTA BROS. FOUR LTD. 2362302 ONTARIO INC.	TNG ENTERPRISES INC.	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

PROPERTY DESCRIPTION: PT LT 1 , CON 2 SOUTH OF DUNDAS STREET , PART 1 , 20R10140 ; S/T 63531 ; T/W NU38051 IF ANY(ADDED 99/02/08 JM LR); BURLINGTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:	RECENTLY:	PIN CREATION DATE:
FEE SIMPLE LT CONVERSION QUALIFIED	FIRST CONVERSION FROM BOOK	1996/05/27

OWNERS' NAMES	CAPACITY	SHARE
PALETTA INTERNATIONAL (1990) INC.	BENO	

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/05/27 ON THIS PIN						
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/05/27						
*** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/05/24 ***						
***SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:*						
**	*SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES **					
**	*AND ESCHEATS OR FORFEITURE TO THE CROWN.*					
**	*THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF*					
**	*IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY*					
**	*CONVENTION.*					
**	*ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.*					
***DATE OF CONVERSION TO LAND TITLES: 1996/05/27 ***						
60882	1957/01/24	AGR RIGHT OF WAY				C
PM26	1957/03/08	PLAN MISCELLANEOUS				C
63531	1957/04/29	TRANSFER EASEMENT			INTERPROVINCIAL PIPE LINE COMPANY	C
90894	1958/12/10	SUP DEED TRST&MORT		**** COMPLETELY DELETED ****	THE ROYAL TRUST COMPANY	
	REMARKS: DISCHARGED BY 833288 01.08.17 TW					
119980	1961/01/25	BYLAW				C
181056	1965/03/19	SUP DEED TRST&MORT		**** COMPLETELY DELETED ****	THE ROYAL TRUST COMPANY	
	REMARKS: MULTI DISCHARGED BY 833283 01.08.17 TW					

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
297184	1970/07/28	NOTICE OF CLAIM				C
20R10140	1990/10/02	PLAN REFERENCE				C
752011	1990/10/03	AGREEMENT			THE CORPORATION OF THE CITY OF BURLINGTON	C
753771	1990/11/06	AGREEMENT				C
755297	1990/12/04	TRANSFER		*** COMPLETELY DELETED ***	VICDOM INVESTMENTS LIMITED CLAUSI, RALPH	
824285	1994/06/24	NOTICE				C
	REMARKS: NOTICE OF CLAIM DOES NOT AFFECT HC402 DELETED 09/21/06					
833288	1995/01/03	DISCH PART CHARGE		*** COMPLETELY DELETED ***		
	REMARKS: 90894, 90895					
839653	1995/06/29	TRANS POWER SALE		*** COMPLETELY DELETED ***	VICDOM INVESTMENTS LIMITED	
H771587	1999/01/06	TRANSFER	$435,000	VICDOM INVESTMENTS LIMITED	PALETTA INTERNATIONAL (1990) INC.	C
20R20028	2014/12/09	PLAN REFERENCE				C
HR1838596	2021/10/21	CHARGE	$675,000,000	PALETTA INTERNATIONAL (1990) INC. PALETTA BROS. FOUR LIMITED QUALICO FOODS (1994) INC. PALETTA BROS. FOUR LTD. 2362302 ONTARIO INC.	TNG ENTERPRISES INC.	C
HR1896591	2022/06/01	NOTICE OF LEASE		PALETTA INTERNATIONAL (1990) INC.	BELL MOBILITY INC.	C
HR1993521	2023/10/04	NOTICE	$1	PALETTA INTERNATIONAL (1990) INC. PALETTA BROS. FOUR LIMITED QUALICO FOODS (1994) INC. PALETTA BROS. FOUR LTD. 2362302 ONTARIO INC.	TNG ENTERPRISES INC.	C

* CERTIFIED IN ACCORDANCE WITH THE LAND TITLES ACT * SUBJECT TO RESERVATIONS IN CROWN GRANT *

PROPERTY DESCRIPTION: PT LTS 3 & 4, CON 2 SDS, PTS 2 & 3 20R12331 EXCEPT PTS 1 & 2 PE234 & PTS 1 & 2 PE237. T/W 531325. S/T 63098. S/T EASE H849280 OVER PTS 5 & 8 20R13554. S/T PERMANENT EASEMENT PE234 OVER PT 3 PE234.(PARTIALLY RELEASED FROM PT 1 ON 20R17771 AS IN HR935109.); CITY OF BURLINGTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
DIVISION FROM 07183-1210

PIN CREATION DATE:
2008/05/21

OWNERS' NAMES
2362302 ONTARIO INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2008/05/21 **						
**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:						
** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *						
** AND ESCHEATS OR FORFEITURE TO THE CROWN.						
** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF						
** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY						
** CONVENTION.						
** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.						
**DATE OF CONVERSION TO LAND TITLES: 1996/05/27 **						
63098	1957/04/12	TRANSFER EASEMENT			INTERPROVINCIAL PIPE LINE COMPANY	C
119980	1961/01/25	BYLAW				C
824285	1994/06/24	NOTICE				C
REMARKS: NOTICE OF CLAIM DOES NOT AFFECT HC402 DELETED 09/21/06						
20R12331	1997/03/27	PLAN REFERENCE				C
H821435	1999/11/15	TRANSFER		*** DELETED AGAINST THIS PROPERTY *** RICHVIEW INVESTMENTS LIMITED	PALETTA INTERNATIONAL CORPORATION	
20R13554	2000/03/16	PLAN REFERENCE				C
H849280	2000/05/25	TRANSFER EASEMENT		PALETTA INTERNATIONAL CORPORATION	THE REGIONAL MUNICIPALITY OF HALTON	C
PE234	2007/05/09	PLAN EXPROPRIATION			HALTON CATHOLIC DISTRICT SCHOOL BOARD	C
CORRECTIONS: 'PARTY' CHANGED FROM 'HALTON CATHOLIC DISTRIC SCHOOL BOARD' TO 'HALTON CATHOLIC DISTRICT SCHOOL BOARD' ON 2007/05/16 BY JENNIFER HOLMES.						

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
20R17771	2008/05/14	PLAN REFERENCE				C
HR935109	2011/06/14	TRANSFER REL&ABAND	$2	HALTON CATHOLIC DISTRICT SCHOOL BOARD	PALETTA INTERNATIONAL CORPORATION	C
	REMARKS: PE234.					
HR1084078	2013/02/27	TRANSFER	$2	PALETTA INTERNATIONAL CORPORATION	2362302 ONTARIO INC.	C
HR1838596	2021/10/21	CHARGE		*** DELETED AGAINST THIS PROPERTY *** PALETTA INTERNATIONAL (1990) INC. PALETTA BROS. FOUR LIMITED QUALICO FOODS (1994) INC. PALETTA BROS. FOUR LTD. 2362302 ONTARIO INC.	TNG ENTERPRISES INC.	
HR1993520	2023/10/04	DISCH OF CHARGE		*** COMPLETELY DELETED *** TNG ENTERPRISES INC.		
	REMARKS: HR1838596.					

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

PROPERTY DESCRIPTION: PT LT 1, CON 2 SDS NEL AS IN 554662 S&E PTS 1 TO 4, 7,8 & 9, 20R18145. S/T 63531. S/T EASE IN GROSS OVER PT 10, 20R18145 AS IN HR742010.; CITY OF BURLINGTON

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
DIVISION FROM 07183-0214

PIN CREATION DATE:
2009/04/23

OWNERS' NAMES
2362302 ONTARIO INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 2009/04/23 **						
**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:						
** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *						
** AND ESCHEATS OR FORFEITURE TO THE CROWN.						
** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF						
** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY						
** CONVENTION.						
** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.						
**DATE OF CONVERSION TO LAND TITLES: 1996/05/27 **						
NU38628	1954/12/02	TRANSFER EASEMENT		BAKER, CECIL L. BAKER, GERTRUDE C.	THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO	C
REMARKS: ADDED 2009.01.29.TW						
60882	1957/01/24	AGR RIGHT OF WAY				C
PM26	1957/03/08	PLAN MISCELLANEOUS				C
63531	1957/04/29	TRANSFER EASEMENT			INTERPROVINCIAL PIPE LINE COMPANY	C
119980	1961/01/25	BYLAW				C
20R9103	1989/01/23	PLAN REFERENCE				C
824285	1994/06/24	NOTICE				C
REMARKS: NOTICE OF CLAIM DOES NOT AFFECT HC402 DELETED 09/21/06						
H821435	1999/11/15	TRANSFER		*** DELETED AGAINST THIS PROPERTY ***		

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
				RICHVIEW INVESTMENTS LIMITED	PALETTA INTERNATIONAL CORPORATION	
20R16546	2006/01/23	PLAN REFERENCE				C
20R18145	2009/01/29	PLAN REFERENCE				C
HR742010	2009/03/31	TRANSFER EASEMENT	$500	PALETTA INTERNATIONAL CORPORATION	THE REGIONAL MUNICIPALITY OF HALTON	C
HR1084078	2013/02/27	TRANSFER	$2	PALETTA INTERNATIONAL CORPORATION	2362302 ONTARIO INC.	C
HR1838596	2021/10/21	CHARGE	$675,000,000	PALETTA INTERNATIONAL (1990) INC. PALETTA BROS. FOUR LIMITED QUALICO FOODS (1994) INC. PALETTA BROS. FOUR LTD. 2362302 ONTARIO INC.	TNG ENTERPRISES INC.	C
HR1993521	2023/10/04	NOTICE	$1	PALETTA INTERNATIONAL (1990) INC. PALETTA BROS. FOUR LIMITED QUALICO FOODS (1994) INC. PALETTA BROS. FOUR LTD. 2362302 ONTARIO INC.	TNG ENTERPRISES INC.	C

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.
NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

CAMBIUM PROJECT # 21199-001

NORTH-WEST SIDE OF MAINWAY

PIN 07183-0189

PART 1 on 20R-10977

PART OF LOT 3
CONCESSION 2
SOUTH OF DUNDAS STREET
(TOWNSHIP OF NELSON)

formerly TOWN OF BURLINGTON

now CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

PIN	OWNERSHIP	DATES
07183-0189	**PALETTA BROS. FOUR LTD.**	**MAY 5 1999 TO PRESENT** **AS OF AUGUST 28 2024**
EASEMENT	THE REGIONAL MUNICIPALITY OF HALTON	MAY 25 2000
	LIMESIDE DEVELOPMENTS INC.	AUGUST 10 1987 TO MAY 5 1999
	SILVERSTREAM INVESTMENTS LIMITED BRAMCRAGE INVESTMENTS LIMITED	JANUARY 28 1983 TO AUGUST 10 1987
	THEODORE SHERMAN HAROLD STROM	JANUARY 28 1983 TO JANUARY 28 1983
RIGHT OF WAY ACCESS OVER THESE LANDS	**IN FAVOUR OF PART 2 20R-10977**	JANUARY 1981
	EASTCAN HOLDINGS LIMITED	MAY 30 1974 TO JANUARY 28 1983
	COGAN DEVELOPMENTS LIMITED SHEFSKY DEVELOPMENTS LIMITED THE GREATER YORK GROUP 271160 ONTARIO LIMITED	JULY 14 1973 TO MAY 30 1974
	LILY LIMITED	DECEMBER 30 1965 TO JULY 14 1973
	WILLIAM ERNEST BROCKMAN	APRIL 3 1943 TO DECEMBER 30 1965
	WILBERT ERWIN SHEPPARD MABEL ANN ELIZABETH FREEMAN	JUNE 8 1940 TO APRIL 3 1943

	SARAH ADELINE SHEPPARD THOMAS WILBERT SHEPPARD **ESTATE OF** HENRY SHEPPARD	APRIL 6 1894 TO JUNE 8 1940
	WILLIAM LUCAS **ESTATE OF** THOMAS ATKINSON (JR.)	JANUARY 12 1894 TO APRIL 6 1894
	THOMAS ATKINSON (JR.) **ESTATE OF** THOMAS ATKINSON (SR.)	MAY 16 1838 TO JANUARY 12 1894
	JOHN HOGGARTH	FEBRUARY 2 1836 TO MAY 16 1838
	ROBERT McGWILLIM	JANUARY 20 1836 TO FEBRUARY 2 1836
CROWN PATENT	JAMES GOFFIN	OCTOBER 27 1817 TO JANUARY 20 1836

CROWN PATENT: OCTOBER 27 1817

LOT 3 ; CONCESSION 2
SOUTH OF DUNDAS STREET

GEOGRAPHIC TOWNSHIP OF NELSON

CAMBIUM PROJECT # 21199-001

#5366 UPPER MIDDLE ROAD

PIN 07183-0212

PARTS 1 and 2 on 20R-7372

PART OF LOT 2
CONCESSION 2
SOUTH OF DUNDAS STREET
(TOWNSHIP OF NELSON)

formerly TOWN OF BURLINGTON

now CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

PIN	OWNERSHIP	DATES
07183-0212	**QUALICO FOODS (1994) INC.**	**JANUARY 22 1998 TO PRESENT** **AS OF AUGUST 28 2024**
EASEMENT	THE REGIONAL MUNICIPALITY OF HALTON	MAY 25 2000
	F.W. WOOLWORTH COMPANY LIMITED **became** WOOLWORTH CANADA INC. **became** VENATOR GROUP CANADA INC.	MARCH 4 1999 **registered out of sequence**
	F.W. WOOLWORTH COMPANY LIMITED	DECEMBER 20 1990 TO JANUARY 22 1998
	VICDOM INVESTMENTS LIMITED **as to sole owner**	NOVEMBER 30 1990 TO DECEMBER 20 1990
	RALPH CLAUSI **as to 2/3 interest**	MARCH 5 1986 TO NOVEMBER 30 1990
	VICDOM INVESTMENTS LIMITED **as to 1/3 interest, retained**	FEBRUARY 13 1986 TO MARCH 5 1986 **as to 2/3 interest**
	THEODORE SHERMAN HAROLD STROM	JANUARY 28 1983 TO FEBRUARY 13 1986
	EASTCAN HOLDINGS LIMITED	OCTOBER 6 1975 TO JANUARY 28 1983
	LONDON TOWER CONSTRUCTION LIMITED	JUNE 21 1974 TO OCTOBER 6 1975

	VICDOM INVESTMENTS LIMITED	SEPTEMBER 19 1973 TO JUNE 21 1974
	TULLIO LEONARDELLI	AUGUST 30 1973 TO SEPTEMBER 19 1973
	P. & L. LIVESTOCK LIMITED	AUGUST 30 1973 TO AUGUST 30 1973
	WERA INVESTMENTS LIMITED GOGGIN HOLDINGS LIMITED ESTADEK CONSTRUCTION COMPANY LIMITED HOWARD GORDON SAVAGE	SEPTEMBER 26 1968 TO AUGUST 30 1973
	JANET GRACE ROSS	NOVEMBER 8 1963 TO SEPTEMBER 26 1968
EASEMENT	INTERPROVINCIAL PIPE LINE COMPANY	APRIL 29 1957
	WALTER MAXWELL LUCAS GEORGE WALKER LUCAS	MARCH 26 1934 TO NOVEMBER 8 1963
	GEORGE WALKER LUCAS	APRIL 13 1898 TO MARCH 26 1934
	WILLIAM LUCAS	FEBRUARY 28 1873 TO APRIL 13 1898
	ROBERT ATKINSON	MAY 31 1869 TO FEBRUARY 28 1873
	THOMAS ATKINSON **ESTATE OF** FRANCIS ATKINSON	AUGUST 15 1840 TO MAY 31 1869
CROWN PATENT	KING'S COLLEGE	JANUARY 3 1828 TO AUGUST 15 1840

continued /2

CROWN PATENT: JANUARY 3 1828

LOT 2 ; CONCESSION 2
SOUTH OF DUNDAS STREET

GEOGRAPHIC TOWNSHIP OF NELSON

CAMBIUM PROJECT # 21199-001

#5470 UPPER MIDDLE ROAD

PIN 07183-0213

PART 1 on 20R-10140

PART OF LOT 1
CONCESSION 2
SOUTH OF DUNDAS STREET
(TOWNSHIP OF NELSON)

formerly TOWN OF BURLINGTON

now CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

PIN	OWNERSHIP	DATES
07183-0213	**PALETTA INTERNATIONAL (1990) INC.**	**JANUARY 6 1999 TO PRESENT** **AS OF AUGUST 28 2024**
NOTICE OF LEASE	BELL MOBILITY INC.	MAY 6 2022
	VICDOM INVESTMENTS LIMITED **sole owner (merged interest)**	JUNE 29 1995 TO JANUARY 6 1999
	ROYAL BANK OF CANADA **as mortgagee**	AFTER JUNE 1 1989 TO JUNE 29 1995
MORTGAGE DEFAULT	ROSA CLAUSI **as to 1/3 interest**	DECEMBER 4 1990 TO BEFORE JUNE 29 1995
	VICDOM INVESTMENTS LIMITED **as to 2/3 interest** RALPH CLAUSI **as to 1/3 interest**	DECEMBER 23 1974 TO **as to 2/3 interest** TO DECEMBER 4 1990 **as to 1/3 interest**
	ROSA CLAUSI	MAY 7 1973 TO DECEMBER 23 1974
	WAYNE BOYKO	MARCH 9 1971 TO MAY 7 1973
	ERNEST TORNELL MAINE EUGENIE MARGUERITE MAINE	DECEMBER 22 1965 TO MARCH 9 1971

QUIT CLAIM	ERNEST TORNELL MAINE EUGENIE MARGUERITE MAINE LORNA RALUAKI PAUL SPONIACKI NICK SPONIACKI JOHN BACHYMANSKY (NAME VARIATION) **TO** PAUL RYCHLISKY STEVE SOLOMON	DECEMBER 22 1965
	JOHN BACHYNAKY	FEBRUARY 26 1960 TO DECEMBER 22 1965
EASEMENT	INTERPROVINCIAL PIPE LINE COMPANY	APRIL 29 1957
	PAUL RYCHLITSKY STEVE SOLOMON	DECEMBER 7 1956 TO FEBRUARY 26 1960
	PETER AUGUSTINAVICIUS	MARCH 30 1956 TO DECEMBER 7 1956
	CECIL LLOYD BARKER GERTRUDE CLARISSA BARKER	FEBRUARY 16 1945 TO MARCH 30 1956
	DELMUR WASHBURN BAKER MARGARET JEAN BAKER	JULY 3 1930 TO FEBRUARY 16 1945
	MARY PENDLEASE McKENZIE PENDLEASE	APRIL 19 1927 TO JULY 3 1930
EASEMENT	THE HYDRO ELECTRIC POWER COMMISSION OF ONTARIO	APRIL 3 1917
	JOHN EASTON	JUNE 20 1911 TO APRIL 19 1927
	JOSEPH MATTHEWMAN ELZA MATTHEWMAN	MARCH 18 1878 TO JUNE 20 1911
3 PARCELS	HENRY STEPHEN MATTHEWMAN	DECEMBER 8 1872 TO MARCH 18 1878

	CHAIN #3	
	JOHN BRECKEN	MARCH 22 1870 TO DECEMBER 8 1872
	RALPH BRECKEN	MAY 8 1852 TO MARCH 22 1870
	GARNETT ALBERTSON	MAY 8 1852 TO MAY 8 1852
	CHAIN #2	
	JOHN BRECKEN	MAY 26 1864 TO DECEMBER 8 1872
	RALPH BRECKEN	MAY 8 1852 TO MAY 26 1864
	GARNETT ALBERTSON	MAY 8 1852 TO MAY 8 1852
	CHAIN #1	
	JOHN BRECKEN	MAY 8 1852 TO DECEMBER 8 1872
CROWN PATENT	BENJAMIN MATTHEWMAN	NOVEMBER 2 1846 TO MAY 8 1852

CROWN PATENT: NOVEMBER 2 1846

LOT 1 ; CONCESSION 2
SOUTH OF DUNDAS STREET

GEOGRAPHIC TOWNSHIP OF NELSON

CAMBIUM PROJECT # 21199-001

SOUTH EAST SIDE OF
UPPER MIDDLE ROAD and
NORTH WEST OF MAINWAY

PIN 07183-1218

PARTS 2 and 3 on 20R-12331

PARTS OF LOTS 3 and 4
CONCESSION 2
SOUTH OF DUNDAS STREET
(TOWNSHIP OF NELSON)

formerly TOWN OF BURLINGTON

now CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

PIN	OWNERSHIP	DATES
07183-1218 07183-1210 07183-0227 07183-0187	**2362302 ONTARIO INC.**	**FEBRUARY 27 2013 TO PRESENT** **AS OF AUGUST 26 2024**
	PALETTA INTERNATIONAL CORPORATION	NOVEMBER 15 1999 TO FEBRUARY 27 2013
EASEMENT	THE REGIONAL MUNICIPALITY OF HALTON	MAY 25 2000
NAME CHANGE	453217 ONTARIO LIMITED **became** RICHVIEW INVESTMENTS LIMITED	MARCH 12 1997
	453217 ONTARIO LIMITED	NOVEMBER 14 1980 TO NOVEMBER 15 1999
	MONARCH CONSTRUCTION LIMITED	JUNE 18 1973 TO NOVEMBER 14 1980
EASEMENT	INTERPROVINCIAL PIPE LINE COMPANY	APRIL 12 1957
	JOHN MacPHERSON BRECKON	NOVEMBER 25 1948 TO JUNE 18 1973
	JOHN MacPHERSON BRECKON JOSEPH CARL BRECKON WILLIAM ALTON BRECKON	JANUARY 28 1940 TO NOVEMBER 28 1948
	MERGE OF ALL CHAINS	

	LOT 3	
	JOHN BLAIN BRECKON	APRIL 14 1924 TO JANUARY 28 1940
	JAMES PORTER LYDIA PORTER	MAY 20 1920 TO APRIL 14 1924
	CHARLES EDWARD PORTER	NOVEMBER 21 1878 TO MAY 20 1920
	JOHN WADEN	APRIL 26 1877 TO NOVEMBER 21 1878
	THE CANADA LIFE ASSURANCE COMPANY **as mortgagee**	AFTER JUNE 12 1875 TO APRIL 26 1877
	CHARLES MARSHALL JARVIS AND WIFE	NOVEMBER 22 1869 TO BEFORE APRIL 26 1877
	HUGH COFFIN	DECEMBER 26 1867 TO NOVEMBER 22 1869
	NEIL JOHNSON	JUNE 24 1837 TO DECEMBER 26 1867
	JOHN HORGRATH	FEBRUARY 2 1836 TO JUNE 24 1837
	ROBERT McGUTHRIE	JANUARY 20 1836 TO FEBRUARY 2 1836
CROWN PATENT	JAMES COFFIN	OCTOBER 27 1817 TO JANUARY 20 1836
	LOT 4	
	JOHN BLAIN BRECKON	APRIL 14 1924 TO JANUARY 28 1940

	JAMES PORTER **as mortgagee**	AFTER FEBRUARY 23 1921 TO APRIL 14 1924
2 PARCELS	ROBERT JAMES MATTHEW GLANFORD **mortgage default**	AFTER FEBRUARY 23 1921 TO BEFORE APRIL 14 1924
	CHAIN #1 **(EAST HALF OF NORTH WEST HALF)**	
	HUGH JAMES PORTER	MAY 20 1920 TO FEBRUARY 23 1921
	HUGH JAMES PORTER DAVID ALEXANDER PORTER	OCTOBER 9 1895 TO APRIL 24 1921
	CHARLES PORTER	APRIL 16 1892 TO OCTOBER 9 1895
	THOMAS ATKINSON (JR.)	MAY 7 1842 TO APRIL 16 1892
	THOMAS ATKINSON (SR.)	FEBRUARY 15 1841 TO MAY 7 1842
CROWN PATENT	KING'S COLLEGE	JANUARY 3 1828 TO FEBRUARY 15 1841
	CHAIN #2 **(WEST HALF OF NORTH WEST HALF)**	
	CHARLES PORTER	NOVEMBER 21 1878 TO OCTOBER 9 1895
	JOHN WALDEN	APRIL 26 1877 TO NOVEMBER 21 1878
	THE CANADA LIFE ASSURANCE COMPANY	JANUARY 18 1875 TO APRIL 26 1877

	CHARLES M. JARVIS	NOVEMBER 22 1869 TO JANUARY 18 1875
	HUGH COTTER	FEBRUARY 21 1867 TO NOVEMBER 22 1869
	JARVIS SULLIVAN	JULY 21 1863 TO FEBRUARY 21 1867
	THOMAS ATKINSON (JR.)	MAY 7 1842 TO JULY 21 1863
	THOMAS ATKINSON (SR.)	FEBRUARY 15 1841 TO MAY 7 1842
CROWN PATENT	KING'S COLLEGE	JANUARY 3 1828 TO FEBRUARY 15 1841

CROWN PATENT: OCTOBER 27 1817

LOT 3 ; CONCESSION 2
SOUTH OF DUNDAS STREET

CROWN PATENT: JANUARY 3 1828

LOT 4 ; CONCESSION 2
SOUTH OF DUNDAS STREET

GEOGRAPHIC TOWNSHIP OF NELSON

CAMBIUM PROJECT # 21199-001

SOUTH EAST SIDE OF
UPPER MIDDLE ROAD and
NORTH WEST SIDE OF MAINWAY and
SOUTH WEST OF BURLOAK DRIVE

PIN 07183-1254

PART OF LOT 1
CONCESSION 2
SOUTH OF DUNDAS STREET
(TOWNSHIP OF NELSON)

formerly TOWN OF BURLINGTON

now CITY OF BURLINGTON

REGIONAL MUNICIPALITY OF HALTON

PIN	OWNERSHIP	DATES
07183-1254 07183-0214	**2362302 ONTARIO INC.**	**FEBRUARY 27 2013 TO PRESENT** **AS OF AUGUST 29 2024**
EASEMENT	THE REGIONAL MUNICIPALITY OF HALTON	MARCH 31 2009
	PALETTA INTERNATIONAL CORPORATION	NOVEMBER 15 1999 TO FEBRUARY 27 2013
	505721 ONTARIO LIMITED	MARCH 15 1982 TO NOVEMBER 15 1999
	JACK BLOOMBERG	MAY 30 1973 TO MARCH 15 1982
	PAUL RYCHLISKY STEVE SOLOMON	DECEMBER 22 1965 TO MAY 30 1973
QUIT CLAIM	ERNEST TORNELL MAINE EUGENIE MARGUERITE MAINE LORNA RALUAKI PAUL SPONIACKI NICK SPONIACKI JOHN BACHYMANSKY (NAME VARIATION) **TO** PAUL RYCHLISKY STEVE SOLOMON	DECEMBER 22 1965
	JOHN BACHYNAKY	FEBRUARY 26 1960 TO DECEMBER 22 1965
EASEMENT	INTERPROVINCIAL PIPE LINE COMPANY	APRIL 29 1957

	PAUL RYCHLITSKY STEVE SOLOMON	DECEMBER 7 1956 TO FEBRUARY 26 1960
	PETER AUGUSTINAVICIUS	MARCH 30 1956 TO DECEMBER 7 1956
EASEMENT	THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO	DECEMBER 2 1954
	CECIL LLOYD BARKER GERTRUDE CLARISSA BARKER	FEBRUARY 16 1945 TO MARCH 30 1956
	DELMUR WASHBURN BAKER MARGARET JEAN BAKER	JULY 3 1930 TO FEBRUARY 16 1945
	MARY PENDLEASE McKENZIE PENDLEASE	APRIL 19 1927 TO JULY 3 1930
EASEMENT	THE HYDRO ELECTRIC POWER COMMISSION OF ONTARIO	APRIL 3 1917
	JOHN EASTON	JUNE 20 1911 TO APRIL 19 1927
	JOSEPH MATTHEWMAN ELZA MATTHEWMAN	MARCH 18 1878 TO JUNE 20 1911
3 PARCELS	HENRY STEPHEN MATTHEWMAN	DECEMBER 8 1872 TO MARCH 18 1878
	CHAIN #3	
	JOHN BRECKEN	MARCH 22 1870 TO DECEMBER 8 1872
	RALPH BRECKEN	MAY 8 1852 TO MARCH 22 1870
	GARNETT ALBERTSON	MAY 8 1852 TO MAY 8 1852
CROWN PATENT	BENJAMIN MATTHEWMAN	NOVEMBER 2 1846 TO MAY 8 1852

	CHAIN #2	
	JOHN BRECKEN	MAY 26 1864 TO DECEMBER 8 1872
	RALPH BRECKEN	MAY 8 1852 TO MAY 26 1864
	GARNETT ALBERTSON	MAY 8 1852 TO MAY 8 1852
CROWN PATENT	BENJAMIN MATTHEWMAN	NOVEMBER 2 1846 TO MAY 8 1852
	CHAIN #1	
	JOHN BRECKEN	MAY 8 1852 TO DECEMBER 8 1872
CROWN PATENT	BENJAMIN MATTHEWMAN	NOVEMBER 2 1846 TO MAY 8 1852

CROWN PATENT: NOVEMBER 2 1846

LOT 1 ; CONCESSION 2
SOUTH OF DUNDAS STREET

GEOGRAPHIC TOWNSHIP OF NELSON

Appendix D

City Directories

CITY DIRECTORY

Project Number: 21199-001

Subject Property: 5164, 5366, 5470, 5900 Upper Middle Road, Burlington, ON

Years Available: 1960-2010

Year Site First Listed (within accessible data sources): 1965

Comments/Notes:

Year: 2010	
Site & Listing: 5164, 5366, 5470, 5900 Upper Middle Road	-Addresses Not Listed
Adjacent Properties:	
Upper Middle Road (5150-6000)	-All Residential
Baker Drive (2100-2115)	-All Residential
Blue Spruce Avenue (5970-5990)	-All Residential
Burloak Drive (1240-1500)	1268, 1278 - Residential 1240-Multi Tenant Office
Corporate Drive (1750-1765)	-No Listings Within Radius
Creek Way (All)	-All Residential
Deer Place (2100-2120)	-All Residential
Des Jardines Drive (5180-5200)	-All Residential
Dunmore Avenue (All)	-All Residential
English Crescent (All)	-All Residential
Falconcrest Drive (All)	-All Residential

Georgina Court (All)	-Street Not Listed
Heine Court (All)	1315-Baldwin School Supply 1320-Classic Care -Narimya Pharmaceuticals 1325-Ener-Gard Energy 1327-Blais Catholic Church Supplies 1329-Cantex Coatings 1350-Normac Adhesive Products
Hobson Drive (1820-1845)	-All Residential
John Lucas Drive (5150-5275)	5275-Controlchem Canada
Mainway (5050-5600)	5050-Eaton Yale 5150-Ductmate Canada -Mcorp Tech -MTI Preforms 5200-CPC Pumps 5250-Invitrogen Canada 5420-Dancers Burlington -ALS Environmental -M&H Probing -VE-GO Engineering 5450-Hearthland 5480-Flometrico -Peerless Pumps 5510-Islip Flows -Active Mgmt 5540-Automated Fluid Power & Control -Kor Martial Arts 5600-Suncor Energy
Porter Street (5180-5205)	-All Residential
Quinte Street (2000-2010)	-All Residential
Rome Crescent (5240-5258)	-All Residential
Roseville Court (All)	-All Residential
Scotia Street (5275-5325)	-All Residential

Silvercreek Drive (All)	-All Residential
Sunmill Crescent (5831-5843)	-All Residential
Sutton Drive (261-1338)	1015-Liebherr-Canada 1035-Boilermakers Education & Apprenticeships 1075-Endress & Hauser 1115-TCL Logistics -Whytek Marketing 1145-Cdn Information Systems -Islip Flow Controls 1295-Pack N Rail -Diamond Shipping Supplies 1016-Multi Tenant Office 1040-Bramur Plastics -Konecranes Canada -Ryan Medical Dist. 1100-Bob Jarvis Insulation -ICI Controls -Lakeland Engineering 1330-Fleet Brake ON
Thornburn Drive (5225-5245)	-All Residential
Thorn Lane (All)	-All Residential

Year: 2005	
Site & Listing: 5164, 5366, 5470, 5900 Upper Middle Road	-Addresses Not Listed
Adjacent Properties:	
Upper Middle Road (5150-6000)	-All Residential
Baker Drive (2100-2115)	-All Residential
Blue Spruce Avenue (5970-5990)	-All Residential
Burloak Drive (1240-1500)	1268, 1278 - Residential

Corporate Drive (1750-1765)	-No Listings Within Radius
Creek Way (All)	-All Residential
Deer Place (2100-2120)	-All Residential
Des Jardines Drive (5180-5200)	-All Residential
Dunmore Avenue (All)	-All Residential
English Crescent (All)	-All Residential
Falconcrest Drive (All)	-All Residential
Georgina Court (All)	-Street Not Listed
Heine Court (All)	1315-Baldwin School Supply 1320-Digipos Systems -PC Pos Inc 1325-Ener-Gard Energy 1327-Blais Catholic Church Supplies 1329-Danly Die Set 1350-Normac Adhesive Products -Shaw Conveyor Solutions
Hobson Drive (1820-1845)	-All Residential
John Lucas Drive (5150-5275)	5275-Controlchem Canada
Mainway (5050-5600)	5150-Ductmate Canada -Mcorp Tech -Melrose Investments 5330-Amhil Enterprises 5420-West-Mount Electric -M-H Probing -Dyna Lync 2000 -ALS Environmental 5450-Hearthland -Frigidaire 5480-Flometrico -Peerless Pumps 5540-Automated Fluid Power & Control

	-West Mount Electric
Porter Street (5180-5205)	-All Residential
Quinte Street (2000-2010)	-All Residential
Rome Crescent (5240-5258)	-All Residential
Roseville Court (All)	-All Residential
Scotia Street (5275-5325)	-All Residential
Silvercreek Drive (All)	-All Residential
Sunmill Crescent (5831-5843)	-All Residential
Sutton Drive (261-1338)	1015-Liebherr-Canada -Seradex Scientific 1075-Endress & Hauser 1115-Gowans Repair & Svc -Band-One Resources -Tango Mineral Resources -Whytek Marketing 1145-Pro Dist Svcs -Kraken Automation -Cumming Freight -Islip Flow Controls 1295-Pack N Rail -Diamond Shipping Supplies 1016-Multi Tenant Office 1040-Konecranes Canada 1100-Bob Jarvis Insulation -AML Logistics 1210-Lumberville Co 1330-Higginson Equipment Sales
Thornburn Drive (5225-5245)	-All Residential
Thorn Lane (All)	-All Residential

Year: 2000	

Site & Listing: 5164, 5366, 5470, 5900 Upper Middle Road	5164-No Return 5470, 5900 – Addresses Not Listed
Adjacent Properties:	
Upper Middle Road (5150-6000)	-All Residential
Baker Drive (2100-2115)	-All Residential
Blue Spruce Avenue (5970-5990)	-All Residential
Burloak Drive (1240-1500)	1268, 1278 - Residential
Corporate Drive (1750-1765)	-No Listings Within Radius
Creek Way (All)	-All Residential
Deer Place (2100-2120)	-All Residential
Des Jardines Drive (5180-5200)	-All Residential
Dunmore Avenue (All)	-All Residential
English Crescent (All)	-All Residential
Falconcrest Drive (All)	-All Residential
Georgina Court (All)	-Street Not Listed
Heine Court (All)	1315-Baldwin School Supply 1325-Ener-Gard Energy 1327-On-Line Embossing 1329-Danly Die Set 1320-Konecranes Canada 1350-Normac Adhesive Products
Hobson Drive (1820-1845)	-All Residential
John Lucas Drive (5150-5275)	5275-Controlchem Canada

Mainway (5050-5600)	5450-Hearthland -Frigidaire Appliance Store 5480-Flometrico 5540-Automated Fluid Power & Control -West Mount Electric
Porter Street (5180-5205)	-All Residential
Quinte Street (2000-2010)	-All Residential
Rome Crescent (5240-5258)	-All Residential
Roseville Court (All)	-All Residential
Scotia Street (5275-5325)	-All Residential
Silvercreek Drive (All)	-All Residential
Sunmill Crescent (5831-5843)	-All Residential
Sutton Drive (261-1338)	1015-Liebherr-Canada -Seradex Scientific 1115-Gowans Repair & Svc -Band-One Resources -Woods Survey Equipment -Soda Blasters Cleaning 1145-Pro Dist Svcs -Kraken Automation 1295-Pack N Rail -Diamond Shipping Supplies 1016-Multi Tenant Office 1100-DRG Group 1210-Lumberville Co
Thornburn Drive (5225-5245)	-All Residential
Thorn Lane (All)	-All Residential

Year: 1995	

Site & Listing: 5164, 5366, 5470, 5900 Upper Middle Road	5164-No Return 5470, 5900 – Addresses Not Listed
Adjacent Properties:	
Upper Middle Road (5150-6000)	-All Residential
Baker Drive (2100-2115)	-All Residential
Blue Spruce Avenue (5970-5990)	-All Residential
Burloak Drive (1240-1500)	1268, 1278 - Residential
Corporate Drive (1750-1765)	-No Listings Within Radius
Creek Way (All)	-All Residential
Deer Place (2100-2120)	-All Residential
Des Jardines Drive (5180-5200)	-All Residential
Dunmore Avenue (All)	-All Residential
English Crescent (All)	-All Residential
Falconcrest Drive (All)	-All Residential
Georgina Court (All)	-Street Not Listed
Heine Court (All)	1315-Baldwin School Supply 1325-Ener-Gard Energy 1327-Merva Systems -Airshield Inc 1329-Cdn Country Candles
Hobson Drive (1820-1845)	-All Residential
John Lucas Drive (5150-5275)	-No Listings Within Radius
Mainway (5050-5600)	5450-Hunter Hearth Ltd 5480-Flometrico

Porter Street (5180-5205)	-All Residential
Quinte Street (2000-2010)	-All Residential
Rome Crescent (5240-5258)	-All Residential
Roseville Court (All)	-All Residential
Scotia Street (5275-5325)	-All Residential
Silvercreek Drive (All)	-All Residential
Sunmill Crescent (5831-5843)	-All Residential
Sutton Drive (261-1338)	1015-Blackwood Hodge Equipment -Suntract Rentals -Major Wire Ind. 1115-Diachem 1145-Pro Dist Svcs 1295-Pack N Rail 1016-Multi Tenant Office 1210-Lumberville Co
Thornburn Drive (5225-5245)	-All Residential
Thorn Lane (All)	-All Residential

Year: 1990	
Site & Listing: 5164, 5366, 5470, 5900 Upper Middle Road	5164-Residential 5470, 5900 – Addresses Not Listed
Adjacent Properties:	
Upper Middle Road (5150-6000)	-All Residential
Baker Drive (2100-2115)	-Street Not Listed
Blue Spruce Avenue (5970-5990)	-Street Not Listed
Burloak Drive (1240-1500)	1268, 1278 - Residential

Corporate Drive (1750-1765)	-No Listings Within Radius
Creek Way (All)	-Street Not Listed
Deer Place (2100-2120)	-Street Not Listed
Des Jardines Drive (5180-5200)	-Street Not Listed
Dunmore Avenue (All)	-Street Not Listed
English Crescent (All)	-Street Not Listed
Falconcrest Drive (All)	-Street Not Listed
Georgina Court (All)	-Street Not Listed
Heine Court (All)	-Street Not Listed
Hobson Drive (1820-1845)	-Street Not Listed
John Lucas Drive (5150-5275)	-Street Not Listed
Mainway (5050-5600)	-No Listings Within Radius
Porter Street (5180-5205)	-Street Not Listed
Quinte Street (2000-2010)	-Street Not Listed
Rome Crescent (5240-5258)	-Street Not Listed
Roseville Court (All)	-Street Not Listed
Scotia Street (5275-5325)	-Street Not Listed
Silvercreek Drive (All)	-Street Not Listed
Sunmill Crescent (5831-5843)	-Street Not Listed
Sutton Drive (261-1338)	-Not Built Upon
Thornburn Drive (5225-5245)	-Street Not Listed

Thorn Lane (All)	-Street Not Listed

Year: 1985	
Site & Listing: 5164, 5366, 5470, 5900 Upper Middle Road	5164-Residential 5470, 5900 – Addresses Not Listed
Adjacent Properties:	
Upper Middle Road (5150-6000)	-All Residential
Baker Drive (2100-2115)	-Street Not Listed
Blue Spruce Avenue (5970-5990)	-Street Not Listed
Burloak Drive (1240-1500)	1268, 1278 - Residential
Corporate Drive (1750-1765)	-No Listings Within Radius
Creek Way (All)	-Street Not Listed
Deer Place (2100-2120)	-Street Not Listed
Des Jardines Drive (5180-5200)	-Street Not Listed
Dunmore Avenue (All)	-Street Not Listed
English Crescent (All)	-Street Not Listed
Falconcrest Drive (All)	-Street Not Listed
Georgina Court (All)	-Street Not Listed
Heine Court (All)	-Street Not Listed
Hobson Drive (1820-1845)	-Street Not Listed
John Lucas Drive (5150-5275)	-Street Not Listed
Mainway (5050-5600)	-No Listings Within Radius

Porter Street (5180-5205)	-Street Not Listed
Quinte Street (2000-2010)	-Street Not Listed
Rome Crescent (5240-5258)	-Street Not Listed
Roseville Court (All)	-Street Not Listed
Scotia Street (5275-5325)	-Street Not Listed
Silvercreek Drive (All)	-Street Not Listed
Sunmill Crescent (5831-5843)	-Street Not Listed
Sutton Drive (261-1338)	-Not Built Upon
Thornburn Drive (5225-5245)	-Street Not Listed
Thorn Lane (All)	-Street Not Listed

Year: 1980	
Site & Listing: 5164, 5366, 5470, 5900 Upper Middle Road	5164-Residential 5470-Residential 5900 – Address Not Listed
Adjacent Properties:	
Upper Middle Road (5150-6000)	-All Residential
Baker Drive (2100-2115)	-Street Not Listed
Blue Spruce Avenue (5970-5990)	-Street Not Listed
Burloak Drive (1240-1500)	1268 - Residential
Corporate Drive (1750-1765)	-Street Not Listed
Creek Way (All)	-Street Not Listed
Deer Place (2100-2120)	-Street Not Listed

Des Jardines Drive (5180-5200)	-Street Not Listed
Dunmore Avenue (All)	-Street Not Listed
English Crescent (All)	-Street Not Listed
Falconcrest Drive (All)	-Street Not Listed
Georgina Court (All)	-Street Not Listed
Heine Court (All)	-Street Not Listed
Hobson Drive (1820-1845)	-Street Not Listed
John Lucas Drive (5150-5275)	-Street Not Listed
Mainway (5050-5600)	-No Listings Within Radius
Porter Street (5180-5205)	-Street Not Listed
Quinte Street (2000-2010)	-Street Not Listed
Rome Crescent (5240-5258)	-Street Not Listed
Roseville Court (All)	-Street Not Listed
Scotia Street (5275-5325)	-Street Not Listed
Silvercreek Drive (All)	-Street Not Listed
Sunmill Crescent (5831-5843)	-Street Not Listed
Sutton Drive (261-1338)	-Street Not Listed
Thornburn Drive (5225-5245)	-Street Not Listed
Thorn Lane (All)	-Street Not Listed

Year: 1975	
Site & Listing: 5164, 5366, 5470, 5900 Upper Middle Road	5164-Residential 5470-Residential

	5900 – Address Not Listed
Adjacent Properties:	
Upper Middle Road (5150-6000)	-All Residential
Baker Drive (2100-2115)	-Street Not Listed
Blue Spruce Avenue (5970-5990)	-Street Not Listed
Burloak Drive (1240-1500)	1268 - Residential
Corporate Drive (1750-1765)	-Street Not Listed
Creek Way (All)	-Street Not Listed
Deer Place (2100-2120)	-Street Not Listed
Des Jardines Drive (5180-5200)	-Street Not Listed
Dunmore Avenue (All)	-Street Not Listed
English Crescent (All)	-Street Not Listed
Falconcrest Drive (All)	-Street Not Listed
Georgina Court (All)	-Street Not Listed
Heine Court (All)	-Street Not Listed
Hobson Drive (1820-1845)	-Street Not Listed
John Lucas Drive (5150-5275)	-Street Not Listed
Mainway (5050-5600)	-No Listings Within Radius
Porter Street (5180-5205)	-Street Not Listed
Quinte Street (2000-2010)	-Street Not Listed
Rome Crescent (5240-5258)	-Street Not Listed

Roseville Court (All)	-Street Not Listed
Scotia Street (5275-5325)	-Street Not Listed
Silvercreek Drive (All)	-Street Not Listed
Sunmill Crescent (5831-5843)	-Street Not Listed
Sutton Drive (261-1338)	-Street Not Listed
Thornburn Drive (5225-5245)	-Street Not Listed
Thorn Lane (All)	-Street Not Listed

Year: 1970	
Site & Listing: 5164, 5366, 5470, 5900 Upper Middle Road	5164-Residential 5470-Residential 5900 – Address Not Listed
Adjacent Properties:	
Upper Middle Road (5150-6000)	-All Residential
Baker Drive (2100-2115)	-Street Not Listed
Blue Spruce Avenue (5970-5990)	-Street Not Listed
Burloak Drive (1240-1500)	-No Listings Within Radius
Corporate Drive (1750-1765)	-Street Not Listed
Creek Way (All)	-Street Not Listed
Deer Place (2100-2120)	-Street Not Listed
Des Jardines Drive (5180-5200)	-Street Not Listed
Dunmore Avenue (All)	-Street Not Listed
English Crescent (All)	-Street Not Listed

Falconcrest Drive (All)	-Street Not Listed
Georgina Court (All)	-Street Not Listed
Heine Court (All)	-Street Not Listed
Hobson Drive (1820-1845)	-Street Not Listed
John Lucas Drive (5150-5275)	-Street Not Listed
Mainway (5050-5600)	-No Listings Within Radius
Porter Street (5180-5205)	-Street Not Listed
Quinte Street (2000-2010)	-Street Not Listed
Rome Crescent (5240-5258)	-Street Not Listed
Roseville Court (All)	-Street Not Listed
Scotia Street (5275-5325)	-Street Not Listed
Silvercreek Drive (All)	-Street Not Listed
Sunmill Crescent (5831-5843)	-Street Not Listed
Sutton Drive (261-1338)	-Street Not Listed
Thornburn Drive (5225-5245)	-Street Not Listed
Thorn Lane (All)	-Street Not Listed

Year: 1965	
Site & Listing: 5164, 5366, 5470, 5900 Upper Middle Road	5164-Residential 5470-Residential 5900 – Address Not Listed
Adjacent Properties:	
Upper Middle Road (5150-6000)	-All Residential

Baker Drive (2100-2115)	-Street Not Listed
Blue Spruce Avenue (5970-5990)	-Street Not Listed
Burloak Drive (1240-1500)	-No Listings Within Radius
Corporate Drive (1750-1765)	-Street Not Listed
Creek Way (All)	-Street Not Listed
Deer Place (2100-2120)	-Street Not Listed
Des Jardines Drive (5180-5200)	-Street Not Listed
Dunmore Avenue (All)	-Street Not Listed
English Crescent (All)	-Street Not Listed
Falconcrest Drive (All)	-Street Not Listed
Georgina Court (All)	-Street Not Listed
Heine Court (All)	-Street Not Listed
Hobson Drive (1820-1845)	-Street Not Listed
John Lucas Drive (5150-5275)	-Street Not Listed
Mainway (5050-5600)	-No Listings Within Radius
Porter Street (5180-5205)	-Street Not Listed
Quinte Street (2000-2010)	-Street Not Listed
Rome Crescent (5240-5258)	-Street Not Listed
Roseville Court (All)	-Street Not Listed
Scotia Street (5275-5325)	-Street Not Listed
Silvercreek Drive (All)	-Street Not Listed

Sunmill Crescent (5831-5843)	-Street Not Listed
Sutton Drive (261-1338)	-Street Not Listed
Thornburn Drive (5225-5245)	-Street Not Listed
Thorn Lane (All)	-Street Not Listed

Year: 1960	
Site & Listing: 5164, 5366, 5470, 5900 Upper Middle Road	-Street Not Listed
Adjacent Properties:	
Upper Middle Road (5150-6000)	-Street Not Listed
Baker Drive (2100-2115)	-Street Not Listed
Blue Spruce Avenue (5970-5990)	-Street Not Listed
Burloak Drive (1240-1500)	-No Listings Within Radius
Corporate Drive (1750-1765)	-Street Not Listed
Creek Way (All)	-Street Not Listed
Deer Place (2100-2120)	-Street Not Listed
Des Jardines Drive (5180-5200)	-Street Not Listed
Dunmore Avenue (All)	-Street Not Listed
English Crescent (All)	-Street Not Listed
Falconcrest Drive (All)	-Street Not Listed
Georgina Court (All)	-Street Not Listed
Heine Court (All)	-Street Not Listed
Hobson Drive (1820-1845)	-Street Not Listed

John Lucas Drive (5150-5275)	-Street Not Listed
Mainway (5050-5600)	-No Listings Within Radius
Porter Street (5180-5205)	-Street Not Listed
Quinte Street (2000-2010)	-Street Not Listed
Rome Crescent (5240-5258)	-Street Not Listed
Roseville Court (All)	-Street Not Listed
Scotia Street (5275-5325)	-Street Not Listed
Silvercreek Drive (All)	-Street Not Listed
Sunmill Crescent (5831-5843)	-Street Not Listed
Sutton Drive (261-1338)	-Street Not Listed
Thornburn Drive (5225-5245)	-Street Not Listed
Thorn Lane (All)	-Street Not Listed

Appendix E

ERIS Report

DATABASE REPORT

Project Property:	*Phase One ESA* *Bronte Creek Meadows* *Burlington ON*
Project No:	*21199-001*
Report Type:	*RSC Report - Quote*
Order No:	*24081200485*
Requested by:	*Cambium Inc.*
Date Completed:	*August 13, 2024*

Environmental Risk Information Services
A division of Glacier Media Inc.
1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Table of Contents.....2
Executive Summary.....3
Executive Summary: Report Summary.....4
Executive Summary: Site Report Summary - Project Property.....7
Executive Summary: Site Report Summary - Surrounding Properties.....9
Executive Summary: Summary By Data Source.....57
Map.....116
Aerial.....117
Topographic Map.....118
Detail Report.....119
Unplottable Summary.....536
Unplottable Report.....545
Appendix: Database Descriptions.....666
Definitions.....676

Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as a database review of environmental records.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

No warranty of Accuracy or Liability for ERIS: The information contained in this report has been produced by ERIS Information Limited Partnership ("ERIS") using various sources of information, including information provided by Federal and Provincial government departments. The report applies only to the address and up to the date specified on the cover of this report, and any alterations or deviation from this description will require a new report. This report and the data contained herein does not purport to be and does not constitute a guarantee of the accuracy of the information contained herein and does not constitute a legal opinion nor medical advice. Although ERIS has endeavored to present you with information that is accurate, ERIS disclaims, any and all liability for any errors, omissions, or inaccuracies in such information and data, whether attributable to inadvertence, negligence or otherwise, and for any consequences arising therefrom. Liability on the part of ERIS is limited to the monetary value paid for this report.

Trademark and Copyright: You may not use the ERIS trademarks or attribute any work to ERIS other than as outlined above. This Service and Report (s) are protected by copyright owned by ERIS Information Limited Partnership. Copyright in data used in the Service or Report(s) (the "Data") is owned by ERIS or its licensors. The Service, Report(s) and Data may not be copied or reproduced in whole or in any substantial part without prior written consent of ERIS.

Executive Summary

Property Information:

Project Property:	*Phase One ESA* *Phase One Environmental Site Assessment - Bronte Creek Meadows Burlington ON*
Project No:	*21199-001*

Order Information:

Order No:	*24081200485*
Date Requested:	*August 12, 2024*
Requested by:	*Cambium Inc.*
Report Type:	*RSC Report - Quote*

Historical/Products:

ERIS Xplorer	*ERIS Xplorer*
Insurance Products	*Fire Insurance Maps/Inspection Reports/Site Plans*
Topographic Map	*RSC Maps*

Executive Summary: Report Summary

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
AAGR	Abandoned Aggregate Inventory	Y	0	0	0
AGR	Aggregate Inventory	Y	0	0	0
AMIS	Abandoned Mine Information System	Y	0	0	0
ANDR	Anderson's Waste Disposal Sites	Y	1	0	1
AST	Aboveground Storage Tanks	Y	0	0	0
AUWR	Automobile Wrecking & Supplies	Y	0	0	0
BORE	Borehole	Y	0	0	0
CA	Certificates of Approval	Y	0	37	37
CDRY	Dry Cleaning Facilities	Y	0	0	0
CFOT	Commercial Fuel Oil Tanks	Y	0	1	1
CHEM	Chemical Manufacturers and Distributors	Y	0	0	0
CHM	Chemical Register	Y	0	6	6
CNG	Compressed Natural Gas Stations	Y	0	0	0
COAL	Inventory of Coal Gasification Plants and Coal Tar Sites	Y	0	0	0
CONV	Compliance and Convictions	Y	0	0	0
CPU	Certificates of Property Use	Y	0	0	0
DRL	Drill Hole Database	Y	0	0	0
DTNK	Delisted Fuel Tanks	Y	0	4	4
EASR	Environmental Activity and Sector Registry	Y	0	8	8
EBR	Environmental Registry	Y	0	7	7
ECA	Environmental Compliance Approval	Y	0	23	23
EEM	Environmental Effects Monitoring	Y	0	0	0
EHS	ERIS Historical Searches	Y	2	43	45
EIIS	Environmental Issues Inventory System	Y	0	0	0
EMHE	Emergency Management Historical Event	Y	0	0	0
EPAR	Environmental Penalty Annual Report	Y	0	0	0
EXP	List of Expired Fuels Safety Facilities	Y	0	6	6
FCON	Federal Convictions	Y	0	0	0
FCS	Contaminated Sites on Federal Land	Y	0	0	0
FOFT	Fisheries & Oceans Fuel Tanks	Y	0	0	0
FRST	Federal Identification Registry for Storage Tank Systems (FIRSTS)	Y	0	0	0
FST	Fuel Storage Tank	Y	0	10	10
FSTH	Fuel Storage Tank - Historic	Y	0	6	6
GEN	Ontario Regulation 347 Waste Generators Summary	Y	0	317	317
GHG	Greenhouse Gas Emissions from Large Facilities	Y	0	0	0
HINC	TSSA Historic Incidents	Y	0	2	2

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
IAFT	Indian & Northern Affairs Fuel Tanks	Y	0	0	0
INC	Fuel Oil Spills and Leaks	Y	0	1	1
LIMO	Landfill Inventory Management Ontario	Y	0	0	0
MINE	Canadian Mine Locations	Y	0	0	0
MNR	Mineral Occurrences	Y	0	0	0
NATE	National Analysis of Trends in Emergencies System (NATES)	Y	0	0	0
NCPL	Non-Compliance Reports	Y	0	0	0
NDFT	National Defense & Canadian Forces Fuel Tanks	Y	0	0	0
NDSP	National Defense & Canadian Forces Spills	Y	0	0	0
NDWD	National Defence & Canadian Forces Waste Disposal Sites	Y	0	0	0
NEBI	National Energy Board Pipeline Incidents	Y	0	0	0
NEBP	National Energy Board Wells	Y	0	0	0
NEES	National Environmental Emergencies System (NEES)	Y	0	0	0
NPCB	National PCB Inventory	Y	0	0	0
NPR2	National Pollutant Release Inventory 1993-2020	Y	0	2	2
NPRI	National Pollutant Release Inventory - Historic	Y	0	1	1
OGWE	Oil and Gas Wells	Y	0	0	0
OOGW	Ontario Oil and Gas Wells	Y	0	0	0
OPCB	Inventory of PCB Storage Sites	Y	0	0	0
ORD	Orders	Y	0	0	0
PAP	Canadian Pulp and Paper	Y	0	1	1
PCFT	Parks Canada Fuel Storage Tanks	Y	0	0	0
PES	Pesticide Register	Y	0	7	7
PFCH	NPRI Reporters - PFAS Substances	Y	0	0	0
PFHA	Potential PFAS Handlers from NPRI	Y	0	0	0
PINC	Pipeline Incidents	Y	0	1	1
PRT	Private and Retail Fuel Storage Tanks	Y	0	2	2
PTTW	Permit to Take Water	Y	0	0	0
REC	Ontario Regulation 347 Waste Receivers Summary	Y	0	0	0
RSC	Record of Site Condition	Y	0	0	0
RST	Retail Fuel Storage Tanks	Y	0	2	2
SCT	Scott's Manufacturing Directory	Y	0	47	47
SPL	Ontario Spills	Y	0	10	10
SRDS	Wastewater Discharger Registration Database	Y	0	0	0
TANK	Anderson's Storage Tanks	Y	0	0	0
TCFT	Transport Canada Fuel Storage Tanks	Y	0	0	0
VAR	Variances for Abandonment of Underground Storage Tanks	Y	0	1	1
WDS	Waste Disposal Sites - MOE CA Inventory	Y	0	1	1
WDSH	Waste Disposal Sites - MOE 1991 Historical Approval Inventory	Y	1	0	1
WWIS	Water Well Information System	Y	8	64	72

Database	Name	Searched	Project Property	Boundary to 0.30km	Total
Total:			12	610	622

Executive Summary: Site Report Summary - Project Property

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
1	EHS		5164, 5366, 5470 and 5900 Upper Middle Road and 5201 Mainway Burlington ON	ESE/0.0	0.00	119
2	WDSH		1 2 BURLINGTON ON	E/0.0	-4.94	119
3	ANDR	Trafalgar Con 1 SDS Dump	Burlington ON L7	E/0.0	-5.09	11
4	WWIS		SOUTHWEST BURLOAK AND UPPER MIDDLE Burlington ON ***Well ID:*** 7114329	NNE/0.0	5.86	120
5	WWIS		SOUTHWEST BURLOAK & UPPERMIDDLE Burlington ON ***Well ID:*** 7114254	N/0.0	6.08	123
6	WWIS		SOUTHWEST BURLOAK Burlington ON ***Well ID:*** 7114249	NNE/0.0	6.37	125
7	WWIS		SOUTH WEST &V UPPER MIDDLE BURLINGTON ON ***Well ID:*** 7114257	NNE/0.0	6.37	128
8	WWIS		lot 1 con 2 ON ***Well ID:*** 2800246	NNE/0.0	6.10	131

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev diff (m)	Page Number
9	WWIS		SOUTH WEST BULOAK & UPPER MIDDLE BURLINGTON ON ***Well ID:*** 7114258	N/0.0	7.03	134
10	WWIS		SOTHWEST UPPERVEDDLE PURCELL Burlington ON ***Well ID:*** 7114252	N/0.0	7.97	138
11	WWIS		SOUTHWEST UPPERMIDDLE BURLOAK Burlington ON ***Well ID:*** 7114253	N/0.0	7.97	140
12	EHS		Upper Middle Road Burlington ON	N/0.0	8.00	143

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
13	ECA	Jannock Properties Limited	North Service Road Burlington ON L5L 4M1	ESE/10.3	-5.00	143
14	WWIS		5516 JOHN L DRIVE lot 2 con 2 BURLINGTON ON ***Well ID:*** 2809887	ESE/10.9	-5.00	144
15	WWIS		UPPER MIDDLE ROAD & APPLEBY Burlington ON ***Well ID:*** 7253139	WSW/17.2	3.04	145
16	WWIS		5164 UPPER MIDDLE RD lot 3-4 Burlington ON ***Well ID:*** 7100721	WSW/22.2	1.67	147
17	CA	MATTAMY HOMES LTD.	UPPER MIDDLE RD/DEER PLACE BURLINGTON CITY ON	NNW/25.4	6.95	151
18	CA	LIMESIDE DEVELOPMENTS	SUTTON DR. MAINWAY PH. 2 BURLINGTON CITY ON	SE/26.9	-5.00	152
18	CA	LIMESIDE DEVELOPMENT	MAINWAY SUTTON DR. PH. 2 BURLINGTON CITY ON	SE/26.9	-5.00	152
19	SPL	ENBRIDGE PIPELINES INC.	LOT#35, CONCESSION #2\UPPER MIDDLE RD & BURLOAK RD PIPELINE/COMPRESSOR STATION OAKVILLE TOWN ON	NNE/29.8	8.00	152
19	CA		Burloak Drive and Upper Middle Road Burlington ON	NNE/29.8	8.00	153
19	CA	The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON	NNE/29.8	8.00	153
19	CA	The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON	NNE/29.8	8.00	154

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
19	ECA	The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON L6M 3L1	NNE/29.8	8.00	154
19	ECA	Her Majesty the Queen in Right of Ontario as represented by the Minister of	Natural Resources Burloak Drive and Upper Middle Rd Burlington ON L7R 3X5	NNE/29.8	8.00	154
19	ECA	The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON L6M 3L1	NNE/29.8	8.00	155
19	ECA	Her Majesty the Queen in Right of Ontario as represented by the Minister of	Natural Resources Burloak Drive and Upper Middle Rd Burlington ON L6M 4J7	NNE/29.8	8.00	155
19	SPL	Enbridge Pipelines Inc.	corner of Upper Middle and Burloak Dr Oakville ON	NNE/29.8	8.00	155
20	WWIS		163M SOUTH OF BRONTE PROVINCIAL PARK OAKVILLE ON ***Well ID:*** 7267355	NE/37.5	2.19	156
21	WWIS		162M SOUTH OF BRONTE PROVINCIAL PARK OAKVILLE ON ***Well ID:*** 7267356	NE/37.6	2.19	159
22	WWIS		lot 1 con 2 ON ***Well ID:*** 2805095	E/38.2	-5.63	161
23	WWIS		ON ***Well ID:*** 7262592	NE/45.7	3.00	164
24	WWIS		NW CORNER UPPER MIDDLE ON ***Well ID:*** 7105627	NNE/47.9	8.00	165
25	ECA	RRL Burloak Inc.	1477 Burloak Dr to 1519 Buloak Dr (Regional Road #21) Oakville ON L6J 7W5	NNE/49.5	7.01	169
26	FSTH	SUNCOR ENERGY PRODUCTS INC**	5600 MAINWAY BURLINGTON ON L7L 6C4	E/59.5	-6.00	169
26	FSTH	1704271 ONTARIO INC O/A GAS STN	5600 MAINWAY BURLINGTON ON L7L 6C4	E/59.5	-6.00	170

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
26	CA	Suncor Energy Products Inc.	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	170
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	171
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	171
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	171
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	171
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	172
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	172
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	172
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	172
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	173
26	GEN	Suncor Energy	5600 Mainway Burlington ON	E/59.5	-6.00	173
26	ECA	Suncor Energy Products Inc.	5600 Mainway Burlington ON M2P 2C5	E/59.5	-6.00	173
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	174

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	174
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	174
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	175
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	175
26	DTNK		5600 MAINWAY BURLINGTON ON L7L 6C4	E/59.5	-6.00	176
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	176
26	GEN	Suncor Energy	5600 Mainway Burlington ON L7L 6C4	E/59.5	-6.00	177
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	177
26	FST	SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	E/59.5	-6.00	177
27	EHS		Mainway Burlington ON L7L 6C4	E/60.5	-6.00	177
28	EHS		5470 Upper Middle Road Burlington ON	N/62.0	7.30	178
29	SPL	BURLINGTON HYDRO-ELECTRIC COMM	5119 FALCONCREST RD UPPER MIDDLE RD & APPLEBY LINE TRANSFORMER BURLINGTON CITY ON L7L 6K3	WSW/63.3	0.00	178
30	GEN	Hearthland	5450 Mainway Drive Burlington ON L7L 6A4	E/65.1	-6.00	179

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
30	SCT	Hearthland Fireplaces Limited	5450 Mainway Burlington ON L7L 6A4	E/65.1	-6.00	179
30	GEN	Hearthland	5450 Mainway Drive Burlington ON L7L 6A4	E/65.1	-6.00	180
30	GEN	Hearthland	5450 Mainway Drive Burlington ON L7L 6A4	E/65.1	-6.00	180
30	EHS		5450 Mainway Burlington ON L7L6A4	E/65.1	-6.00	180
30	GEN	Infinity Group Construction	5450 Mainway Dr. Burlington ON L7L 6A4	E/65.1	-6.00	181
30	GEN	Infinity Group Construction	5450 Mainway Dr. Burlington ON L7L 6A4	E/65.1	-6.00	181
30	GEN	Infinity Group Construction	5450 Mainway Dr. Burlington ON L7L 6A4	E/65.1	-6.00	181
31	WWIS		lot 35 con 2 ON ***Well ID:*** 2802409	NNE/67.9	7.81	182
32	SCT	FLOMETRICO LTD.	5480 MAINWAY DR BURLINGTON ON L7L 6A4	E/68.1	-6.47	185
32	SCT	Flometrico Ltd.	5480 Mainway Burlington ON L7L 6A4	E/68.1	-6.47	185
32	SCT	Peerless Pump Canada Inc.	5480 Mainway Burlington ON L7L 6A4	E/68.1	-6.47	185
32	EHS		5480 Mainway Burlington ON L7L 6A4	E/68.1	-6.47	186
32	CHM	BIOSHOP CANADA INC	5480 MAINWAY BURLINGTON ON L7L6A4	E/68.1	-6.47	186

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
32	CHM	BIOSHOP CANADA INC	5480 MAINWAY BURLINGTON ON L7L6A4	E/68.1	-6.47	186
32	CHM	BIOSHOP CANADA INC	5480 MAINWAY BURLINGTON ON L7L6A4	E/68.1	-6.47	186
33	WWIS		5600, 5570 MAUCUAY & BULEK (1240) BURLINGTON ON ***Well ID:*** 2810452	E/68.2	-6.00	186
34	WWIS		NW CORNER OF BURLOAK & UPPERMIDDLE Burlington ON ***Well ID:*** 7105625	N/69.0	8.00	188
35	ECA	Suncor Energy Products Inc.	Burlington ON M2P 2C5	E/70.7	-6.00	191
36	EHS		Mainway and Burloak Burlington ON	E/76.7	-6.00	191
36	EHS		Burloak Drive & Mainway Oakville ON	E/76.7	-6.00	191
37	EHS		5570 and 5600 Mainway and 1240 Burloak Dr Burlington ON	E/79.6	-6.53	191
38	WWIS		lot 35 con 2 ON ***Well ID:*** 2802406	NE/80.6	4.04	192
39	EHS		5219 Uppre Middle Road Burlington ON	W/81.0	4.90	194
40	ECA	Upper Middle Road Enclave Inc., Seveil Incorporated Canada, and Azaran	International Trading Ltd., for and on behalf of Upper Middle Road Enclave Limited Partnership 5219 Upper Middle Road 2004 and 2005 Georgina Court Burlington ON L4B 1G2	W/81.0	4.90	194
41	WWIS		5570 MAINWAY BURLINGTON ON	E/81.6	-6.24	195

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Well ID: 2810465			
42	SCT	VE-GO Engineering Inc.	5420 Mainway Unit 3 Burlington ON L7L 6A4	E/82.5	-6.04	198
42	GEN	ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	E/82.5	-6.04	198
42	EBR	ALS Canada Ltd.	5420 Mainway Drive, Unit 5 & 6 Burlington Ontario L7L 6A4 Burlington ON	E/82.5	-6.04	198
42	EBR	ALS Canada Ltd.	5420 Mainway Drive Unit Unit 5 & 6 Burlington, Regional Municipality of Halton L7L 6A4 CITY OF BURLINGTON ON	E/82.5	-6.04	199
42	CA	ALS Canada Ltd.	5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	E/82.5	-6.04	199
42	CA	ALS Canada Ltd.	5420 Mainway Dr Burlington ON L7L 6A4	E/82.5	-6.04	200
42	SCT	M&H Probing Systems Ltd.	5420 Mainway Unit 2D Burlington ON L7L 6A4	E/82.5	-6.04	200
42	SPL		5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	E/82.5	-6.04	200
42	GEN	ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	E/82.5	-6.04	201
42	GEN	ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	E/82.5	-6.04	202
42	GEN	ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	E/82.5	-6.04	202
42	GEN	ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	E/82.5	-6.04	203

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
42	GEN	ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON	E/82.5	-6.04	203
42	ECA	ALS Canada Ltd.	5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	E/82.5	-6.04	204
42	ECA	ALS Canada Ltd.	5420 Mainway Dr Burlington ON L7L 6A4	E/82.5	-6.04	204
42	GEN	ALS Canada Ltd	5420 Mainway Unit #1 Burlington ON L7L 6A4	E/82.5	-6.04	204
42	GEN	ALS Canada Ltd	5420 Mainway Unit #1 Burlington ON L7L 6A4	E/82.5	-6.04	205
43	WWIS		SOUTH WEST INTERSECTION OF BURLOAK & UPPER MIDDLE Burlington ON ***Well ID:*** 7105631	N/82.5	7.38	206
44	WWIS		John Lucas Drive & Sutton Drive lot 1 con 2 Burlington ON ***Well ID:*** 7405082	ESE/84.8	-6.73	209
45	WWIS		NW CORNER OF UPPER MIDDLE & BURLOAK lot 1 Burlington ON ***Well ID:*** 7108932	N/84.9	8.00	212
46	WDS	Walker Environmental Group Inc.	5030 Mainway Burlington ON L7L 5Z1	WSW/85.0	-1.00	215
47	SCT	MCorp Technologies, Inc.	5150 Mainway Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	216
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON	SSE/86.0	-6.00	216
47	SCT	MTI Preforms Limited	5150 Mainway Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	216
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	217

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	217
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	217
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	218
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON	SSE/86.0	-6.00	218
47	GEN	Ductmate Canada Limited	1-5150 Mainway Burlington ON	SSE/86.0	-6.00	218
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON	SSE/86.0	-6.00	219
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	219
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	SSE/86.0	-6.00	219
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	220
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	SSE/86.0	-6.00	220
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	SSE/86.0	-6.00	221
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	221
47	GEN	Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	221

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	SSE/86.0	-6.00	222
47	EASR	WENTWORTH TECH INC.	5150 MAINWAY BURLINGTON ON L7L 5Z1	SSE/86.0	-6.00	222
47	GEN	Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	SSE/86.0	-6.00	223
47	GEN	Irco Automation Inc. Irco Automation Inc.	5150 Mainway, Unit #2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	223
47	GEN	Irco Automation Inc. Irco Automation Inc.	5150 Mainway, Unit #2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	223
47	GEN	Irco Automation Inc. Irco Automation Inc.	5150 Mainway, Unit #2 Burlington ON L7L 5Z1	SSE/86.0	-6.00	224
48	SCT	CPC Pumps International Ltd.	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	224
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	224
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	225
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	225
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON	SSE/87.2	-6.00	226
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	226
48	EHS		5200 Mainway Drive Burlington ON	SSE/87.2	-6.00	227

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON	SSE/87.2	-6.00	227
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON	SSE/87.2	-6.00	228
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	SSE/87.2	-6.00	228
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	228
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	SSE/87.2	-6.00	229
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	SSE/87.2	-6.00	229
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	230
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	230
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	SSE/87.2	-6.00	231
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	231
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	232
48	GEN	Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	SSE/87.2	-6.00	233
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	233

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
48	GEN	CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	SSE/87.2	-6.00	234
49	SCT	DIE-X-LIMITED	5540 MAINWAY DR BURLINGTON ON L7L 6C4	E/90.2	-6.82	234
49	SCT	AUTOMATED FLUID POWER	5540 Mainway Dr Unit 1-2 Burlington ON L7L 6C4	E/90.2	-6.82	234
49	SCT	Automated Fluid Power & Control Inc.	5540 Mainway Dr Unit 1-2 Burlington ON L7L 6C4	E/90.2	-6.82	235
49	SCT	Automated Fluid Power	5540 Mainway Burlington ON L7L 6C4	E/90.2	-6.82	235
49	GEN	Deloitte & Touche Inc.	5540 Mainway Burlington ON L7L 6C4	E/90.2	-6.82	236
50	GEN	Invitrogen Canada	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	236
50	GEN	Invitrogen Canada	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	236
50	GEN	Invitrogen Canada	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	237
50	GEN	Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	237
50	GEN	Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	238
50	GEN	Life Technologies Inc	5250 Mainway Burlington ON	SSE/91.2	-5.97	238
50	GEN	Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	239

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
50	GEN	Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	239
50	GEN	Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	240
50	GEN	Melrose Investments Inc.	5250 Mainway Drive Burlington ON L7L 5Z1	SSE/91.2	-5.97	240
50	GEN	Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	240
50	EHS		5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	241
50	GEN	Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	241
50	GEN	Melrose Investments Inc.	5250 Mainway Drive Burlington ON L7L 5Z1	SSE/91.2	-5.97	242
50	GEN	Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	242
50	GEN	Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	SSE/91.2	-5.97	243
51	WWIS		lot 35 con 2 ON ***Well ID:*** 2802408	NNE/91.6	8.00	244
52	WWIS		lot 35 con 2 ON ***Well ID:*** 2802407	NNE/93.4	8.14	246
53	GEN	Konecranes Canada Inc.	5300 Mainway Burlington ON L7L6A4	ESE/94.2	-5.00	249
53	GEN	Konecranes Canada Inc.	5300 Mainway Burlington ON L7L6A4	ESE/94.2	-5.00	249

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
53	GEN	Konecranes Canada Inc.	5300 Mainway Burlington ON L7L6A4	ESE/94.2	-5.00	250
53	GEN	Melrose Investments Inc.	5300 Mainway Burlington ON L7L 5Z1	ESE/94.2	-5.00	250
53	GEN	Konecranes Canada Inc. Burlington	5300 Mainway Burlington ON L7L6A4	ESE/94.2	-5.00	250
53	GEN	Melrose Investments Inc.	5300 Mainway Burlington ON L7L 5Z1	ESE/94.2	-5.00	251
53	GEN	Konecranes Canada Inc. Burlington	5300 Mainway Burlington ON L7L6A4	ESE/94.2	-5.00	251
53	GEN	Konecranes Canada Inc. Burlington	5300 Mainway Burlington ON L7L6A4	ESE/94.2	-5.00	251
54	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197924	N/99.1	7.76	252
55	WWIS		lot 3 con 2 ON ***Well ID:*** 7382370	SSE/99.4	-6.00	255
56	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197928	N/100.0	7.33	256
57	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197927	N/100.1	7.76	259
58	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197923	N/102.1	7.76	262
59	SCT	Noram Solutions	5510 Mainway Dr Burlington ON L7L 6C4	E/103.5	-7.00	265

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
59	SCT	Noram Solutions	5510 Mainway Burlington ON L7L 6C4	E/103.5	-7.00	265
59	SCT	Barton Medical Canada Inc.	5510 Mainway Burlington ON L7L 6C4	E/103.5	-7.00	266
60	WWIS		UPPER MIDDLE RD AND BURLOAD DR Burlington ON ***Well ID:*** 7114250	N/103.9	8.00	266
61	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197930	N/104.4	6.97	269
62	CA	PALETTA INTERNATIONAL CORP.	CREEK WAY/CORPORATE DR. BURLINGTON ON	SW/105.2	-2.00	272
63	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197929	N/107.3	6.99	272
64	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197926	N/108.2	6.99	276
65	GEN	ORCHARD UPTOWN DEVELOPMENTS INC	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	WSW/109.1	2.38	279
65	HINC		2055 APPLEBY LINE BURLINGTON ON L7L 7H1	WSW/109.1	2.38	279
65	GEN	WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	WSW/109.1	2.38	280
65	GEN	WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	WSW/109.1	2.38	280
65	GEN	WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	WSW/109.1	2.38	281
65	GEN	WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	WSW/109.1	2.38	281

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
66	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197931	N/110.2	6.99	281
67	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197921	N/110.2	6.99	284
67	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197922	N/110.2	6.99	287
68	EHS		n/a Burlington ON	SE/110.3	-5.00	290
69	EHS		5360 Mainway Burlington ON L7L 6A4	ESE/110.3	-7.00	290
70	WWIS		OLD BURLOAK DR. PIPELINE EASEMENT BURLINGTON ON ***Well ID:*** 7197925	N/111.2	6.99	291
71	WWIS		5164 UPPERMIDDLE RD lot 2 con 2 BURLINGTON ON ***Well ID:*** 7042975	WSW/113.3	3.08	294
72	WWIS		OAKVILLE,ONT lot 35 con 2 ON ***Well ID:*** 2809963	N/116.8	8.00	297
73	WWIS		NW CORNER UPPERMIDDLE ON ***Well ID:*** 7105624	N/120.2	7.00	300
74	EBR	Staveley Services Canada Inc.	1240 Burloak Drive Unit 6 Burlington, Regional Municipality of Halton CITY OF BURLINGTON ON	E/123.7	-7.00	302
74	ECA	Staveley Services Canada Inc. / Les Services Staveley Canada Inc.	1240 Burloak Drive Burlington ON L7L 6B3	E/123.7	-7.00	302
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	303

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	303
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	304
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	304
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON	E/123.7	-7.00	304
74	ECA	Staveley Services Canada Inc. / Les Services Staveley Canada Inc.	1240 Burloak Drive Burlington ON L7L 6B3	E/123.7	-7.00	305
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	305
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	306
74	GEN	ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	306
74	GEN	ALS Laboratory Group Tribology	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	E/123.7	-7.00	307
75	WWIS		S/W CORNER lot 5 con 2 BURLINGTON ON ***Well ID:*** 7039196	WSW/126.4	2.00	308
76	WWIS		UPPER MIDDLE RD AND BURLOAD DR ON ROAD Burlington ON ***Well ID:*** 7114255	N/128.9	6.68	310
77	EHS		5200 Mainway Burlington ON L7L 5Z1	SSE/129.0	-6.55	313

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
78	GEN	Tyco International of Canada Ltd.	1345 Heine Court Burlington ON L8L 6A7	E/129.1	-7.00	313
79	SCT	Normac Adhesive Products Inc.	1350 Heine Crt Burlington ON L7L 6M4	E/133.0	-7.00	314
79	SCT	Shaw-Almex Fusion Canada	1350 Heine Crt Burlington ON L7L 6M4	E/133.0	-7.00	314
79	GEN	NORMAC ADHESIVE PRODUCTS INC.	1350 HEINE COURT BURLINGTON ON L7L 6M4	E/133.0	-7.00	315
79	GEN	NORMAC ADHESIVE PRODUCTS INC.	1350 HEINE COURT BURLINGTON ON L7L 6M4	E/133.0	-7.00	315
79	GEN	NORMAC ADHESIVE PRODUCTS INC.	1350 HEINE COURT BURLINGTON ON L7L 6M4	E/133.0	-7.00	316
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	316
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	317
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	318
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	318
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	319
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	320
79	GEN	Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	E/133.0	-7.00	320

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
80	WWIS		1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415624	WSW/135.9	2.67	322
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	325
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	326
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	326
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	327
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON	WSW/136.9	3.90	327
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	328
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	328
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	329
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	330
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	331
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	332
81	GEN	Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	WSW/136.9	3.90	333

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
82	WWIS		OLD BURLOAK DR lot 35 con 2 Burlington ON ***Well ID:*** 7331635	N/140.1	6.99	333
83	WWIS		ON ***Well ID:*** 7417282	WSW/142.4	2.88	335
84	WWIS		lot 4 con 1 ON ***Well ID:*** 2809655	W/142.9	6.25	336
85	GEN	Enbridge Pipelines Inc	2249 Old Burloak Drive Burlington ON L7L 6B3	N/143.4	6.92	337
85	GEN	Enbridge Pipelines Inc	2249 Old Burloak Drive Burlington ON L7L 6B3	N/143.4	6.92	337
85	GEN	Enbridge Pipelines Inc	2249 Old Burloak Drive Burlington ON L7L 6B3	N/143.4	6.92	338
86	CA		5330 Mainway Drive Burlington ON	ESE/146.0	-6.00	338
86	EBR	Amhil Enterprises	5330 Mainway Drive Burlington Ontario Burlington ON	ESE/146.0	-6.00	338
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z2	ESE/146.0	-6.00	339
86	SCT	Amhil Enterprises	5330 Mainway Dr Burlington ON L7L 6A4	ESE/146.0	-6.00	339
86	SCT	Wentworth Technologies Company	5330 Mainway Burlington ON L7L 5Z1	ESE/146.0	-6.00	340
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L 6A4	ESE/146.0	-6.00	340
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L 6A4	ESE/146.0	-6.00	340

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L 6A4	ESE/146.0	-6.00	341
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z2	ESE/146.0	-6.00	341
86	EHS		5330 Mainway Drive Burlington ON	ESE/146.0	-6.00	342
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON	ESE/146.0	-6.00	342
86	ECA	Amhil Enterprises	5330 Mainway Drive Burlington ON L4Z 1W7	ESE/146.0	-6.00	342
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z1	ESE/146.0	-6.00	343
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z1	ESE/146.0	-6.00	343
86	GEN	Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z1	ESE/146.0	-6.00	343
86	GEN	Melrose Investments Inc.	5330 Mainway Burlington ON L7L 5Z1	ESE/146.0	-6.00	344
86	GEN	Amhil Enterprises Burlington	5330 Mainway Drive Burlington ON L7L5Z1	ESE/146.0	-6.00	344
86	EASR	AMHIL ENTERPRISES	5330 MAINWAY BURLINGTON ON L7L 6A4	ESE/146.0	-6.00	345
86	GEN	Amhil Enterprises Burlington	5330 Mainway Drive Burlington ON L7L5Z1	ESE/146.0	-6.00	345
86	GEN	Melrose Investments Inc.	5330 Mainway Burlington ON L7L 5Z1	ESE/146.0	-6.00	346

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
87	SCT	Global Xposure - Div. of Jimmy Tees Inc.	1816 Hobson Dr Burlington ON L7L 6L7	SW/150.2	-2.00	346
87	SCT	Global Xposure	1816 Hobson Dr Burlington ON L7L 6L7	SW/150.2	-2.00	346
88	WWIS		1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415625	WSW/150.3	2.34	347
89	WWIS		ON ***Well ID:*** 7417283	WSW/151.4	2.86	351
90	WWIS		UPPER MIDDLE RD AND BURLOAK DR ON ROAD Burlington ON ***Well ID:*** 7114256	N/151.5	6.38	351
91	WWIS		ON ***Well ID:*** 7404746	WSW/158.1	3.00	354
92	WWIS		ON ***Well ID:*** 7404747	WSW/161.3	3.00	355
93	EHS		1340 Heine Crt Burlington ON L7L6M4	E/162.4	-7.00	356
94	WWIS		ON ***Well ID:*** 7404748	WSW/163.6	3.00	356
95	WWIS		OLD BURLOAK DR lot 35 con 2 Burlington ON ***Well ID:*** 7331634	N/165.7	8.00	357
96	CA	MATTAMY HOMES LTD.	SUBD.PH.1/DEER PL/THORN LANE BURLINGTON CITY ON	NNW/167.0	8.01	359
96	CA	MATTAMY HOMES LTD.	DEER PL/THORN LANE BURLINGTON CITY ON	NNW/167.0	8.01	359
96	CA	MATTAMY HOMES LTD.	SUBD.PH.1/DEER PL/THORN LANE BURLINGTON CITY ON	NNW/167.0	8.01	359

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
97	SCT	Higginson Equipment Sales	1330 Sutton Dr Burlington ON L7L 6R6	SE/167.7	-6.00	360
97	GEN	1023976 ONTARIO LIMITED	1330 SUTTON DRIVE BURLINGTON ON L7L 6R6	SE/167.7	-6.00	360
97	EASR	BADGER DAYLIGHTING LIMITED PARTNERSHIP	1330 SUTTON DR BURLINGTON ON L7L 0J2	SE/167.7	-6.00	361
97	GEN	CPC Pumps International Inc.	1330 Sutton Drive Burlington ON L7L 6C2	SE/167.7	-6.00	361
98	WWIS		5329 John Lucas Drive lot 2 con 2 Burlington ON ***Well ID:*** 7338355	ESE/169.6	-7.00	361
99	WWIS		ON ***Well ID:*** 7404749	WSW/171.3	3.00	364
100	WWIS		5329 John Lucas Drive lot 1 con 2 Burlington ON ***Well ID:*** 7338356	ESE/171.8	-7.03	364
101	EHS		1989 Appleby Line Burlington ON L7L 6K3	WSW/172.0	3.00	367
102	GEN	Burlington City of	5011 Upper Middle Road Burlington ON	WSW/172.6	2.71	367
103	SCT	CONTROLCHAM CANADA LTD.	5275 JOHN LUCAS DR BURLINGTON ON L7L 6A8	SSE/172.8	-7.00	367
103	CHM	CONTROLCHEM CANADA LTD	5275 JOHN LUCAS DR BURLINGTON ON L7L 6A8	SSE/172.8	-7.00	368
103	SCT	ControlChem Canada Ltd.	5275 John Lucas Dr Burlington ON L7L 6A8	SSE/172.8	-7.00	368
103	GEN	CONTROLCHEM CANADA LIMITED	5275 JOHN LUCAS DRIVE BURLINGTON ON L7L 6A8	SSE/172.8	-7.00	368

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
103	CHM	CONTROLCHEM CANADA	5275 JOHN LUCAS DR BURLINGTON ON L7L 6A8	SSE/172.8	-7.00	368
103	GEN	CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	SSE/172.8	-7.00	369
103	EHS		5275 John Lucas Drive Burlington ON L7L 6A8	SSE/172.8	-7.00	369
103	SPL	ControlChem Canada Ltd.	5275 John Lucas Dr Burlington ON L7L 6A8	SSE/172.8	-7.00	369
103	GEN	CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	SSE/172.8	-7.00	370
103	GEN	CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	SSE/172.8	-7.00	370
103	GEN	CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	SSE/172.8	-7.00	371
103	CHM	CONTROLCHEM CANADA	5275 JOHN LUCAS DR BURLINGTON ON L7L6A8	SSE/172.8	-7.00	371
103	GEN	CPC Pumps International Inc.	5275 John Lucas Drive Burlington ON L7L 6A8	SSE/172.8	-7.00	371
103	NPR2	CONTROLCHEM CANADA INC.	5275 JOHN LUCAS DRIVE BURLINGTON ON L7L6A8	SSE/172.8	-7.00	372
103	NPR2	CONTROLCHEM CANADA INC.	5275 JOHN LUCAS DRIVE BURLINGTON ON L7L6A8	SSE/172.8	-7.00	380
104	WWIS		1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415622	WSW/173.5	3.00	384
105	CA		Upper Middle Road and Orchard Road Burlington ON	W/173.6	4.00	388

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
105	ECA	783880 Ontario Limited	Upper Middle Road and Orchard Road Burlington ON L8K 6K8	W/173.6	4.00	388
106	CA	R.M. OF HALTON	ORCHARD RD./UPPER MIDDLE RD. BURLINGTON CITY ON	W/173.7	4.00	388
107	RST	COMMISSO ESSO	1989 APPLEBY LINE BURLINGTON ON L7L 6K3	WSW/174.1	3.00	388
107	FSTH	VINCE COMMISSO	1989 APPLEBY LINE BURLINGTON ON L7L 6K3	WSW/174.1	3.00	389
107	RST	COMMISSO ESSO	1989 APPLEBY LINE ON L7L 6K3	WSW/174.1	3.00	389
107	FSTH	VINCE COMMISSO	1989 APPLEBY LINE BURLINGTON ON L7L 6K3	WSW/174.1	3.00	389
107	CA	Imperial Oil Limited	1989 Appleby St Burlington ON L7L 6K3	WSW/174.1	3.00	390
107	EHS		1989 Appleby Line Burlington ON L7L6K3	WSW/174.1	3.00	390
107	ECA	Imperial Oil Limited	1989 Appleby St Burlington ON M3C 1K5	WSW/174.1	3.00	390
107	GEN	Mac's Convenience Stores Inc.	1989 Appleby Line Burlington ON L7L 6K3	WSW/174.1	3.00	391
107	GEN	Mac's Convenience Stores Inc.	1989 Appleby Line Burlington ON L7L 6K3	WSW/174.1	3.00	391
107	EXP	MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	WSW/174.1	3.00	391
107	EXP	MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	WSW/174.1	3.00	392

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
107	EXP	MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	WSW/174.1	3.00	392
107	EXP	MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	WSW/174.1	3.00	392
108	WWIS		ON ***Well ID:*** 7404750	WSW/180.5	3.00	392
109	WWIS		lot 3 con 2 ON ***Well ID:*** 7382371	SE/182.6	-6.00	393
110	GEN	AMCAST INDUSTRIAL LTD.	5276 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/184.9	-7.60	394
111	SCT	CANADIAN COUNTRY CANDLES	1329 HEINE CRT BURLINGTON ON L7L 6A7	E/186.0	-6.74	394
111	SCT	Cantex Coatings Ltd.	1329 Heine Crt Burlington ON L7L 6A7	E/186.0	-6.74	395
112	WWIS		lot 3 con 2 ON ***Well ID:*** 7382361	SSE/187.9	-7.00	395
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	396
113	CA	The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	396
113	CA	The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	397
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	397
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	397

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	398
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	398
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	398
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	399
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	399
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	400
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON	SSW/193.8	-3.93	400
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON	SSW/193.8	-3.93	400
113	CFOT	REGIONAL MUNICIPALITY OF HALTON	5200 CORPORATE DR BURLINGTON ON	SSW/193.8	-3.93	401
113	ECA	The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L6M 3L1	SSW/193.8	-3.93	401
113	ECA	The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L6M 3L1	SSW/193.8	-3.93	401
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	401
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	402

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	402
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	403
113	GEN	Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	403
113	GEN	Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	403
113	GEN	Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	404
113	GEN	Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	404
113	GEN	Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	405
113	GEN	Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	405
113	GEN	Halton Region	5200 Corporate Drive Burlington ON L7L7G7	SSW/193.8	-3.93	405
113	GEN	Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	406
113	GEN	Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	406
113	GEN	Halton Region	5200 Corporate Drive Burlington ON L7L7G7	SSW/193.8	-3.93	407
113	GEN	Halton Region	5200 Corporate Drive Burlington ON L7L7G7	SSW/193.8	-3.93	407

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
113	GEN	Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	408
113	GEN	Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	SSW/193.8	-3.93	408
114	WWIS		ON ***Well ID:*** 7404751	WSW/196.0	3.00	409
115	WWIS		5200 CORPORATE DR Burlington ON ***Well ID:*** 7180404	SSW/198.0	-4.87	410
116	WWIS		5200 CORPORATE DR Burlington ON ***Well ID:*** 7180402	SSW/198.4	-4.87	413
117	WWIS		5200 CORPORATE DR Burlington ON ***Well ID:*** 7180403	SSW/198.7	-4.95	416
118	SCT	ON LINE EMBOSSING SERVICES	1327 HEINE CRT BURLINGTON ON L7L 6A7	E/202.0	-6.20	419
118	SCT	LAYDON INDUSTRIES INC.	1327 HEINE CRT BURLINGTON ON L7L 6A7	E/202.0	-6.20	419
118	GEN	First General Services	1327 Heine Court Burlington ON L7L 6A7	E/202.0	-6.20	419
119	SCT	K.N. Crowder Mfg. Inc.	1220 Burloak Dr Burlington ON L7L 6B3	E/202.7	-7.00	420
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	420
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	421
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	421

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	421
119	SPL	Burlington Hydro	1220 Burloak Dr Burlington ON	E/202.7	-7.00	422
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	422
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON	E/202.7	-7.00	423
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	423
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	424
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	424
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	424
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	425
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	425
119	GEN	K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	E/202.7	-7.00	426
120	ECA	1453372 Ontario Inc.	1330 Heine Crt Burlington ON L6H 2K2	E/208.5	-7.00	426
120	EHS		1330 Heine Court Burlington ON	E/208.5	-7.00	426

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
120	SPL		1330 Heine Court, Burlington BURLINGTON ON	E/208.5	-7.00	427
121	GEN	JM Tek Ltd	1325 Heine Court Burlington ON L7L 6A7	E/211.1	-5.92	427
121	GEN	JM Tek Ltd	1325 Heine Court Burlington ON L7L 6A7	E/211.1	-5.92	428
122	SCT	Pack-N-Rail Ltd.	1295 Sutton Dr Burlington ON L7L 6C2	SE/213.3	-6.00	428
122	GEN	Pack N Rail Ltd.	1295 Sutton Drive Burlington ON L7L 6C2	SE/213.3	-6.00	428
122	SPL	Hazmat Environmental Group Ltd.<UNOFFICIAL>	1295 Sutton Drive Burlington ON L7L 6C2	SE/213.3	-6.00	429
122	GEN	Kami Metals	1295 Sutton Drive Burlington ON	SE/213.3	-6.00	429
122	EHS		1295 Sutton Drive Burlington ON L7L 6C2	SE/213.3	-6.00	430
123	WWIS		ON ***Well ID:*** 7417284	WSW/216.4	3.00	430
124	EHS		1963 Appleby Line Burlington ON L7L	WSW/217.9	3.00	431
125	CA	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON CITY ON L7L 5Z9	SSE/219.0	-8.08	431
125	SCT	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DR BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	431
125	SCT	Frost Products Ltd.	5280 John Lucas Dr Burlington ON L7L 5Z9	SSE/219.0	-8.08	432

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
125	GEN	FROST PRODUCTS LTD.	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	432
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	432
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	433
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	434
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	434
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	435
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON	SSE/219.0	-8.08	435
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	436
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	437
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	437
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	438
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	439
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	439

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
125	GEN	FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/219.0	-8.08	440
126	WWIS		5329 JOHN LUCAS DR. Burlington ON ***Well ID:*** 7255960	ESE/219.4	-7.00	441
127	WWIS		1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415623	WSW/223.0	3.00	443
128	GEN	Halton Standard Condominium 490	2035-2045 Applyby Line Burlington ON L7L 7G8	WSW/224.6	3.00	447
129	CA	R.M. OF HALTON	APPLEBY LINE UPPER MIDDLE RD. BURLINGTON CITY ON	WSW/224.7	3.00	447
129	CA	R.M. OF HALTON - LOTS 5 & 6, CONC. 1	APPLEBY ST./UPPER MIDDLE RD. BURLINGTON CITY ON	WSW/224.7	3.00	447
129	CA	R.M. OF HALTON	APPLEBY LINE UPPER MIDDLE RD. BURLINGTON CITY ON	WSW/224.7	3.00	448
129	CA	BURLINGTON CITY	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON ON	WSW/224.7	3.00	448
129	CA	BURLINGTON CITY	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	WSW/224.7	3.00	448
129	CA	R.M. OF HALTON	UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	WSW/224.7	3.00	449
129	CA	BURLINGTON CITY	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	WSW/224.7	3.00	449
129	CA	MATTAMY HOMES LTD.	UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	WSW/224.7	3.00	449
129	CA	MATTAMY HOMES LTD.	UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	WSW/224.7	3.00	449

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
129	CA	R.M. OF HALTON	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	WSW/224.7	3.00	450
129	EHS		Appleby Line & Upper Middle Rd Burlington ON	WSW/224.7	3.00	450
130	WWIS		lot 35 con 1 ON ***Well ID:*** 2803728	N/230.3	6.36	450
131	EHS		Burlington Burlington ON L7L 6A8	ESE/233.0	-7.00	454
132	VAR	LISA LISSON	2075 APPLEBY LINE,UNIT # 209, BURLINGTON,ON,L7L 7H3,CA ON	WSW/233.8	3.00	454
133	EHS		5335 John Lucas Drive Burlington ON L7L 6A8	ESE/234.4	-7.00	454
134	EHS		1963 Appleby Line Burlington ON	WSW/240.4	2.19	454
135	WWIS		lot 5 con 1 ON ***Well ID:*** 2809604	W/241.4	3.56	455
136	EHS		5311 John Lucas Drive Burlington ON	SE/243.1	-6.00	456
137	WWIS		lot 4 con 1 ON ***Well ID:*** 2809656	W/245.4	6.20	456
138	SPL	Burlington Hydro	1822 Imperial Way Burlington ON	SW/249.1	0.00	457
139	SCT	KONECRANES CANADA INC.	1320 Heine Crt Burlington ON L7L 6L9	E/255.4	-6.78	458
139	SCT	Provincial Konecranes Inc.	1320 Heine Crt Burlington ON L7L 6L9	E/255.4	-6.78	458

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
139	SCT	Crane Pro Parts - Div. of Konecranes	1320 Heine Crt Burlington ON L7L 6L9	E/255.4	-6.78	459
139	GEN	KONE CRANES	1320 HEINE COURT BURLINGTON ON L7L 6L9	E/255.4	-6.78	459
139	GEN	KONECRANES CANADA INC.	1320 HEINE COURT BURLINGTON ON L7L 6L9	E/255.4	-6.78	459
139	GEN	Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	E/255.4	-6.78	460
139	GEN	Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	E/255.4	-6.78	460
139	GEN	Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	E/255.4	-6.78	461
139	GEN	Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	E/255.4	-6.78	461
139	EHS		1320 Heine Crt Burlington ON L7L6L9	E/255.4	-6.78	461
139	EASR	UNIVERSAL MATTER INC.	1320 HEINE CRT BURLINGTON ON L7L 6L9	E/255.4	-6.78	462
139	EHS		1320 Heine Court Burlington ON L7L 6L9	E/255.4	-6.78	462
140	EHS		1940 Ironstone Dr Burlington ON L7L0E4	WSW/257.5	2.00	462
141	EBR	Natrix Separations Inc.	5295 John Lucas Drive Burlington Regional Municipality of Halton L7L 6A8 CITY OF BURLINGTON ON	SE/258.1	-7.00	462
141	GEN	Nysa Membrane Technologies	5295 John Lucas dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	463

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
141	CA	Natrix Separations Inc.	5295 John Lucas Dr Burlington ON L7L 6A8	SE/258.1	-7.00	463
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	464
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	464
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	465
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	466
141	EASR	MOHAWK MEDBUY CORPORATION	5295 JOHN LUCAS DR BURLINGTON ON L7L 6A8	SE/258.1	-7.00	466
141	EHS		5295 John Lucas Dr Burlington ON L7L6A8	SE/258.1	-7.00	466
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON	SE/258.1	-7.00	467
141	EHS		5295 John Lucas Dr Burlington On Burlington ON L7L6A8	SE/258.1	-7.00	467
141	ECA	Natrix Separations Inc.	5295 John Lucas Dr Burlington ON L7L 6A8	SE/258.1	-7.00	468
141	GEN	WILLARD MANUFACTURING INC.	5295 JOHN LUCAS DRIVE BURLINGTON ON L7L 6A8	SE/258.1	-7.00	468
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	468
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	469

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	470
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	471
141	GEN	Melrose investments Inc.	5295 John Lucas drive Burlington ON L7L 6AB	SE/258.1	-7.00	472
141	GEN	WILLARD MANUFACTURING INC.	5295 JOHN LUCAS DRIVE BURLINGTON ON L7L 6A8	SE/258.1	-7.00	472
141	EASR	NATRIX SEPARATIONS INC.	5295 John Lucas DR Burlington ON L7L 6A8	SE/258.1	-7.00	472
141	GEN	Mohawk Medbuy Corporation Logistics	5295 John Lucas Drive, Unit 5 Burlington ON L7L 6A8	SE/258.1	-7.00	473
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	473
141	GEN	Melrose investments Inc.	5295 John Lucas drive Burlington ON L7L 6AB	SE/258.1	-7.00	474
141	GEN	RAMPF Composite Solutions Inc.	5295 John Lucas Drive Unit 5 Burlington ON L7L 6A8	SE/258.1	-7.00	474
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	475
141	EBR	RAMPF Composite Solutions Inc.	5295 John Lucas Drive Burlington , ON Canada ON	SE/258.1	-7.00	476
141	GEN	Elite Pack Inc	5295 John Lucas Drive Unit 1 Burlington ON L7L 6A8	SE/258.1	-7.00	476
141	ECA	RAMPF Composite Solutions Inc.	5295 John Lucas Dr Burlington ON L7L 6A8	SE/258.1	-7.00	477

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
141	GEN	RAMPF Composite Solutions Inc.	5295 John Lucas Drive Unit 5 Burlington ON L7L 6A8	SE/258.1	-7.00	477
141	GEN	Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	SE/258.1	-7.00	478
141	GEN	Rootree Inc.	5295 John Lucas Drive Unit 1 Burlington ON L7L 6A8	SE/258.1	-7.00	479
142	HINC		1769 HOBSON DRIVE BURLINGTON ON L7L 7C9	SW/259.2	-3.01	479
143	EHS		1315 Heine Court Burlington ON L7L 6A7	E/259.9	-6.01	480
144	CA	BLAST CLEANING PROCUCTS LTD.	5284 JOHN LUCAS DRIVE BURLINGTON CITY ON L7L 5Z9	SSE/265.9	-8.95	480
144	EBR	Blast Cleaning Products Limited	5284 John Lucas Drive CITY OF BURLINGTON ON	SSE/265.9	-8.95	480
144	GEN	US FILTERS/BLAST CLEANING PRODUCTS	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	481
144	GEN	BLAST CLEANING PRODUCTS	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	481
144	EHS		5284 John Lucas Dr Burlington ON L7L 5Z9	SSE/265.9	-8.95	481
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	481
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	482
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	482

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	483
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	483
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON	SSE/265.9	-8.95	484
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	484
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	485
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	485
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	486
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	486
144	GEN	ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	SSE/265.9	-8.95	487
145	EHS		5284 John Lucas Drive Burlington ON L7L 5Z9	SSE/265.9	-8.95	487
146	SCT	CARTER HOLT HARVEY ROOFING INC	1200 BURLOAK DR UNIT 3 BURLINGTON ON L7L 6B4	E/265.9	-5.97	488
146	GEN	SUMMO STEEL TUBING	1200 BURLOAK DRIVE BURLINGTON ON L7L 6B3	E/265.9	-5.97	488
146	SCT	Summo Steel Corp.	1200 Burloak Dr Burlington ON L7L 6B4	E/265.9	-5.97	488

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
146	GEN	SUMMO STEEL TUBING	1200 BURLOAK DRIVE BURLINGTON ON L7L 6B4	E/265.9	-5.97	489
146	EHS		1200 Burloak Dr Burlington ON L7L6B4	E/265.9	-5.97	489
146	EHS		1200 Burloak Dr Burlington ON L7L6B4	E/265.9	-5.97	489
147	EHS		5335 John Lucas Dr Burlington ON L7L6A8	ESE/267.2	-7.00	489
147	GEN	Yale Industrial Trucks Yale Industrial Trucks	5335 John Lucas Drive Unit #5 Burlington ON L7L 6A8	ESE/267.2	-7.00	490
147	GEN	Yale Industrial Trucks Yale Industrial Trucks	5335 John Lucas Drive Unit #5 Burlington ON L7L 6A8	ESE/267.2	-7.00	490
148	SCT	MORTIMER'S FINE FOODS	5341 JOHN LUCAS DR BURLINGTON ON L7L 6A8	ESE/270.8	-7.00	491
148	SCT	Mortimer's Fine Foods Inc.	5341 John Lucas Dr Burlington ON L7L 6A8	ESE/270.8	-7.00	491
149	SCT	Häfele Canada Inc.	5323 John Lucas Dr Burlington ON L7L 6A8	ESE/276.4	-7.00	491
150	SCT	FOSTER TECHNOLOGIES INC.	5347 JOHN LUCAS DR BURLINGTON ON L7L 6A8	ESE/276.7	-7.30	491
150	SCT	Safetran Canada Inc.	5347 John Lucas Dr Burlington ON L7L 6A8	ESE/276.7	-7.30	492
150	SCT	Gemalto Canada Inc.	5347 John Lucas Dr Burlington ON L7L 6A8	ESE/276.7	-7.30	492
151	CA	MONARCH CONSTRUCTION LTD.	2000 APPLEBY LINE, A&P STORE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	492

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
151	CA	ZELLERS INC.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	492
151	PES	ZELLERS STORE #487 - MILLCROFT CENTRE	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	493
151	PES	ZELLERS STORE #487 - MILLCROFT CENTRE	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	493
151	PES	RRG LANDSCAPING INC.	191 - 2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	494
151	PINC		2000 Appleby Line, Unit J, Burlington ON	WSW/277.0	3.00	494
151	EHS		2000 Appleby Line Burlington ON L7L 7H7	WSW/277.0	3.00	494
151	EASR	TARGET CANADA CO.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	495
151	EASR	TARGET CANADA CO.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	495
151	PES	TARGET CANADA CO. STORE# T3761	2000 APPLEBY LINE BURLINGTON ON L7L7H7	WSW/277.0	3.00	495
151	NPRI	ZELLERS	2000 APPLEBY Line BURLINGTON ON L7L6M5	WSW/277.0	3.00	496
151	GEN	Target Canada Co.	2000 APPLEBY LINE BURLINGTON ON	WSW/277.0	3.00	498
151	GEN	Target Canada Co.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	499
151	GEN	Target Canada Co.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	WSW/277.0	3.00	500

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
151	PES	ZELLERS STORE #487 - MILLCROFT CENTRE	2000 APPLEBY LINE BURLINGTON ON L7L6M5	WSW/277.0	3.00	501
151	PES	RRG LANDSCAPING INC.	191 - 2000 APPLEBY LINE BURLINGTON ON L7L7H7	WSW/277.0	3.00	501
152	SCT	L. E. Taylor Associates Ltd.	5305 John Lucas Dr Burlington ON L7L 6A8	SE/280.0	-6.87	502
152	GEN	Staveley Services Canada Inc.	5305 John Lucas Drive Burlington ON L7L 6A8	SE/280.0	-6.87	502
152	GEN	Applus RTD Canada	5305 John Lucas Drive Burlington ON	SE/280.0	-6.87	503
152	EHS		5305 John Lucas Drive, Unit 1 Burlington ON L7L 6A8	SE/280.0	-6.87	503
152	GEN	Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	SE/280.0	-6.87	503
152	GEN	Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	SE/280.0	-6.87	504
152	GEN	Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	SE/280.0	-6.87	505
152	GEN	Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	SE/280.0	-6.87	505
152	GEN	Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	SE/280.0	-6.87	506
152	GEN	Rowhedge construction Limited	5305 John luccas drive Burlington ON L7L 6A8	SE/280.0	-6.87	506
152	GEN	Rowhedge construction Limited	5305 John luccas drive Burlington ON L7L 6A8	SE/280.0	-6.87	507

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
153	INC		1819 MCCOY AVENUE, BURLINGTON ON	SW/280.6	0.00	507
154	PRT	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON L7R 3X5	E/285.9	-7.00	508
154	PRT	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON L7R3X5	E/285.9	-7.00	508
154	GEN	MINISTRY OF NATURAL RESOURCES	BRONTE CREEK PROVINCIAL PARK 1219 BURLOAK DRIVE BURLINGTON ON L7R 3X5	E/285.9	-7.00	508
154	GEN	MINISTRY OF NATURAL RESOURCES 25-085	BRONTE CREEK PROVINCIAL PARK 1219 BURLOAK DRIVE BURLINGTON ON L7R 3X5	E/285.9	-7.00	509
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	509
154	FSTH	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	510
154	FSTH	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	510
154	DTNK	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	510
154	DTNK	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	511
154	DTNK	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	512
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	E/285.9	-7.00	512

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	E/285.9	-7.00	513
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	E/285.9	-7.00	513
154	FST	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	514
154	FST	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	514
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	514
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	515
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	515
154	GEN	MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	516
154	GEN	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	516
154	GEN	Danosh Construction	1219 Burloak Drive Oakville ON L6M 4J7	E/285.9	-7.00	517
154	GEN	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	518
154	GEN	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	518
154	GEN	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	E/285.9	-7.00	519

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
154	EXP	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	519
154	EXP	BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	E/285.9	-7.00	520
155	EHS		1960 APPLEBY LINE BURLINGTON ON L7L 0B7	WSW/286.3	3.00	520
155	GEN	CMLHealthCare	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	520
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	521
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON	WSW/286.3	3.00	521
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON	WSW/286.3	3.00	521
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON	WSW/286.3	3.00	521
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	522
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	522
155	GEN	2183401 Ontario Inc	36-1960 Appleby Line Burlington ON L7L 0B7	WSW/286.3	3.00	522
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	523
155	GEN	2183401 Ontario Inc	36-1960 Appleby Line Burlington ON L7L 0B7	WSW/286.3	3.00	523

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	524
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L6A1	WSW/286.3	3.00	524
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	524
155	GEN	2183401 Ontario Inc	36-1960 Appleby Line Burlington ON L7L 0B7	WSW/286.3	3.00	525
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	525
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	525
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	526
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	526
155	GEN	2183401 Ontario Inc	34-1960 Appleby Line Burlington ON L7L 0B7	WSW/286.3	3.00	526
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	527
155	GEN	2183401 Ontario Inc	34-1960 Appleby Line Burlington ON L7L 0B7	WSW/286.3	3.00	527
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	528
155	GEN	Blueridge OMS	31-1960 Appleby Line BURLINGTON ON L7L 0B7	WSW/286.3	3.00	528

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
155	GEN	Blueridge OMS	31-1960 Appleby Line BURLINGTON ON L7L 0B7	WSW/286.3	3.00	528
155	GEN	2183401 Ontario Inc	34-1960 Appleby Line Burlington ON L7L 0B7	WSW/286.3	3.00	529
155	GEN	GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	WSW/286.3	3.00	529
155	GEN	LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	WSW/286.3	3.00	530
156	PAP	Eaton Electrical - Div. of Eaton Corp.	5050 Main Way Burlington ON L7L 5Z1	S/288.6	-8.31	530
156	SCT	Eaton Yale Corporation	5050B Mainway Burlington ON L7L 5Z1	S/288.6	-8.31	530
156	CA	Norjohn Transfer Systems Limited	5050 Mainway Burlington ON L7L 5Z1	S/288.6	-8.31	531
156	SCT	Eaton Corporation	5050 Mainway Burlington ON L7L 5Z1	S/288.6	-8.31	531
156	ECA	Norjohn Transfer Systems Limited	5050 Mainway Burlington ON L2V 3Y8	S/288.6	-8.31	531
157	GEN	ayesof professional inc.	1893 appleby line BURLINGTON ON L7L0G5	WSW/289.8	1.00	531
157	EHS		1893 Appleby Line Burlington ON L7L0G5	WSW/289.8	1.00	532
157	EHS		1893 Appleby Line Burlington ON L7L0G5	WSW/289.8	1.00	532
157	EHS		1893 Appleby Line Burlington ON L7L 6K3	WSW/289.8	1.00	532

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
158	ECA	Norjohn Business Park (East) Inc	1107 & 1109 Clay Ave Burlington ON L6H 0C3	S/290.8	-11.00	532
158	GEN	Straumann Canada Limited	1109 Clay Ave., Unit 8 Burlington ON L7L 0A1	S/290.8	-11.00	533
158	GEN	Straumann Canada Limited	1109 Clay Ave., Unit 8 Burlington ON L7L 0A1	S/290.8	-11.00	533
159	CA	MONARCH CONSTRUCTION LTD.-ROD FORTUNE	IRONSTONE DR./APPLEBY LINE BURLINGTON CITY ON	WSW/294.2	2.00	533
159	CA	MONARCH CONSTRUCTION LIMITED-ROD FORTUNE	IRONSIDE DR./APPLEBY LINE BURLINGTON CITY ON	WSW/294.2	2.00	534
160	PES	TOTAL LANDSCAPING & SUPPLY	5178 THORNBURN DR BURLINGTON ON L7L 6K9	SSW/295.1	-6.09	534
161	SPL		Appleby Line and Heron Way, Burlington ON	WSW/297.5	4.00	534

Executive Summary: Summary By Data Source

ANDR - Anderson's Waste Disposal Sites

A search of the ANDR database, dated 1860s-Present has found that there are 1 ANDR site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Trafalgar Con 1 SDS Dump	Burlington ON L7	0.0	3

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 37 CA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
MATTAMY HOMES LTD.	UPPER MIDDLE RD/DEER PLACE BURLINGTON CITY ON	25.4	17
LIMESIDE DEVELOPMENTS	SUTTON DR. MAINWAY PH. 2 BURLINGTON CITY ON	26.9	18
LIMESIDE DEVELOPMENT	MAINWAY SUTTON DR. PH. 2 BURLINGTON CITY ON	26.9	18
	Burloak Drive and Upper Middle Road Burlington ON	29.8	19
The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON	29.8	19
The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON	29.8	19
Suncor Energy Products Inc.	5600 Mainway Burlington ON L7L 6C4	59.5	26

Site	Address	Distance (m)	Map Key
ALS Canada Ltd.	5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd.	5420 Mainway Dr Burlington ON L7L 6A4	82.5	42
PALETTA INTERNATIONAL CORP.	CREEK WAY/CORPORATE DR. BURLINGTON ON	105.2	62
	5330 Mainway Drive Burlington ON	146.0	86
MATTAMY HOMES LTD.	SUBD.PH.1/DEER PL/THORN LANE BURLINGTON CITY ON	167.0	96
MATTAMY HOMES LTD.	DEER PL/THORN LANE BURLINGTON CITY ON	167.0	96
MATTAMY HOMES LTD.	SUBD.PH.1/DEER PL/THORN LANE BURLINGTON CITY ON	167.0	96
	Upper Middle Road and Orchard Road Burlington ON	173.6	105
R.M. OF HALTON	ORCHARD RD./UPPER MIDDLE RD. BURLINGTON CITY ON	173.7	106
Imperial Oil Limited	1989 Appleby St Burlington ON L7L 6K3	174.1	107
The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113

Site	Address	Distance (m)	Map Key
The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON CITY ON L7L 5Z9	219.0	125
R.M. OF HALTON	APPLEBY LINE UPPER MIDDLE RD. BURLINGTON CITY ON	224.7	129
R.M. OF HALTON - LOTS 5 & 6, CONC. 1	APPLEBY ST./UPPER MIDDLE RD. BURLINGTON CITY ON	224.7	129
R.M. OF HALTON	APPLEBY LINE UPPER MIDDLE RD. BURLINGTON CITY ON	224.7	129
BURLINGTON CITY	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON ON	224.7	129
BURLINGTON CITY	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	224.7	129
R.M. OF HALTON	UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	224.7	129
BURLINGTON CITY	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	224.7	129
MATTAMY HOMES LTD.	UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	224.7	129
MATTAMY HOMES LTD.	UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	224.7	129
R.M. OF HALTON	APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	224.7	129

Site	Address	Distance (m)	Map Key
Natrix Separations Inc.	5295 John Lucas Dr Burlington ON L7L 6A8	258.1	141
BLAST CLEANING PROCUCTS LTD.	5284 JOHN LUCAS DRIVE BURLINGTON CITY ON L7L 5Z9	265.9	144
MONARCH CONSTRUCTION LTD.	2000 APPLEBY LINE, A&P STORE BURLINGTON ON L7L 7H7	277.0	151
ZELLERS INC.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
Norjohn Transfer Systems Limited	5050 Mainway Burlington ON L7L 5Z1	288.6	156
MONARCH CONSTRUCTION LTD.-ROD FORTUNE	IRONSTONE DR./APPLEBY LINE BURLINGTON CITY ON	294.2	159
MONARCH CONSTRUCTION LIMITED-ROD FORTUNE	IRONSIDE DR./APPLEBY LINE BURLINGTON CITY ON	294.2	159

CFOT - Commercial Fuel Oil Tanks

A search of the CFOT database, dated Oct 2023 has found that there are 1 CFOT site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
REGIONAL MUNICIPALITY OF HALTON	5200 CORPORATE DR BURLINGTON ON	193.8	113

CHM - Chemical Register

A search of the CHM database, dated 1999-Apr 30, 2024 has found that there are 6 CHM site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
BIOSHOP CANADA INC	5480 MAINWAY BURLINGTON ON L7L6A4	68.1	32
BIOSHOP CANADA INC	5480 MAINWAY BURLINGTON ON L7L6A4	68.1	32
BIOSHOP CANADA INC	5480 MAINWAY BURLINGTON ON L7L6A4	68.1	32
CONTROLCHEM CANADA	5275 JOHN LUCAS DR BURLINGTON ON L7L6A8	172.8	103
CONTROLCHEM CANADA	5275 JOHN LUCAS DR BURLINGTON ON L7L 6A8	172.8	103
CONTROLCHEM CANADA LTD	5275 JOHN LUCAS DR BURLINGTON ON L7L 6A8	172.8	103

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated Oct 2023 has found that there are 4 DTNK site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	5600 MAINWAY BURLINGTON ON L7L 6C4	59.5	26
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154

Site	Address	Distance (m)	Map Key

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011-Jun 30, 2024 has found that there are 8 EASR site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
WENTWORTH TECH INC.	5150 MAINWAY BURLINGTON ON L7L 5Z1	86.0	47
AMHIL ENTERPRISES	5330 MAINWAY BURLINGTON ON L7L 6A4	146.0	86
BADGER DAYLIGHTING LIMITED PARTNERSHIP	1330 SUTTON DR BURLINGTON ON L7L 0J2	167.7	97
UNIVERSAL MATTER INC.	1320 HEINE CRT BURLINGTON ON L7L 6L9	255.4	139
NATRIX SEPARATIONS INC.	5295 John Lucas DR Burlington ON L7L 6A8	258.1	141
MOHAWK MEDBUY CORPORATION	5295 JOHN LUCAS DR BURLINGTON ON L7L 6A8	258.1	141
TARGET CANADA CO.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
TARGET CANADA CO.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151

EBR - Environmental Registry

A search of the EBR database, dated 1994 - Jun 30, 2024 has found that there are 7 EBR site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ALS Canada Ltd.	5420 Mainway Drive Unit Unit 5 & 6 Burlington, Regional Municipality of Halton L7L 6A4 CITY OF BURLINGTON ON	82.5	42
ALS Canada Ltd.	5420 Mainway Drive, Unit 5 & 6 Burlington Ontario L7L 6A4 Burlington ON	82.5	42
Staveley Services Canada Inc.	1240 Burloak Drive Unit 6 Burlington, Regional Municipality of Halton CITY OF BURLINGTON ON	123.7	74
Amhil Enterprises	5330 Mainway Drive Burlington Ontario Burlington ON	146.0	86
RAMPF Composite Solutions Inc.	5295 John Lucas Drive Burlington , ON Canada ON	258.1	141
Natrix Separations Inc.	5295 John Lucas Drive Burlington Regional Municipality of Halton L7L 6A8 CITY OF BURLINGTON ON	258.1	141
Blast Cleaning Products Limited	5284 John Lucas Drive CITY OF BURLINGTON ON	265.9	144

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011-Jun 30, 2024 has found that there are 23 ECA site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Jannock Properties Limited	North Service Road Burlington ON L5L 4M1	10.3	13
The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON L6M 3L1	29.8	19

Site	Address	Distance (m)	Map Key
Her Majesty the Queen in Right of Ontario as represented by the Minister of	Natural Resources Burloak Drive and Upper Middle Rd Burlington ON L7R 3X5	29.8	19
The Regional Municipality of Halton	Upper Middle Road and Burloak Dr Burlington ON L6M 3L1	29.8	19
Her Majesty the Queen in Right of Ontario as represented by the Minister of	Natural Resources Burloak Drive and Upper Middle Rd Burlington ON L6M 4J7	29.8	19
RRL Burloak Inc.	1477 Burloak Dr to 1519 Buloak Dr (Regional Road #21) Oakville ON L6J 7W5	49.5	25
Suncor Energy Products Inc.	5600 Mainway Burlington ON M2P 2C5	59.5	26
Suncor Energy Products Inc.	Burlington ON M2P 2C5	70.7	35
Upper Middle Road Enclave Inc., Seveil Incorporated Canada, and Azaran	International Trading Ltd., for and on behalf of Upper Middle Road Enclave Limited Partnership 5219 Upper Middle Road 2004 and 2005 Georgina Court Burlington ON L4B 1G2	81.0	40
ALS Canada Ltd.	5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd.	5420 Mainway Dr Burlington ON L7L 6A4	82.5	42
Staveley Services Canada Inc. / Les Services Staveley Canada Inc.	1240 Burloak Drive Burlington ON L7L 6B3	123.7	74
Staveley Services Canada Inc. / Les Services Staveley Canada Inc.	1240 Burloak Drive Burlington ON L7L 6B3	123.7	74

Site	Address	Distance (m)	Map Key
Amhil Enterprises	5330 Mainway Drive Burlington ON L4Z 1W7	146.0	86
783880 Ontario Limited	Upper Middle Road and Orchard Road Burlington ON L8K 6K8	173.6	105
Imperial Oil Limited	1989 Appleby St Burlington ON M3C 1K5	174.1	107
The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L6M 3L1	193.8	113
The Regional Municipality of Halton	5200 Corporate Drive Burlington ON L6M 3L1	193.8	113
1453372 Ontario Inc.	1330 Heine Crt Burlington ON L6H 2K2	208.5	120
Natrix Separations Inc.	5295 John Lucas Dr Burlington ON L7L 6A8	258.1	141
RAMPF Composite Solutions Inc.	5295 John Lucas Dr Burlington ON L7L 6A8	258.1	141
Norjohn Transfer Systems Limited	5050 Mainway Burlington ON L2V 3Y8	288.6	156
Norjohn Business Park (East) Inc	1107 & 1109 Clay Ave Burlington ON L6H 0C3	290.8	158

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Mar 31, 2024 has found that there are 45 EHS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	5164, 5366, 5470 and 5900 Upper Middle Road and 5201 Mainway Burlington ON	0.0	1
	Upper Middle Road Burlington ON	0.0	12
	Mainway Burlington ON L7L 6C4	60.5	27
	5470 Upper Middle Road Burlington ON	62.0	28
	5450 Mainway Burlington ON L7L6A4	65.1	30
	5480 Mainway Burlington ON L7L 6A4	68.1	32
	Mainway and Burloak Burlington ON	76.7	36
	Burloak Drive & Mainway Oakville ON	76.7	36
	5570 and 5600 Mainway and 1240 Burloak Dr Burlington ON	79.6	37
	5219 Uppre Middle Road Burlington ON	81.0	39
	5200 Mainway Drive Burlington ON	87.2	48
	5250 Mainway Burlington ON L7L 5Z1	91.2	50

Site	Address	Distance (m)	Map Key
	n/a Burlington ON	110.3	68
	5360 Mainway Burlington ON L7L 6A4	110.3	69
	5200 Mainway Burlington ON L7L 5Z1	129.0	77
	5330 Mainway Drive Burlington ON	146.0	86
	1340 Heine Crt Burlington ON L7L6M4	162.4	93
	1989 Appleby Line Burlington ON L7L 6K3	172.0	101
	5275 John Lucas Drive Burlington ON L7L 6A8	172.8	103
	1989 Appleby Line Burlington ON L7L6K3	174.1	107
	1330 Heine Court Burlington ON	208.5	120
	1295 Sutton Drive Burlington ON L7L 6C2	213.3	122
	1963 Appleby Line Burlington ON L7L	217.9	124

Site	Address	Distance (m)	Map Key
	Appleby Line & Upper Middle Rd Burlington ON	224.7	129
	Burlington Burlington ON L7L 6A8	233.0	131
	5335 John Lucas Drive Burlington ON L7L 6A8	234.4	133
	1963 Appleby Line Burlington ON	240.4	134
	5311 John Lucas Drive Burlington ON	243.1	136
	1320 Heine Court Burlington ON L7L 6L9	255.4	139
	1320 Heine Crt Burlington ON L7L6L9	255.4	139
	1940 Ironstone Dr Burlington ON L7L0E4	257.5	140
	5295 John Lucas Dr Burlington ON L7L6A8	258.1	141
	5295 John Lucas Dr Burlington On Burlington ON L7L6A8	258.1	141
	1315 Heine Court Burlington ON L7L 6A7	259.9	143
	5284 John Lucas Dr Burlington ON L7L 5Z9	265.9	144

Site	Address	Distance (m)	Map Key
	5284 John Lucas Drive Burlington ON L7L 5Z9	265.9	145
	1200 Burloak Dr Burlington ON L7L6B4	265.9	146
	1200 Burloak Dr Burlington ON L7L6B4	265.9	146
	5335 John Lucas Dr Burlington ON L7L6A8	267.2	147
	2000 Appleby Line Burlington ON L7L 7H7	277.0	151
	5305 John Lucas Drive, Unit 1 Burlington ON L7L 6A8	280.0	152
	1960 APPLEBY LINE BURLINGTON ON L7L 0B7	286.3	155
	1893 Appleby Line Burlington ON L7L0G5	289.8	157
	1893 Appleby Line Burlington ON L7L0G5	289.8	157
	1893 Appleby Line Burlington ON L7L 6K3	289.8	157

EXP - List of Expired Fuels Safety Facilities

A search of the EXP database, dated Oct 2023 has found that there are 6 EXP site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	174.1	107
MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	174.1	107
MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	174.1	107
MAC'S CONVENIENCE STORES INC.	1989 APPLEBY LINE BURLINGTON ON	174.1	107
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154

FST - Fuel Storage Tank

A search of the FST database, dated Oct 2023 has found that there are 10 FST site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26

Site	Address	Distance (m)	Map Key
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
SUNCOR ENERGY PRODUCTS PARTNERSHIP	5600 MAINWAY BURLINGTON ON	59.5	26
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154

FSTH - Fuel Storage Tank - Historic

A search of the FSTH database, dated Pre-Jan 2010* has found that there are 6 FSTH site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
1704271 ONTARIO INC O/A GAS STN	5600 MAINWAY BURLINGTON ON L7L 6C4	59.5	26
SUNCOR ENERGY PRODUCTS INC**	5600 MAINWAY BURLINGTON ON L7L 6C4	59.5	26
VINCE COMMISSO	1989 APPLEBY LINE BURLINGTON ON L7L 6K3	174.1	107

Site	Address	Distance (m)	Map Key
VINCE COMMISSO	1989 APPLEBY LINE BURLINGTON ON L7L 6K3	174.1	107
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON	285.9	154

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Oct 31, 2022 has found that there are 317 GEN site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26

Site	Address	Distance (m)	Map Key
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Suncor Energy	5600 Mainway Burlington ON L7L 6C4	59.5	26
Hearthland	5450 Mainway Drive Burlington ON L7L 6A4	65.1	30
Hearthland	5450 Mainway Drive Burlington ON L7L 6A4	65.1	30
Hearthland	5450 Mainway Drive Burlington ON L7L 6A4	65.1	30
Infinity Group Construction	5450 Mainway Dr. Burlington ON L7L 6A4	65.1	30
Infinity Group Construction	5450 Mainway Dr. Burlington ON L7L 6A4	65.1	30
Infinity Group Construction	5450 Mainway Dr. Burlington ON L7L 6A4	65.1	30
ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	82.5	42

Site	Address	Distance (m)	Map Key
ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd	5420 Mainway Drive Unit #5 Burlington ON	82.5	42
ALS Canada Ltd	5420 Mainway Unit #1 Burlington ON L7L 6A4	82.5	42
ALS Canada Ltd	5420 Mainway Unit #1 Burlington ON L7L 6A4	82.5	42
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	86.0	47

Site	Address	Distance (m)	Map Key
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	86.0	47
Irco Automation Inc. Irco Automation Inc.	5150 Mainway, Unit #2 Burlington ON L7L 5Z1	86.0	47
Irco Automation Inc. Irco Automation Inc.	5150 Mainway, Unit #2 Burlington ON L7L 5Z1	86.0	47
Irco Automation Inc. Irco Automation Inc.	5150 Mainway, Unit #2 Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON	86.0	47
Ductmate Canada Limited	1-5150 Mainway Burlington ON	86.0	47
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON	86.0	47

Site	Address	Distance (m)	Map Key
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	86.0	47
Mcorp Technologies Inc.	5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	86.0	47
Rowhedge Construction Limited	5150 Mainway Drive Burlington ON L7L 5Z1	86.0	47
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
Melrose Investments Inc	5200 Mainway Drive Burlington ON	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON	87.2	48
Melrose Investments Inc	5200 Mainway Drive Burlington ON	87.2	48

Site	Address	Distance (m)	Map Key
Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	87.2	48
Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
Melrose Investments Inc	5200 Mainway Drive Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48
CPC PUMPS INTERNATIONAL	5200 Mainway Burlington ON L7L 5Z1	87.2	48

Site	Address	Distance (m)	Map Key
Deloitte & Touche Inc.	5540 Mainway Burlington ON L7L 6C4	90.2	49
Invitrogen Canada	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Invitrogen Canada	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Invitrogen Canada	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Life Technologies Inc	5250 Mainway Burlington ON	91.2	50
Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Life Technologies Inc	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Melrose Investments Inc.	5250 Mainway Drive Burlington ON L7L 5Z1	91.2	50

Site	Address	Distance (m)	Map Key
Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Melrose Investments Inc.	5250 Mainway Drive Burlington ON L7L 5Z1	91.2	50
Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Thermo Fisher Scientific	5250 Mainway Burlington ON L7L 5Z1	91.2	50
Konecranes Canada Inc.	5300 Mainway Burlington ON L7L6A4	94.2	53
Konecranes Canada Inc.	5300 Mainway Burlington ON L7L6A4	94.2	53
Konecranes Canada Inc.	5300 Mainway Burlington ON L7L6A4	94.2	53
Melrose Investments Inc.	5300 Mainway Burlington ON L7L 5Z1	94.2	53
Konecranes Canada Inc. Burlington	5300 Mainway Burlington ON L7L6A4	94.2	53
Melrose Investments Inc.	5300 Mainway Burlington ON L7L 5Z1	94.2	53
Konecranes Canada Inc. Burlington	5300 Mainway Burlington ON L7L6A4	94.2	53

Site	Address	Distance (m)	Map Key
Konecranes Canada Inc. Burlington	5300 Mainway Burlington ON L7L6A4	94.2	53
ORCHARD UPTOWN DEVELOPMENTS INC	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	109.1	65
WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	109.1	65
WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	109.1	65
WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	109.1	65
WILSON BLANCHARD MANAGEMENT INC.	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	109.1	65
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON	123.7	74

Site	Address	Distance (m)	Map Key
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
ALS Laboratory Group Tribology	6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	123.7	74
Tyco International of Canada Ltd.	1345 Heine Court Burlington ON L8L 6A7	129.1	78
NORMAC ADHESIVE PRODUCTS INC.	1350 HEINE COURT BURLINGTON ON L7L 6M4	133.0	79
NORMAC ADHESIVE PRODUCTS INC.	1350 HEINE COURT BURLINGTON ON L7L 6M4	133.0	79
NORMAC ADHESIVE PRODUCTS INC.	1350 HEINE COURT BURLINGTON ON L7L 6M4	133.0	79
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79

Site	Address	Distance (m)	Map Key
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79
Normac Adhesives Products Inc.	1350 Heine Court Burlington ON L7L 6M4	133.0	79
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81

Site	Address	Distance (m)	Map Key
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Corpus Christi Secondary School	5150 Upper Middle Rd. Burlington ON L7L 0E5	136.9	81
Enbridge Pipelines Inc	2249 Old Burloak Drive Burlington ON L7L 6B3	143.4	85
Enbridge Pipelines Inc	2249 Old Burloak Drive Burlington ON L7L 6B3	143.4	85
Enbridge Pipelines Inc	2249 Old Burloak Drive Burlington ON L7L 6B3	143.4	85
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z2	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L 6A4	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L 6A4	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L 6A4	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z2	146.0	86

Site	Address	Distance (m)	Map Key
Amhil Enterprises	5330 Mainway Drive Burlington ON	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z1	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z1	146.0	86
Amhil Enterprises	5330 Mainway Drive Burlington ON L7L5Z1	146.0	86
Melrose Investments Inc.	5330 Mainway Burlington ON L7L 5Z1	146.0	86
Amhil Enterprises Burlington	5330 Mainway Drive Burlington ON L7L5Z1	146.0	86
Amhil Enterprises Burlington	5330 Mainway Drive Burlington ON L7L5Z1	146.0	86
Melrose Investments Inc.	5330 Mainway Burlington ON L7L 5Z1	146.0	86
1023976 ONTARIO LIMITED	1330 SUTTON DRIVE BURLINGTON ON L7L 6R6	167.7	97
CPC Pumps International Inc.	1330 Sutton Drive Burlington ON L7L 6C2	167.7	97
Burlington City of	5011 Upper Middle Road Burlington ON	172.6	102

Site	Address	Distance (m)	Map Key
CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	172.8	103
CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	172.8	103
CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	172.8	103
CONTROLCHEM CANADA LIMITED	5275 John Lucas Drive Burlington ON L7L 6A8	172.8	103
CPC Pumps International Inc.	5275 John Lucas Drive Burlington ON L7L 6A8	172.8	103
CONTROLCHEM CANADA LIMITED	5275 JOHN LUCAS DRIVE BURLINGTON ON L7L 6A8	172.8	103
Mac's Convenience Stores Inc.	1989 Appleby Line Burlington ON L7L 6K3	174.1	107
Mac's Convenience Stores Inc.	1989 Appleby Line Burlington ON L7L 6K3	174.1	107
AMCAST INDUSTRIAL LTD.	5276 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	184.9	110
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113

Site	Address	Distance (m)	Map Key
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113

Site	Address	Distance (m)	Map Key
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Halton Region	5200 Corporate Drive Burlington ON L7L7G7	193.8	113
Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Halton Region	5200 Corporate Drive Burlington ON L7L7G7	193.8	113
Halton Region	5200 Corporate Drive Burlington ON L7L7G7	193.8	113

Site	Address	Distance (m)	Map Key
Regional Municipality of Halton Services for Seniors	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
Regional Municipality Of Halton Health Department	5200 Corporate Drive Burlington ON L7L 7G7	193.8	113
First General Services	1327 Heine Court Burlington ON L7L 6A7	202.0	118
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119

Site	Address	Distance (m)	Map Key
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
K. N. CROWDER MFG. INC.	1220 BURLOAK DR BURLINGTON ON L7L 6B3	202.7	119
JM Tek Ltd	1325 Heine Court Burlington ON L7L 6A7	211.1	121
JM Tek Ltd	1325 Heine Court Burlington ON L7L 6A7	211.1	121
Pack N Rail Ltd.	1295 Sutton Drive Burlington ON L7L 6C2	213.3	122
Kami Metals	1295 Sutton Drive Burlington ON	213.3	122
FROST PRODUCTS LTD.	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125

Site	Address	Distance (m)	Map Key
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	219.0	125

Site	Address	Distance (m)	Map Key
Halton Standard Condominium 490	2035-2045 Applyby Line Burlington ON L7L 7G8	224.6	128
KONE CRANES	1320 HEINE COURT BURLINGTON ON L7L 6L9	255.4	139
KONECRANES CANADA INC.	1320 HEINE COURT BURLINGTON ON L7L 6L9	255.4	139
Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	255.4	139
Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	255.4	139
Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	255.4	139
Classic Care Pharmacy	1320 Heine Court Burlington ON L7L 6L9	255.4	139
Nysa Membrane Technologies	5295 John Lucas dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141

Site	Address	Distance (m)	Map Key
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON	258.1	141
WILLARD MANUFACTURING INC.	5295 JOHN LUCAS DRIVE BURLINGTON ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Melrose investments Inc.	5295 John Lucas drive Burlington ON L7L 6AB	258.1	141
WILLARD MANUFACTURING INC.	5295 JOHN LUCAS DRIVE BURLINGTON ON L7L 6A8	258.1	141
Mohawk Medbuy Corporation Logistics	5295 John Lucas Drive, Unit 5 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Melrose investments Inc.	5295 John Lucas drive Burlington ON L7L 6AB	258.1	141

Site	Address	Distance (m)	Map Key
RAMPF Composite Solutions Inc.	5295 John Lucas Drive Unit 5 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Elite Pack Inc	5295 John Lucas Drive Unit 1 Burlington ON L7L 6A8	258.1	141
RAMPF Composite Solutions Inc.	5295 John Lucas Drive Unit 5 Burlington ON L7L 6A8	258.1	141
Natrix Separations Inc.	5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	258.1	141
Rootree Inc.	5295 John Lucas Drive Unit 1 Burlington ON L7L 6A8	258.1	141
US FILTERS/BLAST CLEANING PRODUCTS	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
BLAST CLEANING PRODUCTS	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144

Site	Address	Distance (m)	Map Key
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
ABS PRODUCTION INC	5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	265.9	144
SUMMO STEEL TUBING	1200 BURLOAK DRIVE BURLINGTON ON L7L 6B3	265.9	146
SUMMO STEEL TUBING	1200 BURLOAK DRIVE BURLINGTON ON L7L 6B4	265.9	146
Yale Industrial Trucks Yale Industrial Trucks	5335 John Lucas Drive Unit #5 Burlington ON L7L 6A8	267.2	147

Site	Address	Distance (m)	Map Key
Yale Industrial Trucks Yale Industrial Trucks	5335 John Lucas Drive Unit #5 Burlington ON L7L 6A8	267.2	147
Target Canada Co.	2000 APPLEBY LINE BURLINGTON ON	277.0	151
Target Canada Co.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
Target Canada Co.	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
Staveley Services Canada Inc.	5305 John Lucas Drive Burlington ON L7L 6A8	280.0	152
Applus RTD Canada	5305 John Lucas Drive Burlington ON	280.0	152
Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	280.0	152
Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	280.0	152
Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	280.0	152
Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	280.0	152
Applus RTD Canada	5305 John Lucas Drive Burlington ON L7L 6A8	280.0	152
Rowhedge construction Limited	5305 John luccas drive Burlington ON L7L 6A8	280.0	152

Site	Address	Distance (m)	Map Key
Rowhedge construction Limited	5305 John luccas drive Burlington ON L7L 6A8	280.0	152
MINISTRY OF NATURAL RESOURCES 25-085	BRONTE CREEK PROVINCIAL PARK 1219 BURLOAK DRIVE BURLINGTON ON L7R 3X5	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	BRONTE CREEK PROVINCIAL PARK 1219 BURLOAK DRIVE BURLINGTON ON L7R 3X5	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
MINISTRY OF NATURAL RESOURCES	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154

Site	Address	Distance (m)	Map Key
MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
Danosh Construction	1219 Burloak Drive Oakville ON L6M 4J7	285.9	154
MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
MINISTRY OF NATURAL RESOURCES ONTARIO PARKS	1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	285.9	154
CMLHealthCare	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155

Site	Address	Distance (m)	Map Key
2183401 Ontario Inc	36-1960 Appleby Line Burlington ON L7L 0B7	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155
2183401 Ontario Inc	36-1960 Appleby Line Burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L6A1	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155
2183401 Ontario Inc	36-1960 Appleby Line Burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155

Site	Address	Distance (m)	Map Key
2183401 Ontario Inc	34-1960 Appleby Line Burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
2183401 Ontario Inc	34-1960 Appleby Line Burlington ON L7L 0B7	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155
Blueridge OMS	31-1960 Appleby Line BURLINGTON ON L7L 0B7	286.3	155
Blueridge OMS	31-1960 Appleby Line BURLINGTON ON L7L 0B7	286.3	155
2183401 Ontario Inc	34-1960 Appleby Line Burlington ON L7L 0B7	286.3	155
GI Health Centre Inc	1960 Appleby Line, Unit 32 Burlington ON L7L 0B7	286.3	155
LifeLabs LP	1960 Appleby LINE burlington ON L7L 0B7	286.3	155
ayesof professional inc.	1893 appleby line BURLINGTON ON L7L0G5	289.8	157
Straumann Canada Limited	1109 Clay Ave., Unit 8 Burlington ON L7L 0A1	290.8	158
Straumann Canada Limited	1109 Clay Ave., Unit 8 Burlington ON L7L 0A1	290.8	158

Site	Address	Distance (m)	Map Key

HINC - TSSA Historic Incidents

A search of the HINC database, dated 2006-June 2009* has found that there are 2 HINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	2055 APPLEBY LINE BURLINGTON ON L7L 7H1	109.1	65
	1769 HOBSON DRIVE BURLINGTON ON L7L 7C9	259.2	142

INC - Fuel Oil Spills and Leaks

A search of the INC database, dated 31 Oct, 2023 has found that there are 1 INC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	1819 MCCOY AVENUE, BURLINGTON ON	280.6	153

NPR2 - National Pollutant Release Inventory 1993-2020

A search of the NPR2 database, dated Sep 2020 has found that there are 2 NPR2 site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
CONTROLCHEM CANADA INC.	5275 JOHN LUCAS DRIVE BURLINGTON ON L7L6A8	172.8	103
CONTROLCHEM CANADA INC.	5275 JOHN LUCAS DRIVE BURLINGTON ON L7L6A8	172.8	103

NPRI - National Pollutant Release Inventory - Historic

A search of the NPRI database, dated 1993-May 2017 has found that there are 1 NPRI site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ZELLERS	2000 APPLEBY Line BURLINGTON ON L7L6M5	277.0	151

PAP - Canadian Pulp and Paper

A search of the PAP database, dated 1999, 2002, 2004, 2005, 2009-2014 has found that there are 1 PAP site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Eaton Electrical - Div. of Eaton Corp.	5050 Main Way Burlington ON L7L 5Z1	288.6	156

PES - Pesticide Register

A search of the PES database, dated Oct 2011-Jun 30, 2024 has found that there are 7 PES site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
ZELLERS STORE #487 - MILLCROFT CENTRE	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
RRG LANDSCAPING INC.	191 - 2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
TARGET CANADA CO. STORE# T3761	2000 APPLEBY LINE BURLINGTON ON L7L7H7	277.0	151
RRG LANDSCAPING INC.	191 - 2000 APPLEBY LINE BURLINGTON ON L7L7H7	277.0	151
ZELLERS STORE #487 - MILLCROFT CENTRE	2000 APPLEBY LINE BURLINGTON ON L7L 7H7	277.0	151
ZELLERS STORE #487 - MILLCROFT CENTRE	2000 APPLEBY LINE BURLINGTON ON L7L6M5	277.0	151

Site	Address	Distance (m)	Map Key
TOTAL LANDSCAPING & SUPPLY	5178 THORNBURN DR BURLINGTON ON L7L 6K9	295.1	160

PINC - Pipeline Incidents

A search of the PINC database, dated Feb 28, 2021 has found that there are 1 PINC site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	2000 Appleby Line, Unit J, Burlington ON	277.0	151

PRT - Private and Retail Fuel Storage Tanks

A search of the PRT database, dated 1989-1996* has found that there are 2 PRT site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON L7R3X5	285.9	154
BRONTE CREEK PROV PARK ATTN JIM MCNABB	1219 BURLOAK DR BURLINGTON ON L7R 3X5	285.9	154

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Apr 30, 2024 has found that there are 2 RST site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
COMMISSO ESSO	1989 APPLEBY LINE ON L7L 6K3	174.1	107
COMMISSO ESSO	1989 APPLEBY LINE BURLINGTON ON L7L 6K3	174.1	107

Site	Address	Distance (m)	Map Key

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 47 SCT site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Hearthland Fireplaces Limited	5450 Mainway Burlington ON L7L 6A4	65.1	30
FLOMETRICO LTD.	5480 MAINWAY DR BURLINGTON ON L7L 6A4	68.1	32
Flometrico Ltd.	5480 Mainway Burlington ON L7L 6A4	68.1	32
Peerless Pump Canada Inc.	5480 Mainway Burlington ON L7L 6A4	68.1	32
VE-GO Engineering Inc.	5420 Mainway Unit 3 Burlington ON L7L 6A4	82.5	42
M&H Probing Systems Ltd.	5420 Mainway Unit 2D Burlington ON L7L 6A4	82.5	42
MCorp Technologies, Inc.	5150 Mainway Unit 2 Burlington ON L7L 5Z1	86.0	47
MTI Preforms Limited	5150 Mainway Unit 2 Burlington ON L7L 5Z1	86.0	47
CPC Pumps International Ltd.	5200 Mainway Burlington ON L7L 5Z1	87.2	48

Site	Address	Distance (m)	Map Key
DIE-X-LIMITED	5540 MAINWAY DR BURLINGTON ON L7L 6C4	90.2	49
AUTOMATED FLUID POWER	5540 Mainway Dr Unit 1-2 Burlington ON L7L 6C4	90.2	49
Automated Fluid Power & Control Inc.	5540 Mainway Dr Unit 1-2 Burlington ON L7L 6C4	90.2	49
Automated Fluid Power	5540 Mainway Burlington ON L7L 6C4	90.2	49
Noram Solutions	5510 Mainway Dr Burlington ON L7L 6C4	103.5	59
Noram Solutions	5510 Mainway Burlington ON L7L 6C4	103.5	59
Barton Medical Canada Inc.	5510 Mainway Burlington ON L7L 6C4	103.5	59
Normac Adhesive Products Inc.	1350 Heine Crt Burlington ON L7L 6M4	133.0	79
Shaw-Almex Fusion Canada	1350 Heine Crt Burlington ON L7L 6M4	133.0	79
Amhil Enterprises	5330 Mainway Dr Burlington ON L7L 6A4	146.0	86
Wentworth Technologies Company	5330 Mainway Burlington ON L7L 5Z1	146.0	86
Global Xposure - Div. of Jimmy Tees Inc.	1816 Hobson Dr Burlington ON L7L 6L7	150.2	87

Site	Address	Distance (m)	Map Key
Global Xposure	1816 Hobson Dr Burlington ON L7L 6L7	150.2	87
Higginson Equipment Sales	1330 Sutton Dr Burlington ON L7L 6R6	167.7	97
ControlChem Canada Ltd.	5275 John Lucas Dr Burlington ON L7L 6A8	172.8	103
CONTROLCHAM CANADA LTD.	5275 JOHN LUCAS DR BURLINGTON ON L7L 6A8	172.8	103
CANADIAN COUNTRY CANDLES	1329 HEINE CRT BURLINGTON ON L7L 6A7	186.0	111
Cantex Coatings Ltd.	1329 Heine Crt Burlington ON L7L 6A7	186.0	111
ON LINE EMBOSSING SERVICES	1327 HEINE CRT BURLINGTON ON L7L 6A7	202.0	118
LAYDON INDUSTRIES INC.	1327 HEINE CRT BURLINGTON ON L7L 6A7	202.0	118
K.N. Crowder Mfg. Inc.	1220 Burloak Dr Burlington ON L7L 6B3	202.7	119
Pack-N-Rail Ltd.	1295 Sutton Dr Burlington ON L7L 6C2	213.3	122
FROST PRODUCTS LIMITED	5280 JOHN LUCAS DR BURLINGTON ON L7L 5Z9	219.0	125

Site	Address	Distance (m)	Map Key
Frost Products Ltd.	5280 John Lucas Dr Burlington ON L7L 5Z9	219.0	125
KONECRANES CANADA INC.	1320 Heine Crt Burlington ON L7L 6L9	255.4	139
Provincial Konecranes Inc.	1320 Heine Crt Burlington ON L7L 6L9	255.4	139
Crane Pro Parts - Div. of Konecranes	1320 Heine Crt Burlington ON L7L 6L9	255.4	139
Summo Steel Corp.	1200 Burloak Dr Burlington ON L7L 6B4	265.9	146
CARTER HOLT HARVEY ROOFING INC	1200 BURLOAK DR UNIT 3 BURLINGTON ON L7L 6B4	265.9	146
Mortimer's Fine Foods Inc.	5341 John Lucas Dr Burlington ON L7L 6A8	270.8	148
MORTIMER'S FINE FOODS	5341 JOHN LUCAS DR BURLINGTON ON L7L 6A8	270.8	148
Häfele Canada Inc.	5323 John Lucas Dr Burlington ON L7L 6A8	276.4	149
Gemalto Canada Inc.	5347 John Lucas Dr Burlington ON L7L 6A8	276.7	150
Safetran Canada Inc.	5347 John Lucas Dr Burlington ON L7L 6A8	276.7	150
FOSTER TECHNOLOGIES INC.	5347 JOHN LUCAS DR BURLINGTON ON L7L 6A8	276.7	150

Site	Address	Distance (m)	Map Key
L. E. Taylor Associates Ltd.	5305 John Lucas Dr Burlington ON L7L 6A8	280.0	152
Eaton Corporation	5050 Mainway Burlington ON L7L 5Z1	288.6	156
Eaton Yale Corporation	5050B Mainway Burlington ON L7L 5Z1	288.6	156

SPL - Ontario Spills

A search of the SPL database, dated 1988-Jan 2023; see description has found that there are 10 SPL site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Enbridge Pipelines Inc.	corner of Upper Middle and Burloak Dr Oakville ON	29.8	19
ENBRIDGE PIPELINES INC.	LOT#35, CONCESSION #2\UPPER MIDDLE RD & BURLOAK RD PIPELINE/COMPRESSOR STATION OAKVILLE TOWN ON	29.8	19
BURLINGTON HYDRO-ELECTRIC COMM	5119 FALCONCREST RD UPPER MIDDLE RD & APPLEBY LINE TRANSFORMER BURLINGTON CITY ON L7L 6K3	63.3	29
	5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	82.5	42
ControlChem Canada Ltd.	5275 John Lucas Dr Burlington ON L7L 6A8	172.8	103
Burlington Hydro	1220 Burloak Dr Burlington ON	202.7	119

Site	Address	Distance (m)	Map Key
	1330 Heine Court, Burlington BURLINGTON ON	208.5	120
Hazmat Environmental Group Ltd. <UNOFFICIAL>	1295 Sutton Drive Burlington ON L7L 6C2	213.3	122
Burlington Hydro	1822 Imperial Way Burlington ON	249.1	138
	Appleby Line and Heron Way, Burlington ON	297.5	161

VAR - Variances for Abandonment of Underground Storage Tanks

A search of the VAR database, dated Feb 28, 2022 has found that there are 1 VAR site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
LISA LISSON	2075 APPLEBY LINE,UNIT # 209, BURLINGTON,ON,L7L 7H3,CA ON	233.8	132

WDS - Waste Disposal Sites - MOE CA Inventory

A search of the WDS database, dated Oct 2011-Jun 30, 2024 has found that there are 1 WDS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
Walker Environmental Group Inc.	5030 Mainway Burlington ON L7L 5Z1	85.0	46

WDSH - Waste Disposal Sites - MOE 1991 Historical Approval Inventory

A search of the WDSH database, dated Up to Oct 1990* has found that there are 1 WDSH site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	1 2 BURLINGTON ON	0.0	2

WWIS - Water Well Information System

A search of the WWIS database, dated Dec 31 2023 has found that there are 72 WWIS site(s) within approximately 0.30 kilometers of the project property.

Site	Address	Distance (m)	Map Key
	SOUTHWEST BURLOAK AND UPPER MIDDLE Burlington ON ***Well ID:*** 7114329	0.0	4
	SOUTHWEST BURLOAK & UPPERMIDDLE Burlington ON ***Well ID:*** 7114254	0.0	5
	SOUTHWEST BURLOAK Burlington ON ***Well ID:*** 7114249	0.0	6
	SOUTH WEST &V UPPER MIDDLE BURLINGTON ON ***Well ID:*** 7114257	0.0	7
	lot 1 con 2 ON ***Well ID:*** 2800246	0.0	8
	SOUTH WEST BULOAK & UPPER MIDDLE BURLINGTON ON ***Well ID:*** 7114258	0.0	9
	SOTHWEST UPPERVEDDLE PURCELL Burlington ON ***Well ID:*** 7114252	0.0	10
	SOUTHWEST UPPERMIDDLE BURLOAK Burlington ON ***Well ID:*** 7114253	0.0	11
	5516 JOHN L DRIVE lot 2 con 2 BURLINGTON ON	10.9	14

Site	Address	Distance (m)	Map Key
	Well ID: 2809887		
	UPPER MIDDLE ROAD & APPLEBY Burlington ON ***Well ID:*** 7253139	17.2	15
	5164 UPPER MIDDLE RD lot 3-4 Burlington ON ***Well ID:*** 7100721	22.2	16
	163M SOUTH OF BRONTE PROVINCIAL PARK OAKVILLE ON ***Well ID:*** 7267355	37.5	20
	162M SOUTH OF BRONTE PROVINCIAL PARK OAKVILLE ON ***Well ID:*** 7267356	37.6	21
	lot 1 con 2 ON ***Well ID:*** 2805095	38.2	22
	ON ***Well ID:*** 7262592	45.7	23
	NW CORNER UPPER MIDDLE ON ***Well ID:*** 7105627	47.9	24
	lot 35 con 2 ON ***Well ID:*** 2802409	67.9	31
	5600, 5570 MAUCUAY & BULEK (1240) BURLINGTON ON ***Well ID:*** 2810452	68.2	33
	NW CORNER OF BURLOAK & UPPERMIDDLE Burlington ON ***Well ID:*** 7105625	69.0	34
	lot 35 con 2 ON ***Well ID:*** 2802406	80.6	38

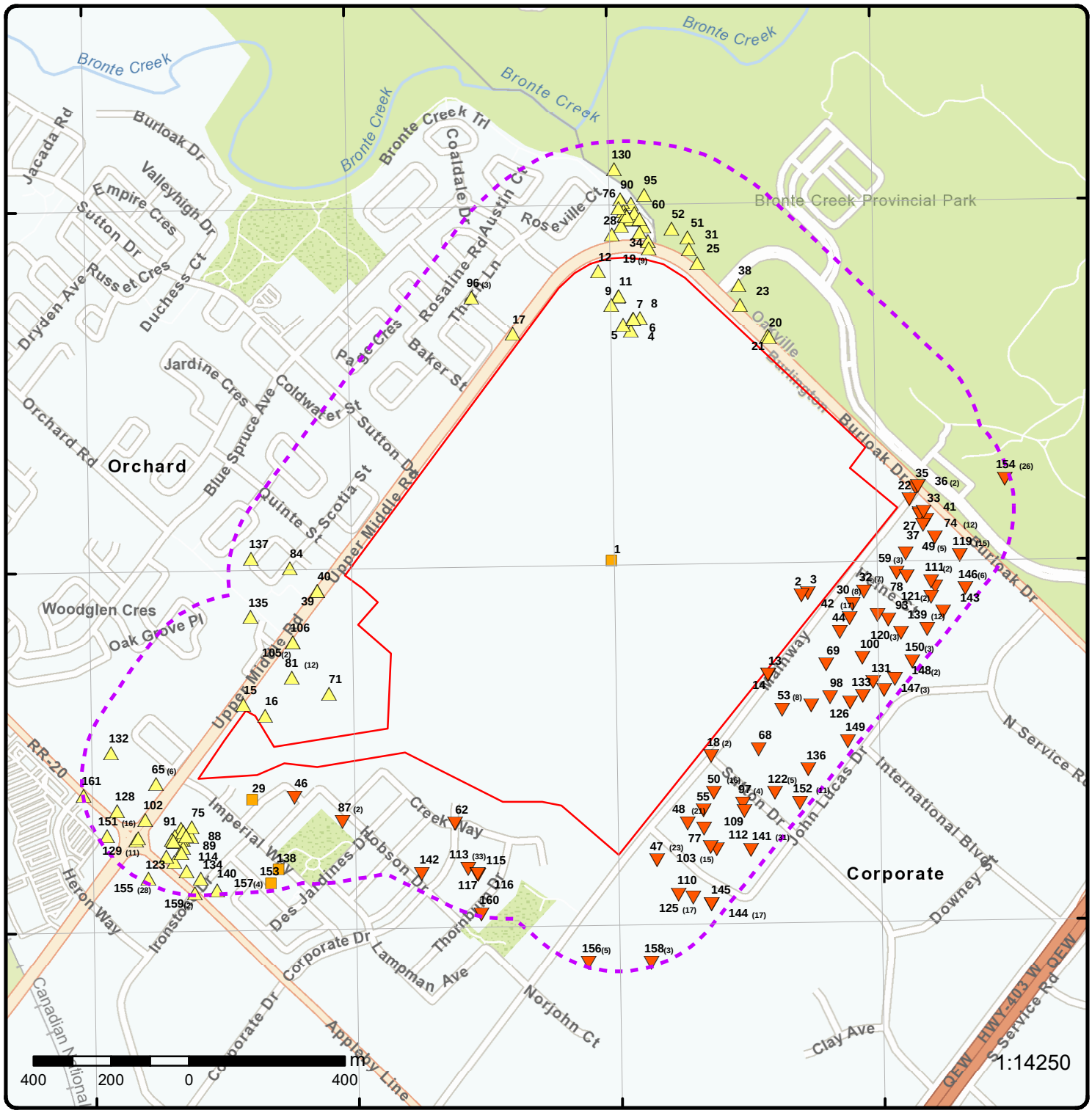
Site	Address	Distance (m)	Map Key
	5570 MAINWAY BURLINGTON ON ***Well ID:*** 2810465	81.6	41
	SOUTH WEST INTERSECTION OF BURLOAK & UPPER MIDDLE Burlington ON ***Well ID:*** 7105631	82.5	43
	John Lucas Drive & Sutton Drive lot 1 con 2 Burlington ON ***Well ID:*** 7405082	84.8	44
	NW CORNER OF UPPER MIDDLE & BURLOAK lot 1 Burlington ON ***Well ID:*** 7108932	84.9	45
	lot 35 con 2 ON ***Well ID:*** 2802408	91.6	51
	lot 35 con 2 ON ***Well ID:*** 2802407	93.4	52
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197924	99.1	54
	lot 3 con 2 ON ***Well ID:*** 7382370	99.4	55
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197928	100.0	56
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197927	100.1	57
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197923	102.1	58
	UPPER MIDDLE RD AND BURLOAD DR Burlington ON	103.9	60

Site	Address	Distance (m)	Map Key
	Well ID: 7114250		
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197930	104.4	61
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197929	107.3	63
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197926	108.2	64
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197931	110.2	66
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197921	110.2	67
	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON ***Well ID:*** 7197922	110.2	67
	OLD BURLOAK DR. PIPELINE EASEMENT BURLINGTON ON ***Well ID:*** 7197925	111.2	70
	5164 UPPERMIDDLE RD lot 2 con 2 BURLINGTON ON ***Well ID:*** 7042975	113.3	71
	OAKVILLE,ONT lot 35 con 2 ON ***Well ID:*** 2809963	116.8	72
	NW CORNER UPPERMIDDLE ON ***Well ID:*** 7105624	120.2	73
	S/W CORNER lot 5 con 2 BURLINGTON ON ***Well ID:*** 7039196	126.4	75

Site	Address	Distance (m)	Map Key
	UPPER MIDDLE RD AND BURLOAD DR ON ROAD Burlington ON ***Well ID:*** 7114255	128.9	76
	1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415624	135.9	80
	OLD BURLOAK DR lot 35 con 2 Burlington ON ***Well ID:*** 7331635	140.1	82
	ON ***Well ID:*** 7417282	142.4	83
	lot 4 con 1 ON ***Well ID:*** 2809655	142.9	84
	1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415625	150.3	88
	ON ***Well ID:*** 7417283	151.4	89
	UPPER MIDDLE RD AND BURLOAK DR ON ROAD Burlington ON ***Well ID:*** 7114256	151.5	90
	ON ***Well ID:*** 7404746	158.1	91
	ON ***Well ID:*** 7404747	161.3	92
	ON ***Well ID:*** 7404748	163.6	94
	OLD BURLOAK DR lot 35 con 2 Burlington ON	165.7	95

Site	Address	Distance (m)	Map Key
	Well ID: 7331634		
	5329 John Lucas Drive lot 2 con 2 Burlington ON ***Well ID:*** 7338355	169.6	98
	ON ***Well ID:*** 7404749	171.3	99
	5329 John Lucas Drive lot 1 con 2 Burlington ON ***Well ID:*** 7338356	171.8	100
	1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415622	173.5	104
	ON ***Well ID:*** 7404750	180.5	108
	lot 3 con 2 ON ***Well ID:*** 7382371	182.6	109
	lot 3 con 2 ON ***Well ID:*** 7382361	187.9	112
	ON ***Well ID:*** 7404751	196.0	114
	5200 CORPORATE DR Burlington ON ***Well ID:*** 7180404	198.0	115
	5200 CORPORATE DR Burlington ON ***Well ID:*** 7180402	198.4	116
	5200 CORPORATE DR Burlington ON ***Well ID:*** 7180403	198.7	117

Site	Address	Distance (m)	Map Key
	ON ***Well ID:*** 7417284	216.4	123
	5329 JOHN LUCAS DR. Burlington ON ***Well ID:*** 7255960	219.4	126
	1989 Applyby Line lot 5 con 2 Burlington ON ***Well ID:*** 7415623	223.0	127
	lot 35 con 1 ON ***Well ID:*** 2803728	230.3	130
	lot 5 con 1 ON ***Well ID:*** 2809604	241.4	135
	lot 4 con 1 ON ***Well ID:*** 2809656	245.4	137



Map: 0.3 Kilometer Radius

Order Number: 24081200485

Address: Phase One Environmental Site Assessment - Bronte Creek Meadows, Burlington, ON

ERIS

- Project Property
- Buffer Outline
- Eris Sites with Higher Elevation
- Eris Sites with Same Elevation
- Eris Sites with Lower Elevation
- Eris Sites with Unknown Elevation
- Freeways; Highways
- Traffic Circle; Ramp
- Major Arterial; Minor Arterial
- Local Road
- Service Road; Traffic Circle; Ramp
- Rail
- Beach
- Airport
- Industrial Area
- Military Base
- Aircraft Roads
- Native Reservation
- Hospital
- Shopping & Sports Area
- University/College
- Cemetery; Golf Course
- Parkt (National)
- Park (City/County)

Source: © 2021 ESRI StreetMap Premium.

© ERIS Information Limited Partnership

79°46'30"W

43°24'N



43°24'N

Aerial

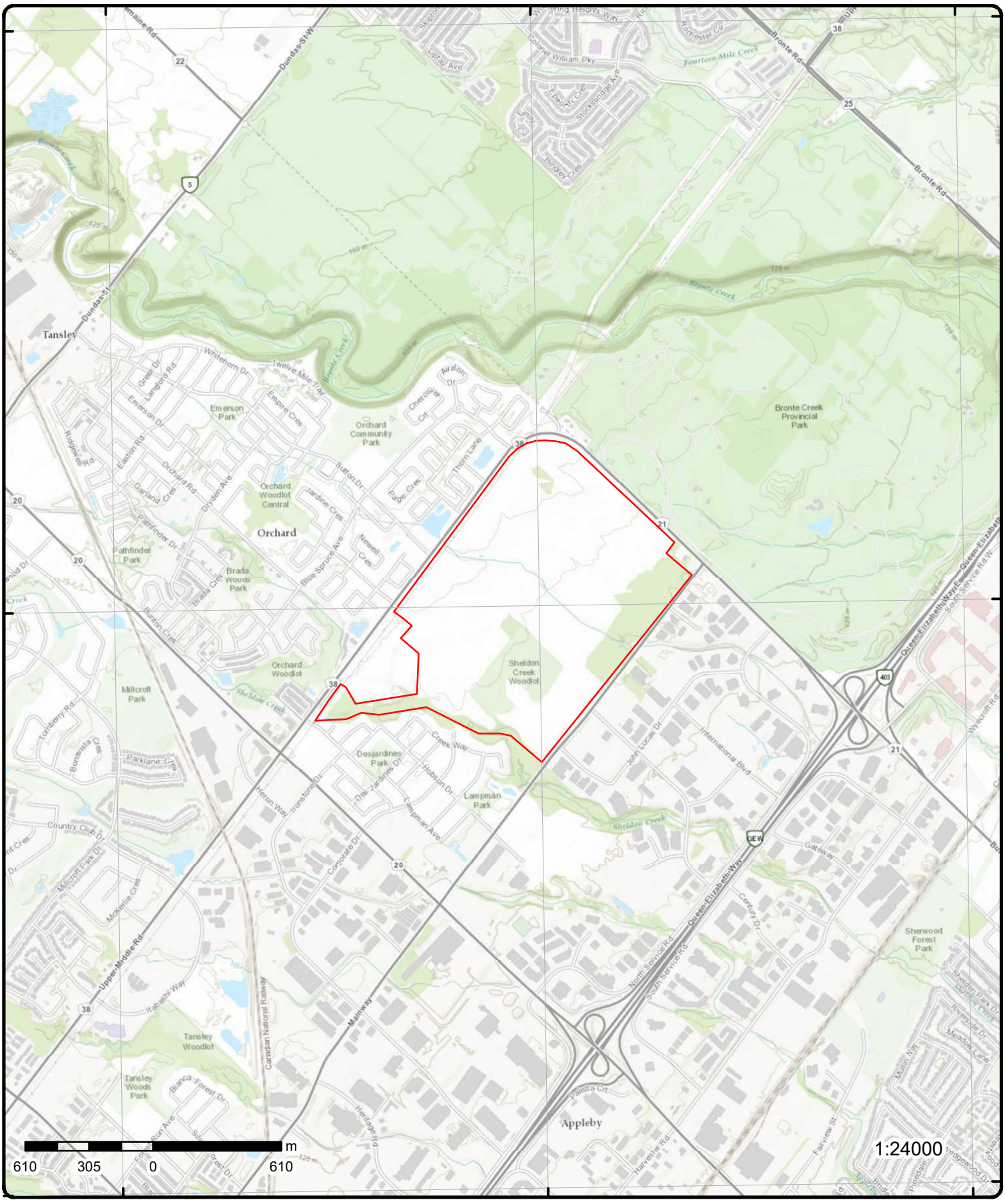
Year: 2023

Order Number: 24081200485

Address: Phase One Environmental Site Assessment - Bronte Creek Meadows

Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Order Number: 24081200485

Address: Phase One Environmental Site Assessment - Bronte Creek Meadows

Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
1	1 of 1	ESE/0.0	136.8 / 0.00	5164, 5366, 5470 and 5900 Upper Middle Road and 5201 Mainway Burlington ON	EHS

Order No:	20160226123	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	07-MAR-16	**Search Radius (km):**	.1
Date Received:	26-FEB-16	**X:**	-79.775111
Previous Site Name:		**Y:**	43.400101
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
2	1 of 1	E/0.0	131.9 / -4.94	1 2 BURLINGTON ON	WDSH

Site No.:	A210103
Region:	CENTRAL
County:	HALTON
Concession:	2
Lot:	1
Easting:	599680
Northing:	4805670
Zone:	17
Date Closed:	1974/8/15
Status:	CLOSED
Classification:	A1 - POTENTIAL HUMAN IMPACT-URBAN INDUSTRIAL LIQUID/HAZARDOUS WASTES
%CommericialWste:	n/a
%DomesticWste Rec:	n/a
%LiquidWste Rec:	n/a
%HazardousWste Rec:	n/a
%Non-haz.Wste Rec:	n/a
%Sewage/Sludge Rec:	n/a
%Other Wste Rec:	n/a

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
3	1 of 1	E/0.0	131.8 / -5.09	Trafalgar Con 1 SDS Dump Burlington ON L7	ANDR

Legal Description:	Trafalgar Con 1 SDS Lot 7
Location Description:	N of gas pipeline, S of Highway 5 [Dundas St], adj. Millcroft Pk Dr, nr Sheldon Ck
Municipality:	Burlington City
Current Municipality:	Burlington City
RM:	Halton Region
Facility:	Dump
Date Active:	1970s
Date Begun:	
Date Complete:	Aug 15 1974
Area (Ha):	
Landfill Type:	
Group Name:	Sheldon Creek
Operated By:	

Serial: MOEE a210103
NTS: 30M05
Diameter (m):

Historical Summary:

Trafalgar Con 1 SDS Dump MOEE 1994 Burlington Con 2 SDS lot 1 cited as a closed wsate disposal site [Ontario Ministry of the Environment [1994] Waste disposal site inventory, [Toronto]: Ontario Environment, 1994., i, 196 pp., maps, ISBN 0772984093: 109]. Datapoint plots to Trafalgar Con 1 SDS lot 7. 1996 MapArt Datapoint plots to N of gas pipeline, S of Highway 5 [Dundas St], adj. Millcroft Pk Dr, near Sheldon Ck ([1996] MapArt Corporation, Golden Horseshoe Atlas, 1996 Edition, ISBN 1-55198-384-2).

Waste Type:
UTM X Nad 27: 599680
UTM Y Nad 27: 4805670
UTM Zone: 17

---

4 | **1 of 1** | **NNE/0.0** | **142.7 / 5.86** | **SOUTHWEST BURLOAK AND UPPER MIDDLE**
Burlington ON | **WWIS**

Well ID:	7114329	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	0	**Date Received:**	10/31/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z60571	**Contractor:**	6607
Tag:	A062339	**Form Version:**	4
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: BURLINGTON CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114329.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/15/2008
Year Completed: 2008
Depth (m): 10.7
Latitude: 43.4054198934399
Longitude: -79.7743848156591
X: -79.77438466690421
Y: 43.40541989062613
Path: 711\7114329.pdf

Bore Hole Information

Bore Hole ID:	1001859358	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599239.00
Code OB Desc:		**North83:**	4806567.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3

Date Completed: 04/15/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1002547304
Layer: 2
Color: 7
General Color: RED
Material 1: 06
Material 1 Desc: SILT
Material 2: 17
Material 2 Desc: SHALE
Material 3:
Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 10.699999809265137
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002547303
Layer: 1
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547308
Layer: 3
Plug From: 7.699999809265137
Plug To: 9.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547306
Layer: 1
Plug From: 0.0
Plug To: 1.399999976158142
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID:	1002547307
Layer:	2
Plug From:	3.200000047683716
Plug To:	4.599999904632568
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1002547312
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Pipe Information

Pipe ID:	1002547302
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002547310
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	9.100000381469727
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002547311
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	
Screen Diameter UOM:	
Screen Diameter:	

Water Details

Water ID:	1002547309
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	3.9000000953674316
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1002547305
Diameter:	9.600000381469727

Depth From:
Depth To: 10.699999809265137
Hole Depth UOM: m
Hole Diameter UOM: cm

---

5 | **1 of 1** | **N/0.0** | **142.9 / 6.08** | **SOUTHWEST BURLOAK & UPPERMIDDLE**
Burlington ON | **WWIS**

Well ID:	7114254	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	10/31/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z60570	**Contractor:**	6607
Tag:	A062338	**Form Version:**	4
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: BURLINGTON CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114254.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/14/2008
Year Completed: 2008
Depth (m): 10.7
Latitude: 43.405557708219
Longitude: -79.7746413879776
X: -79.77464123913056
Y: 43.405557705358426
Path: 711\7114254.pdf

Bore Hole Information

Bore Hole ID:	1001858197	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599218.00
Code OB Desc:		**North83:**	4806582.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	04/14/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock

Materials Interval

Formation ID:	1002547014
Layer:	2
Color:	7
General Color:	RED
Material 1:	06
Material 1 Desc:	SILT
Material 2:	17
Material 2 Desc:	SHALE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.5
Formation End Depth:	10.699999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1002547013
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	06
Material 2 Desc:	SILT
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002547018
Layer:	3
Plug From:	3.200000047683716
Plug To:	4.599999904632568
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002547017
Layer:	2
Plug From:	7.699999809265137
Plug To:	9.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002547016
Layer:	1
Plug From:	0.0
Plug To:	1.399999976158142
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID: 1002547023
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1002547012
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002547020
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 9.100000381469727
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002547021
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1002547019
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 1.7999999523162842
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1002547015
Diameter: 9.600000381469727
Depth From:
Depth To: 10.699999809265137
Hole Depth UOM: m
Hole Diameter UOM: cm

6	1 of 1	NNE/0.0	143.2 / 6.37	SOUTHWEST BURLOAK Burlington ON	WWIS

Well ID: 7114249
Construction Date:
Use 1st: Monitoring
Flowing (Y/N):
Flow Rate:
Data Entry Status:

Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	10/31/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	M01258	**Contractor:**	6607
Tag:	A062357	**Form Version:**	5
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	

Municipality: BURLINGTON CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114249.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/18/2008
Year Completed: 2008
Depth (m): 7.5
Latitude: 43.4056984380043
Longitude: -79.7743297987921
X: -79.77432964957768
Y: 43.405698435708466
Path: 711\7114249.pdf

Bore Hole Information

Bore Hole ID:	1001858182	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599243.00
Code OB Desc:		**North83:**	4806598.00
Open Hole:	No	**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	04/18/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1002702017
Layer: 1
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 06
Material 2 Desc: SILT
Material 3:
Material 3 Desc:

Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002702018
Layer: 2
Color:
General Color:
Material 1: 17
Material 1 Desc: SHALE
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 7.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002702022
Layer: 2
Plug From: 0.4000000059604645
Plug To: 4.199999809265137
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002702021
Layer: 1
Plug From: 0.0
Plug To: 0.4000000059604645
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1002702027
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction: BORING

Pipe Information

Pipe ID: 1002702016
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002702024
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0

Depth To:	4.5
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002702025
Layer:	1
Slot:	10
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	

Water Details

Water ID:	1002702023
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	6.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1002702019
Diameter:	15.0
Depth From:	0.0
Depth To:	4.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1002702020
Diameter:	9.600000381469727
Depth From:	4.5
Depth To:	7.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

7 | ***1 of 1*** | ***NNE/0.0*** | ***143.2 / 6.37*** | ***SOUTH WEST &V UPPER MIDDLE BURLINGTON ON*** | ***WWIS***

Well ID:	7114257	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	10/31/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z86825	**Contractor:**	6607
Tag:	A069629	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	

Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114257.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/21/2008
Year Completed:	2008
Depth (m):	10.6
Latitude:	43.4056981732961
Longitude:	-79.7743051039602
X:	-79.77430495489835
Y:	43.40569817073891
Path:	711\7114257.pdf

Bore Hole Information

Bore Hole ID:	1001858206	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599245.00
Code OB Desc:		**North83:**	4806598.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	04/21/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1001945866
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	28
Material 2 Desc:	SAND
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.5999999046325684
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1001945867
Layer:	2
Color:	6

General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	15
Material 2 Desc:	LIMESTONE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	2.5999999046325684
Formation End Depth:	10.600000381469727
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001945870
Layer:	2
Plug From:	0.4000000059604645
Plug To:	9.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001945869
Layer:	1
Plug From:	
Plug To:	0.4000000059604645
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1001945875
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1001945865
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1001945872
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	9.100000381469727
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1001945873
Layer:	1
Slot:	10

Screen Top Depth:	9.100000381469727
Screen End Depth:	10.600000381469727
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.199999809265137

Water Details

Water ID:	1001945871
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	7.099999904632568
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1001945868
Diameter:	7.599999904632568
Depth From:	0.0
Depth To:	10.600000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

8 | ***1 of 1*** | ***NNE/0.0*** | ***142.9 / 6.10*** | ***lot 1 con 2 ON*** | ***WWIS***

Well ID:	2800246	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	10/31/1963
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	1612
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2800246.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/26/1963
Year Completed:	1963
Depth (m):	15.8496
Latitude:	43.4057139807822
Longitude:	-79.7740997737376
X:	-79.77409962524104
Y:	43.405713978768404
Path:	280\2800246.pdf

Bore Hole Information

Bore Hole ID:	10146803	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599261.60
Code OB Desc:		***North83:***	4806600.00
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	5
Date Completed:	10/26/1963	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	p5

Location Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931421503
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931421502
Layer: 1
Color:
General Color:
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931421504
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE

Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 12.0
Formation End Depth: 52.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962800246
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10695373
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930249771
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 12.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930249772
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 52.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 992800246
Pump Set At:
Static Level: 12.0
Final Level After Pumping: 48.0
Recommended Pump Depth:
Pumping Rate: 1.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR

Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933601464
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	51.0
Water Found Depth UOM:	ft

---

9 | ***1 of 1*** | ***N/0.0*** | ***143.9 / 7.03*** | ***SOUTH WEST BULOAK & UPPER MIDDLE BURLINGTON ON*** | ***WWIS***

Well ID:	7114258	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	10/31/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z86826	**Contractor:**	6607
Tag:	A069630	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114258.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/22/2008
Year Completed:	2008
Depth (m):	10.6
Latitude:	43.4060207989547
Longitude:	-79.7750025566735
X:	-79.77500240753356
Y:	43.40602079635522
Path:	711\7114258.pdf

Bore Hole Information

Bore Hole ID:	1001858209	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599188.00
Code OB Desc:		**North83:**	4806633.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	04/22/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1001945879
Layer: 1
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 3.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001945880
Layer: 2
Color: 6
General Color: BROWN
Material 1: 17
Material 1 Desc: SHALE
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth: 3.0
Formation End Depth: 10.600000381469727
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001945885
Layer: 3
Plug From: 3.0
Plug To: 4.5
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001945883
Layer: 1
Plug From: 0.0
Plug To: 0.4000000059604645
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001945886
Layer: 4
Plug From: 7.599999904632568
Plug To: 9.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001945884
Layer: 2
Plug From: 0.4000000059604645
Plug To: 1.2999999523162842
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1001945895
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1001945878
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001945890
Layer: 3
Material: 5
Open Hole or Material: PLASTIC
Depth From: 7.599999904632568
Depth To: 9.100000381469727
Casing Diameter: 36.20000076293945
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1001945888
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 1.5
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1001945889
Layer: 2
Material: 5
Open Hole or Material: PLASTIC

Depth From:	3.0
Depth To:	4.599999904632568
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1001945892
Layer:	2
Slot:	10
Screen Top Depth:	3.5999999046325684
Screen End Depth:	7.599999904632568
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.199999809265137

Construction Record - Screen

Screen ID:	1001945891
Layer:	1
Slot:	10
Screen Top Depth:	1.5
Screen End Depth:	3.0
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.199999809265137

Construction Record - Screen

Screen ID:	1001945893
Layer:	3
Slot:	10
Screen Top Depth:	4.099999904632568
Screen End Depth:	10.600000381469727
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	4.199999809265137

Water Details

Water ID:	1001945887
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	0.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1001945882
Diameter:	9.600000381469727
Depth From:	4.5
Depth To:	10.600000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID: 1001945881
Diameter: 21.0
Depth From: 0.0
Depth To: 4.5
Hole Depth UOM: m
Hole Diameter UOM: cm

---

10 | **1 of 1** | **N/0.0** | **144.8 / 7.97** | **SOTHWEST UPPERVEDDLE PURCELL Burlington ON** | **WWIS**

Well ID: 7114252
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z60558
Tag: A054649
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 10/31/2008
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 4
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114252.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/17/2008
Year Completed: 2008
Depth (m): 10.6
Latitude: 43.4062076001027
Longitude: -79.7747888386689
X: -79.77478869029407
Y: 43.406207597787485
Path: 711\7114252.pdf

Bore Hole Information

Bore Hole ID: 1001858191
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/17/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599205.00
North83: 4806654.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1002546951
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0999999046325684
Formation End Depth: 10.600000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002546950
Layer: 1
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0999999046325684
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002546954
Layer: 2
Plug From: 0.30000001192092896
Plug To: 8.899999618530273
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002546953
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1002546959
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID:	1002546949
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002546956
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	9.100000381469727
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002546957
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	
Screen Diameter UOM:	
Screen Diameter:	

Water Details

Water ID:	1002546955
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	5.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1002546952
Diameter:	7.599999904632568
Depth From:	
Depth To:	10.600000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
11	1 of 1	N/0.0	144.8 / 7.97	SOUTHWEST UPPERMIDDLE BURLOAK Burlington ON	WWIS

Well ID:	7114253	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	10/31/2008
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z60559	***Contractor:***	6607
Tag:	A059198	***Form Version:***	4

Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114253.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/16/2008
Year Completed:	2008
Depth (m):	7.5
Latitude:	43.4062343426498
Longitude:	-79.774763599215
X:	-79.77476345033519
Y:	43.406234340438026
Path:	711\7114253.pdf

Bore Hole Information

Bore Hole ID:	1001858194	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599207.00
Code OB Desc:		**North83:**	4806657.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	04/16/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1002546988
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	2.700000047683716
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1002546989
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	15
Material 2 Desc:	LIMESTONE
Material 3:	
Material 3 Desc:	
Formation Top Depth:	2.700000047683716
Formation End Depth:	7.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002546991
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1002546992
Layer:	2
Plug From:	0.30000001192092896
Plug To:	4.300000190734863
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1002546997
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1002546987
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002546994
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	4.5
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Construction Record - Screen

Screen ID: 1002546995
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1002546993
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 3.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1002546990
Diameter: 9.600000381469727
Depth From:
Depth To: 7.5
Hole Depth UOM: m
Hole Diameter UOM: cm

---

12 | ***1 of 1*** | ***N/0.0*** | ***144.8 / 8.00*** | ***Upper Middle Road Burlington ON*** | ***EHS***

Order No: 20071016009
Status: C
Report Type: CAN - Complete Report
Report Date: 10/24/2007
Date Received: 10/16/2007
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans
Nearest Intersection: Burloak Drive
Municipality:
Client Prov/State:
Search Radius (km): 0.25
X: -79.775402
Y: 43.406802

---

13 | ***1 of 1*** | ***ESE/10.3*** | ***131.8 / -5.00*** | ***Jannock Properties Limited North Service Road Burlington ON L5L 4M1*** | ***ECA***

Approval No: 3146-56LQH6
Approval Date: 2002-01-23
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-Municipal and Private Water Works
Project Type: Municipal and Private Water Works
Business Name: Jannock Properties Limited
Address: North Service Road
Full Address:
Full PDF Link:
PDF Site Location:
MOE District: Halton-Peel
City:
Longitude: -79.7702
Latitude: 43.397400000000005
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
14	1 of 1	ESE/10.9	131.8 / -5.00	5516 JOHN L DRIVE lot 2 con 2 BURLINGTON ON	WWIS

Well ID:	2809887	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Not Used	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	03/25/2004
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z10255	**Contractor:**	6607
Tag:		**Form Version:**	3
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	002
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2809887.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/05/2004
Year Completed:	2004
Depth (m):	
Latitude:	43.3974059477429
Longitude:	-79.7701836835737
X:	-79.77018353491972
Y:	43.39740594548688
Path:	280\2809887.pdf

Bore Hole Information

Bore Hole ID:	11105745	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599592.30
Code OB Desc:		**North83:**	4805682.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	8
Date Completed:	04/05/2004	**UTMRC Desc:**	margin of error : 3 km - 10 km
Remarks:		**Location Method:**	lot
Location Method Desc:	Lot centroid		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	962809887
Method Construction Code:	6
Method Construction:	Boring

Other Method Construction:

Pipe Information

Pipe ID: 11111244
Casing No: 1
Comment:
Alt Name:

---

15 ***1 of 1*** ***WSW/17.2*** ***139.9 / 3.04*** ***UPPER MIDDLE ROAD & APPLEBY Burlington ON*** ***WWIS***

Well ID:	7253139	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring and Test Hole	***Data Entry Status:***	
Use 2nd:	0	***Data Src:***	
Final Well Status:	Monitoring and Test Hole	***Date Received:***	12/01/2015
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z208475	***Contractor:***	7247
Tag:	A179546	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/725\7253139.pdf

Additional Detail(s) (Map)

Well Completed Date: 07/06/2015
Year Completed: 2015
Depth (m): 7.3152
Latitude: 43.3968997097353
Longitude: -79.7868554817576
X: -79.78685533338573
Y: 43.39689970755109
Path: 725\7253139.pdf

Bore Hole Information

Bore Hole ID:	1005822723	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	598243.00
Code OB Desc:		***North83:***	4805606.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	07/06/2015	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	1005843214
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	28
Material 2 Desc:	SAND
Material 3:	11
Material 3 Desc:	GRAVEL
Formation Top Depth:	0.0
Formation End Depth:	7.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005843215
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	05
Material 3 Desc:	CLAY
Formation Top Depth:	7.0
Formation End Depth:	14.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005843216
Layer:	3
Color:	2
General Color:	GREY
Material 1:	28
Material 1 Desc:	SAND
Material 2:	06
Material 2 Desc:	SILT
Material 3:	11
Material 3 Desc:	GRAVEL
Formation Top Depth:	14.0
Formation End Depth:	24.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005843224
Layer:	1
Plug From:	0.0
Plug To:	15.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1005843223
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

Pipe ID:	1005843213
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1005843219
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	15.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1005843220
Layer:	1
Slot:	10
Screen Top Depth:	15.0
Screen End Depth:	25.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.125

Water Details

Water ID:	1005843218
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	20.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1005843217
Diameter:	6.0
Depth From:	0.0
Depth To:	25.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

16	***1 of 1***	***WSW/22.2***	***138.5 / 1.67***	***5164 UPPER MIDDLE RD lot 3-4 Burlington ON***	***WWIS***

Well ID:	7100721	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Test Hole	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	12/21/2007
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	M00226	**Contractor:**	6988
Tag:	A064001	**Form Version:**	5
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	3-4
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7100721.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/30/2007
Year Completed:	2007
Depth (m):	
Latitude:	43.3966404355552
Longitude:	-79.7861815012791
X:	-79.78618135191924
Y:	43.39664043362622
Path:	710\7100721.pdf

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7100721.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/30/2007
Year Completed:	2007
Depth (m):	
Latitude:	43.3995003005398
Longitude:	-79.7833088716241
X:	-79.78330872265947
Y:	43.39950029861937
Path:	710\7100721.pdf

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7100721.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/30/2007
Year Completed:	2007
Depth (m):	3.4
Latitude:	43.3971230614182
Longitude:	-79.784146737692
X:	-79.78414658935246
Y:	43.39712305886415
Path:	710\7100721.pdf

Bore Hole Information

Bore Hole ID:	1001508831	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598298.00
Code OB Desc:		**North83:**	4805578.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:	This is a record from cluster log sheet	**UTMRC:**	3
Date Completed:	10/30/2007	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1001508835
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Annular Space/Abandonment Sealing Record

Plug ID:	1001508836
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Method of Construction & Well Use

Method Construction ID:	1001508834
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Hole Diameter

Hole ID:	1001508833
Diameter:	10.199999809265137
Depth From:	
Depth To:	3.200000047683716
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Bore Hole Information

Bore Hole ID:	1001508825	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598526.00
Code OB Desc:		**North83:**	4805899.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:	This is a record from cluster log sheet	**UTMRC:**	3
Date Completed:	10/30/2007	**UTMRC Desc:**	margin of error : 10 - 30 m

Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1001508830
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Annular Space/Abandonment Sealing Record

Plug ID:	1001508829
Layer:	
Plug From:	
Plug To:	
Plug Depth UOM:	

Method of Construction & Well Use

Method Construction ID:	1001508828
Method Construction Code:	
Method Construction:	
Other Method Construction:	

Hole Diameter

Hole ID:	1001508827
Diameter:	10.199999809265137
Depth From:	
Depth To:	3.200000047683716
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Bore Hole Information

Bore Hole ID:	1000065359	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598462.00
Code OB Desc:		**North83:**	4805634.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	10/30/2007	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1001508837
Layer:	1
Color:	
General Color:	
Material 1:	24
Material 1 Desc:	PREV. DRILLED
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.4000000953674316
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001508839
Layer:	1
Plug From:	0.0
Plug To:	3.4000000953674316
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1001508841
Method Construction Code:	0
Method Construction:	Not Known
Other Method Construction:	AUGER

Hole Diameter

Hole ID:	1001508838
Diameter:	10.199999809265137
Depth From:	0.0
Depth To:	3.4000000953674316
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

17 ***1 of 1*** ***NNW/25.4*** ***143.8 / 6.95*** ***MATTAMY HOMES LTD.***
UPPER MIDDLE RD/DEER PLACE
BURLINGTON CITY ON ***CA***

Certificate #:	3-1117-99-
Application Year:	99
Issue Date:	9/20/1999
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
18	1 of 2	SE/26.9	131.8 / -5.00	LIMESIDE DEVELOPMENTS SUTTON DR. MAINWAY PH. 2 BURLINGTON CITY ON	CA

Certificate #: 3-0181-89-
Application Year: 89
Issue Date: 2/15/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
18	2 of 2	SE/26.9	131.8 / -5.00	LIMESIDE DEVELOPMENT MAINWAY SUTTON DR. PH. 2 BURLINGTON CITY ON	CA

Certificate #: 7-0168-89-
Application Year: 89
Issue Date: 2/15/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	1 of 9	NNE/29.8	144.8 / 8.00	ENBRIDGE PIPELINES INC. LOT#35, CONCESSION #2\UPPER MIDDLE RD & BURLOAK RD PIPELINE/COMPRESSOR STATION OAKVILLE TOWN ON	SPL

Ref No: 222604
Year:
Incident Dt: 3/5/2002
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/5/2002
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: OAKVILLE TOWN
Site Lot:
Site Conc:

Municipality No: 14403
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	OTHER CAUSE (N.O.S.)
Incident Preceding Spill:	
Environment Impact:	CONFIRMED
Health Env Consequence:	
Nature of Impact:	Soil contamination
Contaminant Qty:	
System Facility Address:	
Client Name:	
Client Type:	
Source Type:	
Contaminant Code:	
Contaminant Name:	
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	LAND / WATER
Incident Reason:	OTHER
Incident Summary:	ENBRIDGE PIPELINE: SOIL CONTAMINATED WITH OIL FOUND WHILE DIGGING.
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	
SAC Action Class:	
Call Report Locatn Geodata:	

19	2 of 9	NNE/29.8	144.8 / 8.00	**Burloak Drive and Upper Middle Road** **Burlington ON**	CA

Certificate #:	4300-536HVM
Application Year:	01
Issue Date:	10/11/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Her Majesty the Queen in Right of Ontario as represented by the Minister of Natural Resources
Client Address:	1219 Burloak Drive
Client City:	Burlington
Client Postal Code:	L7R 3X5
Project Description:	This application is for the construction of a watermain on Burloak Drive and Upper Middle Road in the City of Burlington.
Contaminants:	
Emission Control:	

19	3 of 9	NNE/29.8	144.8 / 8.00	**The Regional Municipality of Halton** **Upper Middle Road and Burloak Dr** **Burlington ON**	CA

Certificate #:	7580-7TRJUM
Application Year:	2009
Issue Date:	7/17/2009
Approval Type:	Municipal and Private Sewage Works
Status:	Revoked and/or Replaced
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contaminants:					
Emission Control:					

19	4 of 9	NNE/29.8	144.8 / 8.00	**The Regional Municipality of Halton** **Upper Middle Road and Burloak Dr** **Burlington ON**	CA

Certificate #:	7647-7TTHJX
Application Year:	2009
Issue Date:	7/17/2009
Approval Type:	Municipal and Private Sewage Works
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

19	5 of 9	NNE/29.8	144.8 / 8.00	**The Regional Municipality of Halton** **Upper Middle Road and Burloak Dr** **Burlington ON L6M 3L1**	ECA

Approval No:	7647-7TTHJX	**MOE District:**	
Approval Date:	2009-07-17	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	
SWP Area Name:		**Geometry Y:**	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	The Regional Municipality of Halton		
Address:	Upper Middle Road and Burloak Dr		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/3291-7TSPEU-14.pdf		
PDF Site Location:			

19	6 of 9	NNE/29.8	144.8 / 8.00	**Her Majesty the Queen in Right of Ontario as represented by the Minister of** **Natural Resources Burloak Drive and Upper Middle Rd** **Burlington ON L7R 3X5**	ECA

Approval No:	4300-536HVM	**MOE District:**	Halton-Peel
Approval Date:	2001-10-11	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-79.7638
Record Type:	ECA	**Latitude:**	43.4033
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Halton	**Geometry Y:**	
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Business Name:	Her Majesty the Queen in Right of Ontario as represented by the Minister of Natural Resources		
Address:	Burloak Drive and Upper Middle Rd		
Full Address:			
Full PDF Link:			
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	7 of 9	NNE/29.8	144.8 / 8.00	The Regional Municipality of Halton Upper Middle Road and Burloak Dr Burlington ON L6M 3L1	ECA

Approval No: 7580-7TRJUM
Approval Date: 2009-07-17
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Regional Municipality of Halton
Address: Upper Middle Road and Burloak Dr
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6050-7RCN6P-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	8 of 9	NNE/29.8	144.8 / 8.00	Her Majesty the Queen in Right of Ontario as represented by the Minister of Natural Resources Burloak Drive and Upper Middle Rd Burlington ON L6M 4J7	ECA

Approval No: 7490-7L5MMY
Approval Date: 2008-11-07
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: Her Majesty the Queen in Right of Ontario as represented by the Minister of Natural Resources
Address: Burloak Drive and Upper Middle Rd
Full Address:
Full PDF Link:
PDF Site Location:
MOE District: Halton-Peel
City:
Longitude: -79.7638
Latitude: 43.4033
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
19	9 of 9	NNE/29.8	144.8 / 8.00	Enbridge Pipelines Inc. corner of Upper Middle and Burloak Dr Oakville ON	SPL

Ref No: 5200-B42PDH
Year:
Incident Dt: 2018/08/27
Dt MOE Arvl on Scn:
MOE Reported Dt: 2018/08/27
Dt Document Closed:
Site No: NA
MOE Response: No
Site County/District: Regional Municipality of Halton
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: Enbridge Pipeline<UNOFFICIAL>
Site Address: corner of Upper Middle and Burloak Dr
Site Region: Central
Site Municipality: Oakville
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health: 2 - Minor Environment
Agency Involved:

Northing:	
Easting:	
Incident Cause:	
Incident Preceding Spill:	Unknown / N/A
Environment Impact:	
Health Env Consequence:	
Nature of Impact:	
Contaminant Qty:	0.15 L
System Facility Address:	
Client Name:	Enbridge Pipelines Inc.
Client Type:	Corporation
Source Type:	Unknown / N/A
Contaminant Code:	15
Contaminant Name:	OIL (PETROLEUM BASED, NOT SPECIFIED)
Contaminant Limit 1:	
Contam Limit Freq 1:	n/a
Contaminant UN No 1:	n/a
Receiving Medium:	Land
Incident Reason:	Unknown / N/A
Incident Summary:	Enbridge Pipelines: leak found in tub, unkn oil 150 ml
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Unknown / N/A
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	

---

20 | ***1 of 1*** | ***NE/37.5*** | ***139.0 / 2.19*** | ***163M SOUTH OF BRONTE PROVINCIAL PARK OAKVILLE ON*** | ***WWIS***

Well ID:	7267355	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring and Test Hole	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	07/20/2016
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z220156	**Contractor:**	6607
Tag:	A175315	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/726\7267355.pdf

Additional Detail(s) (Map)

Well Completed Date:	
Year Completed:	
Depth (m):	12.1
Latitude:	43.4052289214531
Longitude:	-79.7700167702666
X:	-79.7700166210184
Y:	43.405228918813904
Path:	726\7267355.pdf

Bore Hole Information

Bore Hole ID:	1006159429	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599593.00
Code OB Desc:		***North83:***	4806551.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:		***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1006172093
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.7999999523162842
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006172094
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.7999999523162842
Formation End Depth:	12.100000381469727
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006172103
Layer:	2
Plug From:	0.0
Plug To:	8.600000381469727
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006172102
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1006172101
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	1006172092
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1006172097
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	9.100000381469727
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1006172098
Layer:	1
Slot:	.10
Screen Top Depth:	9.100000381469727
Screen End Depth:	12.100000381469727
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.400000095367432

Water Details

Water ID:	1006172096
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	4.920000076293945
Water Found Depth UOM:	m

Hole Diameter

Hole ID: 1006172095
Diameter: 21.0
Depth From: 0.0
Depth To: 12.100000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

---

21 | 1 of 1 | NE/37.6 | 139.0 / 2.19 | 162M SOUTH OF BRONTE PROVINCIAL PARK OAKVILLE ON | WWIS

Well ID: 7267356
Construction Date:
Use 1st: Monitoring and Test Hole
Use 2nd: 0
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z220155
Tag: A192906
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 07/20/2016
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 7
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/726\7267356.pdf

Additional Detail(s) (Map)

Well Completed Date:
Year Completed:
Depth (m): 7.5
Latitude: 43.4052563270145
Longitude: -79.7700532656843
X: -79.77005311685944
Y: 43.4052563249779
Path: 726\7267356.pdf

Bore Hole Information

Bore Hole ID: 1006159449
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed:
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599590.00
North83: 4806554.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID:	1006172145
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.7999999523162842
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1006172146
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.7999999523162842
Formation End Depth:	7.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006172154
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1006172155
Layer:	2
Plug From:	0.30000001192092896
Plug To:	4.199999809265137
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1006172153
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID: 1006172144
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1006172149
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 4.5
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1006172150
Layer: 1
Slot: .10
Screen Top Depth: 4.5
Screen End Depth: 7.5
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 1006172148
Layer: 1
Kind Code:
Kind:
Water Found Depth: 5.059999942779541
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1006172147
Diameter: 21.0
Depth From: 0.0
Depth To: 7.5
Hole Depth UOM: m
Hole Diameter UOM: cm

---

22 | **1 of 1** | **E/38.2** | **131.2 / -5.63** | **lot 1 con 2 ON** | **WWIS**

Well ID: 2805095
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 09/01/1977
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4005
Form Version: 1
Owner:
County: HALTON

Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2805095.pdf

Additional Detail(s) (Map)

Well Completed Date:	08/16/1977
Year Completed:	1977
Depth (m):	12.192
Latitude:	43.4014178211917
Longitude:	-79.7656284064871
X:	-79.76562825646324
Y:	43.40141781871453
Path:	280\2805095.pdf

Bore Hole Information

Bore Hole ID:	10151602	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599954.60
Code OB Desc:		**North83:**	4806133.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	08/16/1977	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4
Location Method Desc:	Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931438371
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931438372
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	73
Material 2 Desc:	HARD
Material 3:	
Material 3 Desc:	
Formation Top Depth:	10.0
Formation End Depth:	40.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	962805095
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10700172
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930257729
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	17.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930257730
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	40.0
Casing Diameter:	
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	BAILER
Pump Test ID:	992805095
Pump Set At:	
Static Level:	15.0
Final Level After Pumping:	20.0
Recommended Pump Depth:	30.0
Pumping Rate:	24.0

Flowing Rate:	
Recommended Pump Rate:	8.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	2
Pumping Duration HR:	2
Pumping Duration MIN:	0
Flowing:	No

Draw Down & Recovery

Pump Test Detail ID:	934714356
Test Type:	Recovery
Test Duration:	45
Test Level:	15.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934446831
Test Type:	Recovery
Test Duration:	30
Test Level:	15.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934966502
Test Type:	Recovery
Test Duration:	60
Test Level:	15.0
Test Level UOM:	ft

Draw Down & Recovery

Pump Test Detail ID:	934181587
Test Type:	Recovery
Test Duration:	15
Test Level:	15.0
Test Level UOM:	ft

Water Details

Water ID:	933608223
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	36.0
Water Found Depth UOM:	ft

23	***1 of 1***	***NE/45.7***	***139.8 / 3.00***	***ON***	***WWIS***

Well ID:	7262592	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	05/05/2016
Water Type:		***Selected Flag:***	TRUE

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Casing Material:		**Abandonment Rec:**	
Audit No:	C20894	**Contractor:**	6607
Tag:	A146787	**Form Version:**	8
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1005965691	**Tag No:**	A146787
Depth M:		**Contractor:**	6607
Year Completed:	2013	**Latitude:**	43.4059679385944
Well Completed Dt:	07/19/2013	**Longitude:**	-79.7709157259036
Audit No:	C20894	**Y:**	43.405967936531596
Path:		**X:**	-79.77091557645109

Bore Hole Information

Bore Hole ID:	1005965691	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599519.00
Code OB Desc:		**North83:**	4806632.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	07/19/2013	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
24	1 of 1	NNE/47.9	144.8 / 8.00	NW CORNER UPPER MIDDLE ON	WWIS

Well ID:	7105627	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	05/26/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z60548	**Contractor:**	6607
Tag:	A062355	**Form Version:**	4
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	

Clear/Cloudy: ***UTM Reliability:***
Municipality: BURLINGTON CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7105627.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/20/2008
Year Completed: 2008
Depth (m): 10.6
Latitude: 43.4074847493457
Longitude: -79.7738121090625
X: -79.77381195947014
Y: 43.40748474669958
Path: 710\7105627.pdf

Bore Hole Information

Bore Hole ID: 1001600892 ***Elevation:***
DP2BR: ***Elevrc:***
Spatial Status: ***Zone:*** 17
Code OB: ***East83:*** 599282.00
Code OB Desc: ***North83:*** 4806797.00
Open Hole: ***Org CS:*** UTM83
Cluster Kind: ***UTMRC:*** 3
Date Completed: 03/20/2008 ***UTMRC Desc:*** margin of error : 10 - 30 m
Remarks: ***Location Method:*** wwr
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1001724237
Layer: 3
Color: 6
General Color: BROWN
Material 1:
Material 1 Desc:
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 8.0
Formation End Depth:
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001724236
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE

Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 8.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001724235
Layer: 1
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001724238
Layer: 4
Color: 2
General Color: GREY
Material 1: 15
Material 1 Desc: LIMESTONE
Material 2:
Material 2 Desc:
Material 3: 17
Material 3 Desc: SHALE
Formation Top Depth:
Formation End Depth: 10.600000381469727
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001724242
Layer: 3
Plug From: 7.900000095367432
Plug To: 9.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001724240
Layer: 1
Plug From: 0.0
Plug To: 3.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001724241
Layer: 2
Plug From: 3.0
Plug To: 4.400000095367432
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1001724247
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction: BORING

Pipe Information

Pipe ID: 1001724234
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001724244
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.5
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1001724245
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1001724243
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 3.200000047683716
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001724239
Diameter: 21.0
Depth From:
Depth To: 10.600000381469727

Hole Depth UOM: m
Hole Diameter UOM: cm

---

25 | **1 of 1** | **NNE/49.5** | **143.9 / 7.01** | **RRL Burloak Inc.**
1477 Burloak Dr to 1519 Buloak Dr (Regional Road #21)
Oakville ON L6J 7W5 | **ECA**

Approval No: 7863-6R8JRD
Approval Date: 2006-07-11
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
MOE District: Halton-Peel
City:
Longitude: -79.77214
Latitude: 43.40705
Geometry X:
Geometry Y:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: RRL Burloak Inc.
Address: 1477 Burloak Dr to 1519 Buloak Dr (Regional Road #21)
Full Address:
Full PDF Link:
PDF Site Location:

---

26 | **1 of 24** | **E/59.5** | **130.8 / -6.00** | **SUNCOR ENERGY PRODUCTS INC****
5600 MAINWAY
BURLINGTON ON L7L 6C4 | **FSTH**

License Issue Date: 2/19/2007
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Card/Keylock

--Details--
Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	2 of 24	E/59.5	130.8 / -6.00	1704271 ONTARIO INC O/A GAS STN 5600 MAINWAY BURLINGTON ON L7L 6C4	FSTH

License Issue Date: 1/21/2008 2:58:00 PM
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Card/Keylock

--Details--
Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

Status: Active
Year of Installation: 2006
Corrosion Protection:
Capacity: 50000
Tank Fuel Type: Liquid Fuel Double Wall UST - Diesel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	3 of 24	E/59.5	130.8 / -6.00	Suncor Energy Products Inc. 5600 Mainway Burlington ON L7L 6C4	CA

Certificate #: 0652-6J6LL3
Application Year: 2007
Issue Date: 5/6/2007
Approval Type: Industrial Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	4 of 24	E/59.5	130.8 / -6.00	Suncor Energy 5600 Mainway Burlington ON L7L 6C4	GEN

Generator No: ON8275158
SIC Code: 412110
SIC Description: Petroleum Product Wholesaler-Distributors
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	5 of 24	E/59.5	130.8 / -6.00	Suncor Energy 5600 Mainway Burlington ON L7L 6C4	GEN

Generator No: ON8275158
SIC Code: 412110
SIC Description: Petroleum Product Wholesaler-Distributors
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	6 of 24	E/59.5	130.8 / -6.00	SUNCOR ENERGY PRODUCTS PARTNERSHIP 5600 MAINWAY BURLINGTON ON	FST

Inventory No: 45864155
Inventory Status: active
Installation Year: 2006
Capacity: 50000
Capacity Unit: L
Tank Type: Double Wall UST
Manufacturer:
Model:
Description: 2009VBS

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	7 of 24	E/59.5	130.8 / -6.00	SUNCOR ENERGY PRODUCTS PARTNERSHIP 5600 MAINWAY	FST

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				BURLINGTON ON	

Inventory No: 44582937
Inventory Status: active
Installation Year: 2006
Capacity: 50000
Capacity Unit: L
Tank Type: Double Wall UST
Manufacturer:
Model:
Description: 2009VBS

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

26	8 of 24	E/59.5	130.8 / -6.00	**SUNCOR ENERGY PRODUCTS PARTNERSHIP** **5600 MAINWAY** **BURLINGTON ON**	FST

Inventory No: 44582936
Inventory Status: active
Installation Year: 2006
Capacity: 50000
Capacity Unit: L
Tank Type: Double Wall UST
Manufacturer:
Model:
Description: 2009VBS

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

26	9 of 24	E/59.5	130.8 / -6.00	**SUNCOR ENERGY PRODUCTS PARTNERSHIP** **5600 MAINWAY** **BURLINGTON ON**	FST

Inventory No: 44582938
Inventory Status: active
Installation Year: 2006
Capacity: 50000
Capacity Unit: L
Tank Type: Double Wall UST
Manufacturer:
Model:
Description: 2009VBS compartment tank 2 X 25,000L gold diesel

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

26	10 of 24	E/59.5	130.8 / -6.00	**SUNCOR ENERGY PRODUCTS PARTNERSHIP** **5600 MAINWAY** **BURLINGTON ON**	FST

Inventory No: 44582934
Inventory Status: active
Installation Year: 2006
Capacity: 50000
Capacity Unit: L
Tank Type: Double Wall UST
Manufacturer:
Model:
Description: 2009VBS

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

26	11 of 24	E/59.5	130.8 / -6.00	**SUNCOR ENERGY PRODUCTS PARTNERSHIP** **5600 MAINWAY** **BURLINGTON ON**	FST

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Inventory No:	44582935	**Tank Material:**	Fiberglass (FRP)
Inventory Status:	active	**Corrosion Protect:**	Fiberglass
Installation Year:	2006	**Overfill Protection:**	
Capacity:	50000	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Double Wall Vertical AST		
Manufacturer:			
Model:			
Description:	2009VBS		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	12 of 24	E/59.5	130.8 / -6.00	**Suncor Energy** **5600 Mainway** **Burlington ON L7L 6C4**	GEN

Generator No:	ON8275158
SIC Code:	412110
SIC Description:	Petroleum Product Wholesaler-Distributors
Approval Years:	2012
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	221
Waste Class Name:	LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	13 of 24	E/59.5	130.8 / -6.00	**Suncor Energy** **5600 Mainway** **Burlington ON**	GEN

Generator No:	ON8275158
SIC Code:	412110
SIC Description:	PETROLEUM PRODUCT WHOLESALER-DISTRIBUTORS
Approval Years:	2013
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	221
Waste Class Name:	LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	14 of 24	E/59.5	130.8 / -6.00	**Suncor Energy Products Inc.** **5600 Mainway** **Burlington ON M2P 2C5**	ECA

Approval No:	0652-6J6LL3	**MOE District:**	Halton-Peel
Approval Date:	2007-05-06	**City:**	
Status:	Revoked and/or Replaced	**Longitude:**	-79.76735

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Record Type:	ECA	**Latitude:**	43.39991
Link Source:	IDS	**Geometry X:**	
SWP Area Name:	Halton	**Geometry Y:**	
Approval Type:	ECA-INDUSTRIAL SEWAGE WORKS		
Project Type:	INDUSTRIAL SEWAGE WORKS		
Business Name:	Suncor Energy Products Inc.		
Address:	5600 Mainway		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/8111-6VBS2K-14.pdf		
PDF Site Location:			

26	15 of 24	E/59.5	130.8 / -6.00	**Suncor Energy** **5600 Mainway** **Burlington ON L7L 6C4**	GEN

Generator No:	ON8275158
SIC Code:	412110
SIC Description:	PETROLEUM PRODUCT WHOLESALER-DISTRIBUTORS
Approval Years:	2016
PO Box No:	
Country:	Canada
Status:	
Co Admin:	John Austerberry
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	905 469 3697 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	221
Waste Class Name:	LIGHT FUELS

26	16 of 24	E/59.5	130.8 / -6.00	**Suncor Energy** **5600 Mainway** **Burlington ON L7L 6C4**	GEN

Generator No:	ON8275158
SIC Code:	412110
SIC Description:	PETROLEUM PRODUCT WHOLESALER-DISTRIBUTORS
Approval Years:	2015
PO Box No:	
Country:	Canada
Status:	
Co Admin:	John Austerberry
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	905 469 3697 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	221
Waste Class Name:	LIGHT FUELS

26	17 of 24	E/59.5	130.8 / -6.00	**Suncor Energy** **5600 Mainway** **Burlington ON L7L 6C4**	GEN

Generator No:	ON8275158
SIC Code:	412110

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Description: PETROLEUM PRODUCT WHOLESALER-DISTRIBUTORS
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: John Austerberry
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905 469 3697 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 221
Waste Class Name: LIGHT FUELS

26	*18 of 24*	*E/59.5*	*130.8 / -6.00*	***Suncor Energy*** ***5600 Mainway*** ***Burlington ON L7L 6C4***	***GEN***

Generator No: ON8275158
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 221 L
Waste Class Name: Light fuels

26	*19 of 24*	*E/59.5*	*130.8 / -6.00*	***Suncor Energy*** ***5600 Mainway*** ***Burlington ON L7L 6C4***	***GEN***

Generator No: ON8275158
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 L
Waste Class Name: Light fuels

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 221 I
Waste Class Name: Light fuels

---

26 | **20 of 24** | **E/59.5** | **130.8 / -6.00** | **5600 MAINWAY BURLINGTON ON L7L 6C4** | **DTNK**

Delisted Fuel Storage Tank

Instance No:	44562017	**Creation Date:**	
Status:	Active	**Overfill Prot Type:**	
Instance Type:		**Facility Location:**	
Fuel Type:		**Piping SW Steel:**	0
Cont Name:		**Piping SW Galvan:**	0
Capacity:		**Tanks SW Steel:**	0
Tank Material:		**Piping Underground:**	5
Corrosion Prot:		**No Underground:**	5
Tank Type:		**Max Hazard Rank:**	
Install Year:		**Max Hazard Rank 1:**	
Facility Type:		**Nxt Period Start Dt:**	
Device Installed Loc:		**Program Area 1:**	
Fuel Type 2:		**Program Area 2:**	
Fuel Type 3:		**Nxt Period Strt Dt 2:**	
Item:	FS GASOLINE STATION - CARD/KEYLOCK	**Risk Based Periodic:**	
Item Description:		**Vol of Directives:**	
Model:		**Years in Service:**	
Description:		**Created Date:**	
Instance Creation Dt:		**Federal Device:**	
Instance Install Dt:		**Periodic Exempt:**	
Manufacturer:		**Statutory Interval:**	
Serial No:		**Rcomnd Insp Interval:**	
ULC Standard:		**Recommended Toler:**	
Quantity:		**Panam Venue Name:**	
Unit of Measure:		**External Identifier:**	
Parent Fac Type:			
TSSA Base Sched Cycle 1:			
TSSA Base Sched Cycle 2:			
Original Source:	FST		
Record Date:	31-MAY-2021		

---

26 | **21 of 24** | **E/59.5** | **130.8 / -6.00** | **Suncor Energy 5600 Mainway Burlington ON L7L 6C4** | **GEN**

Generator No: ON8275158
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 I
Waste Class Name: Light fuels

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 221 L
Waste Class Name: Light fuels

---

26 | **22 of 24** | **E/59.5** | **130.8 / -6.00** | **Suncor Energy**
5600 Mainway
Burlington ON L7L 6C4 | **GEN**

Generator No: ON8275158
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 L
Waste Class Name: LIGHT FUELS

Waste Class: 221 I
Waste Class Name: LIGHT FUELS

---

26 | **23 of 24** | **E/59.5** | **130.8 / -6.00** | **SUNCOR ENERGY PRODUCTS PARTNERSHIP**
5600 MAINWAY
BURLINGTON ON | **FST**

Inventory No: 44562017-2
Inventory Status: Active
Installation Year:
Capacity: 300000
Capacity Unit: L
Tank Type:
Manufacturer:
Model:
Description:

Tank Material:
Corrosion Protect:
Overfill Protection:
Inventory Context: Liquid Fuels
Inventory Item: FS Gasoline Station - Self Serve

---

26 | **24 of 24** | **E/59.5** | **130.8 / -6.00** | **SUNCOR ENERGY PRODUCTS PARTNERSHIP**
5600 MAINWAY
BURLINGTON ON | **FST**

Inventory No: 44562017-1
Inventory Status: Active
Installation Year:
Capacity: 300000
Capacity Unit: L
Tank Type:
Manufacturer:
Model:
Description:

Tank Material:
Corrosion Protect:
Overfill Protection:
Inventory Context: Liquid Fuels
Inventory Item: FS Gasoline Station - Card/Keylock

---

27 | **1 of 1** | **E/60.5** | **130.8 / -6.00** | **Mainway**
Burlington ON L7L 6C4 | **EHS**

Order No: 24012400332
Nearest Intersection:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Status:	C	**Municipality:**	
Report Type:	RSC Report (Urban)	**Client Prov/State:**	ON
Report Date:	29-JAN-24	**Search Radius (km):**	.3
Date Received:	24-JAN-24	**X:**	-79.76531826
Previous Site Name:		**Y:**	43.40105438
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos		

---

28 | **1 of 1** | **N/62.0** | **144.2 / 7.30** | **5470 Upper Middle Road Burlington ON** | **EHS**

Order No:	20120906065	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Site Report	**Client Prov/State:**	ON
Report Date:	06-SEP-12	**Search Radius (km):**	.25
Date Received:	05-SEP-12	**X:**	-79.774957
Previous Site Name:		**Y:**	43.407651
Lot/Building Size:			
Additional Info Ordered:			

---

29 | **1 of 1** | **WSW/63.3** | **136.8 / 0.00** | **BURLINGTON HYDRO-ELECTRIC COMM 5119 FALCONCREST RD UPPER MIDDLE RD & APPLEBY LINE TRANSFORMER BURLINGTON CITY ON L7L 6K3** | **SPL**

Ref No:	171118	**Municipality No:**	14101
Year:		**Nature of Damage:**	
Incident Dt:	8/4/1999	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	8/4/1999	**Impact to Health:**	
Dt Document Closed:		**Agency Involved:**	
Site No:			
MOE Response:			
Site County/District:			
Site Geo Ref Meth:			
Site District Office:			
Nearest Watercourse:			
Site Name:			
Site Address:			
Site Region:			
Site Municipality:	BURLINGTON CITY		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:	OTHER CONTAINER LEAK		
Incident Preceding Spill:			
Environment Impact:	POSSIBLE		
Health Env Consequence:			
Nature of Impact:	Soil contamination		
Contaminant Qty:			
System Facility Address:			
Client Name:			
Client Type:			
Source Type:			
Contaminant Code:			
Contaminant Name:			
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			

Receiving Medium: LAND
Incident Reason: MATERIAL FAILURE
Incident Summary: BURLINGTON HYDRO: XFORMERLEAK IN VAULT NO PCB'S SUSPECTED
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:

---

30 | ***1 of 8*** | ***E/65.1*** | ***130.8 / -6.00*** | ***Hearthland***
5450 Mainway Drive
Burlington ON L7L 6A4 | ***GEN***

Generator No: ON2145001
SIC Code: 337110
SIC Description: Wood Kitchen Cabinet and Counter Top Manufacturing
Approval Years: 04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

30 | ***2 of 8*** | ***E/65.1*** | ***130.8 / -6.00*** | ***Hearthland Fireplaces Limited***
5450 Mainway
Burlington ON L7L 6A4 | ***SCT***

Established: 01-AUG-86
Plant Size (ft²): 18000
Employment:

--Details--
Description: Wood Kitchen Cabinet and Counter Top Manufacturing
SIC/NAICS Code: 337110

Description: Other Wood Household Furniture Manufacturing
SIC/NAICS Code: 337123

Description: Plumbing, Heating and Air-Conditioning Contractors
SIC/NAICS Code: 238220

Description: All Other Home Furnishings Stores
SIC/NAICS Code: 442298

Description: Residential Building Construction
SIC/NAICS Code: 236110

Description: Other Millwork
SIC/NAICS Code: 321919

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	3 of 8	E/65.1	130.8 / -6.00	Hearthland 5450 Mainway Drive Burlington ON L7L 6A4	GEN

Generator No: ON2145001
SIC Code: 337110
SIC Description: Wood Kitchen Cabinet and Counter Top Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	4 of 8	E/65.1	130.8 / -6.00	Hearthland 5450 Mainway Drive Burlington ON L7L 6A4	GEN

Generator No: ON2145001
SIC Code: 337110
SIC Description: Wood Kitchen Cabinet and Counter Top Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	5 of 8	E/65.1	130.8 / -6.00	5450 Mainway Burlington ON L7L6A4	EHS

Order No: 20141111094
Status: C
Report Type: Custom Report
Report Date: 17-NOV-14
Date Received: 11-NOV-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.767491
Y: 43.399016

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	6 of 8	E/65.1	130.8 / -6.00	Infinity Group Construction 5450 Mainway Dr. Burlington ON L7L 6A4	GEN

Generator No: ON4409763
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	7 of 8	E/65.1	130.8 / -6.00	Infinity Group Construction 5450 Mainway Dr. Burlington ON L7L 6A4	GEN

Generator No: ON4409763
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	8 of 8	E/65.1	130.8 / -6.00	Infinity Group Construction 5450 Mainway Dr. Burlington ON L7L 6A4	GEN

Generator No: ON4409763
SIC Code:
SIC Description:

Approval Years:	As of Oct 2022
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	145 I
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	213 I
Waste Class Name:	PETROLEUM DISTILLATES
Waste Class:	263 I
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	331 I
Waste Class Name:	WASTE COMPRESSED GASES

---

31 | **1 of 1** | **NNE/67.9** | **144.7 / 7.81** | **lot 35 con 2 ON** | **WWIS**

Well ID:	2802409	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	10/31/1961
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	4602
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	035
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2802409.pdf

Additional Detail(s) (Map)

Well Completed Date:	10/28/1961
Year Completed:	1961
Depth (m):	12.8016
Latitude:	43.4072908441218
Longitude:	-79.7725241682944
X:	-79.77252401922205
Y:	43.407290841513024
Path:	280\2802409.pdf

Bore Hole Information

Bore Hole ID:	10148959	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599386.60
Code OB Desc:		**North83:**	4806777.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	10/28/1961	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5

Location Method Desc: Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931428465
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 11.0
Formation End Depth: 42.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931428463
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931428464
Layer: 2
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:

Material 3:
Material 3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 11.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962802409
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10697529
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930253483
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 42.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930253482
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 22.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 992802409
Pump Set At:
Static Level: 20.0
Final Level After Pumping: 42.0
Recommended Pump Depth: 40.0
Pumping Rate: 3.0
Flowing Rate:
Recommended Pump Rate: 3.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 1

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 933604479
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 40.0
Water Found Depth UOM: ft

---

32 | **1 of 7** | **E/68.1** | **130.4 / -6.47** | **FLOMETRICO LTD.**
5480 MAINWAY DR
BURLINGTON ON L7L 6A4 | **SCT**

Established: 1956
Plant Size (ft²): 12000
Employment: 7

--Details--
Description: INDUSTRIAL MACHINERY AND EQUIPMENT
SIC/NAICS Code: 5084

Description: Pump and Compressor Manufacturing
SIC/NAICS Code: 333910

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: PUMPS AND PUMPING EQUIPMENT
SIC/NAICS Code: 3561

---

32 | **2 of 7** | **E/68.1** | **130.4 / -6.47** | **Flometrico Ltd.**
5480 Mainway
Burlington ON L7L 6A4 | **SCT**

Established: 1956
Plant Size (ft²): 12000
Employment:

--Details--
Description: Pump and Compressor Manufacturing
SIC/NAICS Code: 333910

---

32 | **3 of 7** | **E/68.1** | **130.4 / -6.47** | **Peerless Pump Canada Inc.**
5480 Mainway
Burlington ON L7L 6A4 | **SCT**

Established: 8/1/1956
Plant Size (ft²): 12000
Employment:

--Details--
Description: Pump and Compressor Manufacturing
SIC/NAICS Code: 333910

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
32	4 of 7	E/68.1	130.4 / -6.47	5480 Mainway Burlington ON L7L 6A4	EHS

Order No:	20091126006	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	12/2/2009	**Search Radius (km):**	0.25
Date Received:	11/26/2009	**X:**	-79.767129
Previous Site Name:		**Y:**	43.399394
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
32	5 of 7	E/68.1	130.4 / -6.47	BIOSHOP CANADA INC 5480 MAINWAY BURLINGTON ON L7L6A4	CHM

Headcode:	00273600
Headcode Desc:	CHEMICALS
Phone:	9056341452
List Name:	
Description:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
32	6 of 7	E/68.1	130.4 / -6.47	BIOSHOP CANADA INC 5480 MAINWAY BURLINGTON ON L7L6A4	CHM

Headcode:	00273600
Headcode Desc:	CHEMICALS
Phone:	9056341452
List Name:	Info-direct(TM) BUSINESS FILE
Description:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
32	7 of 7	E/68.1	130.4 / -6.47	BIOSHOP CANADA INC 5480 MAINWAY BURLINGTON ON L7L6A4	CHM

Headcode:	00273600
Headcode Desc:	CHEMICALS
Phone:	9056341452
List Name:	INFO-DIRECT(TM) BUSINESS FILE
Description:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
33	1 of 1	E/68.2	130.8 / -6.00	5600, 5570 MAUCUAY & BULEK (1240) BURLINGTON ON	WWIS

Well ID:	2810452	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	12/29/2005
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z38268	**Contractor:**	6607
Tag:	A034264	**Form Version:**	3
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	

Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/281\2810452.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/22/2005
Year Completed:	2005
Depth (m):	
Latitude:	43.4011160242459
Longitude:	-79.7651973744558
X:	-79.76519722519029
Y:	43.40111602175483
Path:	281\2810452.pdf

Bore Hole Information

Bore Hole ID:	11319407	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599990.00
Code OB Desc:		***North83:***	4806100.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	11/22/2005	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	933284100
Layer:	1
Plug From:	0.0
Plug To:	9.100000381469727
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	962810452
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID:	11334262
Casing No:	1
Comment:	

Alt Name:

Water Details

Water ID:	934069314
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	3.200000047683716
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	11538004
Diameter:	16.0
Depth From:	0.0
Depth To:	9.100000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

34 ***1 of 1*** ***N/69.0*** ***144.8 / 8.00*** ***NW CORNER OF BURLOAK & UPPERMIDDLE Burlington ON*** ***WWIS***

Well ID:	7105625	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	05/26/2008
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z60546	***Contractor:***	6607
Tag:	A062519	***Form Version:***	4
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7105625.pdf

Additional Detail(s) (Map)

Well Completed Date:	03/18/2008
Year Completed:	2008
Depth (m):	3
Latitude:	43.4076947168883
Longitude:	-79.7740795838252
X:	-79.77407943453927
Y:	43.40769471456317
Path:	710\7105625.pdf

Bore Hole Information

Bore Hole ID:	1001600886	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17

Code OB:		**East83:**	599260.00
Code OB Desc:		**North83:**	4806820.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	03/18/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1001724209
Layer:	3
Color:	6
General Color:	BROWN
Material 1:	
Material 1 Desc:	
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1001724208
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.600000023841858
Formation End Depth:	3.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1001724207
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.600000023841858

Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001724211
Layer: 1
Plug From: 0.0
Plug To: 1.399999976158142
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1001724216
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1001724206
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001724213
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.5
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1001724214
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1001724212
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001724210
Diameter: 21.0
Depth From:
Depth To: 3.0
Hole Depth UOM: m
Hole Diameter UOM: cm

---

35 | *1 of 1* | *E/70.7* | *130.8 / -6.00* | ***Suncor Energy Products Inc.*** | ***ECA***

Burlington ON M2P 2C5

Approval No: 0845-6FHK5G
Approval Date: 2007-12-11
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Grey Sauble
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Suncor Energy Products Inc.
Address:
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0073-743RZF-14.pdf
PDF Site Location:

MOE District: Owen Sound
City:
Longitude: -79.765434
Latitude: 43.4017
Geometry X:
Geometry Y:

---

36 | *1 of 2* | *E/76.7* | *130.8 / -6.00* | ***Mainway and Burloak*** | ***EHS***

Burlington ON

Order No: 20060127024
Status: C
Report Type: Basic Report
Report Date: 2/6/2006
Date Received: 1/27/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.4
X: -79.765258
Y: 43.401269

---

36 | *2 of 2* | *E/76.7* | *130.8 / -6.00* | ***Burloak Drive & Mainway*** | ***EHS***

Oakville ON

Order No: 20070710024
Status: C
Report Type: CAN - Custom Report
Report Date: 7/19/2007
Date Received: 7/10/2007
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans; City Directory

Nearest Intersection:
Municipality:
Client Prov/State:
Search Radius (km): 0.25
X: -79.766809
Y: 43.401742

---

37 | *1 of 1* | *E/79.6* | *130.3 / -6.53* | ***5570 and 5600 Mainway and 1240 Burloak Dr*** | ***EHS***

Burlington ON

Order No: 20090526025
Status: C
Report Type: Standard Report
Report Date: 5/28/2009
Date Received: 5/26/2009
Previous Site Name:
Lot/Building Size:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.765216
Y: 43.400824

Additional Info Ordered:

38	1 of 1	NE/80.6	140.9 / 4.04	lot 35 con 2 ON	WWIS

Well ID: 2802406
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 01/08/1951
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1642
Form Version: 1
Owner:
County: HALTON
Lot: 035
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2802406.pdf

Additional Detail(s) (Map)

Well Completed Date: 10/27/1950
Year Completed: 1950
Depth (m): 14.9352
Latitude: 43.4064366459761
Longitude: -79.7709605890061
X: -79.77096044005764
Y: 43.40643664346682
Path: 280\2802406.pdf

Bore Hole Information

Bore Hole ID: 10148956
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/27/1950
Remarks:
Location Method Desc: Original Pre1985 UTM Rel Code 9: unknown UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599514.60
North83: 4806684.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: p9

Overburden and Bedrock Materials Interval

Formation ID:	931428458
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	49.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931428457
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	962802406
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10697526
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930253476
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	8.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930253477
Layer:	2

Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	49.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	992802406
Pump Set At:	
Static Level:	10.0
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	1
Water State After Test:	CLEAR
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933604476
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	
Water Found Depth UOM:	ft

---

39 | ***1 of 1*** | ***W/81.0*** | ***141.8 / 4.90*** | ***5219 Uppre Middle Road Burlington ON*** | ***EHS***

Order No:	20161003125	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Express Report	**Client Prov/State:**	ON
Report Date:	03-OCT-16	**Search Radius (km):**	.25
Date Received:	03-OCT-16	**X:**	-79.784462
Previous Site Name:		**Y:**	43.399504
Lot/Building Size:			
Additional Info Ordered:	Aerial Photos		

---

40 | ***1 of 1*** | ***W/81.0*** | ***141.8 / 4.90*** | ***Upper Middle Road Enclave Inc., Seveil Incorporated Canada, and Azaran International Trading Ltd., for and on behalf of Upper Middle Road Enclave Limited Partnership 5219 Upper Middle Road 2004 and 2005 Georgina Court Burlington ON L4B 1G2*** | ***ECA***

Approval No:	7635-C8VQ3A	**MOE District:**	Halton-Peel
Approval Date:	November, 30 2021	**City:**	
Status:	Approved	**Longitude:**	
Record Type:	ECA	**Latitude:**	
Link Source:	IDS	**Geometry X:**	-8881587.7243

SWP Area Name:	Halton	**Geometry Y:**	5373010.580899997
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Upper Middle Road Enclave Inc., Seveil Incorporated Canada, and Azaran International Trading Ltd., for and on behalf of Upper Middle Road Enclave Limited Partnership		
Address:	5219 Upper Middle Road 2004 and 2005 Georgina Court		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/2921-C87RVZ-14.pdf		
PDF Site Location:			

41 | **1 of 1** | **E/81.6** | **130.6 / -6.24** | **5570 MAINWAY BURLINGTON ON** | **WWIS**

Well ID:	2810465	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	01/05/2006
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z40276	**Contractor:**	6607
Tag:	A034594	**Form Version:**	3
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/281\2810465.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/08/2005
Year Completed:	2005
Depth (m):	6.4
Latitude:	43.4009349103477
Longitude:	-79.7651022602772
X:	-79.76510211071576
Y:	43.400934907750674
Path:	281\2810465.pdf

Bore Hole Information

Bore Hole ID:	11552375	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599998.00
Code OB Desc:		**North83:**	4806080.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	11/08/2005	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	933042958
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	6.400000095367432
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933042959
Layer:	3
Color:	2
General Color:	GREY
Material 1:	
Material 1 Desc:	
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	6.400000095367432
Formation End Depth:	
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933042957
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	12
Material 2 Desc:	STONES
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.0
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933286874
Layer:	1
Plug From:	0.0
Plug To:	1.9989999532699585

Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 962810465
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 11561982
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930874626
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 2.0999999046325684
Casing Diameter: 5.900000095367432
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 933416912
Layer: 1
Slot: 10
Screen Top Depth: 2.0999999046325684
Screen End Depth: 9.600000381469727
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Water Details

Water ID: 934070647
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 7.099999904632568
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11683486
Diameter: 15.0
Depth From: 0.0
Depth To: 9.600000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	1 of 17	E/82.5	130.8 / -6.04	VE-GO Engineering Inc. 5420 Mainway Unit 3 Burlington ON L7L 6A4	SCT

Established: 1986
Plant Size (ft²): 10000
Employment:

--Details--
Description: Machine Shops
SIC/NAICS Code: 332710

Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

Description: Engineering Services
SIC/NAICS Code: 541330

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	2 of 17	E/82.5	130.8 / -6.04	ALS Canada Ltd 5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	GEN

Generator No: ON6381922
SIC Code: 541380
SIC Description: Testing Laboratories
Approval Years: 05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 114
Waste Class Name: OTHER INORGANIC ACID WASTES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	3 of 17	E/82.5	130.8 / -6.04	ALS Canada Ltd. 5420 Mainway Drive, Unit 5 & 6 Burlington Ontario L7L 6A4 Burlington ON	EBR

EBR Registry No: IA05E0669
Ministry Ref No: 8279-6BVKVQ
Notice Type: Instrument Decision
Notice Stage:
Notice Date: October 27, 2006
Proposal Date: June 24, 2005
Year: 2005
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Off Instrument Name:
Posted By:
Company Name: ALS Canada Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 5420 Mainway Drive, Unit 5 & 6, Burlington Ontario, L7L 6A4
Comment Period:
URL:

Site Location Details:

5420 Mainway Drive, Unit 5 & 6 Burlington Ontario L7L 6A4 Burlington

---

42	***4 of 17***	***E/82.5***	***130.8 / -6.04***	***ALS Canada Ltd.*** ***5420 Mainway Drive Unit Unit 5 & 6 Burlington,*** ***Regional Municipality of Halton L7L 6A4 CITY OF BURLINGTON*** ***ON***	***EBR***

EBR Registry No: 011-0660
Ministry Ref No: 0287-86VK9H
Notice Type: Instrument Decision
Notice Stage:
Notice Date: February 07, 2011
Proposal Date: July 21, 2010
Year: 2010
Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: ALS Canada Ltd.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 9936 67 avenue, Edmonton Alberta, Canada T6E 0P5
Comment Period:
URL:

Site Location Details:

5420 Mainway Drive Unit Unit 5 & 6 Burlington, Regional Municipality of Halton L7L 6A4 CITY OF BURLINGTON

42	***5 of 17***	***E/82.5***	***130.8 / -6.04***	***ALS Canada Ltd.*** ***5420 Mainway Drive, Unit 5 & 6*** ***Burlington ON L7L 6A4***	***CA***

Certificate #: 9482-6HXMRA
Application Year: 2005
Issue Date: 11/8/2005
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	6 of 17	E/82.5	130.8 / -6.04	ALS Canada Ltd. 5420 Mainway Dr Burlington ON L7L 6A4	CA

Certificate #: 9163-8DMQFN
Application Year: 2011
Issue Date: 1/31/2011
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	7 of 17	E/82.5	130.8 / -6.04	M&H Probing Systems Ltd. 5420 Mainway Unit 2D Burlington ON L7L 6A4	SCT

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417930

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	8 of 17	E/82.5	130.8 / -6.04	5420 Mainway Drive, Unit 5 & 6 Burlington ON L7L 6A4	SPL

Ref No: 5486-89HTUA
Year:
Incident Dt:
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/21/2010
Dt Document Closed:
Site No:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: ALS Laboratories<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality:
Site Lot:
Site Conc:
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site Geo Ref Accu:	
Site Map Datum:	
Northing:	
Easting:	
Incident Cause:	Other Discharges
Incident Preceding Spill:	
Environment Impact:	Confirmed
Health Env Consequence:	
Nature of Impact:	Soil Contamination
Contaminant Qty:	40 L
System Facility Address:	
Client Name:	
Client Type:	
Source Type:	
Contaminant Code:	15
Contaminant Name:	HYDRAULIC OIL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	
Incident Reason:	Spill
Incident Summary:	ALS Labs: spill of up to 40 L hydraulic oil to tarmac, clnd.
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Motor Vehicle
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	9 of 17	E/82.5	130.8 / -6.04	**ALS Canada Ltd** **5420 Mainway Drive Unit #5** **Burlington ON L7L 6A4**	GEN

Generator No:	ON6381922
SIC Code:	541380
SIC Description:	Testing Laboratories
Approval Years:	2009
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	211
Waste Class Name:	AROMATIC SOLVENTS
Waste Class:	114
Waste Class Name:	OTHER INORGANIC ACID WASTES
Waste Class:	146
Waste Class Name:	OTHER SPECIFIED INORGANICS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	241
Waste Class Name:	HALOGENATED SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	10 of 17	E/82.5	130.8 / -6.04	ALS Canada Ltd 5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	GEN

Generator No: ON6381922
SIC Code: 541380
SIC Description: Testing Laboratories
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 114
Waste Class Name: OTHER INORGANIC ACID WASTES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	11 of 17	E/82.5	130.8 / -6.04	ALS Canada Ltd 5420 Mainway Drive Unit #5 Burlington ON L7L 6A4	GEN

Generator No: ON6381922
SIC Code: 541380
SIC Description: Testing Laboratories
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 114
Waste Class Name: OTHER INORGANIC ACID WASTES

---

42 | **12 of 17** | **E/82.5** | **130.8 / -6.04** | **ALS Canada Ltd**
5420 Mainway Drive Unit #5
Burlington ON L7L 6A4 | **GEN**

Generator No: ON6381922
SIC Code: 541380
SIC Description: Testing Laboratories
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 114
Waste Class Name: OTHER INORGANIC ACID WASTES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

---

42 | **13 of 17** | **E/82.5** | **130.8 / -6.04** | **ALS Canada Ltd**
5420 Mainway Drive Unit #5
Burlington ON | **GEN**

Generator No: ON6381922
SIC Code: 541380
SIC Description: TESTING LABORATORIES
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 241

Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 114
Waste Class Name: OTHER INORGANIC ACID WASTES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

---

42 **14 of 17** **E/82.5** **130.8 / -6.04** **ALS Canada Ltd.**
5420 Mainway Drive, Unit 5 & 6
Burlington ON L7L 6A4 **ECA**

Approval No: 9482-6HXMRA
Approval Date: 2005-11-08
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-AIR
Project Type: AIR
Business Name: ALS Canada Ltd.
Address: 5420 Mainway Drive, Unit 5 & 6
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8279-6BVKVQ-14.pdf
PDF Site Location:

MOE District: Halton-Peel
City:
Longitude: -79.76867
Latitude: 43.398685
Geometry X:
Geometry Y:

---

42 **15 of 17** **E/82.5** **130.8 / -6.04** **ALS Canada Ltd.**
5420 Mainway Dr
Burlington ON L7L 6A4 **ECA**

Approval No: 9163-8DMQFN
Approval Date: 2011-01-31
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-AIR
Project Type: AIR
Business Name: ALS Canada Ltd.
Address: 5420 Mainway Dr
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0287-86VK9H-14.pdf
PDF Site Location:

MOE District: Halton-Peel
City:
Longitude: -79.76867
Latitude: 43.398685
Geometry X:
Geometry Y:

---

42 **16 of 17** **E/82.5** **130.8 / -6.04** **ALS Canada Ltd**
5420 Mainway Unit #1
Burlington ON L7L 6A4 **GEN**

Generator No: ON6381922

SIC Code:	541380
SIC Description:	TESTING LABORATORIES
Approval Years:	2015
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Alastair Blythe
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	905-331-3111 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	146
Waste Class Name:	OTHER SPECIFIED INORGANICS
Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	114
Waste Class Name:	OTHER INORGANIC ACID WASTES
Waste Class:	211
Waste Class Name:	AROMATIC SOLVENTS
Waste Class:	241
Waste Class Name:	HALOGENATED SOLVENTS
Waste Class:	312
Waste Class Name:	PATHOLOGICAL WASTES
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
42	17 of 17	E/82.5	130.8 / -6.04	**ALS Canada Ltd** **5420 Mainway Unit #1** **Burlington ON L7L 6A4**	GEN

Generator No:	ON6381922
SIC Code:	541380
SIC Description:	TESTING LABORATORIES
Approval Years:	2014
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Alastair Blythe
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	905-331-3111 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	114
Waste Class Name:	OTHER INORGANIC ACID WASTES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

---

43 | **1 of 1** | **N/82.5** | **144.2 / 7.38** | **SOUTH WEST INTERSECTION OF BURLOAK & UPPER MIDDLE Burlington ON** | **WWIS**

Well ID:	7105631	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Other	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	05/26/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z60545	**Contractor:**	6607
Tag:	A062359	**Form Version:**	4
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7105631.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/17/2008
Year Completed: 2008
Depth (m): 10.6
Latitude: 43.4078449756262
Longitude: -79.7746570275433
X: -79.7746568785939
Y: 43.407844973946915
Path: 710\7105631.pdf

Bore Hole Information

Bore Hole ID:	1001600904	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599213.00
Code OB Desc:		**North83:**	4806836.00

Open Hole:
Cluster Kind:
Date Completed: 03/17/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1001724265
Layer: 2
Color: 6
General Color: BROWN
Material 1:
Material 1 Desc:
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.2000000476837158
Formation End Depth:
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001724266
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth:
Formation End Depth: 10.600000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001724267
Layer: 4
Color: 6
General Color: BROWN
Material 1:
Material 1 Desc:
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 10.600000381469727
Formation End Depth:
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID:	1001724264
Layer:	1
Color:	7
General Color:	RED
Material 1:	06
Material 1 Desc:	SILT
Material 2:	28
Material 2 Desc:	SAND
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.2000000476837158
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001724269
Layer:	1
Plug From:	0.0
Plug To:	1.399999976158142
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001724271
Layer:	3
Plug From:	7.900000095367432
Plug To:	9.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1001724270
Layer:	2
Plug From:	3.0
Plug To:	4.400000095367432
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1001724276
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	BORING

Pipe Information

Pipe ID:	1001724263
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID: 1001724273
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.5
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1001724274
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1001724272
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 2.799999952316284
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001724268
Diameter: 21.0
Depth From:
Depth To: 10.600000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

---

44 | ***1 of 1*** | ***ESE/84.8*** | ***130.1 / -6.73*** | ***John Lucas Drive & Sutton Drive lot 1 con 2 Burlington ON*** | ***WWIS***

Well ID: 7405082
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 3OLG3SD8
Tag: A334218
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 11/30/2021
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7472
Form Version: 9
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Municipality: BURLINGTON CITY
Site Info:

Additional Detail(s) (Map)

Bore Hole ID:	1008873228	***Tag No:***	A334218
Depth M:	7.62	***Contractor:***	7472
Year Completed:	2021	***Latitude:***	43.3983807972875
Well Completed Dt:	10/29/2021	***Longitude:***	-79.7678955274888
Audit No:	3OLG3SD8	***Y:***	43.398380794432185
Path:		***X:***	-79.7678953783099

Bore Hole Information

Bore Hole ID:	1008873228	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599776.00
Code OB Desc:		***North83:***	4805793.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/29/2021	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1008873353
Layer: 1
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 06
Material 2 Desc: SILT
Material 3: 79
Material 3 Desc: PACKED
Formation Top Depth: 0.0
Formation End Depth: 5.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1008873354
Layer: 2
Color: 2
General Color: GREY
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 73
Material 3 Desc: HARD
Formation Top Depth: 5.0

Formation End Depth: 25.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008873481
Layer: 2
Plug From: 14.0
Plug To: 25.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008873442
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1008873480
Layer: 1
Plug From: 0.0
Plug To: 14.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1008873303
Method Construction Code: E
Method Construction: Auger
Other Method Construction:

Pipe Information

Pipe ID: 1008873273
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1008873375
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 15.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1008873395

Layer:	1
Slot:	10
Screen Top Depth:	15.0
Screen End Depth:	25.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.5

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1008873274
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1008873422
Diameter:	7.5
Depth From:	0.0
Depth To:	25.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

45	1 of 1	N/84.9	144.8 / 8.00	NW CORNER OF UPPER MIDDLE & BURLOAK lot 1 Burlington ON	WWIS

Well ID:	7108932	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	07/31/2008
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z60564	**Contractor:**	6607
Tag:	A062378	**Form Version:**	4
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7108932.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/24/2008
Year Completed: 2008
Depth (m): 10.6
Latitude: 43.4078282962921
Longitude: -79.7739410337808
X: -79.77394088471033
Y: 43.40782829389292
Path: 710\7108932.pdf

Bore Hole Information

Bore Hole ID: 1001703544
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 03/24/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599271.00
North83: 4806835.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1001727891
Layer: 1
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.600000023841858
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001727892
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 15
Material 3 Desc: LIMESTONE

Formation Top Depth: 1.600000023841858
Formation End Depth: 10.600000381469727
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001727895
Layer: 2
Plug From: 3.0
Plug To: 4.400000095367432
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001727894
Layer: 1
Plug From: 0.0
Plug To: 1.5
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001727896
Layer: 3
Plug From: 7.900000095367432
Plug To: 9.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1001727901
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction: BORING

Pipe Information

Pipe ID: 1001727890
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001727898
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 9.0
Casing Diameter: 2.5
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1001727899
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1001727897
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 3.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1001727893
Diameter: 21.959999084472656
Depth From:
Depth To: 10.600000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

---

46 **1 of 1** **WSW/85.0** **135.8 / -1.00** **Walker Environmental Group Inc.**
5030 Mainway
Burlington ON L7L 5Z1
WDS

Approval No: A210114
Mob Unit Cert No:
EBR Registry No:
Status: Approved
Facility Type:
Record Type:
Link Source:
Project Type:
Application Status:
Issue Date: 2/6/15
Input Date:
Date Received:
Est Closure Date:
Mobile Capacity:
Mobile Units:
Mobile Description:
Prop City:
Prop Postal:
Prop Phone:
Serial Link:
Approval Type:
Proponent:
Prop Address:
Proponent County/District:
Full Address: Norjohn Transfer Station 5030 Mainway, U nits 10 & 11 Burlington City, Regional Municipality OfaHlton L7L 5Z1
Site Lot:
Waste Class Code:
Waste Class:
Waste Type:

Total Area (ha):
Landfill Cap (m³):
Transfer Area (ha):
Transfer Cap (m³):
Transfer Cert No:
Inciner. Area (ha):
Inciner. Cap (t):
Process Area (m³):
Process Cap (m³/d):
Process Vol (m³):
Process Feed (m³):
Site Concession:
Site Region/County: Burlington
SWP Area Name:
MOE District:
District Office:
Latitude: 43.39472222222222086429610499180853366851806640625
Longitude: -79.78527777777777885148680070415139198303222656 25
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Type Other:
Waste Description:
Landfill Monitoring:
Landfill Ctrl Type:
Site Closing Description:
Project Description:
Municipalities Served:
Approval Description:
Other Approvals/Permits:
PDF URL:
PDF Site Location:

---

47 | ***1 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***MCorp Technologies, Inc.***
5150 Mainway Unit 2
Burlington ON L7L 5Z1 | ***SCT***

Established: 01-JUN-02
Plant Size (ft²):
Employment:

--Details--
Description: Plastic Bottle Manufacturing
SIC/NAICS Code: 326160

Description: Plastic Bottle Manufacturing
SIC/NAICS Code: 326160

---

47 | ***2 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***Mcorp Technologies Inc.***
5150 Mainway Drive Unit 2
Burlington ON | ***GEN***

Generator No: ON8701718
SIC Code: 326160
SIC Description: PLASTIC BOTTLE MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

47 | ***3 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***MTI Preforms Limited***
5150 Mainway Unit 2
Burlington ON L7L 5Z1 | ***SCT***

Established:
Plant Size (ft²):
Employment:

--Details--
Description: All Other Plastic Product Manufacturing

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC/NAICS Code: 326198

Description: Plastic Bottle Manufacturing
SIC/NAICS Code: 326160

Description: Metal Can Manufacturing
SIC/NAICS Code: 332431

Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	4 of 23	SSE/86.0	130.8 / -6.00	Mcorp Technologies Inc. 5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	GEN

Generator No: ON8701718
SIC Code: 326160
SIC Description: Plastic Bottle Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	5 of 23	SSE/86.0	130.8 / -6.00	Mcorp Technologies Inc. 5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	GEN

Generator No: ON8701718
SIC Code: 326160
SIC Description: Plastic Bottle Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	6 of 23	SSE/86.0	130.8 / -6.00	Mcorp Technologies Inc. 5150 Mainway Drive Unit 2 Burlington ON L7L 5Z1	GEN

Generator No: ON8701718
SIC Code: 326160

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Description: Plastic Bottle Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

47	7 of 23	SSE/86.0	130.8 / -6.00	**Mcorp Technologies Inc.** **5150 Mainway Drive Unit 2** **Burlington ON L7L 5Z1**	GEN

Generator No: ON8701718
SIC Code: 326160
SIC Description: Plastic Bottle Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

47	8 of 23	SSE/86.0	130.8 / -6.00	**Rowhedge Construction Limited** **5150 Mainway Drive** **Burlington ON**	GEN

Generator No: ON2840030
SIC Code: 236210
SIC Description: Industrial Building and Structure Construction
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

47	9 of 23	SSE/86.0	130.8 / -6.00	**Ductmate Canada Limited** **1-5150 Mainway** **Burlington ON**	GEN

Generator No: ON7211771
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 265
Waste Class Name: GRAPHIC ART WASTES

47	10 of 23	SSE/86.0	130.8 / -6.00	**Rowhedge Construction Limited** **5150 Mainway Drive** **Burlington ON**	GEN

Generator No: ON2840030
SIC Code: 236210
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

47	11 of 23	SSE/86.0	130.8 / -6.00	**Mcorp Technologies Inc.** **5150 Mainway Drive Unit 2** **Burlington ON L7L 5Z1**	GEN

Generator No: ON8701718
SIC Code: 326160
SIC Description: PLASTIC BOTTLE MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Elias El-Hajar
Choice of Contact: CO_ADMIN
Phone No Admin: 905-319-2441 Ext.224
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

47	12 of 23	SSE/86.0	130.8 / -6.00	**Rowhedge Construction Limited** **5150 Mainway Drive**	GEN

Burlington ON L7L 5Z1

Generator No: ON2840030
SIC Code: 236210
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Daron McGregor
Choice of Contact: CO_ADMIN
Phone No Admin: 905-849-1360 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

47 | ***13 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***Mcorp Technologies Inc.*** ***5150 Mainway Drive Unit 2*** ***Burlington ON L7L 5Z1*** | ***GEN***

Generator No: ON8701718
SIC Code: 326160
SIC Description: PLASTIC BOTTLE MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Elias El-Hajar
Choice of Contact: CO_ADMIN
Phone No Admin: 905-319-2441 Ext.224
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

47 | ***14 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***Rowhedge Construction Limited*** ***5150 Mainway Drive*** ***Burlington ON L7L 5Z1*** | ***GEN***

Generator No: ON2840030
SIC Code: 236210
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Daron McGregor
Choice of Contact: CO_ADMIN
Phone No Admin: 905-849-1360 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		251			
Waste Class Name:		OIL SKIMMINGS & SLUDGES			

47	15 of 23	SSE/86.0	130.8 / -6.00	**Rowhedge Construction Limited** **5150 Mainway Drive** **Burlington ON L7L 5Z1**	GEN

Generator No: ON2840030
SIC Code: 236210
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Daron McGregor
Choice of Contact: CO_ADMIN
Phone No Admin: 905-849-1360 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

47	16 of 23	SSE/86.0	130.8 / -6.00	**Mcorp Technologies Inc.** **5150 Mainway Drive Unit 2** **Burlington ON L7L 5Z1**	GEN

Generator No: ON8701718
SIC Code: 326160
SIC Description: PLASTIC BOTTLE MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

47	17 of 23	SSE/86.0	130.8 / -6.00	**Mcorp Technologies Inc.** **5150 Mainway Drive Unit 2** **Burlington ON L7L 5Z1**	GEN

Generator No: ON8701718
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 253 L
Waste Class Name: Emulsified oils

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

---

47 | ***18 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***Rowhedge Construction Limited***
5150 Mainway Drive
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON2840030
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 D
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

47 | ***19 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***WENTWORTH TECH INC.***
5150 MAINWAY
BURLINGTON ON L7L 5Z1 | ***EASR***

Approval No: R-010-7110233496
Status: REGISTERED
Date: 2017-09-15
Record Type: EASR
Link Source: MOFA
Project Type: Air Emissions
Full Address:
Approval Type: EASR-Air Emissions
SWP Area Name: Halton
PDF NAICS Code: 326160
PDF URL:
PDF Site Location:

MOE District: Halton-Peel
Municipality: BURLINGTON
Latitude: 43.39305556
Longitude: -79.77388889
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	20 of 23	SSE/86.0	130.8 / -6.00	Rowhedge Construction Limited 5150 Mainway Drive Burlington ON L7L 5Z1	GEN

Generator No: ON2840030
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 D
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	21 of 23	SSE/86.0	130.8 / -6.00	Irco Automation Inc. Irco Automation Inc. 5150 Mainway, Unit #2 Burlington ON L7L 5Z1	GEN

Generator No: ON2915663
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 H
Waste Class Name: Wastes from the use of pigments, coatings and paints

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
47	22 of 23	SSE/86.0	130.8 / -6.00	Irco Automation Inc. Irco Automation Inc. 5150 Mainway, Unit #2 Burlington ON L7L 5Z1	GEN

Generator No: ON2915663
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 145 H
Waste Class Name: Wastes from the use of pigments, coatings and paints

---

47 | ***23 of 23*** | ***SSE/86.0*** | ***130.8 / -6.00*** | ***Irco Automation Inc. Irco Automation Inc.***
5150 Mainway, Unit #2
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON2915663
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 H
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

---

48 | ***1 of 21*** | ***SSE/87.2*** | ***130.8 / -6.00*** | ***CPC Pumps International Ltd.***
5200 Mainway
Burlington ON L7L 5Z1 | ***SCT***

Established: 01-JUL-58
Plant Size (ft²): 40000
Employment:

--Details--
Description: Pump and Compressor Manufacturing
SIC/NAICS Code: 333910

Description: Pump and Compressor Manufacturing
SIC/NAICS Code: 333910

---

48 | ***2 of 21*** | ***SSE/87.2*** | ***130.8 / -6.00*** | ***CPC PUMPS INTERNATIONAL***
5200 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON5405870
SIC Code: 332710
SIC Description: Machine Shops
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

---

48 | ***3 of 21*** | ***SSE/87.2*** | ***130.8 / -6.00*** | ***CPC PUMPS INTERNATIONAL***
5200 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON5405870
SIC Code: 332710
SIC Description: Machine Shops
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

48 | ***4 of 21*** | ***SSE/87.2*** | ***130.8 / -6.00*** | ***CPC PUMPS INTERNATIONAL***
5200 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON5405870
SIC Code: 332710

SIC Description: Machine Shops
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

48	***5 of 21***	***SSE/87.2***	***130.8 / -6.00***	***Melrose Investments Inc*** ***5200 Mainway Drive*** ***Burlington ON***	***GEN***

Generator No: ON7185369
SIC Code: 236210
SIC Description: Industrial Building and Structure Construction
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

48	***6 of 21***	***SSE/87.2***	***130.8 / -6.00***	***CPC PUMPS INTERNATIONAL*** ***5200 Mainway*** ***Burlington ON L7L 5Z1***	***GEN***

Generator No: ON5405870
SIC Code: 332710
SIC Description: Machine Shops
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

MHSW Facility:

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 221
Waste Class Name: LIGHT FUELS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
48	7 of 21	SSE/87.2	130.8 / -6.00	5200 Mainway Drive Burlington ON	EHS

Order No: 20140514040
Status: C
Report Type: Custom Report
Report Date: 27-MAY-14
Date Received: 14-MAY-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.773328
Y: 43.393528

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
48	8 of 21	SSE/87.2	130.8 / -6.00	CPC PUMPS INTERNATIONAL 5200 Mainway Burlington ON	GEN

Generator No: ON5405870
SIC Code: 332710
SIC Description: MACHINE SHOPS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 221
Waste Class Name: LIGHT FUELS

48	9 of 21	SSE/87.2	130.8 / -6.00	Melrose Investments Inc 5200 Mainway Drive Burlington ON	GEN

Generator No: ON7185369
SIC Code: 236210
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

48	10 of 21	SSE/87.2	130.8 / -6.00	Melrose Investments Inc 5200 Mainway Drive Burlington ON L7L 5Z1	GEN

Generator No: ON7185369
SIC Code: 236210
SIC Description: INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Daron McGregor
Choice of Contact: CO_ADMIN
Phone No Admin: 905-849-1360 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

48	11 of 21	SSE/87.2	130.8 / -6.00	CPC PUMPS INTERNATIONAL 5200 Mainway Burlington ON L7L 5Z1	GEN

Generator No: ON5405870
SIC Code: 332710

SIC Description:	MACHINE SHOPS
Approval Years:	2015
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Villa Quicho
Choice of Contact:	CO_ADMIN
Phone No Admin:	289 288 4753 Ext.226
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	213
Waste Class Name:	PETROLEUM DISTILLATES
Waste Class:	122
Waste Class Name:	ALKALINE WASTES - OTHER METALS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES
Waste Class:	221
Waste Class Name:	LIGHT FUELS
Waste Class:	253
Waste Class Name:	EMULSIFIED OILS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
48	12 of 21	SSE/87.2	130.8 / -6.00	***Melrose Investments Inc*** ***5200 Mainway Drive*** ***Burlington ON L7L 5Z1***	GEN

Generator No:	ON7185369
SIC Code:	236210
SIC Description:	INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION
Approval Years:	2015
PO Box No:	
Country:	Canada
Status:	
Co Admin:	Daron McGregor
Choice of Contact:	CO_ADMIN
Phone No Admin:	905-849-1360 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	251
Waste Class Name:	OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
48	13 of 21	SSE/87.2	130.8 / -6.00	***Melrose Investments Inc*** ***5200 Mainway Drive*** ***Burlington ON L7L 5Z1***	GEN

Generator No:	ON7185369
SIC Code:	236210
SIC Description:	INDUSTRIAL BUILDING AND STRUCTURE CONSTRUCTION

Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Daron McGregor
Choice of Contact: CO_ADMIN
Phone No Admin: 905-849-1360 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

48 | ***14 of 21*** | ***SSE/87.2*** | ***130.8 / -6.00*** | ***CPC PUMPS INTERNATIONAL*** ***5200 Mainway*** ***Burlington ON L7L 5Z1*** | ***GEN***

Generator No: ON5405870
SIC Code: 332710
SIC Description: MACHINE SHOPS
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Villa Quicho
Choice of Contact: CO_ADMIN
Phone No Admin: 289 288 4753 Ext.226
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

48 | ***15 of 21*** | ***SSE/87.2*** | ***130.8 / -6.00*** | ***CPC PUMPS INTERNATIONAL*** ***5200 Mainway*** ***Burlington ON L7L 5Z1*** | ***GEN***

Generator No: ON5405870
SIC Code:
SIC Description:
Approval Years: As of Dec 2018

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 253 L
Waste Class Name: Emulsified oils

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

48	***16 of 21***	***SSE/87.2***	***130.8 / -6.00***	***Melrose Investments Inc*** ***5200 Mainway Drive*** ***Burlington ON L7L 5Z1***	***GEN***

Generator No: ON7185369
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

48	***17 of 21***	***SSE/87.2***	***130.8 / -6.00***	***CPC PUMPS INTERNATIONAL*** ***5200 Mainway*** ***Burlington ON L7L 5Z1***	***GEN***

Generator No: ON5405870
SIC Code: 332710
SIC Description: MACHINE SHOPS
Approval Years: 2016
PO Box No:

Country:	Canada
Status:	
Co Admin:	Villa Quicho
Choice of Contact:	CO_ADMIN
Phone No Admin:	289 288 4753 Ext.226
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	122
Waste Class Name:	ALKALINE WASTES - OTHER METALS
Waste Class:	253
Waste Class Name:	EMULSIFIED OILS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	221
Waste Class Name:	LIGHT FUELS
Waste Class:	213
Waste Class Name:	PETROLEUM DISTILLATES
Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES

48	**18 of 21**	**SSE/87.2**	**130.8 / -6.00**	**CPC PUMPS INTERNATIONAL** **5200 Mainway** **Burlington ON L7L 5Z1**	**GEN**

Generator No:	ON5405870
SIC Code:	
SIC Description:	
Approval Years:	As of Jul 2020
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	252 L
Waste Class Name:	Waste crankcase oils and lubricants
Waste Class:	221 I
Waste Class Name:	Light fuels
Waste Class:	145 I
Waste Class Name:	Wastes from the use of pigments, coatings and paints
Waste Class:	331 I
Waste Class Name:	Waste compressed gases including cylinders
Waste Class:	253 L

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: Emulsified oils

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

---

48 | **19 of 21** | **SSE/87.2** | **130.8 / -6.00** | **Melrose Investments Inc**
5200 Mainway Drive
Burlington ON L7L 5Z1 | **GEN**

Generator No: ON7185369
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

48 | **20 of 21** | **SSE/87.2** | **130.8 / -6.00** | **CPC PUMPS INTERNATIONAL**
5200 Mainway
Burlington ON L7L 5Z1 | **GEN**

Generator No: ON5405870
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 122 L
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 253 L
Waste Class Name: Emulsified oils

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

48	21 of 21	SSE/87.2	130.8 / -6.00	CPC PUMPS INTERNATIONAL 5200 Mainway Burlington ON L7L 5Z1	GEN

Generator No: ON5405870
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 221 I
Waste Class Name: LIGHT FUELS

Waste Class: 253 L
Waste Class Name: EMULSIFIED OILS

Waste Class: 122 L
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

49	1 of 5	E/90.2	130.0 / -6.82	DIE-X-LIMITED 5540 MAINWAY DR BURLINGTON ON L7L 6C4	SCT

Established: 1988
Plant Size (ft²): 7000
Employment: 12

--Details--
Description: SPECIAL DIES & TOOLS & INDUSTRIAL MOLDS
SIC/NAICS Code: 3544

49	2 of 5	E/90.2	130.0 / -6.82	AUTOMATED FLUID POWER 5540 Mainway Dr Unit 1-2	SCT

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Burlington ON L7L 6C4	

Established: 1981
Plant Size (ft²): 5000
Employment: 17

--Details--
Description: Other Ornamental and Architectural Metal Products Manufacturing
SIC/NAICS Code: 332329

Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

49	3 of 5	E/90.2	130.0 / -6.82	**Automated Fluid Power & Control Inc.** **5540 Mainway Dr Unit 1-2** **Burlington ON L7L 6C4**	SCT

Established: 1981
Plant Size (ft²): 5000
Employment: 17

--Details--
Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

49	4 of 5	E/90.2	130.0 / -6.82	**Automated Fluid Power** **5540 Mainway** **Burlington ON L7L 6C4**	SCT

Established: 1981
Plant Size (ft²): 15000
Employment:

--Details--
Description: Other Ornamental and Architectural Metal Product Manufacturing
SIC/NAICS Code: 332329

Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Semiconductor and Other Electronic Component Manufacturing
SIC/NAICS Code: 334410

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Electronic Components, Navigational and Communications Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417320

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
49	5 of 5	E/90.2	130.0 / -6.82	Deloitte & Touche Inc. 5540 Mainway Burlington ON L7L 6C4	GEN

Generator No: ON4718969
SIC Code: 522329
SIC Description: Other Financial Transactions Processing and Clearing House Activities
Approval Years: 07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
50	1 of 16	SSE/91.2	130.9 / -5.97	Invitrogen Canada 5250 Mainway Burlington ON L7L 5Z1	GEN

Generator No: ON9232081
SIC Code: 541990
SIC Description: All Other Professional Scientific and Technical Services
Approval Years: 07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
50	2 of 16	SSE/91.2	130.9 / -5.97	Invitrogen Canada 5250 Mainway Burlington ON L7L 5Z1	GEN

Generator No: ON9232081
SIC Code: 541990

SIC Description: All Other Professional Scientific and Technical Services
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

50 | ***3 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Invitrogen Canada***
5250 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON9232081
SIC Code: 541990
SIC Description: All Other Professional Scientific and Technical Services
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

50 | ***4 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Life Technologies Inc***
5250 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON9232081
SIC Code: 541990
SIC Description: All Other Professional Scientific and Technical Services
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:

Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

---

50 | ***5 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Life Technologies Inc***
5250 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON9232081
SIC Code: 541990
SIC Description: All Other Professional Scientific and Technical Services
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

---

50 | ***6 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Life Technologies Inc***
5250 Mainway
Burlington ON | ***GEN***

Generator No: ON9232081
SIC Code: 541990
SIC Description: ALL OTHER PROFESSIONAL, SCIENTIFIC AND TECHNICAL SERVICES
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

50 | **7 of 16** | **SSE/91.2** | **130.9 / -5.97** | **Life Technologies Inc**
5250 Mainway
Burlington ON L7L 5Z1 | **GEN**

Generator No: ON9232081
SIC Code: 541990
SIC Description: ALL OTHER PROFESSIONAL, SCIENTIFIC AND TECHNICAL SERVICES
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Tracey L Arsenault
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-335-2255 Ext.41867
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

---

50 | **8 of 16** | **SSE/91.2** | **130.9 / -5.97** | **Life Technologies Inc**
5250 Mainway
Burlington ON L7L 5Z1 | **GEN**

Generator No: ON9232081
SIC Code: 541990
SIC Description: ALL OTHER PROFESSIONAL, SCIENTIFIC AND TECHNICAL SERVICES
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Tracey L Arsenault
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-335-2255 Ext.41867
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 148

Waste Class Name: INORGANIC LABORATORY CHEMICALS

---

50 | ***9 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Life Technologies Inc*** | ***GEN***
5250 Mainway
Burlington ON L7L 5Z1

Generator No: ON9232081
SIC Code: 541990
SIC Description: ALL OTHER PROFESSIONAL, SCIENTIFIC AND TECHNICAL SERVICES
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Tammie L Gaines
Choice of Contact: CO_ADMIN
Phone No Admin: 905-335-2255 Ext.41767
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

---

50 | ***10 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Melrose Investments Inc.*** | ***GEN***
5250 Mainway Drive
Burlington ON L7L 5Z1

Generator No: ON4430544
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

50 | ***11 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Thermo Fisher Scientific*** | ***GEN***
5250 Mainway
Burlington ON L7L 5Z1

Generator No: ON2694847
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada

Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 C
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

---

50 | ***12 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***5250 Mainway Burlington ON L7L 5Z1*** | ***EHS***

Order No: 20181210086
Status: C
Report Type: Custom Report
Report Date: 18-DEC-18
Date Received: 10-DEC-18
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.771942
Y: 43.394697

---

50 | ***13 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Thermo Fisher Scientific 5250 Mainway Burlington ON L7L 5Z1*** | ***GEN***

Generator No: ON2694847
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 148 L
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 263 C
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

50	*14 of 16*	*SSE/91.2*	*130.9 / -5.97*	***Melrose Investments Inc.*** ***5250 Mainway Drive*** ***Burlington ON L7L 5Z1***	***GEN***

Generator No: ON4430544
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

50	*15 of 16*	*SSE/91.2*	*130.9 / -5.97*	***Thermo Fisher Scientific*** ***5250 Mainway*** ***Burlington ON L7L 5Z1***	***GEN***

Generator No: ON2694847
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:

MHSW Facility:

Detail(s)

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 L
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 263 C
Waste Class Name: Misc. waste organic chemicals

---

50 | ***16 of 16*** | ***SSE/91.2*** | ***130.9 / -5.97*** | ***Thermo Fisher Scientific***
5250 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON2694847
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 L
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 148 L
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 I
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 263 B

Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 C
Waste Class Name: ORGANIC LABORATORY CHEMICALS

---

51 | **1 of 1** | **NNE/91.6** | **144.8 / 8.00** | **lot 35 con 2 ON** | **WWIS**

Well ID:	2802408	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Domestic	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	1
Final Well Status:	Water Supply	**Date Received:**	04/19/1961
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:		**Contractor:**	4602
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	035
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2802408.pdf

Additional Detail(s) (Map)

Well Completed Date:	03/21/1961
Year Completed:	1961
Depth (m):	13.4112
Latitude:	43.4075613130764
Longitude:	-79.7725557573522
X:	-79.77255560754693
Y:	43.40756131041381
Path:	280\2802408.pdf

Bore Hole Information

Bore Hole ID:	10148958	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599383.60
Code OB Desc:		**North83:**	4806807.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	03/21/1961	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	p5
Location Method Desc:	Original Pre1985 UTM Rel Code 5: margin of error : 100 m - 300 m		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931428462
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	5.0
Formation End Depth:	44.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931428461
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	962802408
Method Construction Code:	1
Method Construction:	Cable Tool
Other Method Construction:	

Pipe Information

Pipe ID:	10697528
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930253480
Layer:	1
Material:	1
Open Hole or Material:	STEEL
Depth From:	
Depth To:	11.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Casing

Casing ID:	930253481
Layer:	2
Material:	4
Open Hole or Material:	OPEN HOLE
Depth From:	
Depth To:	44.0
Casing Diameter:	6.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Results of Well Yield Testing

Pumping Test Method Desc:	PUMP
Pump Test ID:	992802408
Pump Set At:	
Static Level:	26.0
Final Level After Pumping:	43.0
Recommended Pump Depth:	43.0
Pumping Rate:	3.0
Flowing Rate:	
Recommended Pump Rate:	3.0
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	2
Water State After Test:	CLOUDY
Pumping Test Method:	1
Pumping Duration HR:	1
Pumping Duration MIN:	0
Flowing:	No

Water Details

Water ID:	933604478
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	43.0
Water Found Depth UOM:	ft

---

52 | ***1 of 1*** | ***NNE/93.4*** | ***145.0 / 8.14*** | ***lot 35 con 2 ON*** | ***WWIS***

Well ID:	2802407	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:	0	***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	01/07/1958
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:		***Contractor:***	1642
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	035
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	

Municipality: OAKVILLE TOWN
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2802407.pdf

Additional Detail(s) (Map)

Well Completed Date: 10/08/1957
Year Completed: 1957
Depth (m): 14.6304
Latitude: 43.4077647987767
Longitude: -79.7730580185587
X: -79.773057869818
Y: 43.40776479696061
Path: 280\2802407.pdf

Bore Hole Information

Bore Hole ID: 10148957
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/08/1957
Remarks:
Elevation:
Elevrc:
Zone: 17
East83: 599342.60
North83: 4806829.00
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: p9
Location Method Desc: Original Pre1985 UTM Rel Code 9: unknown UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931428459
Layer: 1
Color:
General Color:
Material 1: 23
Material 1 Desc: PREVIOUSLY DUG
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 19.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931428460
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:

Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 19.0
Formation End Depth: 48.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962802407
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10697527
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930253478
Layer: 1
Material:
Open Hole or Material:
Depth From:
Depth To: 19.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930253479
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 48.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 992802407
Pump Set At:
Static Level: 15.0
Final Level After Pumping: 35.0
Recommended Pump Depth:
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1

Pumping Duration HR: 0
Pumping Duration MIN: 15
Flowing: No

Water Details

Water ID: 933604477
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 45.0
Water Found Depth UOM: ft

---

53 | **1 of 8** | **ESE/94.2** | **131.8 / -5.00** | **Konecranes Canada Inc.**
5300 Mainway
Burlington ON L7L6A4 | **GEN**

Generator No: ON6330556
SIC Code: 811310
SIC Description: COMMERCIAL AND INDUSTRIAL MACHINERY AND EQUIPMENT (EXCEPT AUTOMOTIVE AND ELECTRONIC) REPAIR AND MAINTENANCE
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Nick Seaton
Choice of Contact: CO_OFFICIAL
Phone No Admin: 9059794783 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

---

53 | **2 of 8** | **ESE/94.2** | **131.8 / -5.00** | **Konecranes Canada Inc.**
5300 Mainway
Burlington ON L7L6A4 | **GEN**

Generator No: ON6330556
SIC Code: 811310
SIC Description: COMMERCIAL AND INDUSTRIAL MACHINERY AND EQUIPMENT (EXCEPT AUTOMOTIVE AND ELECTRONIC) REPAIR AND MAINTENANCE
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Nick Seaton
Choice of Contact: CO_OFFICIAL
Phone No Admin: 9059794783 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

53 **3 of 8** **ESE/94.2** **131.8 / -5.00** **Konecranes Canada Inc.**
5300 Mainway
Burlington ON L7L6A4 **GEN**

Generator No: ON6330556
SIC Code: 811310
SIC Description: COMMERCIAL AND INDUSTRIAL MACHINERY AND EQUIPMENT (EXCEPT AUTOMOTIVE AND ELECTRONIC) REPAIR AND MAINTENANCE
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Nick Seaton
Choice of Contact: CO_OFFICIAL
Phone No Admin: 9059794783 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

---

53 **4 of 8** **ESE/94.2** **131.8 / -5.00** **Melrose Investments Inc.**
5300 Mainway
Burlington ON L7L 5Z1 **GEN**

Generator No: ON6924680
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

53 **5 of 8** **ESE/94.2** **131.8 / -5.00** **Konecranes Canada Inc. Burlington**
5300 Mainway
Burlington ON L7L6A4 **GEN**

Generator No: ON6330556
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 T
Waste Class Name: Petroleum distillates

---

53 | ***6 of 8*** | ***ESE/94.2*** | ***131.8 / -5.00*** | ***Melrose Investments Inc.***
5300 Mainway
Burlington ON L7L 5Z1 | ***GEN***

Generator No: ON6924680
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

53 | ***7 of 8*** | ***ESE/94.2*** | ***131.8 / -5.00*** | ***Konecranes Canada Inc. Burlington***
5300 Mainway
Burlington ON L7L6A4 | ***GEN***

Generator No: ON6330556
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 213 T
Waste Class Name: Petroleum distillates

---

53 | ***8 of 8*** | ***ESE/94.2*** | ***131.8 / -5.00*** | ***Konecranes Canada Inc. Burlington***
5300 Mainway
Burlington ON L7L6A4 | ***GEN***

Generator No: ON6330556
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 213 T
Waste Class Name: PETROLEUM DISTILLATES

---

54 | **1 of 1** | **N/99.1** | **144.6 / 7.76** | **OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON** | **WWIS**

Well ID: 7197924
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z164007
Tag: A142211
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03/04/2013
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7403
Form Version: 7
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197924.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 10.6
Latitude: 43.4079857052584
Longitude: -79.7743454265464
X: -79.77434527826125
Y: 43.407985702898735
Path: 719\7197924.pdf

Bore Hole Information

Bore Hole ID: 1004259177
Elevation:

DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599238.00
Code OB Desc:		**North83:**	4806852.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/30/2012	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004776920
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.5
Formation End Depth:	10.600000381469727
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004776918
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004776919
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	92
Material 3 Desc:	WEATHERED

Formation Top Depth: 1.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776929
Layer: 2
Plug From: 1.0
Plug To: 8.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776928
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004776927
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004776917
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004776924
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.699999988079071
Depth To: 8.600000381469727
Casing Diameter: 1.25
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004776925
Layer: 1
Slot: 10
Screen Top Depth: 8.600000381469727
Screen End Depth: 10.600000381469727
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 1.5

Water Details

Water ID:	1004776923
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	5.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004776921
Diameter:	6.0
Depth From:	0.0
Depth To:	10.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1004776922
Diameter:	4.0
Depth From:	10.0
Depth To:	35.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

55 ***1 of 1*** ***SSE/99.4*** ***130.8 / -6.00*** ***lot 3 con 2 ON*** ***WWIS***

Well ID:	7382370	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	03/12/2021
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	C27554	***Contractor:***	7675
Tag:	A309249	***Form Version:***	8
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008649920	***Tag No:***	A309249
Depth M:		***Contractor:***	7675
Year Completed:	2021	***Latitude:***	43.3942861751129
Well Completed Dt:	02/26/2021	***Longitude:***	-79.7723002159454
Audit No:	C27554	***Y:***	43.394286172829425
Path:		***X:***	-79.77230006684049

Bore Hole Information

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Bore Hole ID: 1008649920
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 02/26/2021
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599426.00
North83: 4805333.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

---

56 | **1 of 1** | **N/100.0** | **144.2 / 7.33** | **OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON** | **WWIS**

Well ID: 7197928
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z128903
Tag: A121099
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03/04/2013
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7403
Form Version: 7
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197928.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 0.9144
Latitude: 43.407994972351
Longitude: -79.7743699407681
X: -79.77436979148014
Y: 43.40799496991707
Path: 719\7197928.pdf

Bore Hole Information

Bore Hole ID: 1004259189
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:

Elevation:
Elevrc:
Zone: 17
East83: 599236.00
North83: 4806853.00

Open Hole:
Cluster Kind:
Date Completed: 11/30/2012
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004777008
Layer: 1
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1004777009
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 92
Material 3 Desc: WEATHERED
Formation Top Depth: 1.0
Formation End Depth: 1.5
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1004777010
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 3.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004777018
Layer:	2
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004777017
Layer:	1
Plug From:	1.0
Plug To:	6.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1004777016
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	SONIC

Pipe Information

Pipe ID:	1004777007
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004777013
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	2.5
Depth To:	3.0
Casing Diameter:	1.25
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1004777014
Layer:	1
Slot:	10
Screen Top Depth:	3.0
Screen End Depth:	10.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	1.5

Water Details

Water ID:	1004777012

Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 5.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1004777011
Diameter: 15.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

---

57 | **1 of 1** | **N/100.1** | **144.6 / 7.76** | **OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON** | **WWIS**

Well ID: 7197927
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z128904
Tag: A121101
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03/04/2013
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7403
Form Version: 7
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197927.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 7.8
Latitude: 43.4079947076404
Longitude: -79.7743452450029
X: -79.77434509590252
Y: 43.40799470561015
Path: 719\7197927.pdf

Bore Hole Information

Bore Hole ID: 1004259186
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:

Elevation:
Elevrc:
Zone: 17
East83: 599238.00
North83: 4806853.00
Org CS: UTM83
UTMRC: 4

Date Completed: 11/30/2012
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004776996
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 92
Material 3 Desc: WEATHERED
Formation Top Depth: 1.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004776997
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 7.800000190734863
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004776995
Layer: 1
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: m

Annular Space/Abandonment

Sealing Record

Plug ID:	1004777005
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004777006
Layer:	2
Plug From:	1.0
Plug To:	9.0
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1004777004
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	SONIC

Pipe Information

Pipe ID:	1004776994
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004777001
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	2.5
Depth To:	16.0
Casing Diameter:	1.25
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1004777002
Layer:	1
Slot:	10
Screen Top Depth:	16.0
Screen End Depth:	25.5
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	1.5

Water Details

Water ID:	1004777000
Layer:	1
Kind Code:	8

Kind: Untested
Water Found Depth: 5.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1004776999
Diameter: 4.0
Depth From: 10.0
Depth To: 25.5
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1004776998
Diameter: 6.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: m
Hole Diameter UOM: cm

---

58 | **1 of 1** | **N/102.1** | **144.6 / 7.76** | **OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON** | **WWIS**

Well ID:	7197923	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	03/04/2013
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z164008	**Contractor:**	7403
Tag:	A142210	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197923.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 13.6
Latitude: 43.4080127124043
Longitude: -79.7743448819157
X: -79.77434473298169
Y: 43.40801270972373
Path: 719\7197923.pdf

Bore Hole Information

Bore Hole ID:	1004259174	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599238.00
Code OB Desc:		**North83:**	4806855.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/30/2012	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004776893
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004776894
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	92
Material 3 Desc:	WEATHERED
Formation Top Depth:	1.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004776895
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	

Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 13.600000381469727
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776903
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776904
Layer: 2
Plug From: 0.30000001192092896
Plug To: 11.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004776902
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004776892
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004776899
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.6000000238418579
Depth To: 11.600000381469727
Casing Diameter: 1.25
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004776900
Layer: 1
Slot: 10
Screen Top Depth: 11.600000381469727
Screen End Depth: 13.600000381469727
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 1.5

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Water Details

Water ID:	1004776898
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	5.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004776897
Diameter:	15.0
Depth From:	10.0
Depth To:	10.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1004776896
Diameter:	10.0
Depth From:	10.0
Depth To:	45.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
59	*1 of 3*	*E/103.5*	*129.8 / -7.00*	***Noram Solutions*** ***5510 Mainway Dr*** ***Burlington ON L7L 6C4***	*SCT*

Established:	1979
Plant Size (ft²):	
Employment:	20

--Details--

Description:	Medical Equipment and Supplies Manufacturing
SIC/NAICS Code:	339110
Description:	Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code:	417930

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
59	*2 of 3*	*E/103.5*	*129.8 / -7.00*	***Noram Solutions*** ***5510 Mainway*** ***Burlington ON L7L 6C4***	*SCT*

Established:	1979
Plant Size (ft²):	
Employment:	20

--Details--

Description:	Medical Equipment and Supplies Manufacturing
SIC/NAICS Code:	339110
Description:	Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code:	417930

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
59	3 of 3	E/103.5	129.8 / -7.00	Barton Medical Canada Inc. 5510 Mainway Burlington ON L7L 6C4	SCT

Established: 1979
Plant Size (ft²):
Employment:

--Details--
Description: Medical Equipment and Supplies Manufacturing
SIC/NAICS Code: 339110

Description: Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417930

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
60	1 of 1	N/103.9	144.8 / 8.00	UPPER MIDDLE RD AND BURLOAD DR Burlington ON	WWIS

Well ID: 7114250
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z60572
Tag: A062502
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 10/31/2008
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 4
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114250.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/25/2008
Year Completed: 2008
Depth (m): 10.6
Latitude: 43.408009800234
Longitude: -79.7740732284399
X: -79.774073078933
Y: 43.40800979778032
Path: 711\7114250.pdf

Bore Hole Information

Bore Hole ID: 1001858185
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:

Elevation:
Elevrc:
Zone: 17
East83: 599260.00
North83: 4806855.00
Org CS: UTM83
UTMRC: 3

Date Completed: 04/25/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1002546858
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth: 4.800000190734863
Formation End Depth: 10.600000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002546857
Layer: 1
Color: 6
General Color: BROWN
Material 1: 11
Material 1 Desc: GRAVEL
Material 2: 28
Material 2 Desc: SAND
Material 3: 77
Material 3 Desc: LOOSE
Formation Top Depth: 0.0
Formation End Depth: 4.800000190734863
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002546861
Layer: 2
Plug From: 3.200000047683716
Plug To: 6.699999809265137
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002546862
Layer: 3
Plug From: 8.600000381469727
Plug To: 9.399999618530273
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID:	1002546860
Layer:	1
Plug From:	0.0
Plug To:	1.2000000476837158
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1002546867
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	AUR CORING

Pipe Information

Pipe ID:	1002546856
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002546864
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	9.699999809265137
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002546865
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	
Screen Diameter UOM:	
Screen Diameter:	

Water Details

Water ID:	1002546863
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	1.7999999523162842
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1002546859
Diameter:	21.0

Depth From:	
Depth To:	10.600000381469727
Hole Depth UOM:	m
Hole Diameter UOM:	cm

61 | **1 of 1** | **N/104.4** | **143.8 / 6.97** | **OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON** | **WWIS**

Well ID:	7197930	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	03/04/2013
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z164009	**Contractor:**	7403
Tag:	A142212	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197930.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/30/2012
Year Completed:	2012
Depth (m):	15.2
Latitude:	43.4080409107077
Longitude:	-79.7744554683126
X:	-79.77445531914883
Y:	43.408040908853586
Path:	719\7197930.pdf

Bore Hole Information

Bore Hole ID:	1004259195	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599229.00
Code OB Desc:		**North83:**	4806858.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/30/2012	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004777050
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004777049
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004777051
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	74
Material 3 Desc:	LAYERED
Formation Top Depth:	1.5
Formation End Depth:	15.199999809265137
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004777061
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID: 1004777062
Layer: 2
Plug From: 0.30000001192092896
Plug To: 7.5
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004777060
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004777048
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004777056
Layer: 2
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.30000001192092896
Depth To: 25.5
Casing Diameter: 1.25
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1004777055
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.30000001192092896
Depth To: 25.5
Casing Diameter: 3.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004777058
Layer: 2
Slot: 10
Screen Top Depth: 25.5
Screen End Depth: 45.75
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 1.5

Construction Record - Screen

Screen ID: 1004777057

Layer:	1
Slot:	10
Screen Top Depth:	25.5
Screen End Depth:	45.75
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	3.5

Water Details

Water ID:	1004777054
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	5.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004777052
Diameter:	23.5
Depth From:	0.0
Depth To:	7.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1004777053
Diameter:	18.0
Depth From:	7.0
Depth To:	15.199999809265137
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

62 | ***1 of 1*** | ***SW/105.2*** | ***134.8 / -2.00*** | ***PALETTA INTERNATIONAL CORP.***
CREEK WAY/CORPORATE DR.
BURLINGTON ON | ***CA***

Certificate #:	7-0985-98-
Application Year:	98
Issue Date:	//
Approval Type:	Municipal water
Status:	In typing
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

---

63 | ***1 of 1*** | ***N/107.3*** | ***143.8 / 6.99*** | ***OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2***
BURLINGTON ON | ***WWIS***

Well ID:	7197929	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	

Use 2nd:		**Data Src:**	
Final Well Status:	Observation Wells	**Date Received:**	03/04/2013
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z164010	**Contractor:**	7403
Tag:	A142205	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197929.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/30/2012
Year Completed:	2012
Depth (m):	7.5
Latitude:	43.4080680501988
Longitude:	-79.7744672716277
X:	-79.77446712300552
Y:	43.40806804748094
Path:	719\7197929.pdf

Bore Hole Information

Bore Hole ID:	1004259192	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599228.00
Code OB Desc:		**North83:**	4806861.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/30/2012	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004777020
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	

Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004777022
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.5
Formation End Depth:	7.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004777021
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	92
Material 3 Desc:	WEATHERED
Formation Top Depth:	1.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004777032
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004777033
Layer:	2
Plug From:	0.30000001192092896
Plug To:	4.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1004777031
Method Construction Code:	B
Method Construction:	Other Method

Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004777019
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004777026
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 16.5
Casing Diameter: 3.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Casing

Casing ID: 1004777027
Layer: 2
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 16.5
Casing Diameter: 1.25
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004777028
Layer: 1
Slot: 10
Screen Top Depth: 16.5
Screen End Depth: 25.5
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 3.5

Construction Record - Screen

Screen ID: 1004777029
Layer: 2
Slot: 10
Screen Top Depth: 16.5
Screen End Depth: 25.5
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 1.5

Water Details

Water ID: 1004777025
Layer: 1

Kind Code: 8
Kind: Untested
Water Found Depth: 5.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1004777023
Diameter: 23.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1004777024
Diameter: 18.0
Depth From: 10.0
Depth To: 25.5
Hole Depth UOM: m
Hole Diameter UOM: cm

---

64 | **1 of 1** | **N/108.2** | **143.8 / 6.99** | **OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON** | **WWIS**

Well ID: 7197926
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z164023
Tag: A142208
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03/04/2013
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7403
Form Version: 7
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197926.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 2.37744
Latitude: 43.4080775819451
Longitude: -79.7745164817017
X: -79.77451633270034
Y: 43.40807757944578
Path: 719\7197926.pdf

Bore Hole Information

Bore Hole ID:	1004259183	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599224.00
Code OB Desc:		***North83:***	4806862.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	11/30/2012	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004776969
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	92
Material 3 Desc:	WEATHERED
Formation Top Depth:	1.0
Formation End Depth:	1.5
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004776970
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.5
Formation End Depth:	7.800000190734863
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004776968
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	

Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004776979
Layer: 2
Plug From: 1.0
Plug To: 9.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004776978
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1004776977
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004776967
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004776974
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 2.5
Depth To: 16.0
Casing Diameter: 1.25
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1004776975
Layer: 1
Slot: 10
Screen Top Depth: 16.0
Screen End Depth: 25.5
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch

Screen Diameter: 1.5

Water Details

Water ID: 1004776973
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 5.0
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1004776971
Diameter: 6.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

Hole Diameter

Hole ID: 1004776972
Diameter: 4.0
Depth From: 10.0
Depth To: 25.5
Hole Depth UOM: ft
Hole Diameter UOM: inch

---

65 | ***1 of 6*** | ***WSW/109.1*** | ***139.2 / 2.38*** | ***ORCHARD UPTOWN DEVELOPMENTS INC***
2055 APPLEBY LINE
BURLINGTON ON L7L 7H1 | ***GEN***

Generator No: ON5590172
SIC Code: 562990
SIC Description: All Other Waste Management Services
Approval Years: 06
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

---

65 | ***2 of 6*** | ***WSW/109.1*** | ***139.2 / 2.38*** | ***2055 APPLEBY LINE***
BURLINGTON ON L7L 7H1 | ***HINC***

External File Num: FS INC 0609-02666
Fuel Occurrence Type: Pipeline Strike
Date of Occurrence: 8/22/2006
Fuel Type Involved: Natural Gas
Status Desc: Completed - Causal Analysis(End)
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved: Construction Site (pipeline strike)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Service Interruptions:	Yes
Property Damage:	No
Fuel Life Cycle Stage:	Transmission, Distribution and Transportation
Root Cause:	Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training: Yes Management:Yes Human Factors:Yes
Reported Details:	
Fuel Category:	Gaseous Fuel
Occurrence Type:	Incident
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name:	Halton
Approx. Quant. Rel:	
Nearby body of water:	
Enter Drainage Syst.:	
Approx. Quant. Unit:	
Environmental Impact:	

65	*3 of 6*	***WSW/109.1***	***139.2 / 2.38***	***WILSON BLANCHARD MANAGEMENT INC.*** ***2055 APPLEBY LINE*** ***BURLINGTON ON L7L 7H1***	***GEN***

Generator No:	ON4515272
SIC Code:	
SIC Description:	
Approval Years:	As of Dec 2018
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	251 L
Waste Class Name:	Waste oils/sludges (petroleum based)

65	*4 of 6*	***WSW/109.1***	***139.2 / 2.38***	***WILSON BLANCHARD MANAGEMENT INC.*** ***2055 APPLEBY LINE*** ***BURLINGTON ON L7L 7H1***	***GEN***

Generator No:	ON4515272
SIC Code:	
SIC Description:	
Approval Years:	As of Jul 2020
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	251 L
Waste Class Name:	Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
65	5 of 6	WSW/109.1	139.2 / 2.38	WILSON BLANCHARD MANAGEMENT INC. 2055 APPLEBY LINE BURLINGTON ON L7L 7H1	GEN

Generator No: ON4515272
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
65	6 of 6	WSW/109.1	139.2 / 2.38	WILSON BLANCHARD MANAGEMENT INC. 2055 APPLEBY LINE BURLINGTON ON L7L 7H1	GEN

Generator No: ON4515272
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
66	1 of 1	N/110.2	143.8 / 6.99	OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON	WWIS

Well ID: 7197931
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z164022
Tag: A142209
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03/04/2013
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7403
Form Version: 7
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:

Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197931.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 0.9144
Latitude: 43.4080957190477
Longitude: -79.774528466568
X: -79.77452831801749
Y: 43.408095716666885
Path: 719\7197931.pdf

Bore Hole Information

Bore Hole ID: 1004259198
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/30/2012
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599223.00
North83: 4806864.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004777079
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 92
Material 3 Desc: WEATHERED
Formation Top Depth: 1.0
Formation End Depth: 1.5
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 1004777080
Layer: 3
Color: 7
General Color: RED

Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.5
Formation End Depth:	3.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004777078
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004777087
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1004777086
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	SONIC

Pipe Information

Pipe ID:	1004777077
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004777083
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	2.5
Depth To:	3.0
Casing Diameter:	1.25
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1004777084
Layer:	1
Slot:	10
Screen Top Depth:	3.0
Screen End Depth:	10.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	1.5

Water Details

Water ID:	1004777082
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	5.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1004777081
Diameter:	15.0
Depth From:	0.0
Depth To:	10.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

---

67 ***1 of 2*** ***N/110.2*** ***143.8 / 6.99*** ***OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON*** ***WWIS***

Well ID:	7197921	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Observation Wells	***Date Received:***	03/04/2013
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z164025	***Contractor:***	7403
Tag:	A142206	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	001
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197921.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/30/2012
Year Completed:	2012

Depth (m): 13.6
Latitude: 43.4080955867099
Longitude: -79.7745161186642
X: -79.7745159697795
Y: 43.40809558483997
Path: 719\7197921.pdf

Bore Hole Information

Bore Hole ID: 1004259168
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/30/2012
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599224.00
North83: 4806864.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004776868
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 92
Material 3 Desc: WEATHERED
Formation Top Depth: 1.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004776869
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 13.600000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004776867
Layer: 1
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776878
Layer: 2
Plug From: 0.30000001192092896
Plug To: 11.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776877
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004776876
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004776866
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004776873
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.6000000238418579
Depth To: 11.600000381469727
Casing Diameter: 1.25
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004776874
Layer: 1
Slot: 10
Screen Top Depth: 11.600000381469727
Screen End Depth: 13.600000381469727
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 1.5

Water Details

Water ID: 1004776872
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 5.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1004776870
Diameter: 15.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1004776871
Diameter: 10.0
Depth From: 10.0
Depth To: 45.0
Hole Depth UOM: m
Hole Diameter UOM: cm

---

67 | ***2 of 2*** | ***N/110.2*** | ***143.8 / 6.99*** | ***OLD BURLOAK DR. PIPELINE EASEMENT lot 1 con 2 BURLINGTON ON*** | ***WWIS***

Well ID: 7197922
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z164026
Tag: A142207
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 03/04/2013
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7403
Form Version: 7
Owner:
County: HALTON
Lot: 001
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197922.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/30/2012
Year Completed: 2012
Depth (m): 17
Latitude: 43.4080955867099
Longitude: -79.7745161186642
X: -79.7745159697795
Y: 43.40809558483997
Path: 719\7197922.pdf

Bore Hole Information

Bore Hole ID: 1004259171
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/30/2012
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599224.00
North83: 4806864.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004776881
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 92
Material 3 Desc: WEATHERED
Formation Top Depth: 1.0
Formation End Depth: 1.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004776882
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:

Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 17.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004776880
Layer: 1
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776891
Layer: 2
Plug From: 0.30000001192092896
Plug To: 14.0
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004776890
Layer: 1
Plug From: 0.0
Plug To: 0.30000001192092896
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004776889
Method Construction Code: B
Method Construction: Other Method
Other Method Construction: SONIC

Pipe Information

Pipe ID: 1004776879
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004776886
Layer: 1
Material: 5
Open Hole or Material: PLASTIC

Depth From:	14.899999618530273
Depth To:	17.0
Casing Diameter:	1.25
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1004776887
Layer:	1
Slot:	10
Screen Top Depth:	14.899999618530273
Screen End Depth:	17.0
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	1.25

Water Details

Water ID:	1004776885
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	5.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1004776883
Diameter:	15.0
Depth From:	0.0
Depth To:	14.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1004776884
Diameter:	10.0
Depth From:	10.0
Depth To:	17.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

68 | ***1 of 1*** | ***SE/110.3*** | ***131.8 / -5.00*** | ***n/a*** ***Burlington ON*** | ***EHS***

Order No:	20320800434	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	11-DEC-20	**Search Radius (km):**	.25
Date Received:	08-DEC-20	**X:**	-79.77053455
Previous Site Name:		**Y:**	43.39569141
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

---

69 | ***1 of 1*** | ***ESE/110.3*** | ***129.8 / -7.00*** | ***5360 Mainway*** ***Burlington ON L7L 6A4*** | ***EHS***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Order No:	20190828217	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Custom Report	**Client Prov/State:**	ON
Report Date:	05-SEP-19	**Search Radius (km):**	.25
Date Received:	28-AUG-19	**X:**	-79.768347
Previous Site Name:		**Y:**	43.397622
Lot/Building Size:			
Additional Info Ordered:			

70	1 of 1	N/111.2	143.8 / 6.99	OLD BURLOAK DR. PIPELINE EASEMENT BURLINGTON ON	WWIS

Well ID:	7197925	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring	**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	0	**Date Received:**	03/04/2013
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z164024	**Contractor:**	7403
Tag:	A121100	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/719\7197925.pdf

Additional Detail(s) (Map)

Well Completed Date:	11/30/2012
Year Completed:	2012
Depth (m):	10.6
Latitude:	43.4081045890924
Longitude:	-79.7745159371453
X:	-79.77451578831908
Y:	43.408104586882416
Path:	719\7197925.pdf

Bore Hole Information

Bore Hole ID:	1004259180	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599224.00
Code OB Desc:		**North83:**	4806865.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	11/30/2012	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	1004776943
Layer:	1
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004776945
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.5
Formation End Depth:	10.600000381469727
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1004776944
Layer:	2
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	92
Material 3 Desc:	WEATHERED
Formation Top Depth:	1.0
Formation End Depth:	1.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004776954
Layer:	2
Plug From:	1.0
Plug To:	8.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1004776953
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1004776952
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	SONIC

Pipe Information

Pipe ID:	1004776942
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004776949
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.699999988079071
Depth To:	8.600000381469727
Casing Diameter:	1.25
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1004776950
Layer:	1
Slot:	10
Screen Top Depth:	8.600000381469727
Screen End Depth:	10.600000381469727
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	1.5

Water Details

Water ID:	1004776948
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	5.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID: 1004776946
Diameter: 6.0
Depth From: 0.0
Depth To: 10.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1004776947
Diameter: 4.0
Depth From: 10.0
Depth To: 35.0
Hole Depth UOM: m
Hole Diameter UOM: cm

---

71 | **1 of 1** | **WSW/113.3** | **139.9 / 3.08** | **5164 UPPERMIDDLE RD lot 2 con 2 BURLINGTON ON** | **WWIS**

Well ID: 7042975
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z59302
Tag: A050021
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info: BLOCK 332

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 04/23/2007
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6988
Form Version: 3
Owner:
County: HALTON
Lot: 002
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/704\7042975.pdf

Additional Detail(s) (Map)

Well Completed Date: 02/16/2007
Year Completed: 2007
Depth (m): 3.4
Latitude: 43.3971230614182
Longitude: -79.784146737692
X: -79.78414658935246
Y: 43.39712305886415
Path: 704\7042975.pdf

Bore Hole Information

Bore Hole ID: 11765407
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:

Elevation:
Elevrc:
Zone: 17
East83: 598462.00
North83: 4805634.00
Org CS: UTM83
UTMRC: 3

Date Completed: 02/16/2007
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 933098726
Layer: 1
Color: 6
General Color: BROWN
Material 1: 06
Material 1 Desc: SILT
Material 2: 05
Material 2 Desc: CLAY
Material 3: 77
Material 3 Desc: LOOSE
Formation Top Depth: 0.0
Formation End Depth: 0.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933098728
Layer: 3
Color: 7
General Color: RED
Material 1: 06
Material 1 Desc: SILT
Material 2: 05
Material 2 Desc: CLAY
Material 3: 66
Material 3 Desc: DENSE
Formation Top Depth: 1.2999999523162842
Formation End Depth: 2.0999999046325684
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 933098729
Layer: 4
Color: 7
General Color: RED
Material 1: 06
Material 1 Desc: SILT
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0999999046325684
Formation End Depth: 3.4000000953674316
Formation End Depth UOM: m

Overburden and Bedrock

Materials Interval

Formation ID:	933098727
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	06
Material 1 Desc:	SILT
Material 2:	05
Material 2 Desc:	CLAY
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.5
Formation End Depth:	1.2999999523162842
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933317694
Layer:	1
Plug From:	0.0
Plug To:	1.2000000476837158
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	967042975
Method Construction Code:	B
Method Construction:	Other Method
Other Method Construction:	

Pipe Information

Pipe ID:	11773097
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930898448
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	1.5
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	933424161
Layer:	1
Slot:	10
Screen Top Depth:	1.5
Screen End Depth:	4.300000190734863
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm

Screen Diameter: 6.0

Water Details

Water ID: 934085571
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 3.0
Water Found Depth UOM: m

Hole Diameter

Hole ID: 11851797
Diameter: 10.199999809265137
Depth From: 0.0
Depth To: 4.300000190734863
Hole Depth UOM: m
Hole Diameter UOM: cm

---

72 | ***1 of 1*** | ***N/116.8*** | ***144.8 / 8.00*** | ***OAKVILLE,ONT lot 35 con 2 ON*** | ***WWIS***

Well ID: 2809963
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z09769
Tag: A009749
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 06/03/2004
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7201
Form Version: 3
Owner:
County: HALTON
Lot: 035
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2809963.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/29/2004
Year Completed: 2004
Depth (m): 4
Latitude: 43.4081375544806
Longitude: -79.7742312090932
X: -79.77423106019074
Y: 43.4081375519274
Path: 280\2809963.pdf

Bore Hole Information

Bore Hole ID: 11105812
DP2BR:
Spatial Status:

Elevation:
Elevrc:
Zone: 17

Code OB:		***East83:***	599247.00
Code OB Desc:		***North83:***	4806869.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	5
Date Completed:	04/29/2004	***UTMRC Desc:***	margin of error : 100 m - 300 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	932958086
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	92
Material 2 Desc:	WEATHERED
Material 3:	
Material 3 Desc:	
Formation Top Depth:	3.0
Formation End Depth:	4.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	932958084
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	01
Material 3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	1.0
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	932958085
Layer:	2
Color:	7
General Color:	RED
Material 1:	34
Material 1 Desc:	TILL
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	
Material 3 Desc:	
Formation Top Depth:	1.0
Formation End Depth:	3.0

Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 933249706
Layer: 1
Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 962809963
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 11111402
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930838618
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 1.0
Casing Diameter: 2.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 933408061
Layer: 1
Slot: 010
Screen Top Depth: 1.0
Screen End Depth: 4.0
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 2.0

Hole Diameter

Hole ID: 11111401
Diameter: 8.0
Depth From: 0.0
Depth To: 4.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
73	1 of 1	N/120.2	143.9 / 7.00	NW CORNER UPPERMIDDLE ON	WWIS

Well ID: 7105624
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z60547
Tag: A062488
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 05/26/2008
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 4
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/710\7105624.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/29/2008
Year Completed: 2008
Depth (m): 3
Latitude: 43.4081862722108
Longitude: -79.7745760430829
X: -79.7745758936702
Y: 43.40818626955893
Path: 710\7105624.pdf

Bore Hole Information

Bore Hole ID: 1001600883
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 03/29/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599219.00
North83: 4806874.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1001724195
Layer: 1
Color: 6
General Color: BROWN

Material 1: 06
Material 1 Desc: SILT
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 1.0
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1001724196
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 1.0
Formation End Depth: 3.0
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1001724198
Layer: 1
Plug From: 0.0
Plug To: 1.399999976158142
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1001724203
Method Construction Code: 6
Method Construction: Boring
Other Method Construction:

Pipe Information

Pipe ID: 1001724194
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1001724200
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 1.5
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID:	1001724201
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	
Screen Diameter UOM:	
Screen Diameter:	

Water Details

Water ID:	1001724199
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	0.0
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1001724197
Diameter:	21.0
Depth From:	
Depth To:	3.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

---

74 | ***1 of 12*** | ***E/123.7*** | ***129.8 / -7.00*** | ***Staveley Services Canada Inc.***
1240 Burloak Drive Unit 6 Burlington, Regional Municipality of Halton CITY OF BURLINGTON ON | ***EBR***

EBR Registry No:	011-4955	***Decision Posted:***	
Ministry Ref No:	3934-8MJGGE	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	March 07, 2012	***Act 2:***	
Proposal Date:	November 07, 2011	***Site Location Map:***	
Year:	2011		
Instrument Type:	(EPA Part II.1-air) - Environmental Compliance Approval (project type: air)		
Off Instrument Name:			
Posted By:			
Company Name:	Staveley Services Canada Inc.		
Site Address:			
Location Other:			
Proponent Name:			
Proponent Address:	6180 Halle Drive, Cleveland OHIO, Canada 44125		
Comment Period:			
URL:			

Site Location Details:

1240 Burloak Drive Unit 6 Burlington, Regional Municipality of Halton CITY OF BURLINGTON

---

74 | ***2 of 12*** | ***E/123.7*** | ***129.8 / -7.00*** | ***Staveley Services Canada Inc. / Les Services Staveley Canada Inc.*** | ***ECA***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				1240 Burloak Drive Burlington ON L7L 6B3	

Approval No: 9595-8RJM7S
Approval Date: 3/2/2012
Status: Approved
Record Type:
Link Source:
SWP Area Name:
Approval Type:
Project Type: Air/Noise
Business Name:
Address:
Full Address:
Full PDF Link:
PDF Site Location:

MOE District:
City: Burlington
Longitude:
Latitude:
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
74	3 of 12	E/123.7	129.8 / -7.00	ALS Laboratory Group 6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	GEN

Generator No: ON6811653
SIC Code: 325999
SIC Description: All Other Miscellaneous Chemical Product Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
74	4 of 12	E/123.7	129.8 / -7.00	ALS Laboratory Group 6-1240 Burloak Dr. BURLINGTON ON L7L 6B3	GEN

Generator No: ON6811653
SIC Code: 325999
SIC Description: All Other Miscellaneous Chemical Product Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 241

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

74 **5 of 12** **E/123.7** **129.8 / -7.00** **ALS Laboratory Group**
6-1240 Burloak Dr.
BURLINGTON ON L7L 6B3
GEN

Generator No: ON6811653
SIC Code: 325999
SIC Description: All Other Miscellaneous Chemical Product Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

74 **6 of 12** **E/123.7** **129.8 / -7.00** **ALS Laboratory Group**
6-1240 Burloak Dr.
BURLINGTON ON L7L 6B3
GEN

Generator No: ON6811653
SIC Code: 325999
SIC Description: All Other Miscellaneous Chemical Product Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

---

74 **7 of 12** **E/123.7** **129.8 / -7.00** **ALS Laboratory Group**
6-1240 Burloak Dr.
BURLINGTON ON
GEN

Generator No: ON6811653
SIC Code: 541380
SIC Description: TESTING LABORATORIES

Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

74 | ***8 of 12*** | ***E/123.7*** | ***129.8 / -7.00*** | ***Staveley Services Canada Inc. / Les Services Staveley Canada Inc.***
1240 Burloak Drive
Burlington ON L7L 6B3 | ***ECA***

Approval No: 9595-8RJM7S
Approval Date: 2012-03-02
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
MOE District: Halton-Peel
City:
Longitude: -79.76527
Latitude: 43.401703
Geometry X:
Geometry Y:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Staveley Services Canada Inc. / Les Services Staveley Canada Inc.
Address: 1240 Burloak Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3934-8MJGGE-14.pdf
PDF Site Location:

---

74 | ***9 of 12*** | ***E/123.7*** | ***129.8 / -7.00*** | ***ALS Laboratory Group***
6-1240 Burloak Dr.
BURLINGTON ON L7L 6B3 | ***GEN***

Generator No: ON6811653
SIC Code: 541380
SIC Description: TESTING LABORATORIES
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: John Walsh
Choice of Contact: CO_OFFICIAL
Phone No Admin: 1-905-332-9559 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

---

74 ***10 of 12*** ***E/123.7*** ***129.8 / -7.00*** ***ALS Laboratory Group 6-1240 Burloak Dr. BURLINGTON ON L7L 6B3*** ***GEN***

Generator No: ON6811653
SIC Code: 541380
SIC Description: TESTING LABORATORIES
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: John Walsh
Choice of Contact: CO_OFFICIAL
Phone No Admin: 1-905-332-9559 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 221
Waste Class Name: LIGHT FUELS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

---

74 ***11 of 12*** ***E/123.7*** ***129.8 / -7.00*** ***ALS Laboratory Group 6-1240 Burloak Dr. BURLINGTON ON L7L 6B3*** ***GEN***

Generator No: ON6811653

SIC Code:	541380
SIC Description:	TESTING LABORATORIES
Approval Years:	2014
PO Box No:	
Country:	Canada
Status:	
Co Admin:	John Walsh
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	1-905-332-9559 Ext.
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	113
Waste Class Name:	ACID WASTE - OTHER METALS
Waste Class:	221
Waste Class Name:	LIGHT FUELS
Waste Class:	112
Waste Class Name:	ACID WASTE - HEAVY METALS
Waste Class:	241
Waste Class Name:	HALOGENATED SOLVENTS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS

---

74 | **12 of 12** | **E/123.7** | **129.8 / -7.00** | ***ALS Laboratory Group Tribology***
6-1240 Burloak Dr.
BURLINGTON ON L7L 6B3 | **GEN**

Generator No:	ON6811653
SIC Code:	
SIC Description:	
Approval Years:	As of Dec 2017
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	252 T
Waste Class Name:	Waste crankcase oils and lubricants
Waste Class:	241 H
Waste Class Name:	Halogenated solvents and residues
Waste Class:	221 I
Waste Class Name:	Light fuels
Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues

Waste Class: 113 C
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

---

75 | **1 of 1** | **WSW/126.4** | **138.8 / 2.00** | **S/W CORNER lot 5 con 2 BURLINGTON ON** | **WWIS**

Well ID: 7039196
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z56655
Tag: A051087
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info: PLAN 20R15167

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 01/16/2007
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 3
Owner:
County: HALTON
Lot: 005
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/703\7039196.pdf

Additional Detail(s) (Map)

Well Completed Date: 11/06/2006
Year Completed: 2006
Depth (m): 4.2
Latitude: 43.3940723442451
Longitude: -79.7885541382354
X: -79.78855398890646
Y: 43.39407234194147
Path: 703\7039196.pdf

Bore Hole Information

Bore Hole ID: 11761738
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 11/06/2006
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 598110.00
North83: 4805290.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID:	933086886
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	3.5999999046325684
Formation End Depth:	4.199999809265137
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	933086885
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	34
Material 2 Desc:	TILL
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	3.5999999046325684
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933311363
Layer:	1
Plug From:	0.0
Plug To:	0.30000001192092896
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933311364
Layer:	2
Plug From:	0.30000001192092896
Plug To:	1.100000023841858
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	967039196
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID: 11769428
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930893978
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 1.2000000476837158
Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 933422483
Layer: 1
Slot: 10
Screen Top Depth: 1.2000000476837158
Screen End Depth: 4.199999809265137
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.400000095367432

Hole Diameter

Hole ID: 11847644
Diameter: 21.0
Depth From: 0.0
Depth To: 4.199999809265137
Hole Depth UOM: m
Hole Diameter UOM: cm

---

76 | **1 of 1** | **N/128.9** | **143.5 / 6.68** | **UPPER MIDDLE RD AND BURLOAD DR ON ROAD Burlington ON** | **WWIS**

Well ID: 7114255
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z60562
Tag: A062507
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 10/31/2008
Selected Flag: TRUE
Abandonment Rec:
Contractor: 6607
Form Version: 4
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114255.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/24/2008
Year Completed: 2008
Depth (m): 10.5
Latitude: 43.40826001148
Longitude: -79.7747351141855
X: -79.77473496458876
Y: 43.40826000863528
Path: 711\7114255.pdf

Bore Hole Information

Bore Hole ID: 1001858200
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/24/2008
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 599206.00
North83: 4806882.00
Org CS: UTM83
UTMRC: 3
UTMRC Desc: margin of error : 10 - 30 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1002547061
Layer: 1
Color: 6
General Color: BROWN
Material 1: 28
Material 1 Desc: SAND
Material 2: 11
Material 2 Desc: GRAVEL
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 0.6000000238418579
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002547062
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:

Material 3 Desc:
Formation Top Depth: 0.6000000238418579
Formation End Depth: 1.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002547063
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 10.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547065
Layer: 1
Plug From: 0.0
Plug To: 1.2000000476837158
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547066
Layer: 2
Plug From: 3.200000047683716
Plug To: 4.5
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547067
Layer: 3
Plug From: 8.0
Plug To: 8.800000190734863
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1002547072
Method Construction Code: E
Method Construction: Auger
Other Method Construction: AIR CORING

Pipe Information

Pipe ID: 1002547060
Casing No: 0

Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1002547069
Layer:
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 9.100000381469727
Casing Diameter: 3.200000047683716
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1002547070
Layer:
Slot:
Screen Top Depth:
Screen End Depth:
Screen Material: 5
Screen Depth UOM:
Screen Diameter UOM:
Screen Diameter:

Water Details

Water ID: 1002547068
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 4.800000190734863
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1002547064
Diameter: 9.600000381469727
Depth From:
Depth To: 10.5
Hole Depth UOM: m
Hole Diameter UOM: cm

---

77 | **1 of 1** | **SSE/129.0** | **130.3 / -6.55** | **5200 Mainway**
Burlington ON L7L 5Z1 | **EHS**

Order No: 20320200475
Status: C
Report Type: Custom Report
Report Date: 28-JAN-21
Date Received: 02-DEC-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.7722927
Y: 43.39387509

---

78 | **1 of 1** | **E/129.1** | **129.8 / -7.00** | **Tyco International of Canada Ltd.**
1345 Heine Court
Burlington ON L8L 6A7 | **GEN**

Generator No: ON4391399
SIC Code: 493110
SIC Description: General Warehousing and Storage
Approval Years: 04,05,06
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

79	1 of 12	E/133.0	129.8 / -7.00	**Normac Adhesive Products Inc.** **1350 Heine Crt** **Burlington ON L7L 6M4**	SCT

Established: 01-JAN-82
Plant Size (ft²): 9000
Employment:

--Details--
Description: Chemical (except Agricultural) and Allied Product Wholesaler-Distributors
SIC/NAICS Code: 418410

Description: Chemical (except Agricultural) and Allied Product Wholesaler-Distributors
SIC/NAICS Code: 418410

79	2 of 12	E/133.0	129.8 / -7.00	**Shaw-Almex Fusion Canada** **1350 Heine Crt** **Burlington ON L7L 6M4**	SCT

Established:
Plant Size (ft²):
Employment:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

--Details--
Description: Other Rubber Product Manufacturing
SIC/NAICS Code: 326290

Description: All Other Industrial Machinery Manufacturing
SIC/NAICS Code: 333299

Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

---

79 | ***3 of 12*** | ***E/133.0*** | ***129.8 / -7.00*** | ***NORMAC ADHESIVE PRODUCTS INC.***
1350 HEINE COURT
BURLINGTON ON L7L 6M4 | ***GEN***

Generator No: ON2731249
SIC Code: 418990
SIC Description: All Other Wholesaler-Distributors
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

79 | ***4 of 12*** | ***E/133.0*** | ***129.8 / -7.00*** | ***NORMAC ADHESIVE PRODUCTS INC.***
1350 HEINE COURT
BURLINGTON ON L7L 6M4 | ***GEN***

Generator No: ON2731249
SIC Code: 418990
SIC Description: All Other Wholesaler-Distributors
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

79	*5 of 12*	*E/133.0*	*129.8 / -7.00*	***NORMAC ADHESIVE PRODUCTS INC.*** ***1350 HEINE COURT*** ***BURLINGTON ON L7L 6M4***	***GEN***

Generator No: ON2731249
SIC Code: 418990
SIC Description: All Other Wholesaler-Distributors
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

79	*6 of 12*	*E/133.0*	*129.8 / -7.00*	***Normac Adhesives Products Inc.*** ***1350 Heine Court***	***GEN***

Burlington ON L7L 6M4

Generator No: ON8900055
SIC Code: 325999
SIC Description: ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 233
Waste Class Name: OTHER POLYMERIC WASTES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 232
Waste Class Name: POLYMERIC RESINS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

79	*7 of 12*	*E/133.0*	*129.8 / -7.00*	***Normac Adhesives Products Inc.*** ***1350 Heine Court*** ***Burlington ON L7L 6M4***	***GEN***

Generator No: ON8900055
SIC Code: 325999
SIC Description: ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 233
Waste Class Name: OTHER POLYMERIC WASTES

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

---

79 **8 of 12** **E/133.0** **129.8 / -7.00** **Normac Adhesives Products Inc.**
1350 Heine Court
Burlington ON L7L 6M4 **GEN**

Generator No: ON8900055
SIC Code: 325999
SIC Description: ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

---

79 **9 of 12** **E/133.0** **129.8 / -7.00** **Normac Adhesives Products Inc.**
1350 Heine Court
Burlington ON L7L 6M4 **GEN**

Generator No: ON8900055
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 145 T
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 232 I
Waste Class Name: Polymeric resins

Waste Class: 232 L
Waste Class Name: Polymeric resins

Waste Class: 233 I

Waste Class Name: Other polymeric wastes

Waste Class: 233 L
Waste Class Name: Other polymeric wastes

Waste Class: 241 H
Waste Class Name: Halogenated solvents and residues

Waste Class: 268 C
Waste Class Name: Amines

Waste Class: 268 L
Waste Class Name: Amines

---

79 | ***10 of 12*** | ***E/133.0*** | ***129.8 / -7.00*** | ***Normac Adhesives Products Inc.***
1350 Heine Court
Burlington ON L7L 6M4 | ***GEN***

Generator No: ON8900055
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 233 L
Waste Class Name: Other polymeric wastes

Waste Class: 232 L
Waste Class Name: Polymeric resins

Waste Class: 268 C
Waste Class Name: Amines

Waste Class: 145 T
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 241 H
Waste Class Name: Halogenated solvents and residues

Waste Class: 268 L
Waste Class Name: Amines

Waste Class: 233 I
Waste Class Name: Other polymeric wastes

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 232 B
Waste Class Name: Polymeric resins

Waste Class: 232 I

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: Polymeric resins

Waste Class: 212 H
Waste Class Name: Aliphatic solvents and residues

---

79 | ***11 of 12*** | ***E/133.0*** | ***129.8 / -7.00*** | ***Normac Adhesives Products Inc.***
1350 Heine Court
Burlington ON L7L 6M4 | ***GEN***

Generator No: ON8900055
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 T
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 233 L
Waste Class Name: Other polymeric wastes

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 241 H
Waste Class Name: Halogenated solvents and residues

Waste Class: 212 H
Waste Class Name: Aliphatic solvents and residues

Waste Class: 232 B
Waste Class Name: Polymeric resins

Waste Class: 232 I
Waste Class Name: Polymeric resins

Waste Class: 268 C
Waste Class Name: Amines

Waste Class: 232 L
Waste Class Name: Polymeric resins

Waste Class: 268 L
Waste Class Name: Amines

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 233 I
Waste Class Name: Other polymeric wastes

---

79 | ***12 of 12*** | ***E/133.0*** | ***129.8 / -7.00*** | ***Normac Adhesives Products Inc.***
1350 Heine Court
Burlington ON L7L 6M4 | ***GEN***

Generator No: ON8900055
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 268 C
Waste Class Name: AMINES

Waste Class: 212 I
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 233 L
Waste Class Name: OTHER POLYMERIC WASTES

Waste Class: 241 H
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 233 I
Waste Class Name: OTHER POLYMERIC WASTES

Waste Class: 232 L
Waste Class Name: POLYMERIC RESINS

Waste Class: 263 B
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 145 T
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 232 B
Waste Class Name: POLYMERIC RESINS

Waste Class: 241 B
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 232 I
Waste Class Name: POLYMERIC RESINS

Waste Class: 212 B
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 212 H
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 268 L
Waste Class Name: AMINES

Waste Class: 122 C
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 265 I
Waste Class Name: GRAPHIC ART WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
80	1 of 1	WSW/135.9	139.5 / 2.67	1989 Applyby Line lot 5 con 2 Burlington ON	WWIS

Well ID: 7415624
Construction Date:
Use 1st: Monitoring and Test Hole
Use 2nd:
Final Well Status: Monitoring and Test Hole
Water Type:
Casing Material:
Audit No: MHWRI67S
Tag: A339265
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 04/14/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7739
Form Version: 9
Owner:
County: HALTON
Lot: 005
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/741\7415624.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/07/2022
Year Completed: 2022
Depth (m): 9.1
Latitude: 43.3940489984616
Longitude: -79.7889003395495
X: -79.78890019052596
Y: 43.394048995454234
Path: 741\7415624.pdf

Bore Hole Information

Bore Hole ID: 1009001391
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/07/2022
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 598082.00
North83: 4805287.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1009001542
Layer: 3
Color: 7
General Color: RED

Material 1: 26
Material 1 Desc: ROCK
Material 2:
Material 2 Desc:
Material 3: 73
Material 3 Desc: HARD
Formation Top Depth: 3.799999952316284
Formation End Depth: 9.100000381469727
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009001541
Layer: 2
Color: 7
General Color: RED
Material 1: 28
Material 1 Desc: SAND
Material 2: 01
Material 2 Desc: FILL
Material 3: 66
Material 3 Desc: DENSE
Formation Top Depth: 2.5
Formation End Depth: 3.799999952316284
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009001540
Layer: 1
Color: 6
General Color: BROWN
Material 1: 01
Material 1 Desc: FILL
Material 2: 28
Material 2 Desc: SAND
Material 3: 11
Material 3 Desc: GRAVEL
Formation Top Depth: 0.0
Formation End Depth: 2.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001656
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001685
Layer: 2
Plug From: 5.5
Plug To: 9.100000381469727
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID:	1009001684
Layer:	1
Plug From:	0.0
Plug To:	5.5
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1009001483
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Method of Construction & Well Use

Method Construction ID:	1009001482
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

Pipe ID:	1009001445
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1009001582
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	6.099999904632568
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1009001609
Layer:	1
Slot:	10
Screen Top Depth:	6.099999904632568
Screen End Depth:	9.100000381469727
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.099999904632568

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1009001446
Pump Set At:	

Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1009001634
Diameter: 20.299999237060547
Depth From: 0.0
Depth To: 3.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1009001635
Diameter: 9.600000381469727
Depth From: 3.0
Depth To: 9.100000381469727
Hole Depth UOM: m
Hole Diameter UOM: cm

---

81 | ***1 of 12*** | ***WSW/136.9*** | ***140.7 / 3.90*** | ***Corpus Christi Secondary School***
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | ***GEN***

Generator No: ON9435473
SIC Code: 611110
SIC Description: Elementary and Secondary Schools
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 251

Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

81 | ***2 of 12*** | ***WSW/136.9*** | ***140.7 / 3.90*** | ***Corpus Christi Secondary School***
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | ***GEN***

Generator No: ON9435473
SIC Code: 611110
SIC Description: Elementary and Secondary Schools
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

---

81 | ***3 of 12*** | ***WSW/136.9*** | ***140.7 / 3.90*** | ***Corpus Christi Secondary School***
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | ***GEN***

Generator No: ON9435473
SIC Code: 611110
SIC Description: Elementary and Secondary Schools
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

---

81 | **4 of 12** | **WSW/136.9** | **140.7 / 3.90** | **Corpus Christi Secondary School**
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | **GEN**

Generator No: ON9435473
SIC Code: 611110
SIC Description: Elementary and Secondary Schools
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

81 | **5 of 12** | **WSW/136.9** | **140.7 / 3.90** | **Corpus Christi Secondary School**
5150 Upper Middle Rd.
Burlington ON | **GEN**

Generator No: ON9435473
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

81	6 of 12	WSW/136.9	140.7 / 3.90	**Corpus Christi Secondary School** **5150 Upper Middle Rd.** **Burlington ON L7L 0E5**	GEN

Generator No: ON9435473
SIC Code: 611110
SIC Description: ELEMENTARY AND SECONDARY SCHOOLS
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

81	7 of 12	WSW/136.9	140.7 / 3.90	**Corpus Christi Secondary School** **5150 Upper Middle Rd.** **Burlington ON L7L 0E5**	GEN

Generator No: ON9435473

SIC Code:	611110
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS
Approval Years:	2015
PO Box No:	
Country:	Canada
Status:	
Co Admin:	
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	251
Waste Class Name:	OIL SKIMMINGS & SLUDGES
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES
Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	121
Waste Class Name:	ALKALINE WASTES - HEAVY METALS

---

81 | ***8 of 12*** | ***WSW/136.9*** | ***140.7 / 3.90*** | ***Corpus Christi Secondary School***
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | ***GEN***

Generator No:	ON9435473
SIC Code:	611110
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS
Approval Years:	2014
PO Box No:	
Country:	Canada
Status:	
Co Admin:	
Choice of Contact:	CO_OFFICIAL
Phone No Admin:	
Contaminated Facility:	No
MHSW Facility:	No

Detail(s)

Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	251
Waste Class Name:	OIL SKIMMINGS & SLUDGES

Waste Class: 121
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

---

81 | **9 of 12** | **WSW/136.9** | **140.7 / 3.90** | **Corpus Christi Secondary School**
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | **GEN**

Generator No: ON9435473
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 148 A
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 R
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 B
Waste Class Name: Aliphatic solvents and residues

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 252 T
Waste Class Name: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

---

81 | **10 of 12** | **WSW/136.9** | **140.7 / 3.90** | **Corpus Christi Secondary School**
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | **GEN**

Generator No: ON9435473
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 252 T
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 212 B
Waste Class Name: Aliphatic solvents and residues

Waste Class: 148 A
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 R
Waste Class Name: Misc. wastes and inorganic chemicals

---

81 | **11 of 12** | **WSW/136.9** | **140.7 / 3.90** | **Corpus Christi Secondary School**
5150 Upper Middle Rd.
Burlington ON L7L 0E5 | **GEN**

Generator No: ON9435473
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 B
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 121 C
Waste Class Name: Alkaline slutions - containing heavy metals

Waste Class: 212 B
Waste Class Name: Aliphatic solvents and residues

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 R
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 B
Waste Class Name: Misc. waste organic chemicals

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 252 T
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 148 A
Waste Class Name: Misc. wastes and inorganic chemicals

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
81	12 of 12	WSW/136.9	140.7 / 3.90	Corpus Christi Secondary School 5150 Upper Middle Rd. Burlington ON L7L 0E5	GEN

Generator No: ON9435473
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 B
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148 A
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148 R
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 121 C
Waste Class Name: ALKALINE WASTES - HEAVY METALS

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 212 B
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148 T
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 B
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 252 T
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

82	1 of 1	N/140.1	143.8 / 6.99	OLD BURLOAK DR lot 35 con 2 Burlington ON	WWIS

Well ID:	7331635	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	04/18/2019
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z306794	**Contractor:**	6607
Tag:		**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	035
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1007428613	**Tag No:**	
Depth M:		**Contractor:**	6607
Year Completed:	2019	**Latitude:**	43.408354670549
Well Completed Dt:	02/01/2019	**Longitude:**	-79.7743256352392
Audit No:	Z306794	**Y:**	43.40835466874323
Path:		**X:**	-79.77432548565451

Bore Hole Information

Bore Hole ID:	1007428613	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599239.00
Code OB Desc:		**North83:**	4806893.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	02/01/2019	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1007825906
Layer:	1
Plug From:	0.0
Plug To:	1.600000023841858
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007825907

Layer: 2
Plug From: 1.600000023841858
Plug To: 11.0
Plug Depth UOM: m

Pipe Information

Pipe ID: 1007822272
Casing No: 0
Comment:
Alt Name:

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1007830394
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 0
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

---

83 ***1 of 1*** ***WSW/142.4*** ***139.7 / 2.88*** ***ON*** ***WWIS***

Well ID: 7417282
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z384292
Tag: A343727
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 05/10/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Bore Hole ID: 1009023039
Depth M:
Year Completed: 2022
Well Completed Dt: 04/11/2022

Tag No: A343727
Contractor: 7241
Latitude: 43.3939670610939
Longitude: -79.7888155375464

Audit No:	Z384292	**Y:**	43.393967058721564
Path:		**X:**	-79.78881538869894

Bore Hole Information

Bore Hole ID:	1009023039	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598089.00
Code OB Desc:		**North83:**	4805278.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	04/11/2022	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

---

84 | ***1 of 1*** | ***W/142.9*** | ***143.1 / 6.25*** | ***lot 4 con 1 ON*** | ***WWIS***

Well ID:	2809655	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Not Used	**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Abandoned-Other	**Date Received:**	10/01/2002
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	240106	**Contractor:**	1663
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	004
Depth to Bedrock:		**Concession:**	01
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2809655.pdf

Additional Detail(s) (Map)

Well Completed Date:	07/31/2002
Year Completed:	2002
Depth (m):	
Latitude:	43.4000439287374
Longitude:	-79.7853195132355
X:	-79.7853193635818
Y:	43.40004392673709
Path:	280\2809655.pdf

Bore Hole Information

Bore Hole ID:	10531828	**Elevation:**	

DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598362.30
Code OB Desc:		**North83:**	4805957.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	07/31/2002	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gis
Location Method Desc:	from gis		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	962809655
Method Construction Code:	A
Method Construction:	Digging
Other Method Construction:	

Pipe Information

Pipe ID:	11080398
Casing No:	1
Comment:	
Alt Name:	

---

85 | ***1 of 3*** | ***N/143.4*** | ***143.8 / 6.92*** | ***Enbridge Pipelines Inc***
2249 Old Burloak Drive
Burlington ON L7L 6B3 | ***GEN***

Generator No:	ON4049679
SIC Code:	
SIC Description:	
Approval Years:	As of Dec 2018
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	251 L
Waste Class Name:	Waste oils/sludges (petroleum based)

---

85 | ***2 of 3*** | ***N/143.4*** | ***143.8 / 6.92*** | ***Enbridge Pipelines Inc***
2249 Old Burloak Drive
Burlington ON L7L 6B3 | ***GEN***

Generator No:	ON4049679
SIC Code:	
SIC Description:	
Approval Years:	As of Jul 2020
PO Box No:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
85	3 of 3	N/143.4	143.8 / 6.92	Enbridge Pipelines Inc 2249 Old Burloak Drive Burlington ON L7L 6B3	GEN

Generator No: ON4049679
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	1 of 20	ESE/146.0	130.8 / -6.00	5330 Mainway Drive Burlington ON	CA

Certificate #: 7105-592Q7C
Application Year: 02
Issue Date: 5/7/02
Approval Type: Industrial air
Status: Approved
Application Type: New Certificate of Approval
Client Name: Amhil Enterprises
Client Address: 400 Traders Boulevard East
Client City: Mississauga
Client Postal Code: L4Z 1W7
Project Description: This application is for approval of the installation and operation of one (1) extrusion line to manufacture thermoformed products for the disposal packaging industry. This application also includes the installation of comfort heating equipment and two (2) cooling towers. The production line has a hopper, an extrusion die, a thermal former and a cutter followed by manual packaging.
Contaminants:
Emission Control: No Controls

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	2 of 20	ESE/146.0	130.8 / -6.00	Amhil Enterprises 5330 Mainway Drive Burlington Ontario Burlington ON	EBR

EBR Registry No: IA01E1555 **Decision Posted:**

Ministry Ref No: 5167-548TJC
Exception Posted:
Notice Type: Instrument Decision
Section:
Notice Stage:
Act 1:
Notice Date: May 13, 2002
Act 2:
Proposal Date: November 07, 2001
Site Location Map:
Year: 2001
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Amhil Enterprises
Site Address:
Location Other:
Proponent Name:
Proponent Address: 400 Traders Boulevard East, Mississauga Ontario, L4Z 1W7
Comment Period:
URL:

Site Location Details:

5330 Mainway Drive Burlington Ontario Burlington

---

86 ***3 of 20*** ***ESE/146.0*** ***130.8 / -6.00*** ***Amhil Enterprises***
5330 Mainway Drive
Burlington ON L7L5Z2
GEN

Generator No: ON4763950
SIC Code: 326198
SIC Description: All Other Plastic Product Mfg.
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

86 ***4 of 20*** ***ESE/146.0*** ***130.8 / -6.00*** ***Amhil Enterprises***
5330 Mainway Dr
Burlington ON L7L 6A4
SCT

Established:
Plant Size (ft²):
Employment: 16

--Details--
Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	5 of 20	ESE/146.0	130.8 / -6.00	Wentworth Technologies Company 5330 Mainway Burlington ON L7L 5Z1	SCT

Established: 7/1/2000
Plant Size (ft²):
Employment:

--Details--
Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

Description: All Other Plastic Product Manufacturing
SIC/NAICS Code: 326198

Description: Industrial Mould Manufacturing
SIC/NAICS Code: 333511

Description: Industrial Mould Manufacturing
SIC/NAICS Code: 333511

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	6 of 20	ESE/146.0	130.8 / -6.00	Amhil Enterprises 5330 Mainway Drive Burlington ON L7L 6A4	GEN

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: All Other Plastic Product Manufacturing, Laminated Plastics Plate Sheet (except Packaging) and Shape Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	7 of 20	ESE/146.0	130.8 / -6.00	Amhil Enterprises 5330 Mainway Drive Burlington ON L7L 6A4	GEN

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: All Other Plastic Product Manufacturing, Laminated Plastics Plate Sheet (except Packaging) and Shape Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:

Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

86 ***8 of 20*** ***ESE/146.0*** ***130.8 / -6.00*** ***Amhil Enterprises***
5330 Mainway Drive
Burlington ON L7L 6A4 ***GEN***

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: All Other Plastic Product Manufacturing, Laminated Plastics Plate Sheet (except Packaging) and Shape Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

86 ***9 of 20*** ***ESE/146.0*** ***130.8 / -6.00*** ***Amhil Enterprises***
5330 Mainway Drive
Burlington ON L7L5Z2 ***GEN***

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: All Other Plastic Product Manufacturing, Laminated Plastics Plate Sheet (except Packaging) and Shape Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	10 of 20	ESE/146.0	130.8 / -6.00	5330 Mainway Drive Burlington ON	EHS

Order No: 20140514009
Status: C
Report Type: Standard Report
Report Date: 23-MAY-14
Date Received: 14-MAY-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality: Burlington
Client Prov/State: ON
Search Radius (km): .25
X: -79.769144
Y: 43.39693

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	11 of 20	ESE/146.0	130.8 / -6.00	Amhil Enterprises 5330 Mainway Drive Burlington ON	GEN

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: ALL OTHER PLASTIC PRODUCT MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET AND SHAPE MANUFACTURING, LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	12 of 20	ESE/146.0	130.8 / -6.00	Amhil Enterprises 5330 Mainway Drive Burlington ON L4Z 1W7	ECA

Approval No: 7105-592Q7C
Approval Date: 2002-05-07
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Amhil Enterprises
Address: 5330 Mainway Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5167-548TJC-14.pdf
PDF Site Location:
MOE District: Halton-Peel
City:
Longitude: -79.76888
Latitude: 43.39849
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	13 of 20	ESE/146.0	130.8 / -6.00	**Amhil Enterprises** **5330 Mainway Drive** **Burlington ON L7L5Z1**	GEN

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: ALL OTHER PLASTIC PRODUCT MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET AND SHAPE MANUFACTURING, LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Barry Fairway
Choice of Contact: CO_ADMIN
Phone No Admin: 905-332-9765 Ext.301
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	14 of 20	ESE/146.0	130.8 / -6.00	**Amhil Enterprises** **5330 Mainway Drive** **Burlington ON L7L5Z1**	GEN

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: ALL OTHER PLASTIC PRODUCT MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET AND SHAPE MANUFACTURING, LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Ricardo S Jumaquio
Choice of Contact: CO_ADMIN
Phone No Admin: 905-890-5261 Ext.213
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
86	15 of 20	ESE/146.0	130.8 / -6.00	**Amhil Enterprises** **5330 Mainway Drive** **Burlington ON L7L5Z1**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Generator No: ON4763950
SIC Code: 326198, 326130
SIC Description: ALL OTHER PLASTIC PRODUCT MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING, LAMINATED PLASTIC PLATE, SHEET AND SHAPE MANUFACTURING, LAMINATED PLASTICS PLATE, SHEET (EXCEPT PACKAGING), AND SHAPE MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Ricardo S Jumaquio
Choice of Contact: CO_ADMIN
Phone No Admin: 905-890-5261 Ext.213
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

86	16 of 20	ESE/146.0	130.8 / -6.00	**Melrose Investments Inc.** **5330 Mainway** **Burlington ON L7L 5Z1**	GEN

Generator No: ON9517739
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

86	17 of 20	ESE/146.0	130.8 / -6.00	**Amhil Enterprises Burlington** **5330 Mainway Drive** **Burlington ON L7L5Z1**	GEN

Generator No: ON4763950
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 253 L
Waste Class Name: Emulsified oils

---

86 | ***18 of 20*** | ***ESE/146.0*** | ***130.8 / -6.00*** | ***AMHIL ENTERPRISES***
5330 MAINWAY
BURLINGTON ON L7L 6A4 | ***EASR***

Approval No: R-010-7110542614
Status: REGISTERED
Date: 2018-08-07
Record Type: EASR
Link Source: MOFA
Project Type: Air Emissions
Full Address:
Approval Type: EASR-Air Emissions
SWP Area Name: Halton
PDF NAICS Code: 326198
PDF URL:
PDF Site Location:

MOE District: Halton-Peel
Municipality: BURLINGTON
Latitude: 43.39694444
Longitude: -79.76916667
Geometry X:
Geometry Y:

---

86 | ***19 of 20*** | ***ESE/146.0*** | ***130.8 / -6.00*** | ***Amhil Enterprises Burlington***
5330 Mainway Drive
Burlington ON L7L5Z1 | ***GEN***

Generator No: ON4763950
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 253 L
Waste Class Name: Emulsified oils

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

---

86 | **20 of 20** | **ESE/146.0** | **130.8 / -6.00** | **Melrose Investments Inc.**
5330 Mainway
Burlington ON L7L 5Z1 | **GEN**

Generator No: ON9517739
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

87 | **1 of 2** | **SW/150.2** | **134.8 / -2.00** | **Global Xposure - Div. of Jimmy Tees Inc.**
1816 Hobson Dr
Burlington ON L7L 6L7 | **SCT**

Established:
Plant Size (ft²):
Employment: 4

--Details--
Description: All Other Textile Product Mills
SIC/NAICS Code: 314990

Description: Cut and Sew Clothing Contracting
SIC/NAICS Code: 315210

Description: Clothing Accessories and Other Clothing Manufacturing
SIC/NAICS Code: 315990

Description: Commercial Screen Printing
SIC/NAICS Code: 323113

Description: Digital Printing
SIC/NAICS Code: 323115

Description: Other Printing
SIC/NAICS Code: 323119

Description: Clothing and Clothing Accessories Wholesaler-Distributors
SIC/NAICS Code: 414110

---

87 | **2 of 2** | **SW/150.2** | **134.8 / -2.00** | **Global Xposure**
1816 Hobson Dr
Burlington ON L7L 6L7 | **SCT**

Established:
Plant Size (ft²):
Employment:

--Details--

Description:	Clothing and Clothing Accessories Wholesaler-Distributors
SIC/NAICS Code:	414110
Description:	All Other Textile Product Mills
SIC/NAICS Code:	314990
Description:	Cut and Sew Clothing Contracting
SIC/NAICS Code:	315210
Description:	Clothing Accessories and Other Clothing Manufacturing
SIC/NAICS Code:	315990
Description:	Commercial Screen Printing
SIC/NAICS Code:	323113
Description:	Digital Printing
SIC/NAICS Code:	323115
Description:	Other Printing
SIC/NAICS Code:	323119

---

88 ***1 of 1*** ***WSW/150.3*** ***139.2 / 2.34*** ***1989 Applyby Line lot 5 con 2 Burlington ON*** ***WWIS***

Well ID:	7415625	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring and Test Hole	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Monitoring and Test Hole	***Date Received:***	04/14/2022
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	9CCA4UKN	***Contractor:***	7739
Tag:	A339266	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	005
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/741\7415625.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/08/2022
Year Completed:	2022
Depth (m):	7.9
Latitude:	43.3938564161909
Longitude:	-79.7885707877376
X:	-79.7885706391939
Y:	43.39385641353209

Path: 741\7415625.pdf

Bore Hole Information

Bore Hole ID:	1009001394	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	598109.00
Code OB Desc:		***North83:***	4805266.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	04/08/2022	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1009001544
Layer:	2
Color:	7
General Color:	RED
Material 1:	34
Material 1 Desc:	TILL
Material 2:	28
Material 2 Desc:	SAND
Material 3:	66
Material 3 Desc:	DENSE
Formation Top Depth:	2.5
Formation End Depth:	3.4000000953674316
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1009001543
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	01
Material 1 Desc:	FILL
Material 2:	28
Material 2 Desc:	SAND
Material 3:	11
Material 3 Desc:	GRAVEL
Formation Top Depth:	0.0
Formation End Depth:	2.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1009001545
Layer:	3
Color:	7
General Color:	RED

Material 1: 26
Material 1 Desc: ROCK
Material 2:
Material 2 Desc:
Material 3: 73
Material 3 Desc: HARD
Formation Top Depth: 3.4000000953674316
Formation End Depth: 7.900000095367432
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001686
Layer: 1
Plug From: 0.0
Plug To: 4.300000190734863
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001687
Layer: 2
Plug From: 4.300000190734863
Plug To: 7.900000095367432
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001657
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1009001485
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1009001484
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1009001447
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID:	1009001583
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	4.900000095367432
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1009001610
Layer:	1
Slot:	10
Screen Top Depth:	4.900000095367432
Screen End Depth:	7.900000095367432
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.099999904632568

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1009001448
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1009001637
Diameter:	9.600000381469727
Depth From:	3.0
Depth To:	7.900000095367432
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1009001636
Diameter:	20.299999237060547
Depth From:	0.0
Depth To:	3.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
89	1 of 1	WSW/151.4	139.7 / 2.86	ON	WWIS

Well ID: 7417283
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z384254
Tag: A343650
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 05/10/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Bore Hole ID: 1009023042
Depth M:
Year Completed: 2022
Well Completed Dt: 04/12/2022
Audit No: Z384254
Path:

Tag No: A343650
Contractor: 7241
Latitude: 43.39386711876
Longitude: -79.7887310944202
Y: 43.39386711682967
X: -79.78873094530117

Bore Hole Information

Bore Hole ID: 1009023042
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/12/2022
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 598096.00
North83: 4805267.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
90	1 of 1	N/151.5	143.2 / 6.38	UPPER MIDDLE RD AND BURLOAK DR ON ROAD Burlington ON	WWIS

Well ID: 7114256
Construction Date:
Use 1st: Monitoring
Use 2nd:
Final Well Status: Observation Wells
Water Type:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 10/31/2008
Selected Flag: TRUE

Casing Material:		**Abandonment Rec:**	
Audit No:	Z60560	**Contractor:**	6607
Tag:	A062484	**Form Version:**	4
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/711\7114256.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/23/2008
Year Completed:	2008
Depth (m):	10.5
Latitude:	43.408466404685
Longitude:	-79.7746692000513
X:	-79.77466905070762
Y:	43.40846640275949
Path:	711\7114256.pdf

Bore Hole Information

Bore Hole ID:	1001858203	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599211.00
Code OB Desc:		**North83:**	4806905.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	3
Date Completed:	04/23/2008	**UTMRC Desc:**	margin of error : 10 - 30 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1002547124
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	0.6000000238418579
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID: 1002547126
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 15
Material 2 Desc: LIMESTONE
Material 3:
Material 3 Desc:
Formation Top Depth: 1.5
Formation End Depth: 10.5
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1002547125
Layer: 2
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3: 92
Material 3 Desc: WEATHERED
Formation Top Depth: 0.6000000238418579
Formation End Depth: 1.5
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547128
Layer: 1
Plug From: 0.0
Plug To: 1.2000000476837158
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547130
Layer: 3
Plug From: 8.0
Plug To: 8.800000190734863
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1002547129
Layer: 2
Plug From: 3.200000047683716
Plug To: 4.5
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID:	1002547135
Method Construction Code:	E
Method Construction:	Auger
Other Method Construction:	AIR CORING

Pipe Information

Pipe ID:	1002547123
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1002547132
Layer:	
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	9.100000381469727
Casing Diameter:	3.200000047683716
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1002547133
Layer:	
Slot:	
Screen Top Depth:	
Screen End Depth:	
Screen Material:	5
Screen Depth UOM:	
Screen Diameter UOM:	
Screen Diameter:	

Water Details

Water ID:	1002547131
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	4.800000190734863
Water Found Depth UOM:	m

Hole Diameter

Hole ID:	1002547127
Diameter:	9.600000381469727
Depth From:	
Depth To:	10.5
Hole Depth UOM:	m
Hole Diameter UOM:	cm

91	***1 of 1***	***WSW/158.1***	***139.8 / 3.00***	***ON***	***WWIS***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Well ID:	7404746	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	12/07/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z369962	**Contractor:**	7241
Tag:	A336098	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008868846	**Tag No:**	A336098
Depth M:		**Contractor:**	7241
Year Completed:	2021	**Latitude:**	43.3938889154249
Well Completed Dt:	10/12/2021	**Longitude:**	-79.7890887432269
Audit No:	Z369962	**Y:**	43.393888912464995
Path:		**X:**	-79.78908859414476

Bore Hole Information

Bore Hole ID:	1008868846	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598067.00
Code OB Desc:		**North83:**	4805269.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/12/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

92	*1 of 1*	*WSW/161.3*	*139.8 / 3.00*	*ON*	*WWIS*

Well ID:	7404747	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	12/07/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z369961	**Contractor:**	7241
Tag:	A336097	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON

Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008868849	**Tag No:**	A336097
Depth M:		**Contractor:**	7241
Year Completed:	2021	**Latitude:**	43.3937962760091
Well Completed Dt:	10/12/2021	**Longitude:**	-79.7888436346045
Audit No:	Z369961	**Y:**	43.39379627351325
Path:		**X:**	-79.78884348621045

Bore Hole Information

Bore Hole ID:	1008868849	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598087.00
Code OB Desc:		**North83:**	4805259.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/12/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

---

93 | ***1 of 1*** | ***E/162.4*** | ***129.8 / -7.00*** | ***1340 Heine Crt Burlington ON L7L6M4*** | ***EHS***

Order No:	20141008060	**Nearest Intersection:**	
Status:	C	**Municipality:**	City of Burlington
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	15-OCT-14	**Search Radius (km):**	.25
Date Received:	08-OCT-14	**X:**	-79.766354
Previous Site Name:		**Y:**	43.398645
Lot/Building Size:			
Additional Info Ordered:			

---

94 | ***1 of 1*** | ***WSW/163.6*** | ***139.8 / 3.00*** | ***ON*** | ***WWIS***

Well ID:	7404748	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	12/07/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z374539	**Contractor:**	7241
Tag:	A336100	**Form Version:**	7

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008868852	**Tag No:**	A336100
Depth M:		**Contractor:**	7241
Year Completed:	2021	**Latitude:**	43.3937879273255
Well Completed Dt:	10/12/2021	**Longitude:**	-79.7889055392337
Audit No:	Z374539	**Y:**	43.39378792471835
Path:		**X:**	-79.78890538999609

Bore Hole Information

Bore Hole ID:	1008868852	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598082.00
Code OB Desc:		**North83:**	4805258.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/12/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
95	1 of 1	N/165.7	144.8 / 8.00	OLD BURLOAK DR lot 35 con 2 Burlington ON	WWIS

Well ID:	7331634	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	04/18/2019
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	Z306793	**Contractor:**	6607
Tag:		**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	035
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1007428610	***Tag No:***	
Depth M:		***Contractor:***	6607
Year Completed:	2019	***Latitude:***	43.4085573566915
Well Completed Dt:	02/08/2019	***Longitude:***	-79.7739139757215
Audit No:	Z306793	***Y:***	43.408557354451496
Path:		***X:***	-79.77391382650023

Bore Hole Information

Bore Hole ID:	1007428610	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599272.00
Code OB Desc:		***North83:***	4806916.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	02/08/2019	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	1007825905
Layer:	2
Plug From:	1.600000023841858
Plug To:	10.699999809265137
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1007825904
Layer:	1
Plug From:	0.0
Plug To:	1.600000023841858
Plug Depth UOM:	m

Pipe Information

Pipe ID:	1007822271
Casing No:	0
Comment:	
Alt Name:	

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1007830389
Pump Set At:	
Static Level:	
Final Level After Pumping:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		m			
Rate UOM:		LPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:		0			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
96	*1 of 3*	*NNW/167.0*	*144.9 / 8.01*	***MATTAMY HOMES LTD.*** ***SUBD.PH.1/DEER PL/THORN LANE*** ***BURLINGTON CITY ON***	*CA*
Certificate #:		3-1116-99-			
Application Year:		99			
Issue Date:		9/20/1999			
Approval Type:		Municipal sewage			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
96	*2 of 3*	*NNW/167.0*	*144.9 / 8.01*	***MATTAMY HOMES LTD.*** ***DEER PL/THORN LANE*** ***BURLINGTON CITY ON***	*CA*
Certificate #:		3-1118-99-			
Application Year:		99			
Issue Date:		9/20/1999			
Approval Type:		Municipal sewage			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
96	*3 of 3*	*NNW/167.0*	*144.9 / 8.01*	***MATTAMY HOMES LTD.*** ***SUBD.PH.1/DEER PL/THORN LANE*** ***BURLINGTON CITY ON***	*CA*
Certificate #:		7-0770-99-			
Application Year:		99			
Issue Date:		9/20/1999			
Approval Type:		Municipal water			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

97 | ***1 of 4*** | ***SE/167.7*** | ***130.8 / -6.00*** | ***Higginson Equipment Sales*** ***1330 Sutton Dr*** ***Burlington ON L7L 6R6*** | ***SCT***

Established: 1945
Plant Size (ft²): 12500
Employment:

--Details--
Description: Metal Tank (Heavy Gauge) Manufacturing
SIC/NAICS Code: 332420

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Other Metalworking Machinery Manufacturing
SIC/NAICS Code: 333519

Description: All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code: 333990

Description: Other Motor Vehicle Parts Manufacturing
SIC/NAICS Code: 336390

Description: Railroad Rolling Stock Manufacturing
SIC/NAICS Code: 336510

Description: Other New Motor Vehicle Parts and Accessories Wholesaler-Distributors
SIC/NAICS Code: 415290

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

---

97 | ***2 of 4*** | ***SE/167.7*** | ***130.8 / -6.00*** | ***1023976 ONTARIO LIMITED*** ***1330 SUTTON DRIVE*** ***BURLINGTON ON L7L 6R6*** | ***GEN***

Generator No: ON7765629
SIC Code: 417230
SIC Description: Industrial Machinery Equipment and Supplies Wholesaler-Distributors
Approval Years: 04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

---

97 *3 of 4* *SE/167.7* *130.8 / -6.00* **BADGER DAYLIGHTING LIMITED PARTNERSHIP** **EASR**
1330 SUTTON DR
BURLINGTON ON L7L 0J2

Approval No:	R-004-1110284044	**MOE District:**	Halton-Peel
Status:	REGISTERED	**Municipality:**	BURLINGTON
Date:	2017-12-05	**Latitude:**	43.39416667
Record Type:	EASR	**Longitude:**	-79.77138889
Link Source:	MOFA	**Geometry X:**	
Project Type:	Waste Management System	**Geometry Y:**	
Full Address:			
Approval Type:	EASR-Waste Management System		
SWP Area Name:	Halton		
PDF NAICS Code:			
PDF URL:			
PDF Site Location:			

---

97 *4 of 4* *SE/167.7* *130.8 / -6.00* **CPC Pumps International Inc.** **GEN**
1330 Sutton Drive
Burlington ON L7L 6C2

Generator No:	ON6887592
SIC Code:	
SIC Description:	
Approval Years:	As of Nov 2021
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

98 *1 of 1* *ESE/169.6* *129.8 / -7.00* **5329 John Lucas Drive lot 2 con 2** **WWIS**
Burlington ON

Well ID:	7338355	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	06/14/2019
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	A7RMQKT5	**Contractor:**	7147
Tag:	_NO_TAG	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	002
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	

Clear/Cloudy: ***UTM Reliability:***
Municipality: BURLINGTON CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/733\7338355.pdf

Additional Detail(s) (Map)

Well Completed Date: 05/23/2019
Year Completed: 2019
Depth (m):
Latitude: 43.39687185615
Longitude: -79.7682471612507
X: -79.76824701217048
Y: 43.39687185353903
Path: 733\7338355.pdf

Bore Hole Information

Bore Hole ID: 1007555649 ***Elevation:***
DP2BR: ***Elevrc:***
Spatial Status: ***Zone:*** 17
Code OB: ***East83:*** 599750.00
Code OB Desc: ***North83:*** 4805625.00
Open Hole: ***Org CS:*** UTM83
Cluster Kind: ***UTMRC:*** 4
Date Completed: 05/23/2019 ***UTMRC Desc:*** margin of error : 30 m - 100 m
Remarks: ***Location Method:*** wwr
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 1007556041
Layer: 1
Color:
General Color:
Material 1:
Material 1 Desc:
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth:
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007556297
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID:	1007556468
Layer:	1
Plug From:	0.0
Plug To:	6.099999904632568
Plug Depth UOM:	m

Pipe Information

Pipe ID:	1007555810
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1007556120
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	3.0999999046325684
Casing Diameter:	5.0
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1007556185
Layer:	1
Slot:	
Screen Top Depth:	3.0999999046325684
Screen End Depth:	6.099999904632568
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.300000190734863

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1007555811
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Water Details

Water ID:	1007555942
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	3.0
Water Found Depth UOM:	m

99 **1 of 1** **WSW/171.3** **139.8 / 3.00** **ON** **WWIS**

Well ID:	7404749	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	12/07/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z374532	**Contractor:**	7241
Tag:	A336099	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008868855	**Tag No:**	A336099
Depth M:		**Contractor:**	7241
Year Completed:	2021	**Latitude:**	43.3937909342361
Well Completed Dt:	10/13/2021	**Longitude:**	-79.7891894757404
Audit No:	Z374532	**Y:**	43.39379093134337
Path:		**X:**	-79.78918932670575

Bore Hole Information

Bore Hole ID:	1008868855	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598059.00
Code OB Desc:		**North83:**	4805258.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	10/13/2021	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

100 **1 of 1** **ESE/171.8** **129.8 / -7.03** ***5329 John Lucas Drive lot 1 con 2 Burlington ON*** **WWIS**

Well ID:	7338356	**Flowing (Y/N):**	

Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	
Final Well Status:	Abandoned-Other	**Date Received:**	06/14/2019
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	Yes
Audit No:	LVN3XRI4	**Contractor:**	7147
Tag:	A178960	**Form Version:**	9
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	001
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/733\7338356.pdf

Additional Detail(s) (Map)

Well Completed Date:	05/23/2019
Year Completed:	2019
Depth (m):	
Latitude:	43.3977610510332
Longitude:	-79.7672042239473
X:	-79.76720407466694
Y:	43.39776104861081
Path:	733\7338356.pdf

Bore Hole Information

Bore Hole ID:	1007555652	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599833.00
Code OB Desc:		**North83:**	4805725.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	05/23/2019	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1007556042
Layer:	1
Color:	
General Color:	
Material 1:	
Material 1 Desc:	
Material 2:	
Material 2 Desc:	

Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth:
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007556298
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1007556469
Layer: 1
Plug From: 0.0
Plug To: 6.099999904632568
Plug Depth UOM: m

Pipe Information

Pipe ID: 1007555812
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1007556121
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 3.0999999046325684
Casing Diameter: 5.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1007556186
Layer: 1
Slot:
Screen Top Depth: 3.0999999046325684
Screen End Depth: 6.099999904632568
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.300000190734863

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1007555813
Pump Set At:
Static Level:

Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Water Details

Water ID: 1007555943
Layer: 1
Kind Code: 8
Kind: Untested
Water Found Depth: 3.0
Water Found Depth UOM: m

---

101 | ***1 of 1*** | ***WSW/172.0*** | ***139.8 / 3.00*** | ***1989 Appleby Line, Burlington ON L7L 6K3*** | ***EHS***

Order No: 21062200339
Status: C
Report Type: Custom Report
Report Date: 17-AUG-21
Date Received: 22-JUN-21
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.78906257
Y: 43.39374623

---

102 | ***1 of 1*** | ***WSW/172.6*** | ***139.6 / 2.71*** | ***Burlington City of, 5011 Upper Middle Road, Burlington ON*** | ***GEN***

Generator No: ON4839356
SIC Code:
SIC Description:
Approval Years: 03,04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

---

103 | ***1 of 15*** | ***SSE/172.8*** | ***129.8 / -7.00*** | ***CONTROLCHAM CANADA LTD., 5275 JOHN LUCAS DR, BURLINGTON ON L7L 6A8*** | ***SCT***

Established: 1989
Plant Size (ft²): 25000
Employment: 17

--Details--

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Description:		CHEMICALS AND CHEMICAL PREPARATIONS, NOT ELSEWHERE CLASSIFIED			
SIC/NAICS Code:		2899			
103	2 of 15	SSE/172.8	129.8 / -7.00	**CONTROLCHEM CANADA LTD** **5275 JOHN LUCAS DR** **BURLINGTON ON L7L 6A8**	CHM
Headcode:		273600			
Headcode Desc:					
Phone:		9053192234			
List Name:					
Description:					
103	3 of 15	SSE/172.8	129.8 / -7.00	**ControlChem Canada Ltd.** **5275 John Lucas Dr** **Burlington ON L7L 6A8**	SCT
Established:		01-JUL-89			
Plant Size (ft²):		25000			
Employment:					
--Details--					
Description:		All Other Miscellaneous Chemical Product Manufacturing			
SIC/NAICS Code:		325999			
Description:		All Other Miscellaneous Chemical Product Manufacturing			
SIC/NAICS Code:		325999			
103	4 of 15	SSE/172.8	129.8 / -7.00	**CONTROLCHEM CANADA LIMITED** **5275 JOHN LUCAS DRIVE** **BURLINGTON ON L7L 6A8**	GEN
Generator No:		ON2517400			
SIC Code:		3799			
SIC Description:		OTHER CHEM. PROD.			
Approval Years:		99,00,01,02,03,04,05,06,07,08			
PO Box No:					
Country:					
Status:					
Co Admin:					
Choice of Contact:					
Phone No Admin:					
Contaminated Facility:					
MHSW Facility:					
Detail(s)					
Waste Class:		113			
Waste Class Name:		ACID WASTE - OTHER METALS			
103	5 of 15	SSE/172.8	129.8 / -7.00	**CONTROLCHEM CANADA** **5275 JOHN LUCAS DR** **BURLINGTON ON L7L 6A8**	CHM
Headcode:		00273600			
Headcode Desc:		CHEMICALS			
Phone:					
List Name:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description:

---

103 **6 of 15** **SSE/172.8** **129.8 / -7.00** **CONTROLCHEM CANADA LIMITED** **GEN**
5275 John Lucas Drive
Burlington ON L7L 6A8

Generator No: ON2517400
SIC Code: 418410
SIC Description: Chemical (except Agricultural) and Allied Product Wholesaler-Distributors
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

---

103 **7 of 15** **SSE/172.8** **129.8 / -7.00** **5275 John Lucas Drive** **EHS**
Burlington ON L7L 6A8

Order No: 20120517017
Status: C
Report Type: Site Report
Report Date: 5/18/2012 1:44:35 PM
Date Received: 5/17/2012 1:44:53 PM
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality: Burlington
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.770455
Y: 43.392659

---

103 **8 of 15** **SSE/172.8** **129.8 / -7.00** **ControlChem Canada Ltd.** **SPL**
5275 John Lucas Dr
Burlington ON L7L 6A8

Ref No: 2155-8SUMHM
Year:
Incident Dt: 29-MAR-12
Dt MOE Arvl on Scn: 29-MAR-12
MOE Reported Dt: 29-MAR-12
Dt Document Closed:
Site No:
MOE Response: Priority Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: ControlChem Canada Ltd.
Site Address: 5275 John Lucas Dr
Site Region:
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing: 4805214

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Easting: 599444
Incident Cause:
Incident Preceding Spill:
Environment Impact:
Health Env Consequence:
Nature of Impact:
Contaminant Qty:
System Facility Address:
Client Name: ControlChem Canada Ltd.
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Sewage - Municipal/Private and Commercial
Incident Reason:
Incident Summary: Sheldon Creek running white
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class: Pollution Incident Reports (PIRs) and ¿Other¿ calls
Call Report Locatn Geodata:

---

103 ***9 of 15*** ***SSE/172.8*** ***129.8 / -7.00*** ***CONTROLCHEM CANADA LIMITED***
5275 John Lucas Drive
Burlington ON L7L 6A8 ***GEN***

Generator No: ON2517400
SIC Code: 418410
SIC Description: Chemical (except Agricultural) and Allied Product Wholesaler-Distributors
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

---

103 ***10 of 15*** ***SSE/172.8*** ***129.8 / -7.00*** ***CONTROLCHEM CANADA LIMITED***
5275 John Lucas Drive
Burlington ON L7L 6A8 ***GEN***

Generator No: ON2517400
SIC Code: 418410
SIC Description: Chemical (except Agricultural) and Allied Product Wholesaler-Distributors
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

---

103 | ***11 of 15*** | ***SSE/172.8*** | ***129.8 / -7.00*** | ***CONTROLCHEM CANADA LIMITED***
5275 John Lucas Drive
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON2517400
SIC Code: 418410
SIC Description: Chemical (except Agricultural) and Allied Product Wholesaler-Distributors
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

---

103 | ***12 of 15*** | ***SSE/172.8*** | ***129.8 / -7.00*** | ***CONTROLCHEM CANADA***
5275 JOHN LUCAS DR
BURLINGTON ON L7L6A8 | ***CHM***

Headcode: 00273600
Headcode Desc: CHEMICALS
Phone: 9053192234
List Name:
Description:

---

103 | ***13 of 15*** | ***SSE/172.8*** | ***129.8 / -7.00*** | ***CPC Pumps International Inc.***
5275 John Lucas Drive
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON8526451
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L

Waste Class Name: Waste oils/sludges (petroleum based)

---

103 | **14 of 15** | **SSE/172.8** | **129.8 / -7.00** | **CONTROLCHEM CANADA INC.**
5275 JOHN LUCAS DRIVE
BURLINGTON ON L7L6A8 | **NPR2**

NPRI ID: 10707
Facility ID: 344386, 244696
Latitude: 43.3933
Longitude: -79.7723
Note: Substances included on NPRI reports for this NPRI ID are summarized below in the NPRI ID Substances Summary section. Substances listed in the Substances Summary are included on the basis of NPRI ID only. For entities (NPRI ID) with mobile plants and/or more than one facility location, substances listed above may or may not have been reported for specific facilities/mobile locations. The list of substances additionally includes those which have been included on the NPRI report with an unknown quantity or a quantity of 0.

For specific details about substance quantities, years, release/transfer/disposal methods, the reader is referred the facility report:

https://pollution-waste.canada.ca/national-release-inventory/?fromYear=1993&toYear=2022&name=10707

NPRI ID Substances Summary

CAS No: 7647-01-0
Is VOC?: FALSE
Is DF?: FALSE
Name English: Hydrochloric acid
Name French: Acide chlorhydrique
Sort English: Hydrochloric acid
Sort French: Acide chlorhydrique
Is PAH?: FALSE
NPRI: TRUE

CAS No: 107-21-1
Is VOC?: FALSE
Is DF?: FALSE
Name English: Ethylene glycol
Name French: Éthylène glycol
Sort English: Ethylene glycol
Sort French: Éthylèneglycol
Is PAH?: FALSE
NPRI: TRUE

CAS No: 7632-00-0
Is VOC?: FALSE
Is DF?: FALSE
Name English: Sodium nitrite
Name French: Nitrite de sodium
Sort English: Sodium nitrite
Sort French: Nitrite de sodium
Is PAH?: FALSE
NPRI: TRUE

CAS No: NA - M16
Is VOC?: FALSE
Is DF?: FALSE
Name English: Volatile Organic Compounds (VOCs)
Name French: Composés organiques volatils (COV)
Sort English: Volatile Organic Compounds (VOCs)
Sort French: Composés organiques volatils (COV)
Is PAH?: FALSE
NPRI: TRUE

CAS No: 7664-93-9
Is VOC?: FALSE
Is DF?: FALSE
Name English: Sulphuric acid
Name French: Acide sulfurique
Sort English: Sulphuric acid
Sort French: Acide sulfurique
Is PAH?: FALSE
NPRI: TRUE

CAS No: 67-56-1
Is VOC?: TRUE
Is DF?: FALSE
Is PAH?: FALSE
NPRI: TRUE

Name English: Methanol
Name French: Méthanol
Sort English: Methanol
Sort French: Méthanol

Geographic Location

DLS Description:		**Datum:**	1983.0
NTS Description:	B-072-F/030-M-5	**Forward Sort Area:**	L7L
Latitude:	43.3933	**SOMA:**	TRUE
Longitude:	-79.7723	**ON PEMA:**	TRUE
Census Subdiv ID:	3524002	**QC PEMA:**	FALSE
Ecozone ID:	8	**Quebec Windsor Corr:**	TRUE
Water Survey ID:	2	**Province Code:**	ON

NPRI ID Facility ID

NPRI ID: 10707
Facility ID: 244696

Facility

Facility ID:	244696	**IDM ID:**	8075
Portable:	FALSE	**AB Approval ID:**	0
NAICS Primary:	325999	**GHGRP ID:**	0
NAICS Secondary:	0	**ON GHGRP ID:**	0
NAICS Tertiary:	0		

Facility Name: CONTROLCHEM CANADA INC.
Website:

Address

Address1: 5275 John Lucas Drive
Address2:
City: BURLINGTON
Postal Zip: L7L6A8
Prov:

Address Geographic

Latitude:	43.3933	**Datum:**	1983
Longitude:	-79.7723	**Land Survey:**	
UTM Easting:	0.000000	**Topograph:**	
UTM Northing:	0.000000	**Additional Info:**	
UTM Zone:	0		

Primary NAICS Details

NAICS Code:	325999	**Start Date:**	1993
Record Year:	1997	**End Date:**	2001

Key Indus Sector En: Chemicals
Key Indus Sector Fr: Produits chimiques
NAICS Title En: All Other Miscellaneous Chemical Product Manufacturing
NAICS Title Fr: Fabrication de tous les autres produits chimiques divers

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2002	***End Date:***	2006
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All Other Miscellaneous Chemical Product Manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2007	***End Date:***	2011
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All Other Miscellaneous Chemical Product Manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2012	***End Date:***	2016
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All other miscellaneous chemical product manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing chemical products.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de produits chimiques.

NAICS Code:	325999	***Start Date:***	2017
Record Year:	2017	***End Date:***	2021
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All other miscellaneous chemical product manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing chemical products.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de produits chimiques.

NPRI Report

Report ID:	56594	***Repor Type ID:***	1

Report Year:	2011	**New Reporter:**	FALSE
NPRI ID:	10707	**No of Employees:**	28
Company ID:	111108	**Is Compressor:**	FALSE
Facility ID:	244696	**Is NPRI Part 4:**	FALSE
SWR Report ID:	7982	**Is Battery:**	FALSE

Company

Company Name:	Controlchem Holdings Inc.
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916
Website:	

NPRI Report Comment

Description En:	General comments about the facility
Description Fr:	Commentaires généraux à propos de l'installation
Comment:	Due to the change in sales at ControlChem Candda this caused to change in nature of the report.
Note:	Many NPRI Report Comments are truncated in the NPRI data.

NPRI Report Contact

Contact Type:	NPRI	**Phone:**	9053192234
First Name:	Douglas	**Extension:**	
Last Name:	Fast	**Fax:**	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:	E		
Company Name:			

NPRI Report

Report ID:	130493	**Repor Type ID:**	1
Report Year:	2010	**New Reporter:**	TRUE
NPRI ID:	10707	**No of Employees:**	26
Company ID:	111108	**Is Compressor:**	FALSE
Facility ID:	244696	**Is NPRI Part 4:**	FALSE
SWR Report ID:	20100000010707	**Is Battery:**	FALSE

Company

Company Name:	Controlchem Holdings Inc.
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916
Website:	

NPRI Report Contact

Contact Type:	NPRI	**Phone:**	9053192234
First Name:	Douglas	**Extension:**	
Last Name:	Fast	**Fax:**	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:			
Company Name:			

NPRI ID Facility ID

NPRI ID: 10707
Facility ID: 344386

Facility

Facility ID:	344386	***IDM ID:***	0
Portable:	FALSE	***AB Approval ID:***	0
NAICS Primary:	325999	***GHGRP ID:***	0
NAICS Secondary:	0	***ON GHGRP ID:***	0
NAICS Tertiary:	0		

Facility Name: CONTROLCHEM CANADA INC.
Website: www.controlchem.com

Address

Address1: 5275 John Lucas Drive
Address2:
City: BURLINGTON
Postal Zip: L7L6A8
Prov:

Address Geographic

Latitude:	43.3933	***Datum:***	1983
Longitude:	-79.7723	***Land Survey:***	
UTM Easting:	0.000000	***Topograph:***	
UTM Northing:	0.000000	***Additional Info:***	
UTM Zone:	0		

Primary NAICS Details

NAICS Code:	325999	***Start Date:***	1993
Record Year:	1997	***End Date:***	2001

Key Indus Sector En: Chemicals
Key Indus Sector Fr: Produits chimiques
NAICS Title En: All Other Miscellaneous Chemical Product Manufacturing
NAICS Title Fr: Fabrication de tous les autres produits chimiques divers

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2002	***End Date:***	2006

Key Indus Sector En: Chemicals
Key Indus Sector Fr: Produits chimiques
NAICS Title En: All Other Miscellaneous Chemical Product Manufacturing
NAICS Title Fr: Fabrication de tous les autres produits chimiques divers

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2007	***End Date:***	2011

Key Indus Sector En: Chemicals
Key Indus Sector Fr: Produits chimiques
NAICS Title En: All Other Miscellaneous Chemical Product Manufacturing
NAICS Title Fr: Fabrication de tous les autres produits chimiques divers

NAICS Description En:

NAICS Description Fr:

NAICS Code: 325999 ***Start Date:*** 1993
Record Year: 2012 ***End Date:*** 2016
Key Indus Sector En: Chemicals
Key Indus Sector Fr: Produits chimiques
NAICS Title En: All other miscellaneous chemical product manufacturing
NAICS Title Fr: Fabrication de tous les autres produits chimiques divers

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing chemical products.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de produits chimiques.

NAICS Code: 325999 ***Start Date:*** 2017
Record Year: 2017 ***End Date:*** 2021
Key Indus Sector En: Chemicals
Key Indus Sector Fr: Produits chimiques
NAICS Title En: All other miscellaneous chemical product manufacturing
NAICS Title Fr: Fabrication de tous les autres produits chimiques divers

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing chemical products.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de produits chimiques.

NPRI Report

Report ID: 125574 ***Repor Type ID:*** 1
Report Year: 2009 ***New Reporter:*** FALSE
NPRI ID: 10707 ***No of Employees:*** 26
Company ID: 133645 ***Is Compressor:*** FALSE
Facility ID: 344386 ***Is NPRI Part 4:*** FALSE
SWR Report ID: 20090000010707 ***Is Battery:*** FALSE

Company

Company Name: CONTROLCHEM
Trade Name En:
Trade Name Fr:
DUNS No: 248291916
Website: www.controlchem.com

NPRI Report Contact

Contact Type:	NPRI	***Phone:***	9053192234
First Name:	Doug	***Extension:***	
Last Name:	Fast	***Fax:***	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:			
Company Name:			

NPRI Report

Report ID:	141066	***Repor Type ID:***	1
Report Year:	2007	***New Reporter:***	FALSE
NPRI ID:	10707	***No of Employees:***	35
Company ID:	133645	***Is Compressor:***	FALSE
Facility ID:	344386	***Is NPRI Part 4:***	FALSE
SWR Report ID:	20070000010707	***Is Battery:***	FALSE

Company

Company Name:	CONTROLCHEM
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916
Website:	www.controlchem.com

NPRI Report Contact

Contact Type:	NPRI	***Phone:***	9053192234
First Name:	Doug	***Extension:***	
Last Name:	Fast	***Fax:***	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:			
Company Name:			

NPRI Report

Report ID:	264172	***Repor Type ID:***	1
Report Year:	2004	***New Reporter:***	FALSE
NPRI ID:	10707	***No of Employees:***	35
Company ID:	133645	***Is Compressor:***	FALSE
Facility ID:	344386	***Is NPRI Part 4:***	FALSE
SWR Report ID:	20040000010707	***Is Battery:***	FALSE

Company

Company Name:	CONTROLCHEM
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916
Website:	www.controlchem.com

NPRI Report Comment

Description En:	General comments about the facility
Description Fr:	Commentaires généraux à propos de l'installation
Comment:	Please note that Methanol is not reportable in 2004 due to decreased usage of materials containing Methanol.
Note:	Many NPRI Report Comments are truncated in the NPRI data.

NPRI Report Contact

Contact Type:	NPRI	**Phone:**	9053192234
First Name:	Doug	**Extension:**	0
Last Name:	Fast	**Fax:**	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:			
Company Name:			

NPRI Report

Report ID:	156229	**Repor Type ID:**	1
Report Year:	2005	**New Reporter:**	FALSE
NPRI ID:	10707	**No of Employees:**	35
Company ID:	133645	**Is Compressor:**	FALSE
Facility ID:	344386	**Is NPRI Part 4:**	FALSE
SWR Report ID:	20050000010707	**Is Battery:**	FALSE

Company

Company Name:	CONTROLCHEM
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916
Website:	www.controlchem.com

NPRI Report Contact

Contact Type:	NPRI	**Phone:**	9053192234
First Name:	Doug	**Extension:**	0
Last Name:	Fast	**Fax:**	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:			
Company Name:			

NPRI Report

Report ID:	135995	**Repor Type ID:**	1
Report Year:	2006	**New Reporter:**	FALSE
NPRI ID:	10707	**No of Employees:**	35
Company ID:	133645	**Is Compressor:**	FALSE
Facility ID:	344386	**Is NPRI Part 4:**	FALSE
SWR Report ID:	20060000010707	**Is Battery:**	FALSE

Company

Company Name:	CONTROLCHEM
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916

Website: www.controlchem.com

NPRI Report Comment

Description En: NPRI - Report Submission
Description Fr: INRP - Soumission de rapport
Comment: ID and password process is ridiculous. Too many questions.
Note: Many NPRI Report Comments are truncated in the NPRI data.

NPRI Report Comment

Description En: General comments about the facility
Description Fr: Commentaires généraux à propos de l'installation
Comment: Methanol (CAS 67-56-1) is reportable in 2006 due to increasing in sale / distribution of this substance.
Note: Many NPRI Report Comments are truncated in the NPRI data.

NPRI Report Contact

Contact Type: NPRI
First Name: Doug
Last Name: Fast
Email: dfast@controlchem.com
Description En: Public Contact
Description Fr: Responsable des renseignements au public
Position: President
Language:
Company Name:
Phone: 9053192234
Extension:
Fax: 9053190438

NPRI Report

Report ID: 131096
Report Year: 2008
NPRI ID: 10707
Company ID: 133645
Facility ID: 344386
SWR Report ID: 20080000010707
Repor Type ID: 1
New Reporter: FALSE
No of Employees: 26
Is Compressor: FALSE
Is NPRI Part 4: FALSE
Is Battery: FALSE

Company

Company Name: CONTROLCHEM
Trade Name En:
Trade Name Fr:
DUNS No: 248291916
Website: www.controlchem.com

NPRI Report Contact

Contact Type: NPRI
First Name: Doug
Last Name: Fast
Email: dfast@controlchem.com
Description En: Public Contact
Description Fr: Responsable des renseignements au public
Position: President
Language:
Company Name:
Phone: 9053192234
Extension:
Fax: 9053190438

103	15 of 15	SSE/172.8	129.8 / -7.00	***CONTROLCHEM CANADA INC.*** ***5275 JOHN LUCAS DRIVE*** ***BURLINGTON ON L7L6A8***	***NPR2***

NPRI ID: 10707 **Latitude:** 43.3933
Facility ID: 369180 **Longitude:** -79.7723
Note: Substances included on NPRI reports for this NPRI ID are summarized below in the NPRI ID Substances Summary section. Substances listed in the Substances Summary are included on the basis of NPRI ID only. For entities (NPRI ID) with mobile plants and/or more than one facility location, substances listed above may or may not have been reported for specific facilities/mobile locations. The list of substances additionally includes those which have been included on the NPRI report with an unknown quantity or a quantity of 0.

For specific details about substance quantities, years, release/transfer/disposal methods, the reader is referred the facility report:

https://pollution-waste.canada.ca/national-release-inventory/?fromYear=1993&toYear=2022&name=10707

NPRI ID Substances Summary

CAS No: 7632-00-0 **Is PAH?:** FALSE
Is VOC?: FALSE **NPRI:** TRUE
Is DF?: FALSE
Name English: Sodium nitrite
Name French: Nitrite de sodium
Sort English: Sodium nitrite
Sort French: Nitrite de sodium

CAS No: 7664-93-9 **Is PAH?:** FALSE
Is VOC?: FALSE **NPRI:** TRUE
Is DF?: FALSE
Name English: Sulphuric acid
Name French: Acide sulfurique
Sort English: Sulphuric acid
Sort French: Acide sulfurique

CAS No: 107-21-1 **Is PAH?:** FALSE
Is VOC?: FALSE **NPRI:** TRUE
Is DF?: FALSE
Name English: Ethylene glycol
Name French: Éthylène glycol
Sort English: Ethylene glycol
Sort French: Éthylèneglycol

CAS No: NA - M16 **Is PAH?:** FALSE
Is VOC?: FALSE **NPRI:** TRUE
Is DF?: FALSE
Name English: Volatile Organic Compounds (VOCs)
Name French: Composés organiques volatils (COV)
Sort English: Volatile Organic Compounds (VOCs)
Sort French: Composés organiques volatils (COV)

CAS No: 7647-01-0 **Is PAH?:** FALSE
Is VOC?: FALSE **NPRI:** TRUE
Is DF?: FALSE
Name English: Hydrochloric acid
Name French: Acide chlorhydrique
Sort English: Hydrochloric acid
Sort French: Acide chlorhydrique

CAS No: 67-56-1 **Is PAH?:** FALSE
Is VOC?: TRUE **NPRI:** TRUE
Is DF?: FALSE
Name English: Methanol
Name French: Méthanol
Sort English: Methanol
Sort French: Méthanol

Geographic Location

DLS Description:		***Datum:***	1983.0
NTS Description:	B-072-F/030-M-5	***Forward Sort Area:***	L7L
Latitude:	43.3933	***SOMA:***	TRUE
Longitude:	-79.7723	***ON PEMA:***	TRUE
Census Subdiv ID:	3524002	***QC PEMA:***	FALSE
Ecozone ID:	8	***Quebec Windsor Corr:***	TRUE
Water Survey ID:	2	***Province Code:***	ON

NPRI ID Facility ID

NPRI ID:	10707
Facility ID:	369180

Facility

Facility ID:	369180	***IDM ID:***	0
Portable:	FALSE	***AB Approval ID:***	0
NAICS Primary:	325999	***GHGRP ID:***	0
NAICS Secondary:	0	***ON GHGRP ID:***	0
NAICS Tertiary:	0		
Facility Name:			
Website:	www.controlchem.com		

Address

Address1:	5275 John Lucas Drive
Address2:	
City:	BURLINGTON
Postal Zip:	L7L6A8
Prov:	

Address Geographic

Latitude:	43.3933	***Datum:***	1983
Longitude:	-79.7723	***Land Survey:***	
UTM Easting:	0.000000	***Topograph:***	
UTM Northing:	0.000000	***Additional Info:***	
UTM Zone:	0		

Primary NAICS Details

NAICS Code:	325999	***Start Date:***	1993
Record Year:	1997	***End Date:***	2001
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All Other Miscellaneous Chemical Product Manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2002	***End Date:***	2006
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All Other Miscellaneous Chemical Product Manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2007	***End Date:***	2011
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All Other Miscellaneous Chemical Product Manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

NAICS Description Fr:

NAICS Code:	325999	***Start Date:***	1993
Record Year:	2012	***End Date:***	2016
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All other miscellaneous chemical product manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing chemical products.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de produits chimiques.

NAICS Code:	325999	***Start Date:***	2017
Record Year:	2017	***End Date:***	2021
Key Indus Sector En:	Chemicals		
Key Indus Sector Fr:	Produits chimiques		
NAICS Title En:	All other miscellaneous chemical product manufacturing		
NAICS Title Fr:	Fabrication de tous les autres produits chimiques divers		

NAICS Description En:

This Canadian industry comprises establishments, not classified to any other Canadian industry, primarily engaged in manufacturing chemical products.

NAICS Description Fr:

Cette classe canadienne comprend les établissements qui ne figurent dans aucune autre classe canadienne et dont l'activité principale est la fabrication de produits chimiques.

NPRI Report

Report ID:	156231	***Repor Type ID:***	1
Report Year:	2003	***New Reporter:***	FALSE
NPRI ID:	10707	***No of Employees:***	29
Company ID:	133645	***Is Compressor:***	FALSE
Facility ID:	369180	***Is NPRI Part 4:***	FALSE
SWR Report ID:	20030000010707	***Is Battery:***	FALSE

Company

Company Name:	CONTROLCHEM
Trade Name En:	
Trade Name Fr:	
DUNS No:	248291916
Website:	www.controlchem.com

NPRI Report Contact

Contact Type:	NPRI	***Phone:***	9053192234
First Name:	Doug	***Extension:***	0
Last Name:	Fast	***Fax:***	9053190438
Email:	dfast@controlchem.com		
Description En:	Public Contact		
Description Fr:	Responsable des renseignements au public		
Position:	President		
Language:			
Company Name:			

---

104 ***1 of 1*** ***WSW/173.5*** ***139.8 / 3.00*** ***1989 Applyby Line lot 5 con 2 Burlington ON*** ***WWIS***

Well ID:	7415622	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring and Test Hole	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Monitoring and Test Hole	***Date Received:***	04/14/2022
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	SXRO2NZR	***Contractor:***	7739
Tag:	A339263	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	005
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/741\7415622.pdf

Additional Detail(s) (Map)

Well Completed Date:	04/04/2022
Year Completed:	2022
Depth (m):	6.7
Latitude:	43.3937544015298
Longitude:	-79.7891408125287
X:	-79.78914066408717
Y:	43.39375439962739
Path:	741\7415622.pdf

Bore Hole Information

Bore Hole ID:	1009001385	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17

Code OB:		***East83:***	598063.00
Code OB Desc:		***North83:***	4805254.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	04/04/2022	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1009001536
Layer:	2
Color:	7
General Color:	RED
Material 1:	28
Material 1 Desc:	SAND
Material 2:	34
Material 2 Desc:	TILL
Material 3:	66
Material 3 Desc:	DENSE
Formation Top Depth:	2.5
Formation End Depth:	4.599999904632568
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1009001535
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	01
Material 3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	2.5
Formation End Depth UOM:	m

Overburden and Bedrock Materials Interval

Formation ID:	1009001537
Layer:	3
Color:	7
General Color:	RED
Material 1:	26
Material 1 Desc:	ROCK
Material 2:	
Material 2 Desc:	
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	4.599999904632568
Formation End Depth:	6.699999809265137

Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001654
Layer: 1
Plug From:
Plug To:
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001681
Layer: 2
Plug From: 3.0
Plug To: 6.699999809265137
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1009001680
Layer: 1
Plug From: 0.0
Plug To: 3.0
Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1009001479
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Method of Construction & Well Use

Method Construction ID: 1009001478
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 1009001441
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1009001580
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 3.700000047683716

Casing Diameter: 5.099999904632568
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1009001607
Layer: 1
Slot: 10
Screen Top Depth: 3.700000047683716
Screen End Depth: 6.699999809265137
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 6.099999904632568

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 1009001442
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: m
Rate UOM: LPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing:

Hole Diameter

Hole ID: 1009001629
Diameter: 15.199999809265137
Depth From: 3.0
Depth To: 4.599999904632568
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1009001628
Diameter: 20.299999237060547
Depth From: 0.0
Depth To: 3.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1009001630
Diameter: 9.600000381469727
Depth From: 4.599999904632568
Depth To: 6.699999809265137
Hole Depth UOM: m
Hole Diameter UOM: cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
105	1 of 2	W/173.6	140.8 / 4.00	Upper Middle Road and Orchard Road Burlington ON	CA

Certificate #: 1934-5CRR5Z
Application Year: 02
Issue Date: 8/7/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: 783880 Ontario Limited
Client Address: 427 Montmorency Court
Client City: Hamilton
Client Postal Code: L8K 6K8
Project Description: This application is for the construction of sanitary sewers and appurtenances on Upper Middle Road.
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
105	2 of 2	W/173.6	140.8 / 4.00	783880 Ontario Limited Upper Middle Road and Orchard Road Burlington ON L8K 6K8	ECA

Approval No: 1934-5CRR5Z
Approval Date: 2002-08-07
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
MOE District: Halton-Peel
City:
Longitude: -79.7943
Latitude: 43.4045
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: 783880 Ontario Limited
Address: Upper Middle Road and Orchard Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0138-5CMR38-14.pdf
PDF Site Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
106	1 of 1	W/173.7	140.8 / 4.00	R.M. OF HALTON ORCHARD RD./UPPER MIDDLE RD. BURLINGTON CITY ON	CA

Certificate #: 7-0732-97-
Application Year: 97
Issue Date: 8/5/1997
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	1 of 13	WSW/174.1	139.8 / 3.00	COMMISSO ESSO 1989 APPLEBY LINE BURLINGTON ON L7L 6K3	RST

Headcode: 1186800
Headcode Desc: Service Stations-Gasoline, Oil & Natural Gas

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Phone: 9053159043
List Name:
Description:

---

107 | **2 of 13** | **WSW/174.1** | **139.8 / 3.00** | **VINCE COMMISSO**
1989 APPLEBY LINE
BURLINGTON ON L7L 6K3 | **FSTH**

License Issue Date: 2/4/2004
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 46400
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 46400
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 46400
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

---

107 | **3 of 13** | **WSW/174.1** | **139.8 / 3.00** | **COMMISSO ESSO**
1989 APPLEBY LINE
ON L7L 6K3 | **RST**

Headcode: 01186800
Headcode Desc: SERVICE STATIONS-GASOLINE, OIL & NATURAL GAS
Phone: 9053159043
List Name:
Description:

---

107 | **4 of 13** | **WSW/174.1** | **139.8 / 3.00** | **VINCE COMMISSO**
1989 APPLEBY LINE
BURLINGTON ON L7L 6K3 | **FSTH**

License Issue Date: 2/4/2004 1:17:00 PM
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Retail Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 46400
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 46400
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

Status: Active
Year of Installation: 2003
Corrosion Protection:
Capacity: 46400
Tank Fuel Type: Liquid Fuel Double Wall UST - Gasoline

---

107 | **5 of 13** | **WSW/174.1** | **139.8 / 3.00** | **Imperial Oil Limited**
1989 Appleby St
Burlington ON L7L 6K3 | **CA**

Certificate #: 7156-7MSQ6B
Application Year: 2009
Issue Date: 1/7/2009
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

107 | **6 of 13** | **WSW/174.1** | **139.8 / 3.00** | **1989 Appleby Line**
Burlington ON L7L6K3 | **EHS**

Order No: 20150428101
Status: C
Report Type: Standard Report
Report Date: 05-MAY-15
Date Received: 28-APR-15
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory

Nearest Intersection:
Municipality: Burlington
Client Prov/State: ON
Search Radius (km): .25
X: -79.789189
Y: 43.393593

---

107 | **7 of 13** | **WSW/174.1** | **139.8 / 3.00** | **Imperial Oil Limited**
1989 Appleby St
Burlington ON M3C 1K5 | **ECA**

Approval No: 7156-7MSQ6B
Approval Date: 2009-01-07
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Imperial Oil Limited
Address: 1989 Appleby St
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6100-7LGNDP-14.pdf
PDF Site Location:

MOE District: Halton-Peel
City:
Longitude: -79.789055
Latitude: 43.393734
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	8 of 13	WSW/174.1	139.8 / 3.00	Mac's Convenience Stores Inc. 1989 Appleby Line Burlington ON L7L 6K3	GEN

Generator No: ON4677881
SIC Code:
SIC Description:
Approval Years: As of Jan 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	9 of 13	WSW/174.1	139.8 / 3.00	Mac's Convenience Stores Inc. 1989 Appleby Line Burlington ON L7L 6K3	GEN

Generator No: ON4677881
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	10 of 13	WSW/174.1	139.8 / 3.00	MAC'S CONVENIENCE STORES INC. 1989 APPLEBY LINE BURLINGTON ON	EXP

Inventory No: 26823942
Inventory Status: inactive
Installation Year: 2003
Capacity: 46400
Capacity Unit: L
Tank Type: Double Wall UST
Manufacturer:
Model:
Description: 2009VBS
Previous Fuel Type:
Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Liquid Fuel
Inventory Item: FS Liquid Fuel Tank

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	11 of 13	WSW/174.1	139.8 / 3.00	MAC'S CONVENIENCE STORES INC. 1989 APPLEBY LINE BURLINGTON ON	EXP

Inventory No:	26823940	**Tank Material:**	Fiberglass (FRP)
Inventory Status:	inactive	**Corrosion Protect:**	Fiberglass
Installation Year:	2003	**Overfill Protection:**	
Capacity:	46400	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Double Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		
Previous Fuel Type:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	12 of 13	WSW/174.1	139.8 / 3.00	MAC'S CONVENIENCE STORES INC. 1989 APPLEBY LINE BURLINGTON ON	EXP

Inventory No:	26118630	**Tank Material:**	
Inventory Status:	Inactive	**Corrosion Protect:**	
Installation Year:		**Overfill Protection:**	
Capacity:	0	**Inventory Context:**	Liquid Fuels
Capacity Unit:	L	**Inventory Item:**	FS Gasoline Station - Self Serve
Tank Type:			
Manufacturer:			
Model:			
Description:			
Previous Fuel Type:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
107	13 of 13	WSW/174.1	139.8 / 3.00	MAC'S CONVENIENCE STORES INC. 1989 APPLEBY LINE BURLINGTON ON	EXP

Inventory No:	26823941	**Tank Material:**	Fiberglass (FRP)
Inventory Status:	inactive	**Corrosion Protect:**	Fiberglass
Installation Year:	2003	**Overfill Protection:**	
Capacity:	46400	**Inventory Context:**	FS Liquid Fuel
Capacity Unit:	L	**Inventory Item:**	FS Liquid Fuel Tank
Tank Type:	Double Wall UST		
Manufacturer:			
Model:			
Description:	2009VBS		
Previous Fuel Type:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
108	1 of 1	WSW/180.5	139.8 / 3.00	ON	WWIS

Well ID:	7404750	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	12/07/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z374538	**Contractor:**	7241
Tag:	A338025	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	

Depth to Bedrock: ***Concession:***
Well Depth: ***Concession Name:***
Overburden/Bedrock: ***Easting NAD83:***
Pump Rate: ***Northing NAD83:***
Static Water Level: ***Zone:***
Clear/Cloudy: ***UTM Reliability:***
Municipality: BURLINGTON CITY
Site Info:

Additional Detail(s) (Map)

Bore Hole ID:	1008868858	***Tag No:***	A338025
Depth M:		***Contractor:***	7241
Year Completed:	2021	***Latitude:***	43.3936160961897
Well Completed Dt:	10/12/2021	***Longitude:***	-79.7888348757079
Audit No:	Z374538	***Y:***	43.3936160939292
Path:		***X:***	-79.78883472675672

Bore Hole Information

Bore Hole ID:	1008868858	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	598088.00
Code OB Desc:		***North83:***	4805239.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	10/12/2021	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

109	***1 of 1***	***SE/182.6***	***130.8 / -6.00***	***lot 3 con 2 ON***	***WWIS***

Well ID:	7382371	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	03/12/2021
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	C27552	***Contractor:***	7675
Tag:	A309250	***Form Version:***	8
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Bore Hole ID: 1008649923
Depth M:
Year Completed: 2021
Well Completed Dt: 02/24/2021
Audit No: C27552
Path:
Tag No: A309250
Contractor: 7675
Latitude: 43.3942542458407
Longitude: -79.7710043459244
Y: 43.394254243928216
X: -79.77100419715164

Bore Hole Information

Bore Hole ID: 1008649923
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 02/24/2021
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 17
East83: 599531.00
North83: 4805331.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

---

110 | ***1 of 1*** | ***SSE/184.9*** | ***129.2 / -7.60*** | ***AMCAST INDUSTRIAL LTD.***
5276 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | ***GEN***

Generator No: ON2086700
SIC Code: 5622
SIC Description: PLUMBING, ETC., WH.
Approval Years: 95,96,97,98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

---

111 | ***1 of 2*** | ***E/186.0*** | ***130.1 / -6.74*** | ***CANADIAN COUNTRY CANDLES***
1329 HEINE CRT
BURLINGTON ON L7L 6A7 | ***SCT***

Established: 1988
Plant Size (ft²): 0
Employment: 9

--Details--
Description: PRESSED & BLOWN GLASS & GLASSWARE, N.E.C.
SIC/NAICS Code: 3229

Description: POTTERY PRODUCTS, N.E.C.

SIC/NAICS Code: 3269

Description: FABRICATED METAL PRODUCTS, N.E.C.
SIC/NAICS Code: 3499

Description: SILVERWARE, PLATED WARE, & STAINLESS STEELWARE
SIC/NAICS Code: 3914

Description: MANUFACTURING INDUSTRIES, N.E.C.
SIC/NAICS Code: 3999

---

111 | **2 of 2** | **E/186.0** | **130.1 / -6.74** | **Cantex Coatings Ltd.**
1329 Heine Crt
Burlington ON L7L 6A7 | **SCT**

Established:
Plant Size (ft²):
Employment:

--Details--
Description: Paint and Coating Manufacturing
SIC/NAICS Code: 325510

Description: All Other Miscellaneous Chemical Product Manufacturing
SIC/NAICS Code: 325999

Description: Paint and Coating Manufacturing
SIC/NAICS Code: 325510

---

112 | **1 of 1** | **SSE/187.9** | **129.8 / -7.00** | **lot 3 con 2**
ON | **WWIS**

Well ID:	7382361	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	Yes
Use 2nd:		**Data Src:**	
Final Well Status:		**Date Received:**	03/12/2021
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	C27553	**Contractor:**	7675
Tag:	A309248	**Form Version:**	8
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	003
Depth to Bedrock:		**Concession:**	02
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

Additional Detail(s) (Map)

Bore Hole ID:	1008649908	**Tag No:**	A309248
Depth M:		**Contractor:**	7675
Year Completed:	2021	**Latitude:**	43.3933904306275
Well Completed Dt:	02/24/2021	**Longitude:**	-79.7718984828716
Audit No:	C27553	**Y:**	43.39339042843275
Path:		**X:**	-79.7718983341633

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Bore Hole Information

Bore Hole ID:	1008649908	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	599460.00
Code OB Desc:		***North83:***	4805234.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	02/24/2021	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

---

113 ***1 of 33*** ***SSW/193.8*** ***132.9 / -3.93***

Regional Municipality Of Halton
5200 Corporate Drive
Burlington ON L7L 7G7

GEN

Generator No:	ON9876410
SIC Code:	621911
SIC Description:	Ambulance (except Air Ambulance) Services
Approval Years:	06,07,08
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	251
Waste Class Name:	OIL SKIMMINGS & SLUDGES
Waste Class:	150
Waste Class Name:	INERT INORGANIC WASTES

---

113 ***2 of 33*** ***SSW/193.8*** ***132.9 / -3.93***

The Regional Municipality of Halton
5200 Corporate Drive
Burlington ON L7L 7G7

CA

Certificate #:	0731-68QH9Z
Application Year:	2005
Issue Date:	1/17/2005
Approval Type:	Air
Status:	Revoked and/or Replaced
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	3 of 33	SSW/193.8	132.9 / -3.93	The Regional Municipality of Halton 5200 Corporate Drive Burlington ON L7L 7G7	CA

Certificate #: 1784-6NTR6W
Application Year: 2006
Issue Date: 4/19/2006
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	4 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality of Halton 5200 Corporate Drive Burlington ON L7L 7G7	GEN

Generator No: ON9299952
SIC Code: 623310
SIC Description: Community Care Facilities for the Elderly
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	5 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality Of Halton 5200 Corporate Drive Burlington ON L7L 7G7	GEN

Generator No: ON9876410
SIC Code: 621911
SIC Description: Ambulance (except Air Ambulance) Services
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251

Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

---

113 *6 of 33* **SSW/193.8** **132.9 / -3.93** **Regional Municipality Of Halton**
5200 Corporate Drive
Burlington ON L7L 7G7
GEN

Generator No: ON9876410
SIC Code: 621911
SIC Description: Ambulance (except Air Ambulance) Services
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

---

113 *7 of 33* **SSW/193.8** **132.9 / -3.93** **Regional Municipality of Halton**
5200 Corporate Drive
Burlington ON L7L 7G7
GEN

Generator No: ON9299952
SIC Code: 623310
SIC Description: Community Care Facilities for the Elderly
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 *8 of 33* **SSW/193.8** **132.9 / -3.93** **Regional Municipality Of Halton**
5200 Corporate Drive
Burlington ON L7L 7G7
GEN

Generator No: ON9876410
SIC Code: 621911
SIC Description: Ambulance (except Air Ambulance) Services
Approval Years: 2011
PO Box No:
Country:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 | ***9 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality of Halton***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9299952
SIC Code: 623310
SIC Description: Community Care Facilities for the Elderly
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 | ***10 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality Of Halton***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9876410
SIC Code: 621911
SIC Description: Ambulance (except Air Ambulance) Services
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	11 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality of Halton 5200 Corporate Drive Burlington ON L7L 7G7	GEN

Generator No: ON9299952
SIC Code: 623310
SIC Description: Community Care Facilities for the Elderly
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	12 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality Of Halton 5200 Corporate Drive Burlington ON	GEN

Generator No: ON9876410
SIC Code: 621911
SIC Description:
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	13 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality of Halton 5200 Corporate Drive Burlington ON	GEN

Generator No: ON9299952
SIC Code: 623310
SIC Description:
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 ***14 of 33*** ***SSW/193.8*** ***132.9 / -3.93*** ***CFOT***

REGIONAL MUNICIPALITY OF HALTON
5200 CORPORATE DR
BURLINGTON ON

Inventory No: 41466017
Inventory Status: Active
Installation Year: 2005
Capacity: 2500
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description:

Tank Material: Fiberglass (FRP)
Corrosion Protect: Fiberglass
Overfill Protection:
Inventory Context: FS Fuel Oil Tank
Inventory Item: FS FUEL OIL TANK

---

113 ***15 of 33*** ***SSW/193.8*** ***132.9 / -3.93*** ***ECA***

The Regional Municipality of Halton
5200 Corporate Drive
Burlington ON L6M 3L1

Approval No: 0731-68QH9Z
Approval Date: 2005-01-17
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-AIR
Project Type: AIR
Business Name: The Regional Municipality of Halton
Address: 5200 Corporate Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1894-667P4P-14.pdf
PDF Site Location:

MOE District: Halton-Peel
City:
Longitude: -79.77991
Latitude: 43.39301
Geometry X:
Geometry Y:

---

113 ***16 of 33*** ***SSW/193.8*** ***132.9 / -3.93*** ***ECA***

The Regional Municipality of Halton
5200 Corporate Drive
Burlington ON L6M 3L1

Approval No: 1784-6NTR6W
Approval Date: 2006-04-19
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
Approval Type: ECA-AIR
Project Type: AIR
Business Name: The Regional Municipality of Halton
Address: 5200 Corporate Drive
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1951-6M7TRV-14.pdf
PDF Site Location:

MOE District: Halton-Peel
City:
Longitude: -79.77991
Latitude: 43.39301
Geometry X:
Geometry Y:

---

113 ***17 of 33*** ***SSW/193.8*** ***132.9 / -3.93*** ***GEN***

Regional Municipality of Halton
5200 Corporate Drive

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Burlington ON L7L 7G7	

Generator No: ON9299952
SIC Code: 623310
SIC Description: 623310
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Marlene Hardcastle
Choice of Contact: CO_ADMIN
Phone No Admin: 905-825-6000 Ext.8607
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

113	***18 of 33***	***SSW/193.8***	***132.9 / -3.93***	***Regional Municipality Of Halton*** ***5200 Corporate Drive*** ***Burlington ON L7L 7G7***	***GEN***

Generator No: ON9876410
SIC Code: 621911
SIC Description: 621911
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Linda T Sinker
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905 825-6000 Ext.7035
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

113	***19 of 33***	***SSW/193.8***	***132.9 / -3.93***	***Regional Municipality of Halton*** ***5200 Corporate Drive*** ***Burlington ON L7L 7G7***	***GEN***

Generator No: ON9299952
SIC Code: 623310
SIC Description: 623310
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Marlene Hardcastle
Choice of Contact: CO_ADMIN
Phone No Admin: 905-825-6000 Ext.8607
Contaminated Facility: No
MHSW Facility: No

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 | ***20 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality Of Halton***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9876410
SIC Code: 621911
SIC Description: 621911
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Linda T Sinker
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905 825-6000 Ext.7035
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 | ***21 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality of Halton***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9299952
SIC Code: 623310
SIC Description: 623310
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Marlene Hardcastle
Choice of Contact: CO_ADMIN
Phone No Admin: 905-825-6000 Ext.8607
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 | ***22 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality Of Halton***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9876410
SIC Code: 621911
SIC Description: 621911
Approval Years: 2014
PO Box No:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Country: Canada
Status:
Co Admin: Linda T Sinker
Choice of Contact: CO_ADMIN
Phone No Admin: 905 825-6000 Ext.7035
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 150
Waste Class Name: INERT INORGANIC WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	23 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality of Halton Services for Seniors 5200 Corporate Drive Burlington ON L7L 7G7	GEN

Generator No: ON9299952
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
113	24 of 33	SSW/193.8	132.9 / -3.93	Regional Municipality Of Halton Health Department 5200 Corporate Drive Burlington ON L7L 7G7	GEN

Generator No: ON9876410
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150 L
Waste Class Name: Inert organic wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		251 L			
Waste Class Name:		Waste oils/sludges (petroleum based)			
113	25 of 33	SSW/193.8	132.9 / -3.93	**Regional Municipality of Halton Services for Seniors** **5200 Corporate Drive** **Burlington ON L7L 7G7**	GEN
Generator No:		ON9299952			
SIC Code:					
SIC Description:					
Approval Years:		As of Jul 2020			
PO Box No:					
Country:		Canada			
Status:		Registered			
Co Admin:					
Choice of Contact:					
Phone No Admin:					
Contaminated Facility:					
MHSW Facility:					
Detail(s)					
Waste Class:		251 L			
Waste Class Name:		Waste oils/sludges (petroleum based)			
113	26 of 33	SSW/193.8	132.9 / -3.93	**Regional Municipality Of Halton Health Department** **5200 Corporate Drive** **Burlington ON L7L 7G7**	GEN
Generator No:		ON9876410			
SIC Code:					
SIC Description:					
Approval Years:		As of Jul 2020			
PO Box No:					
Country:		Canada			
Status:		Registered			
Co Admin:					
Choice of Contact:					
Phone No Admin:					
Contaminated Facility:					
MHSW Facility:					
Detail(s)					
Waste Class:		251 L			
Waste Class Name:		Waste oils/sludges (petroleum based)			
Waste Class:		312 P			
Waste Class Name:		Pathological wastes			
Waste Class:		150 L			
Waste Class Name:		Inert organic wastes			
113	27 of 33	SSW/193.8	132.9 / -3.93	**Halton Region** **5200 Corporate Drive** **Burlington ON L7L7G7**	GEN
Generator No:		ON4937770			
SIC Code:					
SIC Description:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

113	28 of 33	SSW/193.8	132.9 / -3.93	**Regional Municipality Of Halton Health Department** **5200 Corporate Drive** **Burlington ON L7L 7G7**	GEN

Generator No: ON9876410
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 150 L
Waste Class Name: Inert organic wastes

113	29 of 33	SSW/193.8	132.9 / -3.93	**Regional Municipality of Halton Services for Seniors** **5200 Corporate Drive** **Burlington ON L7L 7G7**	GEN

Generator No: ON9299952
SIC Code:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

113	30 of 33	SSW/193.8	132.9 / -3.93	**Halton Region** **5200 Corporate Drive** **Burlington ON L7L7G7**	GEN

Generator No: ON4937770
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

113	31 of 33	SSW/193.8	132.9 / -3.93	**Halton Region** **5200 Corporate Drive** **Burlington ON L7L7G7**	GEN

Generator No: ON4937770
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 145 L
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 I
Waste Class Name: ORGANIC LABORATORY CHEMICALS

---

113 | ***32 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality of Halton Services for Seniors***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9299952
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

113 | ***33 of 33*** | ***SSW/193.8*** | ***132.9 / -3.93*** | ***Regional Municipality Of Halton Health Department***
5200 Corporate Drive
Burlington ON L7L 7G7 | ***GEN***

Generator No: ON9876410
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 150 L
Waste Class Name: INERT INORGANIC WASTES

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

---

114 ***1 of 1*** ***WSW/196.0*** ***139.8 / 3.00*** ***ON*** ***WWIS***

Well ID: 7404751
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z374533
Tag: A332670
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 12/07/2021
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Bore Hole ID: 1008868861
Depth M:
Year Completed: 2021
Well Completed Dt: 10/13/2021
Audit No: Z374533
Path:

Tag No: A332670
Contractor: 7241
Latitude: 43.3934815824078
Longitude: -79.7888869453217
Y: 43.39348157983325
X: -79.78888679580079

Bore Hole Information

Bore Hole ID: 1008868861
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/13/2021
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 598084.00
North83: 4805224.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
115	1 of 1	SSW/198.0	132.0 / -4.87	5200 CORPORATE DR Burlington ON	WWIS

Well ID: 7180404
Construction Date:
Use 1st: Monitoring and Test Hole
Use 2nd: 0
Final Well Status: Test Hole
Water Type:
Casing Material:
Audit No: Z146344
Tag: A097720
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src:
Date Received: 05/07/2012
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/718\7180404.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/28/2012
Year Completed: 2012
Depth (m): 6.096
Latitude: 43.3928775588162
Longitude: -79.779502541097
X: -79.77950239190997
Y: 43.39287755637377
Path: 718\7180404.pdf

Bore Hole Information

Bore Hole ID: 1003723946
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 03/28/2012
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 598845.00
North83: 4805168.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1004296184
Layer: 2
Color: 7

General Color:	RED
Material 1:	34
Material 1 Desc:	TILL
Material 2:	17
Material 2 Desc:	SHALE
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	5.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004296185
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	34
Material 2 Desc:	TILL
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	10.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004296183
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	01
Material 1 Desc:	FILL
Material 2:	28
Material 2 Desc:	SAND
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004296193
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004296194
Layer:	2
Plug From:	1.0
Plug To:	9.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004296195
Layer:	3
Plug From:	9.0
Plug To:	20.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1004296192
Method Construction Code:	D
Method Construction:	Direct Push
Other Method Construction:	

Pipe Information

Pipe ID:	1004296182
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1004296188
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	10.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1004296189
Layer:	1
Slot:	10
Screen Top Depth:	10.0
Screen End Depth:	20.0
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.25

Water Details

Water ID:	1004296187
Layer:	1
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1004296186
Diameter:	8.0
Depth From:	0.0
Depth To:	20.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

116 **1 of 1** **SSW/198.4** **132.0 / -4.87** **5200 CORPORATE DR Burlington ON** **WWIS**

Well ID:	7180402	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring and Test Hole	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	
Final Well Status:	Test Hole	**Date Received:**	05/07/2012
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z146345	**Contractor:**	7241
Tag:	A097721	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/718\7180402.pdf

Additional Detail(s) (Map)

Well Completed Date:	03/28/2012
Year Completed:	2012
Depth (m):	6.096
Latitude:	43.3928776905789
Longitude:	-79.7795148859338
X:	-79.77951473655467
Y:	43.39287768888658
Path:	718\7180402.pdf

Bore Hole Information

Bore Hole ID:	1003723940	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598844.00
Code OB Desc:		**North83:**	4805168.00
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	4
Date Completed:	03/28/2012	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1004296156
Layer:	2
Color:	7
General Color:	RED
Material 1:	34
Material 1 Desc:	TILL
Material 2:	17
Material 2 Desc:	SHALE
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	5.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004296155
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	01
Material 1 Desc:	FILL
Material 2:	28
Material 2 Desc:	SAND
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004296157
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	34
Material 2 Desc:	TILL
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	10.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004296165
Layer:	1
Plug From:	0.0
Plug To:	1.0
Plug Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004296166
Layer: 2
Plug From: 1.0
Plug To: 9.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004296167
Layer: 3
Plug From: 9.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1004296164
Method Construction Code: D
Method Construction: Direct Push
Other Method Construction:

Pipe Information

Pipe ID: 1004296154
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004296160
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 10.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1004296161
Layer: 1
Slot: 10
Screen Top Depth: 10.0
Screen End Depth: 20.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.25

Water Details

Water ID: 1004296159
Layer:
Kind Code:
Kind:

Water Found Depth:
Water Found Depth UOM: ft

Hole Diameter

Hole ID: 1004296158
Diameter: 8.0
Depth From: 0.0
Depth To: 20.0
Hole Depth UOM: ft
Hole Diameter UOM: inch

---

117 | ***1 of 1*** | ***SSW/198.7*** | ***131.9 / -4.95*** | ***5200 CORPORATE DR Burlington ON*** | ***WWIS***

Well ID:	7180403	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring and Test Hole	***Data Entry Status:***	
Use 2nd:	0	***Data Src:***	
Final Well Status:	Test Hole	***Date Received:***	05/07/2012
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	Z146341	***Contractor:***	7241
Tag:	A097719	***Form Version:***	7
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	

Municipality: BURLINGTON CITY
Site Info:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/718\7180403.pdf

Additional Detail(s) (Map)

Well Completed Date: 03/28/2012
Year Completed: 2012
Depth (m): 6.096
Latitude: 43.392868424629
Longitude: -79.7794903769466
X: -79.77949022782737
Y: 43.39286842281962
Path: 718\7180403.pdf

Bore Hole Information

Bore Hole ID:	1003723943	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	598846.00
Code OB Desc:		***North83:***	4805167.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	03/28/2012	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr

Location Method Desc: on Water Well Record
Elevrc Desc:

Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	1004296169
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	01
Material 1 Desc:	FILL
Material 2:	28
Material 2 Desc:	SAND
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	5.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004296170
Layer:	2
Color:	7
General Color:	RED
Material 1:	34
Material 1 Desc:	TILL
Material 2:	17
Material 2 Desc:	SHALE
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	5.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1004296171
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	34
Material 2 Desc:	TILL
Material 3:	73
Material 3 Desc:	HARD
Formation Top Depth:	10.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1004296179
Layer:	1

Plug From: 0.0
Plug To: 1.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004296180
Layer: 2
Plug From: 1.0
Plug To: 9.0
Plug Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 1004296181
Layer: 3
Plug From: 9.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 1004296178
Method Construction Code: D
Method Construction: Direct Push
Other Method Construction:

Pipe Information

Pipe ID: 1004296168
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004296174
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0.0
Depth To: 10.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 1004296175
Layer: 1
Slot: 10
Screen Top Depth: 10.0
Screen End Depth: 20.0
Screen Material: 5
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.25

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Water Details

Water ID:	1004296173
Layer:	
Kind Code:	
Kind:	
Water Found Depth:	
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1004296172
Diameter:	8.0
Depth From:	0.0
Depth To:	20.0
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

---

118 ***1 of 3*** ***E/202.0*** ***130.7 / -6.20*** ***ON LINE EMBOSSING SERVICES*** ***SCT***
1327 HEINE CRT
BURLINGTON ON L7L 6A7

Established:	1975
Plant Size (ft²):	6000
Employment:	6

--Details--

Description:	COMMERCIAL PRINTING, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code:	2759
Description:	PLASTICS PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code:	3089

---

118 ***2 of 3*** ***E/202.0*** ***130.7 / -6.20*** ***LAYDON INDUSTRIES INC.*** ***SCT***
1327 HEINE CRT
BURLINGTON ON L7L 6A7

Established:	1992
Plant Size (ft²):	3500
Employment:	5

--Details--

Description:	INDUSTRIAL & COMMERCIAL MACHINERY & EQUIPMENT, N.E.C.
SIC/NAICS Code:	3599

---

118 ***3 of 3*** ***E/202.0*** ***130.7 / -6.20*** ***First General Services*** ***GEN***
1327 Heine Court
Burlington ON L7L 6A7

Generator No:	ON8587289
SIC Code:	
SIC Description:	
Approval Years:	As of Jan 2021
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	

Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 262 L
Waste Class Name: Detergents and soaps

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

---

119 ***1 of 15*** ***E/202.7*** ***129.8 / -7.00*** ***K.N. Crowder Mfg. Inc.***
1220 Burloak Dr
Burlington ON L7L 6B3 ***SCT***

Established: 01-JAN-51
Plant Size (ft²): 30000
Employment:

--Details--
Description: Hardware Manufacturing
SIC/NAICS Code: 332510

Description: Other Ornamental and Architectural Metal Product Manufacturing
SIC/NAICS Code: 332329

Description: Metal Window and Door Manufacturing
SIC/NAICS Code: 332321

---

119 ***2 of 15*** ***E/202.7*** ***129.8 / -7.00*** ***K. N. CROWDER MFG. INC.***
1220 BURLOAK DR
BURLINGTON ON L7L 6B3 ***GEN***

Generator No: ON6698461
SIC Code: 332510
SIC Description: Hardware Manufacturing
Approval Years: 05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
119	3 of 15	E/202.7	129.8 / -7.00	K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3	GEN

Generator No: ON6698461
SIC Code: 332510
SIC Description: Hardware Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
119	4 of 15	E/202.7	129.8 / -7.00	K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3	GEN

Generator No: ON6698461
SIC Code: 332510
SIC Description: Hardware Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
119	5 of 15	E/202.7	129.8 / -7.00	K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3	GEN

Generator No: ON6698461
SIC Code: 332510
SIC Description: Hardware Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

119 | ***6 of 15*** | ***E/202.7*** | ***129.8 / -7.00*** | ***Burlington Hydro 1220 Burloak Dr Burlington ON*** | ***SPL***

Ref No: 4822-95RJZR
Year:
Incident Dt: 13-MAR-13
Dt MOE Arvl on Scn:
MOE Reported Dt: 13-MAR-13
Dt Document Closed: 14-JUN-13
Site No:
MOE Response: No Further Response (PR-PIR Table A)
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: xfrmr oil spill<UNOFFICIAL>
Site Address: 1220 Burloak Dr
Site Region:
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Leak/Break
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Soil Contamination
Contaminant Qty: 350 L
System Facility Address:
Client Name: Burlington Hydro
Client Type:
Source Type:
Contaminant Code: 15
Contaminant Name: TRANSFORMER OIL (N.O.S.)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Incident Reason: Equipment Failure
Incident Summary: Burlington Hydro: 350L xfrmr oil to grnd, clnd
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Transformer
SAC Action Class: Land Spills
Call Report Locatn Geodata:

---

119 | ***7 of 15*** | ***E/202.7*** | ***129.8 / -7.00*** | ***K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3*** | ***GEN***

Generator No: ON6698461
SIC Code: 332510
SIC Description: Hardware Manufacturing

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

119 | ***8 of 15*** | ***E/202.7*** | ***129.8 / -7.00*** | ***K. N. CROWDER MFG. INC.***
1220 BURLOAK DR
BURLINGTON ON | ***GEN***

Generator No: ON6698461
SIC Code: 332510
SIC Description: HARDWARE MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

119 | ***9 of 15*** | ***E/202.7*** | ***129.8 / -7.00*** | ***K. N. CROWDER MFG. INC.***
1220 BURLOAK DR
BURLINGTON ON L7L 6B3 | ***GEN***

Generator No: ON6698461
SIC Code: 332510
SIC Description: HARDWARE MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
119	10 of 15	E/202.7	129.8 / -7.00	K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3	GEN

Generator No: ON6698461
SIC Code: 332510
SIC Description: HARDWARE MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
119	11 of 15	E/202.7	129.8 / -7.00	K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3	GEN

Generator No: ON6698461
SIC Code: 332510
SIC Description: HARDWARE MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
119	12 of 15	E/202.7	129.8 / -7.00	K. N. CROWDER MFG. INC. 1220 BURLOAK DR BURLINGTON ON L7L 6B3	GEN

Generator No: ON6698461
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

---

119 | ***13 of 15*** | ***E/202.7*** | ***129.8 / -7.00*** | ***K. N. CROWDER MFG. INC.***
1220 BURLOAK DR
BURLINGTON ON L7L 6B3 | ***GEN***

Generator No: ON6698461
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

---

119 | ***14 of 15*** | ***E/202.7*** | ***129.8 / -7.00*** | ***K. N. CROWDER MFG. INC.***
1220 BURLOAK DR
BURLINGTON ON L7L 6B3 | ***GEN***

Generator No: ON6698461
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 251 I
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

---

119 | **15 of 15** | **E/202.7** | **129.8 / -7.00** | **K. N. CROWDER MFG. INC.**
1220 BURLOAK DR
BURLINGTON ON L7L 6B3 | **GEN**

Generator No: ON6698461
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 251 I
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

120 | **1 of 3** | **E/208.5** | **129.8 / -7.00** | **1453372 Ontario Inc.**
1330 Heine Crt
Burlington ON L6H 2K2 | **ECA**

Approval No: 1674-6LRK2T
Approval Date: 2014-02-12
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-WASTE MANAGEMENT SYSTEMS
Project Type: WASTE MANAGEMENT SYSTEMS
Business Name: 1453372 Ontario Inc.
Address: 1330 Heine Crt
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2264-9D5M3D-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

---

120 | **2 of 3** | **E/208.5** | **129.8 / -7.00** | **1330 Heine Court**
Burlington ON | **EHS**

Order No: 20170707047
Status: C
Report Type: Standard Select Report
Report Date: 13-JUL-17
Date Received: 07-JUL-17
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.765889
Y: 43.398462

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
120	3 of 3	E/208.5	129.8 / -7.00	1330 Heine Court, Burlington BURLINGTON ON	SPL

Ref No: 1-GCZM8
Year:
Incident Dt:
Dt MOE Arvl on Scn:
MOE Reported Dt: 5/20/2021 9:13:13 AM
Dt Document Closed: 8/11/2021 12:23:31 PM
Site No:
MOE Response: Desktop Response
Site County/District:
Site Geo Ref Meth:
Site District Office: Halton-Peel District Office
Nearest Watercourse:
Site Name:
Site Address: 1330 Heine Court, Burlington
Site Region: REGIONAL MUNICIPALITY OF HALTON
Site Municipality: BURLINGTON
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause:
Incident Preceding Spill: Overfill
Environment Impact: 1 Minor Impact
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 100 litre (L)
System Facility Address:
Client Name: DAVIS FUELS
Client Type: Private Business
Source Type: Truck - Only Saddle Tanks
Contaminant Code:
Contaminant Name: DIESEL FUEL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land
Incident Reason:
Incident Summary: Spartan Response: Spill at McDougall Energy
Activity Preceding Spill: Fueling
Property 2nd Watershed: Lake Ontario and Niagara Peninsula
Property Tertiary Watershed: 02HB-Credit - 16 Mile
Sector Type: PETROLEUM AND PETROLEUM PRODUCTS MERCHANT WHOLESALERS
SAC Action Class:
Call Report Locatn Geodata: {"integration_ids":["PR00000452845"],"wkts":["POINT (-79.7659685000 43.3983330000)"],"creation_date":"2021-05-20"}

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
121	1 of 2	E/211.1	130.9 / -5.92	JM Tek Ltd 1325 Heine Court Burlington ON L7L 6A7	GEN

Generator No: ON3174887
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253 L
Waste Class Name: Emulsified oils

---

121 ***2 of 2*** ***E/211.1*** ***130.9 / -5.92*** ***JM Tek Ltd***
1325 Heine Court
Burlington ON L7L 6A7 ***GEN***

Generator No: ON3174887
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253 L
Waste Class Name: EMULSIFIED OILS

---

122 ***1 of 5*** ***SE/213.3*** ***130.8 / -6.00*** ***Pack-N-Rail Ltd.***
1295 Sutton Dr
Burlington ON L7L 6C2 ***SCT***

Established: 01-AUG-80
Plant Size (ft²):
Employment:

--Details--
Description: Wood Container and Pallet Manufacturing
SIC/NAICS Code: 321920

Description: Packaging and Labelling Services
SIC/NAICS Code: 561910

---

122 ***2 of 5*** ***SE/213.3*** ***130.8 / -6.00*** ***Pack N Rail Ltd.***
1295 Sutton Drive
Burlington ON L7L 6C2 ***GEN***

Generator No: ON5582084
SIC Code:
SIC Description:
Approval Years: 03,04
PO Box No:
Country:
Status:
Co Admin:

Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

---

122 | ***3 of 5*** | ***SE/213.3*** | ***130.8 / -6.00*** | ***Hazmat Environmental Group Ltd. <UNOFFICIAL> 1295 Sutton Drive Burlington ON L7L 6C2*** | ***SPL***

Ref No: 6046-62ESPP
Year:
Incident Dt: 6/29/2004
Dt MOE Arvl on Scn:
MOE Reported Dt: 6/29/2004
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: PACK N RAIL<UNOFFICIAL>
Site Address:
Site Region: Central
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Container Leak (Fuel Tank Barrels)
Incident Preceding Spill:
Environment Impact: Possible
Health Env Consequence:
Nature of Impact: Air Pollution; Human Health/Safety
Contaminant Qty:
System Facility Address:
Client Name: Hazmat Environmental Group Ltd.<UNOFFICIAL>
Client Type:
Source Type:
Contaminant Code: 36
Contaminant Name: ACID FUMES
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Air
Incident Reason: Unknown - Reason not determined
Incident Summary: Hazmat Env. Group: 1 Drum, HBr Sol., Acid Fuming
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Transport Truck
SAC Action Class: Spill to Air
Call Report Locatn Geodata:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group: Gases/Particulate
Impact to Health:
Agency Involved:

---

122 | ***4 of 5*** | ***SE/213.3*** | ***130.8 / -6.00*** | ***Kami Metals 1295 Sutton Drive Burlington ON*** | ***GEN***

Generator No: ON4891685
SIC Code: 488210

SIC Description: SUPPORT ACTIVITIES FOR RAIL TRANSPORTATION
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

122 | **5 of 5** | **SE/213.3** | **130.8 / -6.00** | **1295 Sutton Drive Burlington ON L7L 6C2** | **EHS**

Order No: 23020100402
Status: C
Report Type: Standard Report
Report Date: 06-FEB-23
Date Received: 01-FEB-23
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; Title Searches; City Directory

Nearest Intersection:
Municipality: Halton Region
Client Prov/State: ON
Search Radius (km): .25
X: -79.7700391
Y: 43.3946724

---

123 | **1 of 1** | **WSW/216.4** | **139.8 / 3.00** | **ON** | **WWIS**

Well ID: 7417284
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: Z384253
Tag: A343726
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 05/10/2022
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
County: HALTON
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Additional Detail(s) (Map)

Bore Hole ID: 1009023045
Depth M:
Year Completed: 2022
Well Completed Dt: 04/11/2022
Audit No: Z384253
Path:

Tag No: A343726
Contractor: 7241
Latitude: 43.3934056586189
Longitude: -79.7893700135212
Y: 43.393405656927314
X: -79.78936986469817

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Bore Hole Information

Bore Hole ID:	1009023045	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	598045.00
Code OB Desc:		***North83:***	4805215.00
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	4
Date Completed:	04/11/2022	***UTMRC Desc:***	margin of error : 30 m - 100 m
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

---

124 ***1 of 1*** ***WSW/217.9*** ***139.8 / 3.00*** ***1963 Appleby Line Burlington ON L7L*** ***EHS***

Order No:	20200224138	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Standard Report	***Client Prov/State:***	ON
Report Date:	27-FEB-20	***Search Radius (km):***	.25
Date Received:	24-FEB-20	***X:***	-79.790261
Previous Site Name:		***Y:***	43.3938394
Lot/Building Size:			
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Aerial Photos		

---

125 ***1 of 17*** ***SSE/219.0*** ***128.8 / -8.08*** ***FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON CITY ON L7L 5Z9*** ***CA***

Certificate #:	8-3044-95-
Application Year:	95
Issue Date:	3/31/1995
Approval Type:	Industrial air
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	POWDER CURING OVEN, METAL CLEANING UNIT
Contaminants:	Nitrogen Oxides, Phosphoric Acid
Emission Control:	

---

125 ***2 of 17*** ***SSE/219.0*** ***128.8 / -8.08*** ***FROST PRODUCTS LIMITED 5280 JOHN LUCAS DR BURLINGTON ON L7L 5Z9*** ***SCT***

Established:	1962
Plant Size (ft²):	20000
Employment:	20

--Details--

Description:	FABRICATED METAL PRODUCTS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code:	3499

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: OFFICE AND STORE FIXTURES, PARTITIONS, SHELVING, AND LOCKERS, EXCEPT WOOD
SIC/NAICS Code: 2542

Description: ENAMELED IRON AND METAL SANITARY WARE
SIC/NAICS Code: 3431

---

125 | **3 of 17** | **SSE/219.0** | **128.8 / -8.08** | **Frost Products Ltd.**
5280 John Lucas Dr
Burlington ON L7L 5Z9 | **SCT**

Established: 01-AUG-62
Plant Size (ft²): 20000
Employment:

--Details--
Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Showcase, Partition, Shelving and Locker Manufacturing
SIC/NAICS Code: 337215

Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

---

125 | **4 of 17** | **SSE/219.0** | **128.8 / -8.08** | **FROST PRODUCTS LTD.**
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | **GEN**

Generator No: ON0707501
SIC Code: 3099
SIC Description: OTHER METAL FAB. IND
Approval Years: 94,95,96,97,98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

---

125 | **5 of 17** | **SSE/219.0** | **128.8 / -8.08** | **FROST PRODUCTS LIMITED**
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | **GEN**

Generator No: ON0707501
SIC Code: 3099
SIC Description: OTHER METAL FAB. IND.
Approval Years: 99,00,01,02,03,04,05,06,07,08
PO Box No:
Country:
Status:

Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

---

125 | ***6 of 17*** | ***SSE/219.0*** | ***128.8 / -8.08*** | ***FROST PRODUCTS LIMITED***
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | ***GEN***

Generator No: ON0707501
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

---

125 **7 of 17** **SSE/219.0** **128.8 / -8.08** **FROST PRODUCTS LIMITED** **GEN**
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9

Generator No: ON0707501
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

---

125 **8 of 17** **SSE/219.0** **128.8 / -8.08** **FROST PRODUCTS LIMITED** **GEN**
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9

Generator No: ON0707501
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 331

Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
125	9 of 17	SSE/219.0	128.8 / -8.08	FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON0707501
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
125	10 of 17	SSE/219.0	128.8 / -8.08	FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON ON	GEN

Generator No: ON0707501
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:

Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

125	11 of 17	SSE/219.0	128.8 / -8.08	FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON0707501
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Curtis WB Biggar
Choice of Contact: CO_ADMIN
Phone No Admin: 905 3325700 Ext.34
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 212

Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

---

125 **12 of 17** **SSE/219.0** **128.8 / -8.08** **FROST PRODUCTS LIMITED**
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 **GEN**

Generator No: ON0707501
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Curtis WB Biggar
Choice of Contact: CO_ADMIN
Phone No Admin: 905 3325700 Ext.34
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

125 **13 of 17** **SSE/219.0** **128.8 / -8.08** **FROST PRODUCTS LIMITED**
5280 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 **GEN**

Generator No: ON0707501
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Curtis WB Biggar
Choice of Contact: CO_ADMIN
Phone No Admin: 905 3325700 Ext.34
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 113
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

125	14 of 17	SSE/219.0	128.8 / -8.08	**FROST PRODUCTS LIMITED** **5280 JOHN LUCAS DRIVE** **BURLINGTON ON L7L 5Z9**	GEN

Generator No: ON0707501
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113 L
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
125	15 of 17	SSE/219.0	128.8 / -8.08	FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON0707501
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 113 L
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
125	16 of 17	SSE/219.0	128.8 / -8.08	FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON0707501
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 113 L
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 122 C
Waste Class Name: Alkaline slutions - containing other metals and non-metals (not cyanide)

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

125	***17 of 17***	***SSE/219.0***	***128.8 / -8.08***	***FROST PRODUCTS LIMITED 5280 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9***	***GEN***

Generator No: ON0707501
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 263 I
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 146 L
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 263 L
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 113 L
Waste Class Name: ACID WASTE - OTHER METALS

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 122 C
Waste Class Name: ALKALINE WASTES - OTHER METALS

---

126 | **1 of 1** | **ESE/219.4** | **129.8 / -7.00** | **5329 JOHN LUCAS DR. Burlington ON** | **WWIS**

Well ID:	7255960	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:	Monitoring and Test Hole	**Data Entry Status:**	
Use 2nd:	0	**Data Src:**	
Final Well Status:	Monitoring and Test Hole	**Date Received:**	01/14/2016
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	Z208481	**Contractor:**	7247
Tag:	A178960	**Form Version:**	7
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	
Elevatn Reliabilty:		**Lot:**	
Depth to Bedrock:		**Concession:**	
Well Depth:		**Concession Name:**	
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:			
Site Info:			

Bore Hole Information

Bore Hole ID:	1005867374	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	
Code OB:		**East83:**	
Code OB Desc:		**North83:**	
Open Hole:		**Org CS:**	UTM83
Cluster Kind:		**UTMRC:**	9
Date Completed:	08/19/2015	**UTMRC Desc:**	unknown UTM
Remarks:		**Location Method:**	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	1005935004
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	84
Material 2 Desc:	SILTY

Material 3:	34
Material 3 Desc:	TILL
Formation Top Depth:	2.0
Formation End Depth:	10.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005935005
Layer:	3
Color:	7
General Color:	RED
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	84
Material 2 Desc:	SILTY
Material 3:	66
Material 3 Desc:	DENSE
Formation Top Depth:	10.0
Formation End Depth:	
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	1005935003
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	02
Material 1 Desc:	TOPSOIL
Material 2:	05
Material 2 Desc:	CLAY
Material 3:	77
Material 3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	2.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	1005935013
Layer:	1
Plug From:	0.0
Plug To:	10.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	1005935012
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Pipe Information

Pipe ID:	1005935002
Casing No:	0
Comment:	

Alt Name:

Construction Record - Casing

Casing ID:	1005935008
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	12.5
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	1005935009
Layer:	1
Slot:	10
Screen Top Depth:	12.5
Screen End Depth:	22.5
Screen Material:	5
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.125

Water Details

Water ID:	1005935007
Layer:	1
Kind Code:	8
Kind:	Untested
Water Found Depth:	18.0
Water Found Depth UOM:	ft

Hole Diameter

Hole ID:	1005935006
Diameter:	6.0
Depth From:	0.0
Depth To:	22.5
Hole Depth UOM:	ft
Hole Diameter UOM:	inch

127	***1 of 1***	***WSW/223.0***	***139.8 / 3.00***	***1989 Applyby Line lot 5 con 2 Burlington ON***	***WWIS***

Well ID:	7415623	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Monitoring and Test Hole	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Monitoring and Test Hole	***Date Received:***	04/14/2022
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	ND23IDH4	***Contractor:***	7739
Tag:	A339264	***Form Version:***	9
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	005
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	

Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/741\7415623.pdf

Additional Detail(s) (Map)

Well Completed Date: 04/05/2022
Year Completed: 2022
Depth (m): 4.6
Latitude: 43.3932770099976
Longitude: -79.789125623439
X: -79.78912547362242
Y: 43.39327700744737
Path: 741\7415623.pdf

Bore Hole Information

Bore Hole ID: 1009001388
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/05/2022
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83: 598065.00
North83: 4805201.00
Org CS: UTM83
UTMRC: 4
UTMRC Desc: margin of error : 30 m - 100 m
Location Method: wwr

Overburden and Bedrock Materials Interval

Formation ID: 1009001539
Layer: 2
Color: 7
General Color: RED
Material 1: 28
Material 1 Desc: SAND
Material 2: 34
Material 2 Desc: TILL
Material 3: 66
Material 3 Desc: DENSE
Formation Top Depth: 2.5
Formation End Depth: 4.599999904632568
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1009001538
Layer: 1
Color: 6
General Color: BROWN

Material 1:	28
Material 1 Desc:	SAND
Material 2:	11
Material 2 Desc:	GRAVEL
Material 3:	01
Material 3 Desc:	FILL
Formation Top Depth:	0.0
Formation End Depth:	2.5
Formation End Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1009001683
Layer:	2
Plug From:	4.300000190734863
Plug To:	7.900000095367432
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1009001655
Layer:	1
Plug From:	
Plug To:	
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	1009001682
Layer:	1
Plug From:	0.0
Plug To:	4.300000190734863
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	1009001480
Method Construction Code:	2
Method Construction:	Rotary (Convent.)
Other Method Construction:	

Method of Construction & Well Use

Method Construction ID:	1009001481
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	1009001443
Casing No:	0
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	1009001581
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	0.0
Depth To:	4.900000095367432
Casing Diameter:	5.099999904632568
Casing Diameter UOM:	cm
Casing Depth UOM:	m

Construction Record - Screen

Screen ID:	1009001608
Layer:	1
Slot:	10
Screen Top Depth:	4.900000095367432
Screen End Depth:	7.900000095367432
Screen Material:	5
Screen Depth UOM:	m
Screen Diameter UOM:	cm
Screen Diameter:	6.099999904632568

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	1009001444
Pump Set At:	
Static Level:	
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	m
Rate UOM:	LPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	

Hole Diameter

Hole ID:	1009001631
Diameter:	20.299999237060547
Depth From:	0.0
Depth To:	3.0
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Hole Diameter

Hole ID:	1009001633
Diameter:	9.600000381469727
Depth From:	4.599999904632568
Depth To:	7.900000095367432
Hole Depth UOM:	m
Hole Diameter UOM:	cm

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Hole Diameter

Hole ID: 1009001632
Diameter: 15.199999809265137
Depth From: 3.0
Depth To: 4.599999904632568
Hole Depth UOM: m
Hole Diameter UOM: cm

128	1 of 1	WSW/224.6	139.8 / 3.00	Halton Standard Condominium 490 2035-2045 Applyby Line Burlington ON L7L 7G8	GEN

Generator No: ON5180890
SIC Code: 814110
SIC Description: Private Households
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

129	1 of 11	WSW/224.7	139.8 / 3.00	R.M. OF HALTON APPLEBY LINE UPPER MIDDLE RD. BURLINGTON CITY ON	CA

Certificate #: 3-1028-86-
Application Year: 86
Issue Date: 7/28/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

129	2 of 11	WSW/224.7	139.8 / 3.00	R.M. OF HALTON - LOTS 5 & 6, CONC. 1 APPLEBY ST./UPPER MIDDLE RD. BURLINGTON CITY ON	CA

Certificate #: 7-0600-92-
Application Year: 92
Issue Date: 8/25/1992
Approval Type: Municipal water
Status: Revised
Application Type:
Client Name:
Client Address:
Client City:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					

129	3 of 11	WSW/224.7	139.8 / 3.00	R.M. OF HALTON APPLEBY LINE UPPER MIDDLE RD. BURLINGTON CITY ON	CA

Certificate #:	7-0827-86-
Application Year:	86
Issue Date:	7/22/1986
Approval Type:	Municipal water
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

129	4 of 11	WSW/224.7	139.8 / 3.00	BURLINGTON CITY APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON ON	CA

Certificate #:	3-0754-98-
Application Year:	98
Issue Date:	6/16/1998
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

129	5 of 11	WSW/224.7	139.8 / 3.00	BURLINGTON CITY APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	CA

Certificate #:	3-0144-97-
Application Year:	97
Issue Date:	3/5/1997
Approval Type:	Municipal sewage
Status:	Approved
Application Type:	
Client Name:	
Client Address:	
Client City:	
Client Postal Code:	
Project Description:	
Contaminants:	
Emission Control:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
129	6 of 11	WSW/224.7	139.8 / 3.00	R.M. OF HALTON UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	CA

Certificate #: 7-0422-96-
Application Year: 96
Issue Date: 6/6/1996
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
129	7 of 11	WSW/224.7	139.8 / 3.00	BURLINGTON CITY APPLEBY LINE/UPPER MIDDLE RD. BURLINGTON CITY ON	CA

Certificate #: 3-0815-96-
Application Year: 96
Issue Date: 7/23/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
129	8 of 11	WSW/224.7	139.8 / 3.00	MATTAMY HOMES LTD. UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	CA

Certificate #: 3-0666-99-
Application Year: 99
Issue Date: 6/24/1999
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
129	9 of 11	WSW/224.7	139.8 / 3.00	MATTAMY HOMES LTD. UPPER MIDDLE RD/APPLEBY LINE BURLINGTON CITY ON	CA

Certificate #: 7-0443-99-
Application Year: 99
Issue Date: 6/24/1999

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

129 | **10 of 11** | **WSW/224.7** | **139.8 / 3.00** | **R.M. OF HALTON**
APPLEBY LINE/UPPER MIDDLE RD.
BURLINGTON CITY ON | **CA**

Certificate #: 7-1038-95-006
Application Year: 95
Issue Date: 11/3/95
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

129 | **11 of 11** | **WSW/224.7** | **139.8 / 3.00** | **Appleby Line & Upper Middle Rd**
Burlington ON | **EHS**

Order No: 20071127017
Status: C
Report Type: CAN - Custom Report
Report Date: 1/28/2008
Date Received: 11/27/2007
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State:
Search Radius (km): 1.5
X: -79.793744
Y: 43.390713

---

130 | **1 of 1** | **N/230.3** | **143.2 / 6.36** | **lot 35 con 1**
ON | **WWIS**

Well ID: 2803728
Construction Date:
Use 1st: Domestic
Use 2nd: 0
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/04/1972
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4602
Form Version: 1
Owner:
County: HALTON
Lot: 035
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:

Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	OAKVILLE TOWN		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2803728.pdf

Additional Detail(s) (Map)

Well Completed Date:	01/24/1972
Year Completed:	1972
Depth (m):	14.9352
Latitude:	43.4091707604293
Longitude:	-79.7748575521292
X:	-79.77485740304655
Y:	43.40917075757539
Path:	280\2803728.pdf

Bore Hole Information

Bore Hole ID:	10150260	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	599194.60
Code OB Desc:		**North83:**	4806983.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	4
Date Completed:	01/24/1972	**UTMRC Desc:**	margin of error : 30 m - 100 m
Remarks:		**Location Method:**	p4

Location Method Desc: Original Pre1985 UTM Rel Code 4: margin of error : 30 m - 100 m
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID:	931433015
Layer:	3
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	8.0
Formation End Depth:	49.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931433013
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	05

Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 4.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931433014
Layer: 2
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 4.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962803728
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10698830
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930255528
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 17.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930255529
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 49.0
Casing Diameter: 6.0

Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992803728
Pump Set At:
Static Level: 10.0
Final Level After Pumping: 41.0
Recommended Pump Depth: 46.0
Pumping Rate: 8.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934176609
Test Type: Draw Down
Test Duration: 15
Test Level: 41.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934970753
Test Type: Draw Down
Test Duration: 60
Test Level: 41.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934710439
Test Type: Draw Down
Test Duration: 45
Test Level: 41.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934451237
Test Type: Draw Down
Test Duration: 30
Test Level: 41.0
Test Level UOM: ft

Water Details

Water ID: 933606253
Layer: 1
Kind Code: 1
Kind: FRESH

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Water Found Depth: 21.0
Water Found Depth UOM: ft

Water Details

Water ID: 933606254
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 42.0
Water Found Depth UOM: ft

---

131 | **1 of 1** | **ESE/233.0** | **129.8 / -7.00** | **Burlington**
Burlington ON L7L 6A8 | **EHS**

Order No: 22050200876
Status: C
Report Type: Standard Report
Report Date: 09-MAY-22
Date Received: 02-MAY-22
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory

Nearest Intersection:
Municipality:
Client Prov/State: CA
Search Radius (km): .25
X: -79.7668622
Y: 43.3971987

---

132 | **1 of 1** | **WSW/233.8** | **139.8 / 3.00** | **LISA LISSON**
2075 APPLEBY LINE,UNIT # 209,BURLINGTON, ON,L7L 7H3,CA
ON | **VAR**

Incident No: 3153594
Status: Variance Approved
Incident Reported Dt: 12/21/2021
Incident Created On: 12/21/2021

Item Instance: NULL
Incident Type: FS-Variance
Aband USTs: Abandon UST

---

133 | **1 of 1** | **ESE/234.4** | **129.8 / -7.00** | **5335 John Lucas Drive**
Burlington ON L7L 6A8 | **EHS**

Order No: 20200622219
Status: C
Report Type: Standard Report
Report Date: 25-JUN-20
Date Received: 22-JUN-20
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory; Aerial Photos

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.7672019
Y: 43.3968781

---

134 | **1 of 1** | **WSW/240.4** | **139.0 / 2.19** | **1963 Appleby Line**
Burlington ON | **EHS**

Order No: 20060920012
Status: C
Report Type: Complete Report
Report Date: 9/28/2006
Date Received: 9/20/2006
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: City Directory

Nearest Intersection: across from Ironstone Drive
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.788742
Y: 43.393055

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
135	1 of 1	W/241.4	140.4 / 3.56	lot 5 con 1 ON	WWIS

Well ID:	2809604	**Flowing (Y/N):**	
Construction Date:		**Flow Rate:**	
Use 1st:		**Data Entry Status:**	
Use 2nd:		**Data Src:**	1
Final Well Status:	Abandoned-Other	**Date Received:**	07/09/2002
Water Type:		**Selected Flag:**	TRUE
Casing Material:		**Abandonment Rec:**	
Audit No:	229645	**Contractor:**	3030
Tag:		**Form Version:**	1
Constructn Method:		**Owner:**	
Elevation (m):		**County:**	HALTON
Elevatn Reliabilty:		**Lot:**	005
Depth to Bedrock:		**Concession:**	01
Well Depth:		**Concession Name:**	DS S
Overburden/Bedrock:		**Easting NAD83:**	
Pump Rate:		**Northing NAD83:**	
Static Water Level:		**Zone:**	
Clear/Cloudy:		**UTM Reliability:**	
Municipality:	BURLINGTON CITY		
Site Info:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2809604.pdf

Additional Detail(s) (Map)

Well Completed Date:	06/10/2002
Year Completed:	2002
Depth (m):	
Latitude:	43.3989228613702
Longitude:	-79.7865891313026
X:	-79.78658898191266
Y:	43.39892285839655
Path:	280\2809604.pdf

Bore Hole Information

Bore Hole ID:	10531777	**Elevation:**	
DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598261.30
Code OB Desc:		**North83:**	4805831.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	06/10/2002	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gis
Location Method Desc:	from gis		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	962809604
Method Construction Code:	0
Method Construction:	Not Known

Other Method Construction:

Pipe Information

Pipe ID: 11080347
Casing No: 1
Comment:
Alt Name:

---

136 ***1 of 1*** ***SE/243.1*** ***130.8 / -6.00*** ***5311 John Lucas Drive Burlington ON*** ***EHS***

Order No: 20141103062
Status: C
Report Type: Standard Report
Report Date: 10-NOV-14
Date Received: 03-NOV-14
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.768958
Y: 43.395205

---

137 ***1 of 1*** ***W/245.4*** ***143.0 / 6.20*** ***lot 4 con 1 ON*** ***WWIS***

Well ID: 2809656
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 240105
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 10/01/2002
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1663
Form Version: 1
Owner:
County: HALTON
Lot: 004
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/280\2809656.pdf

Additional Detail(s) (Map)

Well Completed Date: 07/31/2002
Year Completed: 2002
Depth (m):
Latitude: 43.4002730957864
Longitude: -79.7865498329971
X: -79.78654968410619
Y: 43.40027309386054
Path: 280\2809656.pdf

Bore Hole Information

Bore Hole ID: 10531829
Elevation:

DP2BR:		**Elevrc:**	
Spatial Status:		**Zone:**	17
Code OB:		**East83:**	598262.30
Code OB Desc:		**North83:**	4805981.00
Open Hole:		**Org CS:**	
Cluster Kind:		**UTMRC:**	5
Date Completed:	07/31/2002	**UTMRC Desc:**	margin of error : 100 m - 300 m
Remarks:		**Location Method:**	gis
Location Method Desc:	from gis		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	962809656
Method Construction Code:	A
Method Construction:	Digging
Other Method Construction:	

Pipe Information

Pipe ID:	11080399
Casing No:	1
Comment:	
Alt Name:	

---

138 | ***1 of 1*** | ***SW/249.1*** | ***136.8 / 0.00*** | ***Burlington Hydro***
1822 Imperial Way
Burlington ON | ***SPL***

Ref No:	8624-A89QN8	**Municipality No:**	
Year:		**Nature of Damage:**	
Incident Dt:	2016/03/21	**Discharger Report:**	
Dt MOE Arvl on Scn:		**Material Group:**	
MOE Reported Dt:	2016/03/21	**Impact to Health:**	
Dt Document Closed:	2016/06/04	**Agency Involved:**	
Site No:	NA		
MOE Response:	No		
Site County/District:			
Site Geo Ref Meth:	1-10 metres eg. Good Quality GPS		
Site District Office:			
Nearest Watercourse:			
Site Name:	Pad mount Transformer<UNOFFICIAL>		
Site Address:	1822 Imperial Way		
Site Region:			
Site Municipality:	Burlington		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:	4805191		
Easting:	598332		
Incident Cause:			
Incident Preceding Spill:	Leak/Break		
Environment Impact:			
Health Env Consequence:			
Nature of Impact:			
Contaminant Qty:	1 L		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

System Facility Address:	
Client Name:	Burlington Hydro
Client Type:	
Source Type:	
Contaminant Code:	13
Contaminant Name:	MINERAL OIL
Contaminant Limit 1:	
Contam Limit Freq 1:	
Contaminant UN No 1:	
Receiving Medium:	Land
Incident Reason:	Equipment Failure
Incident Summary:	Burlington hydro: 1 L non pcb mineral oil to concrete pad; cleaning
Activity Preceding Spill:	
Property 2nd Watershed:	
Property Tertiary Watershed:	
Sector Type:	Electric Power Generation
SAC Action Class:	Land Spills
Call Report Locatn Geodata:	

---

139 ***1 of 12*** ***E/255.4*** ***130.1 / -6.78*** ***KONECRANES CANADA INC.***
1320 Heine Crt
Burlington ON L7L 6L9 ***SCT***

Established:	1984
Plant Size (ft²):	0
Employment:	50

--Details--

Description:	Other Plate Work and Fabricated Structural Product Manufacturing
SIC/NAICS Code:	332319
Description:	All Other Industrial Machinery Manufacturing
SIC/NAICS Code:	333299
Description:	Other Engine and Power Transmission Equipment Manufacturing
SIC/NAICS Code:	333619
Description:	Material Handling Equipment Manufacturing
SIC/NAICS Code:	333920
Description:	Switchgear and Switchboard, and Relay and Industrial Control Apparatus Manufacturing
SIC/NAICS Code:	335315
Description:	Aerospace Product and Parts Manufacturing
SIC/NAICS Code:	336410
Description:	All Other General-Purpose Machinery Manufacturing
SIC/NAICS Code:	333990
Description:	Wood Container and Pallet Manufacturing
SIC/NAICS Code:	321920

---

139 ***2 of 12*** ***E/255.4*** ***130.1 / -6.78*** ***Provincial Konecranes Inc.***
1320 Heine Crt
Burlington ON L7L 6L9 ***SCT***

Established:	1992
Plant Size (ft²):	1500
Employment:	15

--Details--

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Description:		Material Handling Equipment Manufacturing			
SIC/NAICS Code:		333920			

139	3 of 12	E/255.4	130.1 / -6.78	**Crane Pro Parts - Div. of Konecranes** **1320 Heine Crt** **Burlington ON L7L 6L9**	SCT

Established:
Plant Size (ft²):
Employment: 50

--Details--
Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

139	4 of 12	E/255.4	130.1 / -6.78	**KONE CRANES** **1320 HEINE COURT** **BURLINGTON ON L7L 6L9**	GEN

Generator No: ON2499200
SIC Code: 3192
SIC Description: CONSTRTUCTION EQUIP.
Approval Years: 99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

139	5 of 12	E/255.4	130.1 / -6.78	**KONECRANES CANADA INC.** **1320 HEINE COURT** **BURLINGTON ON L7L 6L9**	GEN

Generator No: ON2499200
SIC Code:
SIC Description:
Approval Years: 02,03,04
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

139 **6 of 12** **E/255.4** **130.1 / -6.78** **Classic Care Pharmacy**
1320 Heine Court
Burlington ON L7L 6L9
GEN

Generator No: ON4848391
SIC Code: 414510
SIC Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
Approval Years: 04,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

Waste Class: 269
Waste Class Name: NON-HALOGENATED PESTICIDES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

139 **7 of 12** **E/255.4** **130.1 / -6.78** **Classic Care Pharmacy**
1320 Heine Court
Burlington ON L7L 6L9
GEN

Generator No: ON4848391
SIC Code: 414510
SIC Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 312

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: PATHOLOGICAL WASTES

---

139 | **8 of 12** | **E/255.4** | **130.1 / -6.78** | **Classic Care Pharmacy**
1320 Heine Court
Burlington ON L7L 6L9 | **GEN**

Generator No: ON4848391
SIC Code: 414510
SIC Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

139 | **9 of 12** | **E/255.4** | **130.1 / -6.78** | **Classic Care Pharmacy**
1320 Heine Court
Burlington ON L7L 6L9 | **GEN**

Generator No: ON4848391
SIC Code: 414510
SIC Description: Pharmaceuticals and Pharmacy Supplies Wholesaler-Distributors
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

---

139 | **10 of 12** | **E/255.4** | **130.1 / -6.78** | **1320 Heine Crt**
Burlington ON L7L6L9 | **EHS**

Order No: 20161228014
Status: C
Report Type: Standard Report
Report Date: 03-JAN-17
Date Received: 28-DEC-16
Previous Site Name:
Lot/Building Size:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.765082
Y: 43.398474

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Additional Info Ordered:

---

139 | **11 of 12** | **E/255.4** | **130.1 / -6.78** | **UNIVERSAL MATTER INC.**
1320 HEINE CRT
BURLINGTON ON L7L 6L9 | **EASR**

Approval No:	R-010-9115855074	**MOE District:**	Halton-Peel
Status:	REGISTERED	**Municipality:**	BURLINGTON
Date:	February 9, 2024	**Latitude:**	43.39833333
Record Type:	EASR	**Longitude:**	-79.76527778
Link Source:	MOFA	**Geometry X:**	-8879430.1052000001
Project Type:	Air Emissions	**Geometry Y:**	5372800.1230000034
Full Address:			
Approval Type:	EASR-Air Emissions		
SWP Area Name:	Halton		
PDF NAICS Code:	541710		
PDF URL:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=3309978		
PDF Site Location:	1320 HEINE Court BURLINGTON ON L7L 6L9		

---

139 | **12 of 12** | **E/255.4** | **130.1 / -6.78** | **1320 Heine Court**
Burlington ON L7L 6L9 | **EHS**

Order No:	22013100093	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	03-FEB-22	**Search Radius (km):**	.25
Date Received:	31-JAN-22	**X:**	-79.7651334
Previous Site Name:		**Y:**	43.3984072
Lot/Building Size:			
Additional Info Ordered:			

---

140 | **1 of 1** | **WSW/257.5** | **138.8 / 2.00** | **1940 Ironstone Dr**
Burlington ON L7L0E4 | **EHS**

Order No:	20140425027	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	30-APR-14	**Search Radius (km):**	.25
Date Received:	25-APR-14	**X:**	-79.788297
Previous Site Name:	Property previous vacant land until date unknown	**Y:**	43.392879
Lot/Building Size:			
Additional Info Ordered:			

---

141 | **1 of 31** | **SE/258.1** | **129.8 / -7.00** | **Natrix Separations Inc.**
5295 John Lucas Drive Burlington Regional Municipality of Halton L7L 6A8 CITY OF BURLINGTON
ON | **EBR**

EBR Registry No:	010-4548	**Decision Posted:**	
Ministry Ref No:	8293-7HXNWY	**Exception Posted:**	
Notice Type:	Instrument Decision	**Section:**	
Notice Stage:		**Act 1:**	
Notice Date:	September 08, 2009	**Act 2:**	
Proposal Date:	September 03, 2008	**Site Location Map:**	
Year:	2008		
Instrument Type:	(EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)		
Off Instrument Name:			

Posted By:
Company Name: Natrix Separations Inc.
Site Address:
Location Other:
Proponent Name:
Proponent Address: 5295 John Lucas Drive , Unit 6, Burlington Ontario, Canada L7L 6A8
Comment Period:
URL:

Site Location Details:

5295 John Lucas Drive Burlington Regional Municipality of Halton L7L 6A8 CITY OF BURLINGTON

---

141 | ***2 of 31*** | ***SE/258.1*** | ***129.8 / -7.00*** | ***Nysa Membrane Technologies***
5295 John Lucas dr Unit 6
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON4491252
SIC Code: 541710
SIC Description: Research and Development in the Physical Engineering and Life Sciences
Approval Years: 07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

---

141 | ***3 of 31*** | ***SE/258.1*** | ***129.8 / -7.00*** | ***Natrix Separations Inc.***
5295 John Lucas Dr
Burlington ON L7L 6A8 | ***CA***

Certificate #: 9070-7UPPAG
Application Year: 2009
Issue Date: 8/30/2009
Approval Type: Air
Status: Approved
Application Type:
Client Name:

Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

141 | ***4 of 31*** | ***SE/258.1*** | ***129.8 / -7.00*** | ***Natrix Separations Inc.***
5295 John Lucas Dr Unit 6
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON4491252
SIC Code: 313320
SIC Description: Fabric Coating
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

---

141 | ***5 of 31*** | ***SE/258.1*** | ***129.8 / -7.00*** | ***Natrix Separations Inc.***
5295 John Lucas Dr Unit 6
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON4491252
SIC Code: 313320
SIC Description: Fabric Coating
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

---

141 | **6 of 31** | **SE/258.1** | **129.8 / -7.00** | **Natrix Separations Inc.**
5295 John Lucas Dr Unit 6
Burlington ON L7L 6A8 | **GEN**

Generator No: ON4491252
SIC Code: 313320
SIC Description: Fabric Coating
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	7 of 31	SE/258.1	129.8 / -7.00	Natrix Separations Inc. 5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	GEN

Generator No: ON4491252
SIC Code: 313320
SIC Description: Fabric Coating
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	8 of 31	SE/258.1	129.8 / -7.00	MOHAWK MEDBUY CORPORATION 5295 JOHN LUCAS DR BURLINGTON ON L7L 6A8	EASR

Approval No: R-002-3429798530
Status: REGISTERED
Date: 2014-07-09
Record Type: EASR
Link Source: MOFA
Project Type: Standby Power System
Full Address:
Approval Type: EASR-Standby Power System
SWP Area Name:
PDF NAICS Code:
PDF URL:
PDF Site Location:
MOE District:
Municipality: BURLINGTON
Latitude: 43.39277778
Longitude: 79.77083333
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	9 of 31	SE/258.1	129.8 / -7.00	5295 John Lucas Dr Burlington ON L7L6A8	EHS

Order No: 20131119033
Status: C
Report Type: Standard Report
Nearest Intersection:
Municipality:
Client Prov/State: ON

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Report Date:	28-NOV-13	**Search Radius (km):**	.25
Date Received:	19-NOV-13	**X:**	-79.770527
Previous Site Name:		**Y:**	43.393386
Lot/Building Size:			
Additional Info Ordered:			

---

141 ***10 of 31*** ***SE/258.1*** ***129.8 / -7.00*** ***Natrix Separations Inc.***
5295 John Lucas Dr Unit 6
Burlington ON ***GEN***

Generator No:	ON4491252
SIC Code:	313320
SIC Description:	FABRIC COATING
Approval Years:	2013
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	146
Waste Class Name:	OTHER SPECIFIED INORGANICS
Waste Class:	131
Waste Class Name:	NEUTRALIZED WASTES - HEAVY METALS
Waste Class:	312
Waste Class Name:	PATHOLOGICAL WASTES
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	267
Waste Class Name:	ORGANIC ACIDS
Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	241
Waste Class Name:	HALOGENATED SOLVENTS

---

141 ***11 of 31*** ***SE/258.1*** ***129.8 / -7.00*** ***5295 John Lucas Dr Burlington On***
Burlington ON L7L6A8 ***EHS***

Order No:	20150603106	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	AB
Report Date:	10-JUN-15	**Search Radius (km):**	.25
Date Received:	03-JUN-15	**X:**	-79.770815
Previous Site Name:		**Y:**	43.393354
Lot/Building Size:			
Additional Info Ordered:	City Directory; Aerial Photos		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	12 of 31	SE/258.1	129.8 / -7.00	**Natrix Separations Inc.** **5295 John Lucas Dr** **Burlington ON L7L 6A8**	ECA

Approval No: 9070-7UPPAG
Approval Date: 2009-08-30
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
MOE District: Halton-Peel
City:
Longitude: -79.773094
Latitude: 43.39331
Geometry X:
Geometry Y:
Approval Type: ECA-AIR
Project Type: AIR
Business Name: Natrix Separations Inc.
Address: 5295 John Lucas Dr
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8293-7HXNWY-14.pdf
PDF Site Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	13 of 31	SE/258.1	129.8 / -7.00	**WILLARD MANUFACTURING INC.** **5295 JOHN LUCAS DRIVE** **BURLINGTON ON L7L 6A8**	GEN

Generator No: ON4055159
SIC Code: 325610
SIC Description: SOAP AND CLEANING COMPOUND MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 262
Waste Class Name: DETERGENTS/SOAPS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	14 of 31	SE/258.1	129.8 / -7.00	**Natrix Separations Inc.** **5295 John Lucas Dr Unit 6** **Burlington ON L7L 6A8**	GEN

Generator No: ON4491252
SIC Code: 313320
SIC Description: FABRIC COATING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Bradley Kachuik
Choice of Contact: CO_ADMIN
Phone No Admin: 905-319-2682 Ext.104
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

---

141 | **15 of 31** | **SE/258.1** | **129.8 / -7.00** | **Natrix Separations Inc.**
5295 John Lucas Dr Unit 6
Burlington ON L7L 6A8 | **GEN**

Generator No: ON4491252
SIC Code: 313320
SIC Description: FABRIC COATING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Bradley Kachuik
Choice of Contact: CO_ADMIN
Phone No Admin: 905-319-2682 Ext.104
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

---

141 | **16 of 31** | **SE/258.1** | **129.8 / -7.00** | **Natrix Separations Inc.**
5295 John Lucas Dr Unit 6
Burlington ON L7L 6A8 | **GEN**

Generator No: ON4491252
SIC Code: 313320
SIC Description: FABRIC COATING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Bradley Kachuik
Choice of Contact: CO_ADMIN
Phone No Admin: 905-319-2682 Ext.104
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 131
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 267
Waste Class Name: ORGANIC ACIDS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 268
Waste Class Name: AMINES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	17 of 31	SE/258.1	129.8 / -7.00	Natrix Separations Inc. 5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	GEN

Generator No: ON4491252
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 131 L
Waste Class Name: Neutralized solutions - containing heavy metals

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 241 B
Waste Class Name: Halogenated solvents and residues

Waste Class: 241 L
Waste Class Name: Halogenated solvents and residues

Waste Class: 261 B
Waste Class Name: Pharmaceuticals

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Waste Class: 268 C
Waste Class Name: Amines

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 267 C

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class Name: Organic acids

---

141 **18 of 31** **SE/258.1** **129.8 / -7.00** **Melrose investments Inc.**
5295 John Lucas drive
Burlington ON L7L 6AB **GEN**

Generator No: ON8066890
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

141 **19 of 31** **SE/258.1** **129.8 / -7.00** **WILLARD MANUFACTURING INC.**
5295 JOHN LUCAS DRIVE
BURLINGTON ON L7L 6A8 **GEN**

Generator No: ON4055159
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 262 L
Waste Class Name: Detergents and soaps

---

141 **20 of 31** **SE/258.1** **129.8 / -7.00** **NATRIX SEPARATIONS INC.**
5295 John Lucas DR
Burlington ON L7L 6A8 **EASR**

Approval No: R-010-7110473513
Status: REGISTERED
Date: 2018-05-28
Record Type: EASR
Link Source: MOFA
Project Type: Air Emissions
Full Address:
Approval Type: EASR-Air Emissions
SWP Area Name: Halton
PDF NAICS Code: 541710
PDF URL:
PDF Site Location:

MOE District: Halton-Peel
Municipality: Burlington
Latitude: 43.39333333
Longitude: -79.77083333
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	21 of 31	SE/258.1	129.8 / -7.00	Mohawk Medbuy Corporation Logistics 5295 John Lucas Drive, Unit 5 Burlington ON L7L 6A8	GEN

Generator No: ON4125909
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 113 C
Waste Class Name: Acid solutions - containing other metals and non-metals

Waste Class: 261 L
Waste Class Name: Pharmaceuticals

Waste Class: 262 L
Waste Class Name: Detergents and soaps

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	22 of 31	SE/258.1	129.8 / -7.00	Natrix Separations Inc. 5295 John Lucas Dr Unit 6 Burlington ON L7L 6A8	GEN

Generator No: ON4491252
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 267 C
Waste Class Name: Organic acids

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 131 L
Waste Class Name: Neutralized solutions - containing heavy metals

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 268 C
Waste Class Name: Amines

Waste Class: 241 B
Waste Class Name: Halogenated solvents and residues

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 241 L
Waste Class Name: Halogenated solvents and residues

Waste Class: 261 B
Waste Class Name: Pharmaceuticals

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

141	23 of 31	SE/258.1	129.8 / -7.00	**Melrose investments Inc.** **5295 John Lucas drive** **Burlington ON L7L 6AB**	GEN

Generator No: ON8066890
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

141	24 of 31	SE/258.1	129.8 / -7.00	**RAMPF Composite Solutions Inc.** **5295 John Lucas Drive Unit 5** **Burlington ON L7L 6A8**	GEN

Generator No: ON8023971
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 232 L
Waste Class Name: Polymeric resins

Waste Class: 131 L
Waste Class Name: Neutralized solutions - containing heavy metals

Waste Class: 112 C
Waste Class Name: Acid solutions - containing heavy metals

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 211 H
Waste Class Name: Aromatic solvents and residues

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
141	25 of 31	SE/258.1	129.8 / -7.00	**Natrix Separations Inc.** **5295 John Lucas Dr Unit 6** **Burlington ON L7L 6A8**	GEN

Generator No: ON4491252
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 148 T
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 131 L
Waste Class Name: Neutralized solutions - containing heavy metals

Waste Class: 267 C
Waste Class Name: Organic acids

Waste Class: 268 C
Waste Class Name: Amines

Waste Class: 261 B
Waste Class Name: Pharmaceuticals

Waste Class: 148 C
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 212 L
Waste Class Name: Aliphatic solvents and residues

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 241 L
Waste Class Name: Halogenated solvents and residues

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 241 B
Waste Class Name: Halogenated solvents and residues

Waste Class: 263 I
Waste Class Name: Misc. waste organic chemicals

Waste Class: 148 I
Waste Class Name: Misc. wastes and inorganic chemicals

Waste Class: 263 L
Waste Class Name: Misc. waste organic chemicals

141	26 of 31	SE/258.1	129.8 / -7.00	**RAMPF Composite Solutions Inc.** **5295 John Lucas Drive Burlington , ON Canada** **ON**	EBR

EBR Registry No: 019-3264
Ministry Ref No: 9831-BV4R69
Notice Type: Instrument
Notice Stage: Decision
Notice Date:
Proposal Date: March 5, 2021
Year: 2021
Decision Posted: February 17, 2022
Exception Posted:
Section: Part II.1 (20.3 or 20.5)
Act 1: Environmental Protection Act, R.S.O. 1990
Act 2: Environmental Protection Act
Site Location Map: 43.39333,-79.77088
Instrument Type: Environmental Compliance Approval (air)
Off Instrument Name: Environmental Compliance Approval (air) (EPA s.9)
Posted By: Ministry of the Environment, Conservation and Parks
Company Name:
Site Address: 5295 John Lucas Drive Burlington , ON Canada
Location Other:
Proponent Name: RAMPF Composite Solutions Inc.
Proponent Address: RAMPF Composite Solutions Inc. 5295 John Lucas Drive Units 3-5 Burlington, ON L7L 6A8 Canada
Comment Period: March 5, 2021 - April 19, 2021 (45 days) Closed
URL: https://ero.ontario.ca/notice/019-3264

Site Location Details:

141	27 of 31	SE/258.1	129.8 / -7.00	**Elite Pack Inc** **5295 John Lucas Drive Unit 1** **Burlington ON L7L 6A8**	GEN

Generator No: ON5325957
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212 I
Waste Class Name: Aliphatic solvents and residues

Waste Class: 213 L
Waste Class Name: Petroleum distillates

---

141 | ***28 of 31*** | ***SE/258.1*** | ***129.8 / -7.00*** | ***RAMPF Composite Solutions Inc.***
5295 John Lucas Dr
Burlington ON L7L 6A8 | ***ECA***

Approval No: 3289-C7ANHK
Approval Date: February 15, 2022
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
MOE District: Halton-Peel
City:
Longitude: -79.773094
Latitude: 43.39331
Geometry X: -8880300.2030999996
Geometry Y: 5372030.5442999965
Approval Type: ECA-AIR
Project Type: AIR
Business Name: RAMPF Composite Solutions Inc.
Address: 5295 John Lucas Dr
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9831-BV4R69-14.pdf
PDF Site Location: 5295 John Lucas Drive
Burlington City, Regional Municipality of Halton
L7L 6A8

---

141 | ***29 of 31*** | ***SE/258.1*** | ***129.8 / -7.00*** | ***RAMPF Composite Solutions Inc.***
5295 John Lucas Drive Unit 5
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON8023971
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 232 L
Waste Class Name: POLYMERIC RESINS

Waste Class: 112 C
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 131 L
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 211 H
Waste Class Name: AROMATIC SOLVENTS

---

141 | **30 of 31** | **SE/258.1** | **129.8 / -7.00** | **Natrix Separations Inc.**
5295 John Lucas Dr Unit 6
Burlington ON L7L 6A8 | **GEN**

Generator No: ON4491252
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 148 I
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 T
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 148 C
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 241 L
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 263 I
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 241 B
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 268 C
Waste Class Name: AMINES

Waste Class: 131 L
Waste Class Name: NEUTRALIZED WASTES - HEAVY METALS

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212 L
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 267 C
Waste Class Name: ORGANIC ACIDS

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 146 L
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 212 I
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 261 B
Waste Class Name: PHARMACEUTICALS

Waste Class: 263 L
Waste Class Name: ORGANIC LABORATORY CHEMICALS

---

141 | **31 of 31** | **SE/258.1** | **129.8 / -7.00** | **Rootree Inc.**
5295 John Lucas Drive Unit 1
Burlington ON L7L 6A8 | **GEN**

Generator No: ON5325957
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 L
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 212 I
Waste Class Name: ALIPHATIC SOLVENTS

---

142 | **1 of 1** | **SW/259.2** | **133.8 / -3.01** | **1769 HOBSON DRIVE**
BURLINGTON ON L7L 7C9 | **HINC**

External File Num: FS INC 0709-05331
Fuel Occurrence Type: Pipeline Strike
Date of Occurrence: 8/24/2007
Fuel Type Involved: Natural Gas
Status Desc: Completed - Causal Analysis(End)
Job Type Desc: Incident/Near-Miss Occurrence (FS)
Oper. Type Involved: Private Dwelling
Service Interruptions: Yes
Property Damage: No
Fuel Life Cycle Stage: Utilization
Root Cause: Root Cause: Equipment/Material/Component:No Procedures:Yes Maintenance:No Design:No Training: Yes Management:Yes Human Factors:Yes
Reported Details:
Fuel Category: Gaseous Fuel
Occurrence Type: Incident
Affiliation: Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)
County Name: Halton
Approx. Quant. Rel:
Nearby body of water:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Enter Drainage Syst.:
Approx. Quant. Unit:
Environmental Impact:

---

143 **1 of 1** **E/259.9** **130.8 / -6.01** **1315 Heine Court**
Burlington ON L7L 6A7 **EHS**

Order No: 22122000275
Status: C
Report Type: Standard Report
Report Date: 23-DEC-22
Date Received: 20-DEC-22
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans; City Directory

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.7646078
Y: 43.3988073

---

144 **1 of 17** **SSE/265.9** **127.9 / -8.95** **BLAST CLEANING PROCUCTS LTD.**
5284 JOHN LUCAS DRIVE
BURLINGTON CITY ON L7L 5Z9 **CA**

Certificate #: 8-3044-96-
Application Year: 96
Issue Date: 4/1/1996
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: PAINT SPRAY BOOTH FOR FAB./ASSY. FAC.
Contaminants:
Emission Control:

---

144 **2 of 17** **SSE/265.9** **127.9 / -8.95** **Blast Cleaning Products Limited**
5284 John Lucas Drive CITY OF BURLINGTON
ON **EBR**

EBR Registry No: IA6E0211
Ministry Ref No: 8304496
Notice Type: Instrument Decision
Notice Stage:
Notice Date: August 02, 2001
Proposal Date: February 14, 1996
Year: 1996
Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air)
Off Instrument Name:
Posted By:
Company Name: Blast Cleaning Products Limited
Site Address:
Location Other:
Proponent Name:
Proponent Address: c/o. D'Orsay Design Build Inc., 47 Winston Grove, Etobicoke Ontario, M8Y 2L1
Comment Period:
URL:

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

5284 John Lucas Drive CITY OF BURLINGTON

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
144	3 of 17	SSE/265.9	127.9 / -8.95	US FILTERS/BLAST CLEANING PRODUCTS 5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON1655601
SIC Code: 3199
SIC Description: OTHER MACHINERY
Approval Years: 98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
144	4 of 17	SSE/265.9	127.9 / -8.95	BLAST CLEANING PRODUCTS 5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON1655601
SIC Code: 3199
SIC Description: OTHER MACHINERY
Approval Years: 99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
144	5 of 17	SSE/265.9	127.9 / -8.95	5284 John Lucas Dr Burlington ON L7L 5Z9	EHS

Order No: 20041026015
Status: C
Report Type: Custom Report
Report Date: 10/26/04
Date Received: 10/26/04
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.5
X: -79.771843
Y: 43.392517

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
144	6 of 17	SSE/265.9	127.9 / -8.95	ABS PRODUCTION INC 5284 JOHN LUCAS DRIVE	GEN

BURLINGTON ON L7L 5Z9

Generator No: ON5517124
SIC Code: 333519
SIC Description: Other Metalworking Machinery Manufacturing
Approval Years: 06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

144 | **7 of 17** | **SSE/265.9** | **127.9 / -8.95** | **ABS PRODUCTION INC**
5284 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | **GEN**

Generator No: ON5517124
SIC Code: 333519
SIC Description: Other Metalworking Machinery Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

144 | **8 of 17** | **SSE/265.9** | **127.9 / -8.95** | **ABS PRODUCTION INC**
5284 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | **GEN**

Generator No: ON5517124

SIC Code: 333519
SIC Description: Other Metalworking Machinery Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

144	9 of 17	SSE/265.9	127.9 / -8.95	ABS PRODUCTION INC 5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON5517124
SIC Code: 333519
SIC Description: Other Metalworking Machinery Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

144	10 of 17	SSE/265.9	127.9 / -8.95	ABS PRODUCTION INC 5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON5517124
SIC Code: 333519

SIC Description: Other Metalworking Machinery Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

144 **11 of 17** **SSE/265.9** **127.9 / -8.95** **ABS PRODUCTION INC**
5284 JOHN LUCAS DRIVE
BURLINGTON ON **GEN**

Generator No: ON5517124
SIC Code: 333519
SIC Description: OTHER METALWORKING MACHINERY MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

144 **12 of 17** **SSE/265.9** **127.9 / -8.95** **ABS PRODUCTION INC**
5284 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 **GEN**

Generator No: ON5517124
SIC Code: 333519
SIC Description: OTHER METALWORKING MACHINERY MANUFACTURING

Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

144 | ***13 of 17*** | ***SSE/265.9*** | ***127.9 / -8.95*** | ***ABS PRODUCTION INC***
5284 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | ***GEN***

Generator No: ON5517124
SIC Code: 333519
SIC Description: OTHER METALWORKING MACHINERY MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

144 | ***14 of 17*** | ***SSE/265.9*** | ***127.9 / -8.95*** | ***ABS PRODUCTION INC***
5284 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | ***GEN***

Generator No: ON5517124
SIC Code: 333519
SIC Description: OTHER METALWORKING MACHINERY MANUFACTURING
Approval Years: 2014

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

144	15 of 17	SSE/265.9	127.9 / -8.95	ABS PRODUCTION INC 5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON5517124
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 253 T
Waste Class Name: Emulsified oils

144	16 of 17	SSE/265.9	127.9 / -8.95	ABS PRODUCTION INC 5284 JOHN LUCAS DRIVE BURLINGTON ON L7L 5Z9	GEN

Generator No: ON5517124
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 253 T
Waste Class Name: Emulsified oils

---

144 | ***17 of 17*** | ***SSE/265.9*** | ***127.9 / -8.95*** | ***ABS PRODUCTION INC***
5284 JOHN LUCAS DRIVE
BURLINGTON ON L7L 5Z9 | ***GEN***

Generator No: ON5517124
SIC Code:
SIC Description:
Approval Years: As of Jan 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 253 T
Waste Class Name: Emulsified oils

---

145 | ***1 of 1*** | ***SSE/265.9*** | ***127.9 / -8.95*** | ***5284 John Lucas Drive***
Burlington ON L7L 5Z9 | ***EHS***

Order No: 20190208019
Status: C
Report Type: Standard Report
Report Date: 13-FEB-19
Date Received: 08-FEB-19
Previous Site Name:
Lot/Building Size:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.772091
Y: 43.392118

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Additional Info Ordered:					

146 **1 of 6** **E/265.9** **130.9 / -5.97** **CARTER HOLT HARVEY ROOFING INC** **SCT**
1200 BURLOAK DR UNIT 3
BURLINGTON ON L7L 6B4

Established: 0000
Plant Size (ft²): 100000
Employment: 6

--Details--
Description: SHEET METAL WORK
SIC/NAICS Code: 3444

---

146 **2 of 6** **E/265.9** **130.9 / -5.97** **SUMMO STEEL TUBING** **GEN**
1200 BURLOAK DRIVE
BURLINGTON ON L7L 6B3

Generator No: ON2203100
SIC Code: 4223
SIC Description: STEEL REINFORCING
Approval Years: 00,01,02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 270
Waste Class Name: OTHER SPECIFIED ORGANICS

---

146 **3 of 6** **E/265.9** **130.9 / -5.97** **Summo Steel Corp.** **SCT**
1200 Burloak Dr
Burlington ON L7L 6B4

Established: 01-JUN-80
Plant Size (ft²):
Employment:

--Details--
Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Motor Vehicle Metal Stamping
SIC/NAICS Code: 336370

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Description: Other Motor Vehicle Parts Manufacturing
SIC/NAICS Code: 336390

---

146 *4 of 6* *E/265.9* *130.9 / -5.97* **SUMMO STEEL TUBING**
1200 BURLOAK DRIVE
BURLINGTON ON L7L 6B4 **GEN**

Generator No: ON2203100
SIC Code: 441310
SIC Description: Automotive Parts and Accessories Stores
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

146 *5 of 6* *E/265.9* *130.9 / -5.97* **1200 Burloak Dr**
Burlington ON L7L6B4 **EHS**

Order No: 20150306062
Status: C
Report Type: Custom Report
Report Date: 12-MAR-15
Date Received: 06-MAR-15
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.76342
Y: 43.399584

---

146 *6 of 6* *E/265.9* *130.9 / -5.97* **1200 Burloak Dr**
Burlington ON L7L6B4 **EHS**

Order No: 20160907145
Status: C
Report Type: Standard Report
Report Date: 13-SEP-16
Date Received: 07-SEP-16
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.763841
Y: 43.399376

---

147 *1 of 3* *ESE/267.2* *129.8 / -7.00* **5335 John Lucas Dr**
Burlington ON L7L6A8 **EHS**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Order No:	20150504085	**Nearest Intersection:**	
Status:	C	**Municipality:**	Halton
Report Type:	RSC Report (Urban)	**Client Prov/State:**	ON
Report Date:	11-MAY-15	**Search Radius (km):**	.3
Date Received:	04-MAY-15	**X:**	-79.767151
Previous Site Name:		**Y:**	43.396931
Lot/Building Size:			
Additional Info Ordered:			

---

147 **2 of 3** **ESE/267.2** **129.8 / -7.00** **Yale Industrial Trucks Yale Industrial Trucks**
5335 John Lucas Drive Unit #5
Burlington ON L7L 6A8 **GEN**

Generator No:	ON0192102
SIC Code:	
SIC Description:	
Approval Years:	As of Nov 2021
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	212 L
Waste Class Name:	Aliphatic solvents and residues
Waste Class:	213 I
Waste Class Name:	Petroleum distillates
Waste Class:	251 L
Waste Class Name:	Waste oils/sludges (petroleum based)
Waste Class:	252 L
Waste Class Name:	Waste crankcase oils and lubricants

---

147 **3 of 3** **ESE/267.2** **129.8 / -7.00** **Yale Industrial Trucks Yale Industrial Trucks**
5335 John Lucas Drive Unit #5
Burlington ON L7L 6A8 **GEN**

Generator No:	ON0192102
SIC Code:	
SIC Description:	
Approval Years:	As of Oct 2022
PO Box No:	
Country:	Canada
Status:	Registered
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	212 L
Waste Class Name:	ALIPHATIC SOLVENTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

---

148 *1 of 2* *ESE/270.8* *129.8 / -7.00* ***MORTIMER'S FINE FOODS***
5341 JOHN LUCAS DR
BURLINGTON ON L7L 6A8 ***SCT***

Established: 1982
Plant Size (ft²): 16000
Employment: 45

--Details--
Description: FOOD PREPARATIONS, NOT ELSEWHERE CLASSIFIED
SIC/NAICS Code: 2099

Description: Rendering and Meat Processing from Carcasses
SIC/NAICS Code: 311614

---

148 *2 of 2* *ESE/270.8* *129.8 / -7.00* ***Mortimer's Fine Foods Inc.***
5341 John Lucas Dr
Burlington ON L7L 6A8 ***SCT***

Established: 01-AUG-82
Plant Size (ft²): 16000
Employment:

--Details--
Description: Rendering and Meat Processing from Carcasses
SIC/NAICS Code: 311614

---

149 *1 of 1* *ESE/276.4* *129.8 / -7.00* ***Häfele Canada Inc.***
5323 John Lucas Dr
Burlington ON L7L 6A8 ***SCT***

Established: 01-SEP-83
Plant Size (ft²): 45000
Employment:

--Details--
Description: Hardware Wholesaler-Distributors
SIC/NAICS Code: 416330

Description: Hardware Wholesaler-Distributors
SIC/NAICS Code: 416330

---

150 *1 of 3* *ESE/276.7* *129.5 / -7.30* ***FOSTER TECHNOLOGIES INC.***
5347 JOHN LUCAS DR
BURLINGTON ON L7L 6A8 ***SCT***

Established: 1987
Plant Size (ft²): 0

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Employment:		5			
--Details--					
Description:		Semiconductor and Other Electronic Component Manufacturing			
SIC/NAICS Code:		334410			
150	***2 of 3***	***ESE/276.7***	***129.5 / -7.30***	***Safetran Canada Inc.*** ***5347 John Lucas Dr*** ***Burlington ON L7L 6A8***	***SCT***
Established:					
Plant Size (ft²):					
Employment:					
--Details--					
Description:		All Other Industrial Machinery Manufacturing			
SIC/NAICS Code:		333299			
150	***3 of 3***	***ESE/276.7***	***129.5 / -7.30***	***Gemalto Canada Inc.*** ***5347 John Lucas Dr*** ***Burlington ON L7L 6A8***	***SCT***
Established:					
Plant Size (ft²):					
Employment:					
--Details--					
Description:		Computer Systems Design and Related Services			
SIC/NAICS Code:		541510			
Description:		Software Publishers			
SIC/NAICS Code:		511210			
Description:		Computer Systems Design and Related Services			
SIC/NAICS Code:		541510			
151	***1 of 16***	***WSW/277.0***	***139.8 / 3.00***	***MONARCH CONSTRUCTION LTD.*** ***2000 APPLEBY LINE, A&P STORE*** ***BURLINGTON ON L7L 7H7***	***CA***
Certificate #:		8-3052-98-			
Application Year:		98			
Issue Date:		2/23/1998			
Approval Type:		Industrial air			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:		COMMERCIAL KITCHEN EXHAUST EQUIPMENT			
Contaminants:		Odour/Fumes			
Emission Control:		Panel Filter			
151	***2 of 16***	***WSW/277.0***	***139.8 / 3.00***	***ZELLERS INC.*** ***2000 APPLEBY LINE***	***CA***

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				BURLINGTON ON L7L 7H7	

Certificate #: 8-3209-98-
Application Year: 98
Issue Date: 5/20/1998
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: COMMERCIAL KITCHEN EXHAUST EQUIPMENT
Contaminants:
Emission Control:

151	3 of 16	WSW/277.0	139.8 / 3.00	ZELLERS STORE #487 - MILLCROFT CENTRE 2000 APPLEBY LINE BURLINGTON ON L7L 7H7	PES

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Limited Vendor
Licence Type Code: 23
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

151	4 of 16	WSW/277.0	139.8 / 3.00	ZELLERS STORE #487 - MILLCROFT CENTRE 2000 APPLEBY LINE BURLINGTON ON L7L 7H7	PES

Detail Licence No:
Licence No:
Status:
Approval Date:
Report Source:
Licence Type: Vendor
Licence Type Code:
Licence Class:
Licence Control:
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No:
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
151	5 of 16	WSW/277.0	139.8 / 3.00	RRG LANDSCAPING INC. 191 - 2000 APPLEBY LINE BURLINGTON ON L7L 7H7	PES

Detail Licence No:		**Operator Box:**	
Licence No:		**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:		**Oper Area Code:**	
Licence Type:	Operator	**Oper Phone No:**	
Licence Type Code:		**Operator Ext:**	
Licence Class:		**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
151	6 of 16	WSW/277.0	139.8 / 3.00	2000 Appleby Line, Unit J, Burlington ON	PINC

Incident Id:	2705288	**Pipe Material:**	
Incident No:	548802	**Fuel Category:**	Natural Gas
Incident Reported Dt:		**Health Impact:**	No
Type:	FS-Pipeline Incident	**Environment Impact:**	No
Status Code:	Pipeline Damage Reason Est	**Property Damage:**	Yes
Tank Status:	RC Established	**Service Interrupt:**	Yes
Task No:	3265443	**Enforce Policy:**	Yes
Spills Action Centre:		**Public Relation:**	No
Fuel Type:	Natural Gas	**Pipeline System:**	
Fuel Occurrence Tp:	Vapour Release	**PSIG:**	
Date of Occurrence:	2/15/2011 0:00	**Attribute Category:**	FS-Perform P-line Inc Invest
Occurrence Start Dt:	2011/03/23	**Regulator Location:**	
Depth:		**Method Details:**	E-mail
Customer Acct Name:			
Incident Address:			
Operation Type:	Industrial / Manufacturing Facility		
Pipeline Type:			
Regulator Type:			
Summary:	2000 Appleby Line, Unit J, Burlington - Vapour Release		
Reported By:	Lawrence, Louise - Union Gas		
Affiliation:	Industry Stakeholder (Licensee/Registration/Certificate Holder, Facility Owner, etc.)		
Occurrence Desc:			
Damage Reason:	Excavation practices not sufficient		
Notes:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
151	7 of 16	WSW/277.0	139.8 / 3.00	2000 Appleby Line Burlington ON L7L 7H7	EHS

Order No:	20120214022	**Nearest Intersection:**	
Status:	C	**Municipality:**	
Report Type:	Standard Report	**Client Prov/State:**	ON
Report Date:	2/23/2012 9:50:11 AM	**Search Radius (km):**	0.25
Date Received:	2/14/2012 9:47:42 AM	**X:**	-79.793759
Previous Site Name:		**Y:**	43.394135

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps and/or Site Plans;

---

151 **8 of 16** **WSW/277.0** **139.8 / 3.00** **TARGET CANADA CO.** **EASR**
2000 APPLEBY LINE
BURLINGTON ON L7L 7H7

Approval No:	R-003-1239435285	**MOE District:**	Halton-Peel
Status:	REGISTERED	**Municipality:**	BURLINGTON
Date:	2012-10-25	**Latitude:**	43.39368
Record Type:	EASR	**Longitude:**	-79.791725
Link Source:	MOFA	**Geometry X:**	
Project Type:	Heating System	**Geometry Y:**	
Full Address:			
Approval Type:	EASR-Heating System		
SWP Area Name:	Halton		
PDF NAICS Code:			
PDF URL:			
PDF Site Location:			

---

151 **9 of 16** **WSW/277.0** **139.8 / 3.00** **TARGET CANADA CO.** **EASR**
2000 APPLEBY LINE
BURLINGTON ON L7L 7H7

Approval No:	R-002-4252235367	**MOE District:**	Halton-Peel
Status:	REGISTERED	**Municipality:**	BURLINGTON
Date:	2012-10-26	**Latitude:**	43.39368
Record Type:	EASR	**Longitude:**	-79.791725
Link Source:	MOFA	**Geometry X:**	
Project Type:	Standby Power System	**Geometry Y:**	
Full Address:			
Approval Type:	EASR-Standby Power System		
SWP Area Name:	Halton		
PDF NAICS Code:			
PDF URL:			
PDF Site Location:			

---

151 **10 of 16** **WSW/277.0** **139.8 / 3.00** **TARGET CANADA CO. STORE# T3761** **PES**
2000 APPLEBY LINE
BURLINGTON ON L7L7H7

Detail Licence No:		**Operator Box:**	
Licence No:	16319	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	905
Licence Type:	Limited Vendor	**Oper Phone No:**	3364180
Licence Type Code:	23	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
151	11 of 16	WSW/277.0	139.8 / 3.00	ZELLERS 2000 APPLEBY Line BURLINGTON ON L7L6M5	NPRI

NPRI ID:	8800000415	**Org ID:**	
Other ID:		**Submit Date:**	
No Other ID:		**Last Modified:**	
Track ID:		**Contact ID:**	
Report ID:		**Cont Type:**	MED
Report Type:		**Contact Title:**	Mr.
Rpt Type ID:		**Cont First Name:**	FRED
Report Year:	2004	**Cont Last Name:**	WARE
Not-Current Rpt?:		**Contact Position:**	SENIOR MANAGER ENERGY ENVIRONMENT SOURCING INITIATIVES
Yr of Last Filed Rpt:		**Contact Fax:**	
Fac ID:		**Contact Ph.:**	
Fac Name:	ZELLERS STORE, #487 MILLCROFT CENTRE	**Cont Area Code:**	416
Fac Address1:		**Contact Tel.:**	8614938
Fac Address2:		**Contact Ext.:**	
Fac Postal Zip:		**Cont Fax Area Cde:**	
Facility Lat:		**Contact Fax:**	
Facility Long:		**Contact Email:**	fred.ware@hbc.com
DLS (Last Filed Rpt):		**Latitude:**	
Facility DLS:		**Longitude:**	
Datum:		**UTM Zone:**	
Facility Cmnts:		**UTM Northing:**	
URL:		**UTM Easting:**	
No of Empl.:	20	**Waste Streams:**	
Parent Co.:		**No Streams:**	
No Parent Co.:		**Waste Off Sites:**	
Pollut Prev Cmnts:		**No Off Sites:**	
Stacks:		**Shutdown:**	
No of Stacks:		**No of Shutdown:**	
Canadian SIC Code (2 digit):			
Canadian SIC Code:			
SIC Code Description:			
American SIC Code:			
NAICS Code (2 digit):	53		
NAICS 2 Description:	Real Estate and Rental and Leasing		
NAICS Code (4 digit):	5311		
NAICS 4 Description:	Lessors of Real Estate		
NAICS Code (6 digit):	531120		
NAICS 6 Description:	Lessors of Non-Residential Buildings (except Mini-Warehouses)		

Substance Release Report

CAS No:	11104-93-1
Report ID:	
Rpt Period:	2004
Subst Released:	Nitrogen oxides (expressed as NO2)
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

CAS No:	NA - M16
Report ID:	
Rpt Period:	2004
Subst Released:	Volatile Organic Compounds (VOCs)
Air:	
Water:	
Land:	

Total Releases:
Units: tonnes

CAS No: 74-82-8
Report ID:
Rpt Period: 2004
Subst Released: Methane
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 10024-97-2
Report ID:
Rpt Period: 2004
Subst Released: Nitrous oxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 630-08-0
Report ID:
Rpt Period: 2004
Subst Released: Carbon monoxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 7446-09-5
Report ID:
Rpt Period: 2004
Subst Released: Sulphur dioxide
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M08
Report ID:
Rpt Period: 2004
Subst Released: PM - Total Particulate Matter
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: 811-97-2
Report ID:
Rpt Period: 2004
Subst Released: HFC-134a Hydrofluorocarbon
Air:
Water:
Land:
Total Releases:
Units: tonnes

CAS No: NA - M10
Report ID:
Rpt Period: 2004

Subst Released:	PM2.5 - Particulate Matter <= 2.5 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	124-38-9
Report ID:	
Rpt Period:	2004
Subst Released:	Carbon dioxide
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes
CAS No:	NA - M09
Report ID:	
Rpt Period:	2004
Subst Released:	PM10 - Particulate Matter <= 10 Microns
Air:	
Water:	
Land:	
Total Releases:	
Units:	tonnes

151	***12 of 16***	***WSW/277.0***	***139.8 / 3.00***	***Target Canada Co. 2000 APPLEBY LINE BURLINGTON ON***	***GEN***

Generator No:	ON8422744
SIC Code:	452112
SIC Description:	
Approval Years:	2013
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES
Waste Class:	148
Waste Class Name:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Name:	ORGANIC LABORATORY CHEMICALS
Waste Class:	261
Waste Class Name:	PHARMACEUTICALS
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 262
Waste Class Name: DETERGENTS/SOAPS

Waste Class: 269
Waste Class Name: NON-HALOGENATED PESTICIDES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

151	13 of 16	WSW/277.0	139.8 / 3.00	Target Canada Co. 2000 APPLEBY LINE BURLINGTON ON L7L 7H7	GEN

Generator No: ON8422744
SIC Code: 452112
SIC Description: 452112
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Carolyn Bue
Choice of Contact: CO_ADMIN
Phone No Admin: 800-587-2228 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 122
Waste Class Name: ALKALINE WASTES - OTHER METALS

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 262
Waste Class Name: DETERGENTS/SOAPS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 112
Waste Class Name: ACID WASTE - HEAVY METALS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 269
Waste Class Name: NON-HALOGENATED PESTICIDES

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

151	***14 of 16***	***WSW/277.0***	***139.8 / 3.00***	***Target Canada Co.*** ***2000 APPLEBY LINE*** ***BURLINGTON ON L7L 7H7***	***GEN***

Generator No: ON8422744
SIC Code: 452112
SIC Description: 452112
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Carolyn Bue
Choice of Contact: CO_ADMIN
Phone No Admin: 800-587-2228 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 242
Waste Class Name: HALOGENATED PESTICIDES

Waste Class: 263
Waste Class Name: ORGANIC LABORATORY CHEMICALS

Waste Class: 148
Waste Class Name: INORGANIC LABORATORY CHEMICALS

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 262
Waste Class Name: DETERGENTS/SOAPS

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

Waste Class:	112
Waste Class Name:	ACID WASTE - HEAVY METALS
Waste Class:	122
Waste Class Name:	ALKALINE WASTES - OTHER METALS
Waste Class:	212
Waste Class Name:	ALIPHATIC SOLVENTS
Waste Class:	269
Waste Class Name:	NON-HALOGENATED PESTICIDES
Waste Class:	213
Waste Class Name:	PETROLEUM DISTILLATES
Waste Class:	252
Waste Class Name:	WASTE OILS & LUBRICANTS
Waste Class:	145
Waste Class Name:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	331
Waste Class Name:	WASTE COMPRESSED GASES
Waste Class:	312
Waste Class Name:	PATHOLOGICAL WASTES

151 **15 of 16** **WSW/277.0** **139.8 / 3.00** **PES**

ZELLERS STORE #487 - MILLCROFT CENTRE
2000 APPLEBY LINE
BURLINGTON ON L7L6M5

Detail Licence No:		**Operator Box:**	
Licence No:	12933	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	905
Licence Type:	Limited Vendor	**Oper Phone No:**	3317743
Licence Type Code:	23	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:		**Oper Concession:**	
Latitude:		**Operator Region:**	
Longitude:		**Operator District:**	
Lot:		**Operator County:**	
Concession:		**Op Municipality:**	
Region:		**Post Office Box:**	
District:		**MOE District:**	
County:		**SWP Area Name:**	
Trade Name:			
PDF URL:			

151 **16 of 16** **WSW/277.0** **139.8 / 3.00** **PES**

RRG LANDSCAPING INC.
191 - 2000 APPLEBY LINE
BURLINGTON ON L7L7H7

Detail Licence No:		**Operator Box:**	
Licence No:	06527	**Operator Class:**	
Status:		**Operator No:**	
Approval Date:		**Operator Type:**	
Report Source:	Legacy Licenses (Excluding TS)	**Oper Area Code:**	905
Licence Type:	Operator	**Oper Phone No:**	3365613
Licence Type Code:	02	**Operator Ext:**	
Licence Class:	01	**Operator Lot:**	
Licence Control:		**Oper Concession:**	

Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Region:
Operator District:
Operator County:
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

152 | ***1 of 11*** | ***SE/280.0*** | ***130.0 / -6.87*** | ***L. E. Taylor Associates Ltd.***
5305 John Lucas Dr
Burlington ON L7L 6A8 | ***SCT***

Established: 01-MAY-64
Plant Size (ft²): 50000
Employment:

--Details--
Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
SIC/NAICS Code: 332999

Description: Industrial Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417230

Description: Plumbing, Heating and Air-Conditioning Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 416120

---

152 | ***2 of 11*** | ***SE/280.0*** | ***130.0 / -6.87*** | ***Staveley Services Canada Inc.***
5305 John Lucas Drive
Burlington ON L7L 6A8 | ***GEN***

Generator No: ON4108754
SIC Code:
SIC Description:
Approval Years: 03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

---

152 | ***3 of 11*** | ***SE/280.0*** | ***130.0 / -6.87*** | ***Applus RTD Canada*** | ***GEN***
5305 John Lucas Drive
Burlington ON

Generator No: ON4108754
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

---

152 | ***4 of 11*** | ***SE/280.0*** | ***130.0 / -6.87*** | ***5305 John Lucas Drive, Unit 1*** | ***EHS***
Burlington ON L7L 6A8

Order No: 20080221027
Status: C
Report Type: Complete Report
Report Date: 3/3/2008
Date Received: 2/21/2008
Previous Site Name:
Lot/Building Size:
Additional Info Ordered: Fire Insur. Maps And /or Site Plans; Title Search; Aerials Photos; City Directory; Topographical Maps
Nearest Intersection:
Municipality:
Client Prov/State: OH
Search Radius (km): 0.25
X: -79.769345
Y: 43.394621

---

152 | ***5 of 11*** | ***SE/280.0*** | ***130.0 / -6.87*** | ***Applus RTD Canada*** | ***GEN***
5305 John Lucas Drive
Burlington ON L7L 6A8

Generator No: ON4108754
SIC Code: 332999

SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

---

152 | **6 of 11** | **SE/280.0** | **130.0 / -6.87** | **Applus RTD Canada**
5305 John Lucas Drive
Burlington ON L7L 6A8 | **GEN**

Generator No: ON4108754
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
152	7 of 11	SE/280.0	130.0 / -6.87	Applus RTD Canada 5305 John Lucas Drive Burlington ON L7L 6A8	GEN

Generator No: ON4108754
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
152	8 of 11	SE/280.0	130.0 / -6.87	Applus RTD Canada 5305 John Lucas Drive Burlington ON L7L 6A8	GEN

Generator No: ON4108754
SIC Code: 332999
SIC Description: All Other Miscellaneous Fabricated Metal Product Manufacturing
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 241

Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

152 | **9 of 11** | **SE/280.0** | **130.0 / -6.87** | **Applus RTD Canada**
5305 John Lucas Drive
Burlington ON L7L 6A8 | **GEN**

Generator No: ON4108754
SIC Code: 332999
SIC Description: ALL OTHER MISCELLANEOUS FABRICATED METAL PRODUCT MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Mark Wiedener
Choice of Contact: CO_ADMIN
Phone No Admin: 905-333-3004 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 253
Waste Class Name: EMULSIFIED OILS

Waste Class: 241
Waste Class Name: HALOGENATED SOLVENTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 212
Waste Class Name: ALIPHATIC SOLVENTS

Waste Class: 145
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

152 | **10 of 11** | **SE/280.0** | **130.0 / -6.87** | **Rowhedge construction Limited**
5305 John luccas drive
Burlington ON L7L 6A8 | **GEN**

Generator No: ON3906063
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

152 | ***11 of 11*** | ***SE/280.0*** | ***130.0 / -6.87*** | ***Rowhedge construction Limited*** | ***GEN***
5305 John luccas drive
Burlington ON L7L 6A8

Generator No: ON3906063
SIC Code:
SIC Description:
Approval Years: As of Oct 2019
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

---

153 | ***1 of 1*** | ***SW/280.6*** | ***136.8 / 0.00*** | ***1819 MCCOY AVENUE, BURLINGTON ON*** | ***INC***

Incident No:	1924460	**Any Health Impact:**	No
Incident ID:		**Any Enviro Impact:**	No
Instance No:		**Service Intrp:**	Yes
Status Code:		**Was Prop Damaged:**	Yes
Incident Status:		**Reside App. Type:**	
Incident Severity:		**Commer App. Type:**	
Task No:	6290785	**Indus App. Type:**	
Attribute Category:	FS-Perform L1 Incident Insp	**Institut App. Type:**	
Context:		**Depth Ground Cover:**	
Date of Occurrence:	2016/08/17 00:00:00	**Operation Pressure:**	
Time of Occurrence:	10:00:00	**Equipment Type:**	
Occr Insp Start Dt:	2016/08/17 00:00:00	**Equipment Model:**	
Incident Creat On:		**Serial No:**	
Instance Creat Dt:		**Cylinder Capacity:**	
Instance Install Dt:		**Cylinder Cap Units:**	
Approx Quant Rel:		**Cylinder Mat Type:**	
Tank Capacity:		**Pump Flow Rate Cap:**	
Fuels Occur Type:	Fire	**Contam. Migrated:**	
Occur Type Rpt:		**Near Body of Water:**	
Occur Category:		**Drainage System:**	
Fuel Type Involved:	Natural Gas	**Sub Surface Contam:**	
Fuel Type Reported:		**Tank Material Type:**	
Enforcement Policy:	NULL	**Tank Storage Type:**	
Prc Escalation Req:	NULL	**Tank Location Type:**	

Item:
Item Description:
Device Installed Location:
Venting Type:
Vent Conn Mater:
Vent Chimney Mater:
Pipeline Type:
Pipeline Involved:
Pipe Material:
Regulator Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Regulator Type:
Liquid Prop Make:
Liquid Prop Model:
Liquid Prop Serial No:
Liquid Prop Notes:
Inventory Address: 1819 MCCOY AVENUE, BURLINGTON - FIRE
Invent Postal Code:
Notes:
Contact Natural Env:
Aff Prop Use Water:
Occurence Narrative: furnace control fire
Operation Type Involved: Private Dwelling

154	*1 of 26*	*E/285.9*	*129.8 / -7.00*	***BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON L7R 3X5***	***PRT***

Location ID: 2398
Type: private
Expiry Date:
Capacity (L): 11365.00
Licence #: 0001018101

154	*2 of 26*	*E/285.9*	*129.8 / -7.00*	***BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON L7R3X5***	***PRT***

Location ID: 2398
Type: retail
Expiry Date:
Capacity (L): 11365
Licence #: 0001023543

154	*3 of 26*	*E/285.9*	*129.8 / -7.00*	***MINISTRY OF NATURAL RESOURCES BRONTE CREEK PROVINCIAL PARK 1219 BURLOAK DRIVE BURLINGTON ON L7R 3X5***	***GEN***

Generator No: ON0124104
SIC Code: 8272
SIC Description: RES. CONS./IND. DEV.
Approval Years: 86,87,88,89,90,92,93,97,98,99,00,01
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	4 of 26	E/285.9	129.8 / -7.00	MINISTRY OF NATURAL RESOURCES 25-085 BRONTE CREEK PROVINCIAL PARK 1219 BURLOAK DRIVE BURLINGTON ON L7R 3X5	GEN

Generator No: ON0124104
SIC Code: 8272
SIC Description: RES. CONS./IND. DEV.
Approval Years: 94,95,96
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	5 of 26	E/285.9	129.8 / -7.00	MINISTRY OF NATURAL RESOURCES 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	GEN

Generator No: ON0124104
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 243
Waste Class Name: PCB'S

Waste Class: 243
Waste Class Name: PCB'S

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	6 of 26	E/285.9	129.8 / -7.00	BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON	FSTH

License Issue Date: 1/30/1992
Tank Status: Licensed
Tank Status As Of: August 2007
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1987
Corrosion Protection:
Capacity: 9092
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1987
Corrosion Protection:
Capacity: 2273
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	7 of 26	E/285.9	129.8 / -7.00	BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON	FSTH

License Issue Date: 1/30/1992
Tank Status: Licensed
Tank Status As Of: December 2008
Operation Type: Private Fuel Outlet
Facility Type: Gasoline Station - Self Serve

--Details--
Status: Active
Year of Installation: 1987
Corrosion Protection:
Capacity: 9092
Tank Fuel Type: Liquid Fuel Single Wall UST - Gasoline

Status: Active
Year of Installation: 1987
Corrosion Protection:
Capacity: 2273
Tank Fuel Type: Liquid Fuel Single Wall UST - Diesel

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	8 of 26	E/285.9	129.8 / -7.00	BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No: 9290860
Status: EXPIRED
Instance ID: 384638
Expired Date:
Max Hazard Rank:
Facility Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Instance Type:	FS Facility	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	Fuels Safety Private Fuel Outlet - Self Serve		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

154	***9 of 26***	***E/285.9***	***129.8 / -7.00***	***BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON***	***DTNK***

Delisted Expired Fuel Safety Facilities

Instance No:	10627473	***Expired Date:***	
Status:	EXPIRED	***Max Hazard Rank:***	
Instance ID:	29570	***Facility Location:***	
Instance Type:	FS Piping	***Facility Type:***	
Instance Creation Dt:		***Fuel Type 2:***	
Instance Install Dt:		***Fuel Type 3:***	
Item Description:		***Panam Related:***	
Manufacturer:		***Panam Venue Nm:***	
Model:		***External Identifier:***	
Serial No:		***Item:***	
ULC Standard:		***Piping Steel:***	
Quantity:		***Piping Galvanized:***	
Unit of Measure:		***Tank Single Wall St:***	
Overfill Prot Type:		***Piping Underground:***	
Creation Date:		***Tank Underground:***	
Next Periodic Str DT:		***Source:***	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Record Date:		Up to Mar 2012			

154	10 of 26	E/285.9	129.8 / -7.00	BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR BURLINGTON ON	DTNK

Delisted Expired Fuel Safety Facilities

Instance No:	10627428	**Expired Date:**	
Status:	EXPIRED	**Max Hazard Rank:**	
Instance ID:	31759	**Facility Location:**	
Instance Type:	FS Piping	**Facility Type:**	
Instance Creation Dt:		**Fuel Type 2:**	
Instance Install Dt:		**Fuel Type 3:**	
Item Description:		**Panam Related:**	
Manufacturer:		**Panam Venue Nm:**	
Model:		**External Identifier:**	
Serial No:		**Item:**	
ULC Standard:		**Piping Steel:**	
Quantity:		**Piping Galvanized:**	
Unit of Measure:		**Tank Single Wall St:**	
Overfill Prot Type:		**Piping Underground:**	
Creation Date:		**Tank Underground:**	
Next Periodic Str DT:		**Source:**	
TSSA Base Sched Cycle 2:			
TSSAMax Hazard Rank 1:			
TSSA Risk Based Periodic Yn:			
TSSA Volume of Directives:			
TSSA Periodic Exempt:			
TSSA Statutory Interval:			
TSSA Recd Insp Interva:			
TSSA Recd Tolerance:			
TSSA Program Area:			
TSSA Program Area 2:			
Description:	FS Piping		
Original Source:	EXP		
Record Date:	Up to Mar 2012		

154	11 of 26	E/285.9	129.8 / -7.00	MINISTRY OF NATURAL RESOURCES 1219 BURLOAK DRIVE OAKVILLE ON L6M 4J7	GEN

Generator No:	ON0124104
SIC Code:	912910
SIC Description:	Other Provincial and Territorial Public Administration
Approval Years:	2009
PO Box No:	
Country:	
Status:	
Co Admin:	
Choice of Contact:	
Phone No Admin:	
Contaminated Facility:	
MHSW Facility:	

Detail(s)

Waste Class:	213
Waste Class Name:	PETROLEUM DISTILLATES

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

---

154 **12 of 26** **E/285.9** **129.8 / -7.00** ***MINISTRY OF NATURAL RESOURCES***
1219 BURLOAK DRIVE
OAKVILLE ON L6M 4J7 **GEN**

Generator No: ON0124104
SIC Code: 912910
SIC Description: Other Provincial and Territorial Public Administration
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

154 **13 of 26** **E/285.9** **129.8 / -7.00** ***MINISTRY OF NATURAL RESOURCES***
1219 BURLOAK DRIVE
OAKVILLE ON L6M 4J7 **GEN**

Generator No: ON0124104
SIC Code: 912910
SIC Description: Other Provincial and Territorial Public Administration
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251

Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

---

154 | **14 of 26** | **E/285.9** | **129.8 / -7.00** | **BRONTE CREEK PROV PARK ATTN JIM MCNABB**
1219 BURLOAK DR
BURLINGTON ON | **FST**

Inventory No: 10627304
Inventory Status: Active
Installation Year:
Capacity:
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK

Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

154 | **15 of 26** | **E/285.9** | **129.8 / -7.00** | **BRONTE CREEK PROV PARK ATTN JIM MCNABB**
1219 BURLOAK DR
BURLINGTON ON | **FST**

Inventory No: 10627350
Inventory Status: Active
Installation Year:
Capacity:
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK

Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

154 | **16 of 26** | **E/285.9** | **129.8 / -7.00** | **MINISTRY OF NATURAL RESOURCES**
1219 BURLOAK DRIVE
OAKVILLE ON L6M4J7 | **GEN**

Generator No: ON0124104
SIC Code: 912910
SIC Description: Other Provincial and Territorial Public Administration
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

---

154 | ***17 of 26*** | ***E/285.9*** | ***129.8 / -7.00*** | ***MINISTRY OF NATURAL RESOURCES 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7*** | ***GEN***

Generator No: ON0124104
SIC Code: 912910
SIC Description: OTHER PROVINCIAL AND TERRITORIAL PUBLIC ADMINISTRATION
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Christine Prince
Choice of Contact: CO_ADMIN
Phone No Admin: 905-827-6911 Ext.225
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 243
Waste Class Name: PCBS

---

154 | ***18 of 26*** | ***E/285.9*** | ***129.8 / -7.00*** | ***MINISTRY OF NATURAL RESOURCES 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7*** | ***GEN***

Generator No: ON0124104
SIC Code: 912910
SIC Description: OTHER PROVINCIAL AND TERRITORIAL PUBLIC ADMINISTRATION
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Christine Prince

Choice of Contact: CO_ADMIN
Phone No Admin: 905-827-6911 Ext.225
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 243
Waste Class Name: PCBS

---

154 | ***19 of 26*** | ***E/285.9*** | ***129.8 / -7.00*** | ***MINISTRY OF NATURAL RESOURCES 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7*** | ***GEN***

Generator No: ON0124104
SIC Code: 912910
SIC Description: OTHER PROVINCIAL AND TERRITORIAL PUBLIC ADMINISTRATION
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: JILLIAN J VAN NIEKERK
Choice of Contact: CO_ADMIN
Phone No Admin: 905-827-6911 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 243
Waste Class Name: PCBS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

---

154 | ***20 of 26*** | ***E/285.9*** | ***129.8 / -7.00*** | ***MINISTRY OF NATURAL RESOURCES ONTARIO PARKS 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7*** | ***GEN***

Generator No: ON0124104
SIC Code:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 133 L
Waste Class Name: Brine, chlor-alkali sludges

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 243 D
Waste Class Name: PCB

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

154	21 of 26	E/285.9	129.8 / -7.00	**Danosh Construction** **1219 Burloak Drive** **Oakville ON L6M 4J7**	GEN

Generator No: ON3046193
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 221 I
Waste Class Name: Light fuels

Waste Class: 221 L
Waste Class Name: Light fuels

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	22 of 26	E/285.9	129.8 / -7.00	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	GEN

Generator No: ON0124104
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 243 D
Waste Class Name: PCB

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 133 L
Waste Class Name: Brine, chlor-alkali sludges

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	23 of 26	E/285.9	129.8 / -7.00	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	GEN

Generator No: ON0124104
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 133 L
Waste Class Name: Brine, chlor-alkali sludges

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 331 I
Waste Class Name: Waste compressed gases including cylinders

Waste Class: 251 L
Waste Class Name: Waste oils/sludges (petroleum based)

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 243 D
Waste Class Name: PCB

Waste Class: 145 L
Waste Class Name: Wastes from the use of pigments, coatings and paints

---

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	24 of 26	E/285.9	129.8 / -7.00	MINISTRY OF NATURAL RESOURCES ONTARIO PARKS 1219 BURLOAK DRIVE OAKVILLE ON L6M4J7	GEN

Generator No: ON0124104
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 243 D
Waste Class Name: PCBS

Waste Class: 251 L
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 133 L
Waste Class Name: BRINES, CHLOR-ALKALI WASTES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 331 I
Waste Class Name: WASTE COMPRESSED GASES

Waste Class: 145 L
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
154	25 of 26	E/285.9	129.8 / -7.00	BRONTE CREEK PROV PARK ATTN JIM MCNABB 1219 BURLOAK DR	EXP

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				BURLINGTON ON	

Inventory No: 10627447
Inventory Status: EXPIRED
Installation Year: 1987
Capacity: 2273
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Diesel

Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

154 | **26 of 26** | **E/285.9** | **129.8 / -7.00** | **BRONTE CREEK PROV PARK ATTN JIM MCNABB**
1219 BURLOAK DR
BURLINGTON ON | **EXP**

Inventory No: 10627399
Inventory Status: EXPIRED
Installation Year: 1987
Capacity: 9092
Capacity Unit:
Tank Type:
Manufacturer:
Model:
Description: UNDERGROUND TANK
Previous Fuel Type: Gasoline

Tank Material: Steel
Corrosion Protect: Impressed Current
Overfill Protection:
Inventory Context: FS Liquid Fuel Tank
Inventory Item: FS LIQUID FUEL TANK

---

155 | **1 of 28** | **WSW/286.3** | **139.8 / 3.00** | **1960 APPLEBY LINE**
BURLINGTON ON L7L 0B7 | **EHS**

Order No: 20110119003
Status: C
Report Type: Standard Report
Report Date: 1/27/2011
Date Received: 1/19/2011 8:50:50 AM
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection: UPPER MIDDLE RD. & APPLEBY LINE
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25
X: -79.789733
Y: 43.392794

---

155 | **2 of 28** | **WSW/286.3** | **139.8 / 3.00** | **CMLHealthCare**
1960 Appleby LINE
burlington ON L7L 0B7 | **GEN**

Generator No: ON8082710
SIC Code: 621510
SIC Description:
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
155	3 of 28	WSW/286.3	139.8 / 3.00	LifeLabs LP 1960 Appleby LINE burlington ON L7L 0B7	GEN

Generator No: ON8082710
SIC Code: 621510
SIC Description: Medical and Diagnostic Laboratories
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
155	4 of 28	WSW/286.3	139.8 / 3.00	GI Health Centre Inc 1960 Appleby Line, Unit 32 Burlington ON	GEN

Generator No: ON4179265
SIC Code: 621110, 621499
SIC Description: Offices of Physicians, All Other Out-Patient Care Centres
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
155	5 of 28	WSW/286.3	139.8 / 3.00	GI Health Centre Inc 1960 Appleby Line, Unit 32 Burlington ON	GEN

Generator No: ON4179265
SIC Code: 621110, 621499
SIC Description: OFFICES OF PHYSICIANS, ALL OTHER OUT-PATIENT CARE CENTRES
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
155	6 of 28	WSW/286.3	139.8 / 3.00	LifeLabs LP 1960 Appleby LINE burlington ON	GEN

Generator No: ON8082710
SIC Code: 621510
SIC Description: MEDICAL AND DIAGNOSTIC LABORATORIES

Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 | ***7 of 28*** | ***WSW/286.3*** | ***139.8 / 3.00*** | ***GI Health Centre Inc***
1960 Appleby Line, Unit 32
Burlington ON L7L 0B7 | ***GEN***

Generator No: ON4179265
SIC Code: 621110, 621499
SIC Description: OFFICES OF PHYSICIANS, ALL OTHER OUT-PATIENT CARE CENTRES
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Vanesa Seepersaud
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-335-1888 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 | ***8 of 28*** | ***WSW/286.3*** | ***139.8 / 3.00*** | ***LifeLabs LP***
1960 Appleby LINE
burlington ON L7L 0B7 | ***GEN***

Generator No: ON8082710
SIC Code: 621510
SIC Description: MEDICAL AND DIAGNOSTIC LABORATORIES
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 | ***9 of 28*** | ***WSW/286.3*** | ***139.8 / 3.00*** | ***2183401 Ontario Inc***
36-1960 Appleby Line | ***GEN***

Burlington ON L7L 0B7

Generator No: ON6781209
SIC Code: 621110
SIC Description: OFFICES OF PHYSICIANS
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 ***10 of 28*** ***WSW/286.3*** ***139.8 / 3.00*** ***GI Health Centre Inc*** ***GEN***
1960 Appleby Line, Unit 32
Burlington ON L7L 0B7

Generator No: ON4179265
SIC Code: 621110, 621499
SIC Description: OFFICES OF PHYSICIANS, ALL OTHER OUT-PATIENT CARE CENTRES
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Jasmine Dimartino
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-335-1888 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 ***11 of 28*** ***WSW/286.3*** ***139.8 / 3.00*** ***2183401 Ontario Inc*** ***GEN***
36-1960 Appleby Line
Burlington ON L7L 0B7

Generator No: ON6781209
SIC Code: 621110
SIC Description: OFFICES OF PHYSICIANS
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 **12 of 28** **WSW/286.3** **139.8 / 3.00** **LifeLabs LP** **GEN**
1960 Appleby LINE
burlington ON L7L 0B7

Generator No: ON8082710
SIC Code: 621510
SIC Description: MEDICAL AND DIAGNOSTIC LABORATORIES
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 **13 of 28** **WSW/286.3** **139.8 / 3.00** **LifeLabs LP** **GEN**
1960 Appleby LINE
burlington ON L7L6A1

Generator No: ON8082710
SIC Code: 621510
SIC Description: MEDICAL AND DIAGNOSTIC LABORATORIES
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Jacquie Maertz
Choice of Contact: CO_ADMIN
Phone No Admin: 905 565 0043 Ext.3280
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 **14 of 28** **WSW/286.3** **139.8 / 3.00** **GI Health Centre Inc** **GEN**
1960 Appleby Line, Unit 32
Burlington ON L7L 0B7

Generator No: ON4179265
SIC Code: 621110, 621499
SIC Description: OFFICES OF PHYSICIANS, ALL OTHER OUT-PATIENT CARE CENTRES
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Jasmine Dimartino
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905-335-1888 Ext.
Contaminated Facility: No

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

---

155 | ***15 of 28*** | ***WSW/286.3*** | ***139.8 / 3.00*** | ***2183401 Ontario Inc***
36-1960 Appleby Line
Burlington ON L7L 0B7 | ***GEN***

Generator No: ON6781209
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 261 P
Waste Class Name: Pharmaceuticals

Waste Class: 312 P
Waste Class Name: Pathological wastes

---

155 | ***16 of 28*** | ***WSW/286.3*** | ***139.8 / 3.00*** | ***LifeLabs LP***
1960 Appleby LINE
burlington ON L7L 0B7 | ***GEN***

Generator No: ON8082710
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

---

155 | ***17 of 28*** | ***WSW/286.3*** | ***139.8 / 3.00*** | ***GI Health Centre Inc***
1960 Appleby Line, Unit 32
Burlington ON L7L 0B7 | ***GEN***

Generator No: ON4179265
SIC Code:
SIC Description:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

155	18 of 28	WSW/286.3	139.8 / 3.00	**LifeLabs LP** **1960 Appleby LINE** **burlington ON L7L 0B7**	GEN

Generator No: ON8082710
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

155	19 of 28	WSW/286.3	139.8 / 3.00	**GI Health Centre Inc** **1960 Appleby Line, Unit 32** **Burlington ON L7L 0B7**	GEN

Generator No: ON4179265
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

155	20 of 28	WSW/286.3	139.8 / 3.00	**2183401 Ontario Inc** **34-1960 Appleby Line**	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				Burlington ON L7L 0B7	

Generator No: ON6781209
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 261 P
Waste Class Name: Pharmaceuticals

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
155	21 of 28	WSW/286.3	139.8 / 3.00	**LifeLabs LP** **1960 Appleby LINE** **burlington ON L7L 0B7**	GEN

Generator No: ON8082710
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
155	22 of 28	WSW/286.3	139.8 / 3.00	**2183401 Ontario Inc** **34-1960 Appleby Line** **Burlington ON L7L 0B7**	GEN

Generator No: ON6781209
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 261 P
Waste Class Name: Pharmaceuticals

155	*23 of 28*	*WSW/286.3*	*139.8 / 3.00*	***GI Health Centre Inc*** ***1960 Appleby Line, Unit 32*** ***Burlington ON L7L 0B7***	***GEN***

Generator No: ON4179265
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

155	*24 of 28*	*WSW/286.3*	*139.8 / 3.00*	***Blueridge OMS*** ***31-1960 Appleby Line*** ***BURLINGTON ON L7L 0B7***	***GEN***

Generator No: ON4882038
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

Waste Class: 264 L
Waste Class Name: Photoprocessing wastes

155	*25 of 28*	*WSW/286.3*	*139.8 / 3.00*	***Blueridge OMS*** ***31-1960 Appleby Line*** ***BURLINGTON ON L7L 0B7***	***GEN***

Generator No: ON4882038
SIC Code:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 264 L
Waste Class Name: PHOTOPROCESSING WASTES

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

155	26 of 28	WSW/286.3	139.8 / 3.00	**2183401 Ontario Inc** **34-1960 Appleby Line** **Burlington ON L7L 0B7**	GEN

Generator No: ON6781209
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 261 P
Waste Class Name: PHARMACEUTICALS

155	27 of 28	WSW/286.3	139.8 / 3.00	**GI Health Centre Inc** **1960 Appleby Line, Unit 32** **Burlington ON L7L 0B7**	GEN

Generator No: ON4179265
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Waste Class: 261 A
Waste Class Name: PHARMACEUTICALS

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

---

155 | **28 of 28** | **WSW/286.3** | **139.8 / 3.00** | **LifeLabs LP**
1960 Appleby LINE
burlington ON L7L 0B7 | **GEN**

Generator No: ON8082710
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: PATHOLOGICAL WASTES

---

156 | **1 of 5** | **S/288.6** | **128.5 / -8.31** | **Eaton Electrical - Div. of Eaton Corp.**
5050 Main Way
Burlington ON L7L 5Z1 | **PAP**

Company ID: 146955047
Status: Active
Type: Head Office
Operation:
Status Desc:
Effluent Pollution Control:
Company Name:
Division:
Company Mailing Address:
Mailing Address: 5050 Main Way, Burlington ON L7L 5Z1
Mill Mailing Address:
Mill Notes:
History:
Company History:
Year: 2009
Description:
Website:

---

156 | **2 of 5** | **S/288.6** | **128.5 / -8.31** | **Eaton Yale Corporation**
5050B Mainway
Burlington ON L7L 5Z1 | **SCT**

Established: 1/1/1994
Plant Size (ft²):
Employment:

--Details--
Description: Wiring Device Manufacturing
SIC/NAICS Code: 335930

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
156	3 of 5	S/288.6	128.5 / -8.31	Norjohn Transfer Systems Limited 5050 Mainway Burlington ON L7L 5Z1	CA

Certificate #: 5884-6AGJD6
Application Year: 2005
Issue Date: 3/14/2005
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
156	4 of 5	S/288.6	128.5 / -8.31	Eaton Corporation 5050 Mainway Burlington ON L7L 5Z1	SCT

Established: 01-SEP-20
Plant Size (ft²):
Employment:

--Details--
Description: Electrical Wiring and Construction Supplies Wholesaler-Distributors
SIC/NAICS Code: 416110

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
156	5 of 5	S/288.6	128.5 / -8.31	Norjohn Transfer Systems Limited 5050 Mainway Burlington ON L2V 3Y8	ECA

Approval No: 5884-6AGJD6
Approval Date: 2005-03-14
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Halton
MOE District: Halton-Peel
City:
Longitude: -79.774376
Latitude: 43.393612
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Norjohn Transfer Systems Limited
Address: 5050 Mainway
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2138-6A6PNA-14.pdf
PDF Site Location:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
157	1 of 4	WSW/289.8	137.8 / 1.00	ayesof professional inc. 1893 appleby line BURLINGTON ON L7L0G5	GEN

Generator No: ON8006484
SIC Code: 623999
SIC Description: 623999
Approval Years: 2015
PO Box No:
Country: Canada
Status:

Co Admin: sadaf faisal
Choice of Contact: CO_OFFICIAL
Phone No Admin: 9053158008 Ext.
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 312
Waste Class Name: PATHOLOGICAL WASTES

Waste Class: 261
Waste Class Name: PHARMACEUTICALS

---

157 | ***2 of 4*** | ***WSW/289.8*** | ***137.8 / 1.00*** | ***1893 Appleby Line Burlington ON L7L0G5*** | ***EHS***

Order No: 20170214185
Status: C
Report Type: Standard Report
Report Date: 20-FEB-17
Date Received: 14-FEB-17
Previous Site Name: N/A
Lot/Building Size:
Additional Info Ordered: Topographic Maps

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.787651
Y: 43.392627

---

157 | ***3 of 4*** | ***WSW/289.8*** | ***137.8 / 1.00*** | ***1893 Appleby Line Burlington ON L7L0G5*** | ***EHS***

Order No: 20161017084
Status: C
Report Type: Standard Report
Report Date: 21-OCT-16
Date Received: 17-OCT-16
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.787651
Y: 43.392627

---

157 | ***4 of 4*** | ***WSW/289.8*** | ***137.8 / 1.00*** | ***1893 Appleby Line Burlington ON L7L 6K3*** | ***EHS***

Order No: 21040600036
Status: C
Report Type: Standard Report
Report Date: 09-APR-21
Date Received: 06-APR-21
Previous Site Name:
Lot/Building Size:
Additional Info Ordered:

Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): .25
X: -79.7877762
Y: 43.3927258

---

158 | ***1 of 3*** | ***S/290.8*** | ***125.8 / -11.00*** | ***Norjohn Business Park (East) Inc 1107 & 1109 Clay Ave Burlington ON L6H 0C3*** | ***ECA***

Approval No: 1400-ARBPJ4
Approval Date: 2017-09-21
Status: Approved
Record Type: ECA
Link Source: IDS

MOE District:
City:
Longitude:
Latitude:
Geometry X:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

SWP Area Name: **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Norjohn Business Park (East) Inc
Address: 1107 & 1109 Clay Ave
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4019-ANSP6U-14.pdf
PDF Site Location:

---

158 *2 of 3* **S/290.8** **125.8 / -11.00** **Straumann Canada Limited**
1109 Clay Ave., Unit 8
Burlington ON L7L 0A1
GEN

Generator No: ON9440098
SIC Code:
SIC Description:
Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

---

158 *3 of 3* **S/290.8** **125.8 / -11.00** **Straumann Canada Limited**
1109 Clay Ave., Unit 8
Burlington ON L7L 0A1
GEN

Generator No: ON9440098
SIC Code:
SIC Description:
Approval Years: As of Jan 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 312 P
Waste Class Name: Pathological wastes

---

159 *1 of 2* **WSW/294.2** **138.8 / 2.00** **MONARCH CONSTRUCTION LTD.-ROD FORTUNE**
IRONSTONE DR./APPLEBY LINE
BURLINGTON CITY ON
CA

Certificate #: 3-1657-90-
Application Year: 90
Issue Date: 9/6/1990

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB

Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

159 | **2 of 2** | **WSW/294.2** | **138.8 / 2.00** | **MONARCH CONSTRUCTION LIMITED-ROD FORTUNE**
IRONSIDE DR./APPLEBY LINE
BURLINGTON CITY ON | **CA**

Certificate #: 7-1349-90-
Application Year: 90
Issue Date: 9/6/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

---

160 | **1 of 1** | **SSW/295.1** | **130.8 / -6.09** | **TOTAL LANDSCAPING & SUPPLY**
5178 THORNBURN DR
BURLINGTON ON L7L 6K9 | **PES**

Detail Licence No: 02-01-05778-0
Licence No: 05778
Status:
Approval Date:
Report Source:
Licence Type: Operator
Licence Type Code: 02
Licence Class: 01
Licence Control: 0
Latitude:
Longitude:
Lot:
Concession:
Region:
District:
County:
Trade Name:
PDF URL:

Operator Box:
Operator Class:
Operator No: 5778
Operator Type:
Oper Area Code:
Oper Phone No:
Operator Ext:
Operator Lot:
Oper Concession:
Operator Region: 3
Operator District:
Operator County: 28
Op Municipality:
Post Office Box:
MOE District:
SWP Area Name:

---

161 | **1 of 1** | **WSW/297.5** | **140.8 / 4.00** | **Appleby Line and Heron Way, Burlington ON** | **SPL**

Ref No: 1-1DIWEF
Year:
Incident Dt:
Dt MOE Arvl on Scn:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:

MOE Reported Dt:	11/4/2021 8:44:10 AM	***Impact to Health:***	0 No Impact
Dt Document Closed:		***Agency Involved:***	
Site No:			
MOE Response:	Desktop Response		
Site County/District:			
Site Geo Ref Meth:			
Site District Office:	Halton-Peel District Office		
Nearest Watercourse:			
Site Name:			
Site Address:	Appleby Line and Heron Way, Burlington		
Site Region:	REGIONAL MUNICIPALITY OF HALTON		
Site Municipality:	BURLINGTON		
Site Lot:			
Site Conc:			
Site Geo Ref Accu:			
Site Map Datum:			
Northing:			
Easting:			
Incident Cause:			
Incident Preceding Spill:	Leak/Break		
Environment Impact:	1 Minor Impact		
Health Env Consequence:			
Nature of Impact:			
Contaminant Qty:	200 litre (L)		
System Facility Address:			
Client Name:	DARLING INTERNATIONAL CANADA INC.		
Client Type:	Private Business		
Source Type:			
Contaminant Code:			
Contaminant Name:	TALLOW		
Contaminant Limit 1:			
Contam Limit Freq 1:			
Contaminant UN No 1:			
Receiving Medium:	Land		
Incident Reason:			
Incident Summary:	Rothsay/Darling: hot tallow sprayed on the street		
Activity Preceding Spill:	Transportation		
Property 2nd Watershed:	Lake Ontario and Niagara Peninsula		
Property Tertiary Watershed:	02HB-Credit - 16 Mile		
Sector Type:	GENERAL FREIGHT TRUCKING, LONG DISTANCE, TRUCK-LOAD		
SAC Action Class:			
Call Report Locatn Geodata:	{"integration_ids":["PR00001212620"],"wkts":["POINT (-79.7920082000 43.3948393000)"],"creation_date":"2021-11-04"}		

Unplottable Summary

Total: 176 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA		Within the Right of Way of Appleby Line	Burlington ON	
CA	Falcon Boulevard Area	Lot 2 and 3, Concession 1	Burlington ON	
CA		Upper Middle Road	Oakville ON	
CA	Mattamy Orchard East, Phase 2, 24T-95011/B(B)	Dunmore Avenue	Burlington ON	
CA	Mattamy Orchard East, Phase 2, 24T-95011/B(B)	Dunmore Avenue	Burlington ON	
CA		Lot 4, Concession 2	Burlington ON	
CA		Lot 4, Concession 2	Burlington ON	
CA	CENTRAL CANADA GROCERS INC.	UPPER MIDDLE RD.	BURLINGTON ON	
CA	REG.MUNIC.OF HALTON	UPPER MIDDLE RD.	OAKVILLE ON	
CA	OKINS LEIPCIGER CUPLINSKAS ETC.	UPPER MIDDLE RD.	OAKVILLE ON	
CA	REG. MUN. OF HALTON	UPPER MIDDLE RD.	BURLINGTON ON	
CA	REG.MUN.OF HALTON	UPPER MIDDLE RD. EASMENT	OAKVILLE ON	
CA	REG.MUN.OF HALTON	UPPER MIDDLE RD. EASMENT	OAKVILLE ON	
CA	MATTAMY HOMES LTD.	ORCHARD PH.9/UPPER MIDDLE RD.	BURLINGTON CITY ON	
CA	MATTAMY HOMES LTD.	UPPER MIDDLE RD.N.,PT.LOTS 1&2	BURLINGTON CITY ON	
CA	MATTAMY HOMES LTD.	ORCHARD PH.9/UPPER MIDDLE RD.	BURLINGTON CITY ON	
CA	R.M. OF HALTON, PUBLIC WORKS DEPT.	UPPER MIDDLE RD. RES. & P.S.	OAKVILLE TOWN ON	

CA	R.M. OF HALTON	UPPER MIDDLE RD.RESERVOIR & PS	OAKVILLE TOWN ON
CA	PALETTA INTERNATIONAL CORP.	PT.LOT 5/C-2, SHELDON CREEK	BURLINGTON CITY ON
CA	PALETTA INTERNATIONAL CORP.	PT.LOT 5/C-2, APPLEBY LINE	BURLINGTON CITY ON
CA	RADIX INVESTMENTS LTD.	LOT 2 CONC 1	BURLINGTON CITY ON
CA	RADIX INVESTMENTS LTD.	PART LOT 2 CONC 1	BURLINGTON CITY ON
CA	R.M. OF HALTON	UPPER MIDDLE RD. RESERVOIR/PS	OAKVILLE TOWN ON
CA	PALETTA INTERNATIONAL CORP.	PT.LOTS 4&5/C-2,SHELDON CK.PH2	BURLINGTON ON
CA	PALETTA INTERNATIONAL CORP.	DES JARDINES DR./PORTER ST.	BURLINGTON ON
CA	R.M. OF HALTON APPLEBY LINE	APPLEBY LINE	BURLINGTON CITY ON
CA	R.M. OF HALTON	UPPER MIDDLE RD.	OAKVILLE TOWN ON
CA	R.M. OF HALTON	UPPER MIDDLE RD.	BURLINGTON CITY ON
CA	R.M. OF HALTON	APPLEBY LINE/LOT 5, CONC. 1	BURLINGTON CITY ON
CA	FRAM BUILDING GROUP-SHELDON CREEK BUSINE	JOHN LUCAS DR./LOTS 25 & 26	BURLINGTON CITY ON
CA	R.M. OF HALTON UPPER MIDDLE RD.	UPPER MIDDLE RD.	OAKVILLE TOWN ON
CA	ROCCA GROUP INC. TANSLEY TOWNHOUSE	UPPER MIDDLE RD.	BURLINGTON CITY ON
CA	COOPER CORPORATION LIMITED	MAINWAY BUS. CENTRE	BURLINGTON CITY ON
CA	R.M. OF HALTON	UPPER MIDDLE RD.	OAKVILLE TOWN ON
CA	R.M. OF HALTON PR-973 WALKER'S LINE	UPPER MIDDLE ROAD	BURLINGTON CITY ON
CA	R. M. OF HALTON	UPPER MIDDLE RD.	OAKVILLE TOWN ON
CA	FRAM BUILDING GROUP-SHELDON CREEK BUSINE	JOHN LUCAS DR./LOTS 25&26	BURLINGTON CITY ON
CA	R.M. OF HALTON PHASE 1	UPPER MIDDLE RD.	OAKVILLE TOWN ON
CA	D. GREENFIELD ASSOC. LTD.	EASEMENT APPLEBY LINE	BURLINGTON CITY ON

CA	ROCCA GROUP INC. TANSLEY TOWNHOUSES	UPPER MIDDLE RD.	BURLINGTON CITY ON
CA	R.M. OF HALTON APPLEBY LINE	APPLEBY LINE	BURLINGTON CITY ON
CA	MONARCH CONSTRUCTION LTD. MILLCROFT PH.I	ROAD A UPPER MIDDLE RD. PART 1	BURLINGTON CITY ON
CA	N.H.D. DEVELOP.LTD.C/O THE SORBARA GROUP	UPPER MIDDLE RD. PHASE I	OAKVILLE TOWN ON
CA	N.H.D. DEVELOPMENTS LTD. C/O SORBARA GRP.	UPPER MIDDLE RD. PHASE I	OAKVILLE TOWN ON
CA	R.M. OF HALTON	UPPER MIDDLE ROAD	BURLINGTON CITY ON
CA	INTERPROVINCIAL PIPE LINE INC.	PT.LOT 35/CON.2, DUNDAS ST.S.	OAKVILLE TOWN ON
CA	North Service Road Portfolio Inc.	Lot 1, Conc. 1	Burlington ON
CA	RRL Burloak Inc.		Oakville ON
CA	Paletta International Corporation		Burlington ON
CA	Monarch Construction Limited		Burlington ON
CA	Monarch Construction Limited		Oakville ON
CA	The Regional Municipality of Halton	Upper Middle Road	Oakville ON
CA	The Regional Municipality of Halton	Upper Middle Road	Oakville ON
CA	RRL Burloak Inc.		Oakville ON
CA	The Regional Municipality of Halton	Appleby Line	Burlington ON
CA	Norjohn Business Park Inc.	Lot 4, Concession 2	Burlington ON
CA	Bella Court Developments Limited	Part of Lot 4, Concession 1, S.D.S.	Burlington ON
CA	Southcorp Canada Management Inc.	Part of Lot 4, Concession 1, South of Dundas St	Burlington ON
CA	Dunster Investments Limited	Burloak Drive and Block 9 Access Road	Burlington ON
CA	Losani Homes (1998) Ltd.	Part of Lot 4, Concession 1	Burlington ON
CA	City of Burlington	Upper Middle Road and Ironstone Drive	Burlington ON

CA	Monarch Construction Limited		Oakville ON	
CA	City of Burlington	Upper Middle Rd	Burlington ON	
CA	Suncor Energy Products Inc.		Burlington ON	
CA	Bronte Woods Community Subdivision	Part of Lot 2, Concession 1	Burlington ON	
CA	Bronte Woods Community Subdivision	Part of Lot 2, Concession 1, SDS	Burlington ON	
CA	Bronte Woods Community Subdivision	Part of Lot 2, Concession 1	Burlington ON	
CA		lot 4 and lot 5, Concession 1 & 2, SDS	Burlington ON	
CA	Bronte Woods Community Subdivision	Part of Lot 3, Concession 1	Burlington ON	
CA	Bronte Woods Community Subdivision	Part of Lot 3, Concession 1	Burlington ON	
ECA	404072 Ontario Limited	Lot 4 Concession 1 Conc	Oakville ON	L9T 8Z4
ECA	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.	Various locations in Ontario	Oakville ON	L6L 6N5
ECA	City of Burlington	Upper Middle Rd	Burlington ON	L7R 3Z6
ECA	The Regional Municipality of Halton	Appleby Line	Burlington ON	L6M 3L1
ECA	Tabera Ltd.	Part of Lot 2, Concession 1, SDS	Burlington ON	M5M 3Z2
ECA	The Regional Municipality of Halton	Within the Right of Way of Appleby Line	Burlington ON	L6M 3L1
ECA	Dunster Investments Limited	Burloak Drive and Block 9 Access Road	Burlington ON	M3H 5V3
ECA	The Regional Municipality of Halton	Appleby Line	Burlington ON	L6M 3L1
ECA	Dunster Investments Limited	Burloak Drive and Block 9 Access Road	Burlington ON	M3H 5V3
ECA	Melrose Investments Inc.	South of Dundas Street	Oakville ON	L6J 0A7
ECA	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.	Various locations in Ontario	Oakville ON	L6L 6N5
ECA	Bella Court Developments Limited	Part of Lot 4, Concession 1, S.D.S.	Burlington ON	L7N 3P2
ECA	The Regional Municipality of Halton	Sutton Drive from Mainway to Upper Middle Road	Burlington ON	L6M 3L1

ECA	Suncor Energy Inc.	Various locations in Ontario	Oakville ON	L6L 6N5
ECA	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.	Various Locations in Ontario	Oakville ON	L6L 6N5
ECA	Melrose Investments Inc.		Oakville ON	L6J 0A7
ECA	Suncor Energy Inc.	Various Locations in Ontario	Oakville ON	L6L 6N5
ECA	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.	Various Locations in Ontario	Oakville ON	L6L 6N5
ECA	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.	Various locations in Ontario	Oakville ON	L6L 6N5
ECA	The Regional Municipality of Halton	Appleby Line	Burlington ON	L6M 3L1
ECA	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.	Various Locations in Ontario	Oakville ON	L6L 6N5
EHS		Mainway	Burlington ON	
EHS		Mainway	Burlington ON	
EHS		Ironstone Drive	Burlington ON	
EHS		Burloak Dr	Burlington ON	
FCON	Amcast Industrial Limited and Mr. Peter Clothier		Burlinton ON	
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	
GEN	ANIMAL HOSPITAL OF RIVER OAKS	CHG UPPER MIDDLE ROAD WEST	OAKVILLE ON	L6H 1M2
GEN	INTERPROVINCIAL PIPE LINE INC.	LOT 35, CONCESSION 2 SOUTH OF DUNDAS STREET	OAKVILLE ON	
GEN	INTERPROVINCIAL PIPE LINE INC. 21-572	LOT 35, CONC.2 S. OF DUNDAS ST.	OAKVILLE ON	
GEN	VAC AERO International Incorporated Head Office	Mainway	Burlington ON	L7L 5N9
GEN	Trans Northern Pipelines Inc.	Between Concession 2 and 3, South of Dundas St	Oakville ON	L6J 4A8
GEN	Trans Northern Pipelines Inc.	Lot 3, Concession 2, South of Dundas	Oakville ON	L6J 7T1
GEN	VAC AERO International Incorporated Head Office	Mainway	Burlington ON	L7L 5N9

GEN	VAC AERO International Incorporated Head Office	Mainway	Burlington ON	L7L 5N9
GEN	VAC AERO International Incorporated Head Office	Mainway	Burlington ON	L7L 5N9
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	L6M 4J7
GEN	VAC AERO International Incorporated	Mainway	Burlington ON	L7L 5N9
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	L6M 4J7
GEN	VAC AERO International Incorporated	Mainway	Burlington ON	L7L 5N9
GEN	VAC AERO International Incorporated	Mainway	Burlington ON	L7L 5N9
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	L6M 4J7
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	
GEN	VAC AERO International Incorporated	Mainway	Burlington ON	
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	L6M 4J7
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	L6M 4J7
GEN	Enbridge Pipelines Inc	Lot 35 Conc. 1 SDS Burloak Drive	Oakville ON	
LIMO	Ralph Van der Meuler	Lot 4, Concession 1	Oakville ON	
PTTW	Enbridge Pipelines Inc.		ON	
PTTW	Burlington Springs Golf Course	Lots 1,2 Concession 2 CITY OF BURLINGTON	ON	
PTTW	Enbridge Pipelines Inc.		ON	
SCT	Straumann Canada Limited		ON	
SPL	BURLINGTON HYDRO-ELECTRIC COMM	TRANSFORMER	BURLINGTON CITY ON	
SPL	BURLINGTON HYDRO-ELECTRIC COMM	MOTOR VEHICLE (OPERATING FLUID)	BURLINGTON CITY ON	
SPL	IMPERIAL OIL	FORD TRUCK PLANT GASOLINE TANK AREA TANK TRUCK (CARGO)	OAKVILLE TOWN ON	

SPL		Mainway, East of Appleby Line	Burlington ON
SPL	Burlington Hydro		Burlington ON
SPL	Burlington Hydro Inc.		Burlington ON
SPL	Suncor Energy Inc.		Burlington ON
SPL	Metro Waste Paper Recovery Inc.	Appleby Line	Burlington ON
SPL	Zenon Environmental Inc.	Mainway Ave,	Burlington ON
WWIS		lot 3 con 2	ON
WWIS		lot 3 con 2	ON
WWIS		lot 3 con 2	ON
WWIS		lot 3 con 2	ON
WWIS		lot 3 con 2	ON
WWIS		lot 3 con 2	ON
WWIS		lot 2 con 1	ON
WWIS		lot 4	ON
WWIS		lot 4 con 2	ON
WWIS		con 1	ON
WWIS		lot 4 con 1	ON
WWIS		lot 5 con 1	ON
WWIS		lot 5 con 1	ON
WWIS		lot 5 con 1	ON
WWIS		lot 5 con 1	ON
WWIS		lot 2 con 1	ON
WWIS		lot 5 con 1	ON

WWIS	lot 5 con 2	ON
WWIS	lot 5 con 2	ON
WWIS	lot 2 con 1	ON
WWIS	lot 5 con 1	ON
WWIS	lot 5 con 1	ON
WWIS	lot 1 con 2	BURLINGTON ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	con 2	ON
WWIS	con 2	ON
WWIS	con 1	ON
WWIS	con 1	ON
WWIS	lot 3 con 2	ON
WWIS	lot 3 con 1	ON
WWIS	lot 3	ON
WWIS	lot 3	ON
WWIS	lot 3 con 2	ON
WWIS	lot 3 con 1	ON
WWIS	lot 3 con 2	ON

WWIS	lot 3 con 2	ON
WWIS	lot 5	ON
WWIS	lot 3 con 2	ON

Unplottable Report

Site:
Within the Right of Way of Appleby Line Burlington ON

Database: ***CA***

Certificate #:	7555-4TGS7R
Application Year:	01
Issue Date:	2/5/01
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Corporation of the Regional Municipality of Halton
Client Address:	1151 Bronte Road
Client City:	Oakville
Client Postal Code:	L6M 3L1
Project Description:	Installation of watermains on Appleby Line and Birett Drive in the City of Burlington.
Contaminants:	
Emission Control:	

Site: ***Falcon Boulevard Area***
Lot 2 and 3, Concession 1 Burlington ON

Database: ***CA***

Certificate #:	0292-57LHZN
Application Year:	02
Issue Date:	2/26/02
Approval Type:	Municipal & Private water
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	The Corporation of the Regional Municipality of Halton
Client Address:	1151 Bronte Road
Client City:	Oakville
Client Postal Code:	L6M 3L1
Project Description:	This application is for approval to install watermains in the Falcon Boulevard Area.
Contaminants:	
Emission Control:	

Site:
Upper Middle Road Oakville ON

Database: ***CA***

Certificate #:	4302-4MLKTG
Application Year:	00
Issue Date:	7/31/00
Approval Type:	Municipal & Private sewage
Status:	Approved
Application Type:	New Certificate of Approval
Client Name:	Corporation of the Town of Oakville
Client Address:	1225 Trafalgar Road, P.O. Box 310 Station Main
Client City:	Oakville
Client Postal Code:	L6J 5A6
Project Description:	Road reconstuction and installation of storm sewers and catch basins on Upper Middle Road from Fourth Line to 250m west of Postmaster Drive and Third Line from Glen Abbey Gate to Sandpiper Road.
Contaminants:	
Emission Control:	

Site: ***Mattamy Orchard East, Phase 2, 24T-95011/B(B)***
Dunmore Avenue Burlington ON

Database: ***CA***

Certificate #: 0761-4JRJVW
Application Year: 00
Issue Date: 4/28/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Mattamy Homes Limited
Client Address: 2360 Bristol Circle
Client City: Oakville
Client Postal Code: L6H 6M5
Project Description: Watermains
Contaminants:
Emission Control:

Site: ***Mattamy Orchard East, Phase 2, 24T-95011/B(B)***
Dunmore Avenue Burlington ON

Database: ***CA***

Certificate #: 6836-4JRJ7N
Application Year: 00
Issue Date: 4/28/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Mattamy Homes Limited
Client Address: 2360 Bristol Circle
Client City: Oakville
Client Postal Code: L6H 6M5
Project Description: Sanitary and Storm Sewers
Contaminants:
Emission Control:

Site:
Lot 4, Concession 2 Burlington ON

Database: ***CA***

Certificate #: 8395-5CKHLQ
Application Year: 02
Issue Date: 7/31/02
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Norjohn Business Park Inc.
Client Address: 2800 Thorold Townline Road R.R. #1
Client City: Niagara Falls
Client Postal Code: L2E 6S4
Project Description: This application is for the construction of watermains and appurtenances on Clay Avenue.
Contaminants:
Emission Control:

Site:
Lot 4, Concession 2 Burlington ON

Database: ***CA***

Certificate #: 5274-5CKHEV
Application Year: 02
Issue Date: 7/31/02
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Norjohn Business Park Inc.
Client Address: 2800 Thorold Townline Road R.R. #1
Client City: Niagara Falls
Client Postal Code: L2E 6S4
Project Description: This application is for the construction of sanitary and storm sewers on Clay Avenue.
Contaminants:
Emission Control:

Site: ***CENTRAL CANADA GROCERS INC.***
UPPER MIDDLE RD. BURLINGTON ON

Database: ***CA***

Certificate #: 3-0944-85-006
Application Year: 85
Issue Date: 8/14/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***REG.MUNIC.OF HALTON***
UPPER MIDDLE RD. OAKVILLE ON

Database: ***CA***

Certificate #: 7-0856-85-006
Application Year: 85
Issue Date: 10/4/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***OKINS LEIPCIGER CUPLINSKAS ETC.***
UPPER MIDDLE RD. OAKVILLE ON

Database: ***CA***

Certificate #: 3-0840-85-006
Application Year: 85
Issue Date: 8/13/85
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***REG. MUN. OF HALTON***
UPPER MIDDLE RD. BURLINGTON ON

Database: ***CA***

Certificate #: 7-0247-85-006
Application Year: 85
Issue Date: 4/30/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:

Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***REG.MUN.OF HALTON***
UPPER MIDDLE RD. EASMENT OAKVILLE ON

Database: ***CA***

Certificate #: 7-0149-85-006
Application Year: 85
Issue Date: 3/21/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***REG.MUN.OF HALTON***
UPPER MIDDLE RD. EASMENT OAKVILLE ON

Database: ***CA***

Certificate #: 7-0149-85-006
Application Year: 85
Issue Date: 3/21/85
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MATTAMY HOMES LTD.***
ORCHARD PH.9/UPPER MIDDLE RD. BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0572-99-
Application Year: 99
Issue Date: 7/22/1999
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MATTAMY HOMES LTD.***
UPPER MIDDLE RD.N.,PT.LOTS 1&2 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0910-99-

Application Year: 99
Issue Date: 9/14/1999
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MATTAMY HOMES LTD.***
ORCHARD PH.9/UPPER MIDDLE RD. BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0832-99-
Application Year: 99
Issue Date: 7/22/1999
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON, PUBLIC WORKS DEPT.***
UPPER MIDDLE RD. RES. & P.S. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 8-3263-99-
Application Year: 99
Issue Date: 9/9/1999
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: 1500KW EMERGENCY GENSET FOR RESERVOIR/PS
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
UPPER MIDDLE RD.RESERVOIR & PS OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 8-3120-97-
Application Year: 97
Issue Date: 3/17/1997
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: 30KW EMERGENCY GEN-SET FOR RES. & P.S.
Contaminants: Nitrogen Oxides
Emission Control:

Site: ***PALETTA INTERNATIONAL CORP.***
PT.LOT 5/C-2, SHELDON CREEK BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0598-97-
Application Year: 97
Issue Date: 6/2/1997
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PALETTA INTERNATIONAL CORP.***
PT.LOT 5/C-2, APPLEBY LINE BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0460-97-
Application Year: 97
Issue Date: 6/2/1997
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***RADIX INVESTMENTS LTD.***
LOT 2 CONC 1 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0210-96-
Application Year: 96
Issue Date: 4/1/1996
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***RADIX INVESTMENTS LTD.***
PART LOT 2 CONC 1 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0206-96-
Application Year: 96
Issue Date: 4/1/1996
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:

Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
UPPER MIDDLE RD. RESERVOIR/PS OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 7-0158-97-
Application Year: 97
Issue Date: 10/22/1997
Approval Type: Municipal water
Status: Revised
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PALETTA INTERNATIONAL CORP.***
PT.LOTS 4&5/C-2,SHELDON CK.PH2 BURLINGTON ON

Database: ***CA***

Certificate #: 3-1498-98-
Application Year: 98
Issue Date: 11/30/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***PALETTA INTERNATIONAL CORP.***
DES JARDINES DR./PORTER ST. BURLINGTON ON

Database: ***CA***

Certificate #: 3-1501-98-
Application Year: 98
Issue Date: 10/7/1998
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON APPLEBY LINE***
APPLEBY LINE BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0508-88-
Application Year: 88

Issue Date: 5/10/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
UPPER MIDDLE RD. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 7-1839-87-
Application Year: 87
Issue Date: 12/18/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
UPPER MIDDLE RD. BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0131-87-
Application Year: 87
Issue Date: 3/4/1987
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
APPLEBY LINE/LOT 5, CONC. 1 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0117-93-
Application Year: 93
Issue Date: 4/26/1993
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***FRAM BUILDING GROUP-SHELDON CREEK BUSINE***
JOHN LUCAS DR./LOTS 25 & 26 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0465-90-
Application Year: 90
Issue Date: 4/18/1990
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON UPPER MIDDLE RD.***
UPPER MIDDLE RD. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 7-0739-88-
Application Year: 88
Issue Date: 5/8/1989
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***ROCCA GROUP INC. TANSLEY TOWNHOUSE***
UPPER MIDDLE RD. BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-1693-88-
Application Year: 88
Issue Date: 10/24/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***COOPER CORPORATION LIMITED***
MAINWAY BUS. CENTRE BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0399-88-
Application Year: 88
Issue Date: 3/30/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:

Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
UPPER MIDDLE RD. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 7-1228-86-
Application Year: 86
Issue Date: 10/22/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON PR-973 WALKER'S LINE***
UPPER MIDDLE ROAD BURLINGTON CITY ON

Database: ***CA***

Certificate #: 7-0784-86-
Application Year: 86
Issue Date: 7/25/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R. M. OF HALTON***
UPPER MIDDLE RD. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 7-0098-86-
Application Year: 86
Issue Date: 3/3/1986
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***FRAM BUILDING GROUP-SHELDON CREEK BUSINE***
JOHN LUCAS DR./LOTS 25&26 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0560-90-
Application Year: 90
Issue Date: 4/18/1990

Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON PHASE 1***
UPPER MIDDLE RD. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 3-1397-89-
Application Year: 89
Issue Date: 7/27/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***D. GREENFIELD ASSOC. LTD.***
EASEMENT APPLEBY LINE BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0855-89-
Application Year: 89
Issue Date: 5/29/1989
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***ROCCA GROUP INC. TANSLEY TOWNHOUSES***
UPPER MIDDLE RD. BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-1993-88-
Application Year: 88
Issue Date: 10/24/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON APPLEBY LINE***
APPLEBY LINE BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-0572-88-
Application Year: 88
Issue Date: 5/10/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***MONARCH CONSTRUCTION LTD. MILLCROFT PH.I***
ROAD A UPPER MIDDLE RD. PART 1 BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-1056-86-
Application Year: 86
Issue Date: 7/28/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***N.H.D. DEVELOP.LTD.C/O THE SORBARA GROUP***
UPPER MIDDLE RD. PHASE I OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 3-0229-86-
Application Year: 86
Issue Date: 3/14/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***N.H.D. DEVELOPMENTS LTD.C/O SORBARA GRP.***
UPPER MIDDLE RD. PHASE I OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 3-0266-86-
Application Year: 86
Issue Date: 3/14/1986
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:

Project Description:
Contaminants:
Emission Control:

Site: ***R.M. OF HALTON***
UPPER MIDDLE ROAD BURLINGTON CITY ON

Database: ***CA***

Certificate #: 3-1271-87-
Application Year: 87
Issue Date: 7/18/1987
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***INTERPROVINCIAL PIPE LINE INC.***
PT.LOT 35/CON.2, DUNDAS ST.S. OAKVILLE TOWN ON

Database: ***CA***

Certificate #: 8-3463-94-
Application Year: 94
Issue Date: 10/31/1994
Approval Type: Industrial air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description: VENTING OF NITROGEN PIPE LINE
Contaminants: Methane (Incl. Hydrocarbons Expr. As Ch4
Emission Control: No Controls

Site: ***North Service Road Portfolio Inc.***
Lot 1, Conc. 1 Burlington ON

Database: ***CA***

Certificate #: 3353-8DVPAZ
Application Year: 2011
Issue Date: 2/22/2011
Approval Type: Industrial Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***RRL Burloak Inc.***
Oakville ON

Database: ***CA***

Certificate #: 9823-6R6QPT
Application Year: 2006
Issue Date: 7/20/2006
Approval Type: Municipal and Private Sewage Works

Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Paletta International Corporation***
Burlington ON

Database: ***CA***

Certificate #: 8894-5GPM8P
Application Year: 2002
Issue Date: 12/16/2002
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Monarch Construction Limited***
Burlington ON

Database: ***CA***

Certificate #: 8574-5TGKSQ
Application Year: 2003
Issue Date: 12/19/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Monarch Construction Limited***
Oakville ON

Database: ***CA***

Certificate #: 7488-5RUJ6V
Application Year: 2003
Issue Date: 9/30/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***The Regional Municipality of Halton***

Database: ***CA***

Upper Middle Road Oakville ON

Certificate #: 7133-5J222P
Application Year: 2003
Issue Date: 2/6/2003
Approval Type: Air
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***The Regional Municipality of Halton***
Upper Middle Road Oakville ON

Database: ***CA***

Certificate #: 6468-5FTQ82
Application Year: 2002
Issue Date: 11/15/2002
Approval Type: Municipal and Private Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***RRL Burloak Inc.***
Oakville ON

Database: ***CA***

Certificate #: 5688-6RLS3K
Application Year: 2006
Issue Date: 7/14/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***The Regional Municipality of Halton***
Appleby Line Burlington ON

Database: ***CA***

Certificate #: 4380-62LQKU
Application Year: 2004
Issue Date: 7/6/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:

Contaminants:
Emission Control:

Site: ***Norjohn Business Park Inc.***
Lot 4, Concession 2 Burlington ON

Database: ***CA***

Certificate #: 4034-5YHHFK
Application Year: 2004
Issue Date: 4/29/2004
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Bella Court Developments Limited***
Part of Lot 4, Concession 1, S.D.S. Burlington ON

Database: ***CA***

Certificate #: 3915-5FNPPP
Application Year: 2002
Issue Date: 11/8/2002
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Southcorp Canada Management Inc.***
Part of Lot 4, Concession 1, South of Dundas St Burlington ON

Database: ***CA***

Certificate #: 3798-5FNLUS
Application Year: 2002
Issue Date: 11/8/2002
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Dunster Investments Limited***
Burloak Drive and Block 9 Access Road Burlington ON

Database: ***CA***

Certificate #: 2962-5QEKCR
Application Year: 2003
Issue Date: 8/25/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved

Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Losani Homes (1998) Ltd.***
Part of Lot 4, Concession 1 Burlington ON

Database: ***CA***

Certificate #: 2120-5QDL8J
Application Year: 2003
Issue Date: 8/25/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***City of Burlington***
Upper Middle Road and Ironstone Drive Burlington ON

Database: ***CA***

Certificate #: 1985-7A4L2K
Application Year: 2008
Issue Date: 1/2/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Monarch Construction Limited***
Oakville ON

Database: ***CA***

Certificate #: 1365-5T2HMR
Application Year: 2003
Issue Date: 12/18/2003
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***City of Burlington***
Upper Middle Rd Burlington ON

Database: ***CA***

Certificate #: 0986-7D5HWL
Application Year: 2008
Issue Date: 3/28/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Suncor Energy Products Inc.***
Burlington ON

Database: ***CA***

Certificate #: 0845-6FHK5G
Application Year: 2007
Issue Date: 12/11/2007
Approval Type: Industrial Sewage Works
Status: Revoked and/or Replaced
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: ***Bronte Woods Community Subdivision***
Part of Lot 2, Concession 1 Burlington ON

Database: ***CA***

Certificate #: 7186-52ZR53
Application Year: 01
Issue Date: 10/9/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Tabera Limited
Client Address: 1810 Avenue Road
Client City: Toronto
Client Postal Code: M5M 3Z2
Project Description: Watermain construction on Street A, Street B, Street C, Street D and Street E.
Contaminants:
Emission Control:

Site: ***Bronte Woods Community Subdivision***
Part of Lot 2, Concession 1, SDS Burlington ON

Database: ***CA***

Certificate #: 0652-538JYL
Application Year: 01
Issue Date: 10/15/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Tabera Ltd.
Client Address: 1810 Avenue Road
Client City: Toronto
Client Postal Code: M5M 3Z2
Project Description: Stormwater Management Pond
Contaminants:

Emission Control:

Site: ***Bronte Woods Community Subdivision***
Part of Lot 2, Concession 1 Burlington ON

Database: ***CA***

Certificate #: 6825-52ZR8H
Application Year: 01
Issue Date: 10/15/01
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Tabera Limited
Client Address: 1810 Avenue Road
Client City: Toronto
Client Postal Code: M5M 3Z2
Project Description: Storm and sanitary sewer construction on Street A, Street B, Street C and Street D, sanitary sewers to be constructed on Street E, storm sewers to be constructed on Easement (west limit of subdivision to Street C) and storm outfall (from intersection with Street C to Pond).
Contaminants:
Emission Control:

Site:
lot 4 and lot 5, Concession 1 & 2, SDS Burlington ON

Database: ***CA***

Certificate #: 8780-4LGQG4
Application Year: 00
Issue Date: 6/21/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation Of The City Of Burlington
Client Address: P.O. Box 5013, 426 Brant Street
Client City: Burlington
Client Postal Code: L7R 3Z6
Project Description: Extension of existing 965mm x 1625mm storm sewer from existing outlet to proposed culvert, and construction of new storm sewer and catchbasins along Upper Middle Road (from Appleby Line to Orchard Road).
Contaminants:
Emission Control:

Site: ***Bronte Woods Community Subdivision***
Part of Lot 3, Concession 1 Burlington ON

Database: ***CA***

Certificate #: 3181-54GQU5
Application Year: 01
Issue Date: 11/16/01
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: 1374151 Ontario Inc.
Client Address: 2398 Headon Road
Client City: Burlington
Client Postal Code: L7M 3Y3
Project Description: watermain construction
Contaminants:
Emission Control:

Site: ***Bronte Woods Community Subdivision***
Part of Lot 3, Concession 1 Burlington ON

Database: ***CA***

Certificate #: 4293-54MQ8P
Application Year: 01
Issue Date: 11/22/01
Approval Type: Municipal & Private sewage

Status: Approved
Application Type: New Certificate of Approval
Client Name: 1374151 Ontario Inc.
Client Address: 2398 Headon Road
Client City: Burlington
Client Postal Code: L7M 3Y3
Project Description: storm and sanitary sewer construction
Contaminants:
Emission Control:

Site: ***404072 Ontario Limited***
Lot 4 Concession 1 Conc Oakville ON L9T 8Z4

Database: ***ECA***

Approval No: 2979-CHMKP8
Approval Date: September 16, 2022
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District: North Bay
City:
Longitude:
Latitude:
Geometry X: -9016878.7543000001
Geometry Y: 5700582.7322999965
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: 404072 Ontario Limited
Address: Lot 4 Concession 1 Conc
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4045-CHDJEU-14.pdf
PDF Site Location: Petgor Phase 2 Block 263 Development
Lot 4 Concession 1
Town of Oakville, Regional Municipality of Halton

Site: ***Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.***
Various locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No: 7737-9W2KCW
Approval Date: 2015-05-05
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.
Address: Various locations in Ontario
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6016-9KAJMN-14.pdf
PDF Site Location:

Site: ***City of Burlington***
Upper Middle Rd Burlington ON L7R 3Z6

Database: ***ECA***

Approval No: 0986-7D5HWL
Approval Date: 2008-03-28
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: City of Burlington
Address: Upper Middle Rd
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/6541-7CPHU4-14.pdf
PDF Site Location:

Site: ***The Regional Municipality of Halton***
Appleby Line Burlington ON L6M 3L1

Database: ***ECA***

Approval No:	4380-62LQKU	***MOE District:***	
Approval Date:	2004-07-06	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	The Regional Municipality of Halton		
Address:	Appleby Line		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/9635-623QN5-14.pdf		
PDF Site Location:			

Site: ***Tabera Ltd.***
Part of Lot 2, Concession 1, SDS Burlington ON M5M 3Z2

Database: ***ECA***

Approval No:	0652-538JYL	***MOE District:***	
Approval Date:	2001-10-15	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Tabera Ltd.		
Address:	Part of Lot 2, Concession 1, SDS		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/1970-52SNRS-14.pdf		
PDF Site Location:			

Site: ***The Regional Municipality of Halton***
Within the Right of Way of Appleby Line Burlington ON L6M 3L1

Database: ***ECA***

Approval No:	7555-4TGS7R	***MOE District:***	
Approval Date:	2001-02-05	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Business Name:	The Regional Municipality of Halton		
Address:	Within the Right of Way of Appleby Line		
Full Address:			
Full PDF Link:			
PDF Site Location:			

Site: ***Dunster Investments Limited***
Burloak Drive and Block 9 Access Road Burlington ON M3H 5V3

Database: ***ECA***

Approval No:	2962-5QEKCR	***MOE District:***	
Approval Date:	2003-08-25	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Dunster Investments Limited		

Address: Burloak Drive and Block 9 Access Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8535-5Q6LW9-14.pdf
PDF Site Location:

Site: ***The Regional Municipality of Halton***
Appleby Line Burlington ON L6M 3L1

Database: ***ECA***

Approval No: 8170-5Y9RZU
Approval Date: 2004-04-23
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: The Regional Municipality of Halton
Address: Appleby Line
Full Address:
Full PDF Link:
PDF Site Location:

Site: ***Dunster Investments Limited***
Burloak Drive and Block 9 Access Road Burlington ON M3H 5V3

Database: ***ECA***

Approval No: 3401-5QEKY3
Approval Date: 2003-08-25
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: Dunster Investments Limited
Address: Burloak Drive and Block 9 Access Road
Full Address:
Full PDF Link:
PDF Site Location:

Site: ***Melrose Investments Inc.***
South of Dundas Street Oakville ON L6J 0A7

Database: ***ECA***

Approval No: 2513-9BHJA5
Approval Date: 2013-09-30
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Melrose Investments Inc.
Address: South of Dundas Street
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/3399-9B9J9E-14.pdf
PDF Site Location:

Site: ***Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.***
Various locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No: 8007-9W2J9W
Approval Date: 2015-05-05
Status: Revoked and/or Replaced
MOE District:
City:
Longitude:

Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.
Address: Various locations in Ontario
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8589-9KAJYF-14.pdf
PDF Site Location:
Latitude:
Geometry X:
Geometry Y:

Site: ***Bella Court Developments Limited***
Part of Lot 4, Concession 1, S.D.S. Burlington ON L7N 3P2

Database: ***ECA***

Approval No: 3915-5FNPPP
Approval Date: 2002-11-08
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: Bella Court Developments Limited
Address: Part of Lot 4, Concession 1, S.D.S.
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1468-5FMUHE-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***The Regional Municipality of Halton***
Sutton Drive from Mainway to Upper Middle Road Burlington ON L6M 3L1

Database: ***ECA***

Approval No: 1714-4H7QNE
Approval Date: 2000-03-09
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Regional Municipality of Halton
Address: Sutton Drive from Mainway to Upper Middle Road
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5517-4GBT77-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***Suncor Energy Inc.***
Various locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No: 8558-AAHJMW
Approval Date: 2016-07-22
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Suncor Energy Inc.
Address: Various locations in Ontario
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7637-A67RNM-14.pdf
PDF Site Location:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:

Site: ***Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.***
Various Locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No:	0828-9DGMQK	***MOE District:***	
Approval Date:	2013-11-26	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-INDUSTRIAL SEWAGE WORKS		
Project Type:	INDUSTRIAL SEWAGE WORKS		
Business Name:	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.		
Address:	Various Locations in Ontario		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/1381-9ALR6V-14.pdf		
PDF Site Location:			

Site: ***Melrose Investments Inc.***
Oakville ON L6J 0A7

Database: ***ECA***

Approval No:	4152-9EKM2H	***MOE District:***	
Approval Date:	2014-01-21	***City:***	
Status:	Approved	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Melrose Investments Inc.		
Address:			
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/4590-9CWHQR-14.pdf		
PDF Site Location:			

Site: ***Suncor Energy Inc.***
Various Locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No:	3551-9CBRQP	***MOE District:***	
Approval Date:	2013-10-31	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-INDUSTRIAL SEWAGE WORKS		
Project Type:	INDUSTRIAL SEWAGE WORKS		
Business Name:	Suncor Energy Inc.		
Address:	Various Locations in Ontario		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6352-9ADQSN-14.pdf		
PDF Site Location:			

Site: ***Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.***
Various Locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No:	3352-9A3GTX	***MOE District:***	
Approval Date:	2013-07-30	***City:***	
Status:	Revoked and/or Replaced	***Longitude:***	
Record Type:	ECA	***Latitude:***	
Link Source:	IDS	***Geometry X:***	
SWP Area Name:		***Geometry Y:***	
Approval Type:	ECA-INDUSTRIAL SEWAGE WORKS		
Project Type:	INDUSTRIAL SEWAGE WORKS		
Business Name:	Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.		
Address:	Various Locations in Ontario		

Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/0006-94QQ48-14.pdf
PDF Site Location:

Site: ***Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.***
Various locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No: 8054-AWEQVH
Approval Date: 2018-03-01
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.
Address: Various locations in Ontario
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7140-AQ9KMN-14.pdf
PDF Site Location:

Site: ***The Regional Municipality of Halton***
Appleby Line Burlington ON L6M 3L1

Database: ***ECA***

Approval No: 7967-5NTPCY
Approval Date: 2003-06-25
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-Municipal Drinking Water Systems
Project Type: Municipal Drinking Water Systems
Business Name: The Regional Municipality of Halton
Address: Appleby Line
Full Address:
Full PDF Link:
PDF Site Location:

Site: ***Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.***
Various Locations in Ontario Oakville ON L6L 6N5

Database: ***ECA***

Approval No: 4635-98ULLG
Approval Date: 2013-06-24
Status: Revoked and/or Replaced
Record Type: ECA
Link Source: IDS
SWP Area Name:
MOE District:
City:
Longitude:
Latitude:
Geometry X:
Geometry Y:
Approval Type: ECA-INDUSTRIAL SEWAGE WORKS
Project Type: INDUSTRIAL SEWAGE WORKS
Business Name: Suncor Energy Inc., Suncor Energy Products Inc., and 1277136 Alberta Ltd.
Address: Various Locations in Ontario
Full Address:
Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8881-94QQB7-14.pdf
PDF Site Location:

Site:
Mainway Burlington ON

Database: ***EHS***

Order No: 20111123010
Status: C
Report Type: Custom Report
Report Date: 11/24/2011
Nearest Intersection:
Municipality:
Client Prov/State: ON
Search Radius (km): 0.25

Date Received:	11/23/2011 11:13:03 AM	***X:***	-79.771198
Previous Site Name:		***Y:***	1
Lot/Building Size:			
Additional Info Ordered:			

Site: ***Database:***
EHS

Mainway Burlington ON

Order No:	20111108016	***Nearest Intersection:***	
Status:	C	***Municipality:***	
Report Type:	Custom Report	***Client Prov/State:***	ON
Report Date:	11/16/2011	***Search Radius (km):***	0.25
Date Received:	11/8/2011	***X:***	-79.76883
Previous Site Name:		***Y:***	43.39215
Lot/Building Size:			
Additional Info Ordered:			

Site: ***Database:***
EHS

Ironstone Drive Burlington ON

Order No:	20040521016	***Nearest Intersection:***	Southwest corner of Appleby Lane and Ironstone Drive
Status:	C	***Municipality:***	
Report Type:	Complete Report	***Client Prov/State:***	OH
Report Date:	6/2/04	***Search Radius (km):***	0.50
Date Received:	5/21/04	***X:***	-79.788409
Previous Site Name:		***Y:***	43.391307
Lot/Building Size:	8.8 acres		
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans		

Site: ***Database:***
EHS

Burloak Dr Burlington ON

Order No:	20020919011	***Nearest Intersection:***	north of Prince William Dr
Status:	C	***Municipality:***	
Report Type:	Custom Report	***Client Prov/State:***	ON
Report Date:	9/27/02	***Search Radius (km):***	0.45
Date Received:	9/19/02	***X:***	-79.750026
Previous Site Name:		***Y:***	43.388864
Lot/Building Size:			
Additional Info Ordered:			

Site: ***Amcast Industrial Limited and Mr. Peter Clothier*** ***Database:***
Burlinton ON ***FCON***

Mailing Address:	Burlington, ON
Offence Date:	1993-1995
Offence:	CEPA 7 Counts: Ozone-depleting Substances Products Regulations. Alleged illegal sale of a product containing restricted ozone-depleting substances (SCC20 Switch and Contact Cleaner containing CFC 113)
Status:	For Plea
Offence Location:	
Date Charged:	96/05/15
Court Date:	96/08/14
Penalty:	
Result:	
Notes:	

Site: ***Enbridge Pipelines Inc*** ***Database:***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON ***GEN***

Generator No:	ON4049679

SIC Code: 486110
SIC Description: Pipeline Transportation of Crude Oil
Approval Years: 2010
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***ANIMAL HOSPITAL OF RIVER OAKS***
CHG UPPER MIDDLE ROAD WEST OAKVILLE ON L6H 1M2

Database: ***GEN***

Generator No: ON1964800
SIC Code: 0211
SIC Description: VETERINARY SERVICE
Approval Years: 96,97,98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 264
Waste Class Name: PHOTOPROCESSING WASTES

Site: ***INTERPROVINCIAL PIPE LINE INC.***
LOT 35, CONCESSION 2 SOUTH OF DUNDAS STREET OAKVILLE ON

Database: ***GEN***

Generator No: ON0102612
SIC Code: 4612
SIC Description: OIL PIPELINE TRANS.
Approval Years: 98
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***INTERPROVINCIAL PIPE LINE INC. 21-572***
LOT 35, CONC.2 S. OF DUNDAS ST. OAKVILLE ON

Database: ***GEN***

Generator No: ON0102612
SIC Code: 4612
SIC Description: OIL PIPELINE TRANS.
Approval Years: 92,93,94,95,96,97
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***VAC AERO International Incorporated Head Office***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code:
SIC Description:
Approval Years: As of Oct 2022
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211 H
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 145 I
Waste Class Name: PAINT/PIGMENT/COATING RESIDUES

Waste Class: 213 I
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 252 L
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***Trans Northern Pipelines Inc.***
Between Concession 2 and 3, South of Dundas St Oakville ON L6J 4A8

Database: ***GEN***

Generator No: ON7768663
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:

MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

---

Site: ***Trans Northern Pipelines Inc.***
Lot 3, Concession 2, South of Dundas Oakville ON L6J 7T1

Database: ***GEN***

Generator No: ON3030409
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146 L
Waste Class Name: Other specified inorganic sludges, slurries or solids

---

Site: ***VAC AERO International Incorporated Head Office***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code:
SIC Description:
Approval Years: As of Nov 2021
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 211 H
Waste Class Name: Aromatic solvents and residues

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Site: ***VAC AERO International Incorporated Head Office***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code:
SIC Description:

Approval Years: As of Jul 2020
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 211 H
Waste Class Name: Aromatic solvents and residues

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

---

Site: ***VAC AERO International Incorporated Head Office***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code:
SIC Description:
Approval Years: As of Dec 2018
PO Box No:
Country: Canada
Status: Registered
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 145 I
Waste Class Name: Wastes from the use of pigments, coatings and paints

Waste Class: 211 H
Waste Class Name: Aromatic solvents and residues

Waste Class: 213 I
Waste Class Name: Petroleum distillates

Waste Class: 252 L
Waste Class Name: Waste crankcase oils and lubricants

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON L6M 4J7

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: PIPELINE TRANSPORTATION OF CRUDE OIL
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL

Phone No Admin:
Contaminated Facility: Yes
MHSW Facility: No

Detail(s)

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Site: ***VAC AERO International Incorporated***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code: 333990
SIC Description: ALL OTHER GENERAL-PURPOSE MACHINERY MANUFACTURING
Approval Years: 2014
PO Box No:
Country: Canada
Status:
Co Admin: Wade Maloney
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905 336 0673 Ext.127
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON L6M 4J7

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: PIPELINE TRANSPORTATION OF CRUDE OIL
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: Yes
MHSW Facility: No

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***VAC AERO International Incorporated***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code: 333990
SIC Description: ALL OTHER GENERAL-PURPOSE MACHINERY MANUFACTURING
Approval Years: 2016
PO Box No:
Country: Canada
Status:
Co Admin: Wade Maloney
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905 336 0673 Ext.127
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***VAC AERO International Incorporated***
Mainway Burlington ON L7L 5N9

Database: ***GEN***

Generator No: ON8346163
SIC Code: 333990
SIC Description: ALL OTHER GENERAL-PURPOSE MACHINERY MANUFACTURING
Approval Years: 2015
PO Box No:
Country: Canada
Status:
Co Admin: Wade Maloney
Choice of Contact: CO_OFFICIAL
Phone No Admin: 905 336 0673 Ext.127
Contaminated Facility: No
MHSW Facility: No

Detail(s)

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON L6M 4J7

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: PIPELINE TRANSPORTATION OF CRUDE OIL
Approval Years: 2016

PO Box No:
Country: Canada
Status:
Co Admin:
Choice of Contact: CO_OFFICIAL
Phone No Admin:
Contaminated Facility: Yes
MHSW Facility: No

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: PIPELINE TRANSPORTATION OF CRUDE OIL
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***VAC AERO International Incorporated***
Mainway Burlington ON

Database: ***GEN***

Generator No: ON8346163
SIC Code: 333990
SIC Description: ALL OTHER GENERAL-PURPOSE MACHINERY MANUFACTURING
Approval Years: 2013
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 213
Waste Class Name: PETROLEUM DISTILLATES

Waste Class: 211
Waste Class Name: AROMATIC SOLVENTS

Waste Class: 252
Waste Class Name: WASTE OILS & LUBRICANTS

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON L6M 4J7

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: Pipeline Transportation of Crude Oil
Approval Years: 2012
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: Pipeline Transportation of Crude Oil
Approval Years: 2011
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON L6M 4J7

Database: ***GEN***

Generator No: ON4049679
SIC Code:
SIC Description:
Approval Years: 02,03,04,05,06,07,08
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Site: ***Enbridge Pipelines Inc***
Lot 35 Conc. 1 SDS Burloak Drive Oakville ON

Database: ***GEN***

Generator No: ON4049679
SIC Code: 486110
SIC Description: Pipeline Transportation of Crude Oil
Approval Years: 2009
PO Box No:
Country:
Status:
Co Admin:
Choice of Contact:
Phone No Admin:
Contaminated Facility:
MHSW Facility:

Detail(s)

Waste Class: 146
Waste Class Name: OTHER SPECIFIED INORGANICS

Waste Class: 251
Waste Class Name: OIL SKIMMINGS & SLUDGES

Waste Class: 254
Waste Class Name: TRANSFER STATION OILS WASTES

Site: ***Ralph Van der Meuler***
Lot 4, Concession 1 Oakville ON

Database: ***LIMO***

ECA/Instrument No: A210404
Operation Status: Closed
C of A Issue Date:
C of A Issued to:
Lndfl Gas Mgmt (P):
Lndfl Gas Mgmt (F):
Lndfl Gas Mgmt (E):
Lndfl Gas Mgmt Sys:
Landfill Gas Mntr:
Leachate Coll Sys:
ERC Est Vol (m3):
Natural Attenuation:
Liners:
Cover Material:
Leachate Off-Site:
Leachate On Site:
Req Coll Lndfll Gas:
Lndfll Gas Coll:
Total Waste Rec:
TWR Methodology:
TWR Unit:
Tot Aprv Cap Unit:

ERC Volume Unit:		***Financial Assurance:***	
ERC Dt Last Det:		***Last Report Year:***	
Landfill Type:		***Region:***	Central
Source File Type:		***District Office:***	Halton-Peel
Fill Rate:		***Site County:***	
Fill Rate Unit:		***Lot:***	
Tot Fill Area (ha):		***Concession:***	
Tot Site Area (ha):		***Latitude:***	
Footprint:		***Longitude:***	
Tot Apprv Cap (m3):		***Easting:***	
Contam Atten Zone:		***Northing:***	
Grndwtr Mntr:		***UTM Zone:***	
Surf Wtr Mntr:		***Data Source:***	
Air Emis Monitor:			
Approved Waste Type:			
Client Site Name:			
ERC Methodology:			
Site Name:	Ralph Van der Meuler		
Site Location Details:			
Service Area:			
Page URL:			

Site: ***Enbridge Pipelines Inc.***
ON

Database: ***PTTW***

EBR Registry No:	013-4308	***Decision Posted:***	
Ministry Ref No:	4020-B6NLWC	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	March 08, 2019	***Act 2:***	
Proposal Date:	December 12, 2018	***Site Location Map:***	
Year:	2018		
Instrument Type:	Permit to Take Water - OWRA s. 34		
Off Instrument Name:			
Posted By:			
Company Name:			
Site Address:			
Location Other:			
Proponent Name:	Enbridge Pipelines Inc.		
Proponent Address:	10175-101 Street Northwest Edmonton Alberta Canada T5J 0H3		
Comment Period:			
URL:	http://www.ebr.gov.on.ca/ERS-WEB-External/displaynoticecontent.do?noticeId=MTM2NzM2&statusId=MjA5NTM4&language=en		

Site Location Details:

Enbridge Integrity Dig Sites (MP 1887.0059 to MP 1895.1845)
Lot: 2 to 7, Concession: Range 4 North of Dundas Street, Lot: 1 to 2 and 7 to 8, Concession: Range 5 North of Dundas Street, Lot: 11 to 24 and 31 to 35, Concession: 2 North of Dundas Street, Geographic Township of TORONTO, City of Mississauga, Regional Municipality of Peel
Lot: 1 to 7, Concession: 2 North of Dundas Street, Geographic Township of TRAFALGAR, Town of Oakville, Regional Municipality of Halton
TORONTO
TRAFALGAR

Site: ***Burlington Springs Golf Course***
Lots 1,2 Concession 2 CITY OF BURLINGTON ON

Database: ***PTTW***

EBR Registry No:	IA00E1515	***Decision Posted:***	
Ministry Ref No:	00-P-3072	***Exception Posted:***	
Notice Type:	Instrument Decision	***Section:***	
Notice Stage:		***Act 1:***	
Notice Date:	March 14, 2003	***Act 2:***	
Proposal Date:	September 20, 2000	***Site Location Map:***	
Year:	2000		
Instrument Type:	(OWRA s. 34) - Permit to Take Water		
Off Instrument Name:			

Posted By:
Company Name: Burlington Springs Golf Course
Site Address:
Location Other:
Proponent Name:
Proponent Address: 4235 Cedar Springs Road, R.R. #3, Campbellville Ontario, L0R 1B0
Comment Period:
URL:

Site Location Details:

Lots 1,2 Concession 2 CITY OF BURLINGTON

Site: ***Enbridge Pipelines Inc.***
ON

Database: ***PTTW***

EBR Registry No: 013-4200
Ministry Ref No: 7776-B6QMBU
Notice Type: Instrument Decision
Notice Stage:
Notice Date: March 08, 2019
Proposal Date: November 28, 2018
Year: 2018
Instrument Type: Permit to Take Water - OWRA s. 34
Off Instrument Name:
Posted By:
Company Name:
Site Address:
Location Other:
Proponent Name: Enbridge Pipelines Inc.
Proponent Address: 10130 103 Street Northwest Edmonton Alberta Canada T5J 3N7
Comment Period:
URL: http://www.ebr.gov.on.ca/ERS-WEB-External/displaynoticecontent.do?noticeId=MTM2NjMz&statusId=MjA5NTM2&language=en

Decision Posted:
Exception Posted:
Section:
Act 1:
Act 2:
Site Location Map:

Site Location Details:

Integrity Dig Sites MP 1873.5348 to MP 1887.0059
Lots 1 to 3, Concession 2 North of Dundas Street
Town of Milton, Regional Municipality of Halton
Integrity Dig Sites MP 1873.5348 to MP 1887.0059
Lots 21 to 28, Concession 2 North of Dundas Street
Town of Oakville, Regional Municipality of Halton
Integrity Dig Sites MP 1873.5348 to MP 1887.0059
Lots 7 to 20 and 29 and 30, Concession 2
Town of Milton, Regional Municipality of Halton
Integrity Dig Sites MP 1873.5348 to MP 1887.0059
Lots 4 to 24, Concession 2 North of Dundas Street
City of Burlington, Regional Municipality of Halton
Integrity Dig Sites MP 1873.5348 to MP 1887.0059
Lot 31 to 35, Concession 2 North of Dundas Street
Town of Milton, Regional Municipality of Halton
CITY OF BURLINGTON
TOWN OF MILTON
TOWN OF OAKVILLE

Site: ***Straumann Canada Limited***
ON

Database: ***SCT***

Established: 1993
Plant Size (ft²):
Employment: 8

--Details--
Description: Professional Machinery, Equipment and Supplies Wholesaler-Distributors
SIC/NAICS Code: 417930

Site: ***BURLINGTON HYDRO-ELECTRIC COMM TRANSFORMER BURLINGTON CITY ON***

Database: ***SPL***

Ref No: 159820
Year:
Incident Dt: 9/6/1998
Dt MOE Arvl on Scn:
MOE Reported Dt: 9/6/1998
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: BURLINGTON CITY
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: COOLING SYSTEM LEAK
Incident Preceding Spill:
Environment Impact: NOT ANTICIPATED
Health Env Consequence:
Nature of Impact:
Contaminant Qty:
System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: OVERSTRESS/OVERPRESSURE
Incident Summary: BURLINGTON HYDRO-<127L TRANSFORMER OIL TO VAULT.CHLOR-N-OIL POSITIVE.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:

Municipality No: 14101
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site: ***BURLINGTON HYDRO-ELECTRIC COMM MOTOR VEHICLE (OPERATING FLUID) BURLINGTON CITY ON***

Database: ***SPL***

Ref No: 68601
Year:
Incident Dt: 3/19/1992
Dt MOE Arvl on Scn:
MOE Reported Dt: 3/19/1992
Dt Document Closed:
Site No:
MOE Response:
Site County/District:

Municipality No: 14101
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: BURLINGTON CITY
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: PIPE/HOSE LEAK
Incident Preceding Spill:
Environment Impact: NOT ANTICIPATED
Health Env Consequence:
Nature of Impact:
Contaminant Qty:
System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: OVERSTRESS/OVERPRESSURE
Incident Summary: BACKENTRY BURLINGTON HYDRO - 15 L. OF HYDRAULIC FLUID TO GROUND
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:

Site: ***IMPERIAL OIL***
FORD TRUCK PLANT GASOLINE TANK AREA TANK TRUCK (CARGO) OAKVILLE TOWN ON

Database: ***SPL***

Ref No: 3118
Year:
Incident Dt: 5/2/1988
Dt MOE Arvl on Scn:
MOE Reported Dt: 5/2/1988
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name:
Site Address:
Site Region:
Site Municipality: OAKVILLE TOWN
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: CONTAINER OVERFLOW
Incident Preceding Spill:
Environment Impact:
Health Env Consequence:

Municipality No: 14403
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Nature of Impact:
Contaminant Qty:
System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: LAND
Incident Reason: ERROR
Incident Summary: IMPERIAL OIL - 2700 L. GASOLINE TO SUMP AREA AT FORD TRUCK PLANT
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:

Site:
Mainway, East of Appleby Line Burlington ON

Database: ***SPL***

Ref No: 8713-AB9RLC
Year:
Incident Dt: 2016/06/25
Dt MOE Arvl on Scn:
MOE Reported Dt: 2016/06/25
Dt Document Closed: 2016/07/14
Site No: NA
MOE Response: No
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: Manhole #MH7550<UNOFFICIAL>
Site Address: Mainway, East of Appleby Line
Site Region:
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause:
Incident Preceding Spill: Overflow/Surcharge
Environment Impact:
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 0.5 m^3
System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code: 44
Contaminant Name: SEWAGE,RAW UNCHLORINATED
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Surface Water
Incident Reason: Blockage
Incident Summary: Region of Halton: 0.5m3 Raw Swg to CB and Road. Cleaned.
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Sector Type: Municipal Sewage
SAC Action Class: Land Spills
Call Report Locatn Geodata:

Site: ***Burlington Hydro***
Burlington ON

Database: ***SPL***

Ref No: 4840-9HPLMJ
Year:
Incident Dt: 2014/03/29
Dt MOE Arvl on Scn:
MOE Reported Dt: 2014/03/30
Dt Document Closed: 2014/06/05
Site No: NA
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: 2270 Headon Forest Drive, Burlington<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Leak/Break
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Soil Contamination; Surface Water Pollution
Contaminant Qty: 100 L
System Facility Address:
Client Name: Burlington Hydro
Client Type:
Source Type:
Contaminant Code: 15
Contaminant Name: TRANSFORMER OIL (N.O.S.)
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Incident Reason: Operator/Human Error
Incident Summary: Burlington Hydro: transformer oil to ground
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Transformer
SAC Action Class: Land Spills
Call Report Locatn Geodata:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site: ***Burlington Hydro Inc.***
Burlington ON

Database: ***SPL***

Ref No: 7656-8XMP7Q
Year:
Incident Dt: 29-AUG-12
Dt MOE Arvl on Scn:
MOE Reported Dt: 29-AUG-12
Dt Document Closed: 29-OCT-12
Site No:
MOE Response: No Field Response
Site County/District:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: 2185 Fairchild Road<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Other Discharges
Incident Preceding Spill:
Environment Impact: Not Anticipated
Health Env Consequence:
Nature of Impact: Other Impact(s)
Contaminant Qty: 10 L
System Facility Address:
Client Name: Burlington Hydro Inc.
Client Type:
Source Type:
Contaminant Code: 13
Contaminant Name: MINERAL OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Incident Reason: Spill
Incident Summary: Burlington Hydro: 5-10 l of mineral oil to grnd, clning
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Transformer
SAC Action Class: Land Spills
Call Report Locatn Geodata:

Site: ***Suncor Energy Inc.***
Burlington ON

Database: ***SPL***

Ref No: 1818-8GCHYZ
Year:
Incident Dt: 4/28/2011
Dt MOE Arvl on Scn:
MOE Reported Dt: 4/28/2011
Dt Document Closed: 5/19/2011
Site No:
Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: Corner of Appleby and Dundas<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Other Transport Accident
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:

Nature of Impact: Soil Contamination
Contaminant Qty: 7000 L
System Facility Address:
Client Name: Suncor Energy Inc.
Client Type:
Source Type:
Contaminant Code: 12
Contaminant Name: GASOLINE
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Incident Reason: Spill
Incident Summary: SIMULATION: Suncor spill of 7000 L of gasoline to road/land
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type: Tank Truck
SAC Action Class: Land Spills
Call Report Locatn Geodata:

Site: ***Metro Waste Paper Recovery Inc.***
Appleby Line Burlington ON

Database: ***SPL***

Ref No: 7027-87UNN3
Year:
Incident Dt:
Dt MOE Arvl on Scn:
MOE Reported Dt: 7/30/2010
Dt Document Closed:
Site No:
MOE Response: No Field Response
Site County/District:
Site Geo Ref Meth:
Site District Office:
Nearest Watercourse:
Site Name: Appleby Line<UNOFFICIAL>
Site Address:
Site Region:
Site Municipality:
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause:
Incident Preceding Spill:
Environment Impact: Not Anticipated
Health Env Consequence:
Nature of Impact:
Contaminant Qty: 125 L
System Facility Address:
Client Name:
Client Type:
Source Type:
Contaminant Code: 15
Contaminant Name: HYDRAULIC OIL
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium:
Incident Reason:
Incident Summary: QEW E/Appleby Line: hydraulic oil to road/drain
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:

Municipality No:
Nature of Damage:
Discharger Report:
Material Group:
Impact to Health:
Agency Involved:

Sector Type:
SAC Action Class: Land Spills
Call Report Locatn Geodata:

Site: ***Zenon Environmental Inc.***
Mainway Ave, Burlington ON

Database: ***SPL***

Ref No: 4442-67746L
Year:
Incident Dt: 11/26/2004
Dt MOE Arvl on Scn:
MOE Reported Dt: 11/28/2004
Dt Document Closed:
Site No:
MOE Response:
Site County/District:
Site Geo Ref Meth:
Site District Office: Halton-Peel
Nearest Watercourse:
Site Name: ZENON ENVIRONMENTAL - PRODUCTION PLANT<UNOFFICIAL>
Site Address:
Site Region: Central
Site Municipality: Burlington
Site Lot:
Site Conc:
Site Geo Ref Accu:
Site Map Datum:
Northing:
Easting:
Incident Cause: Other Discharges
Incident Preceding Spill:
Environment Impact: Confirmed
Health Env Consequence:
Nature of Impact: Human Health/Safety; Other Impact(s); Soil Contamination
Contaminant Qty:
System Facility Address:
Client Name: Zenon Environmental Inc.
Client Type:
Source Type:
Contaminant Code:
Contaminant Name:
Contaminant Limit 1:
Contam Limit Freq 1:
Contaminant UN No 1:
Receiving Medium: Land
Incident Reason:
Incident Summary: Hotline: Unkn Sub from Zenon, Stained Cars
Activity Preceding Spill:
Property 2nd Watershed:
Property Tertiary Watershed:
Sector Type:
SAC Action Class:
Call Report Locatn Geodata:

Site:
lot 3 con 2 ON

Database: ***WWIS***

Well ID: 2809158
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54154
Tag:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1

Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155415	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	01/28/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931454460
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	42.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933140508
Layer:	1
Plug From:	0.0
Plug To:	25.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	962809158
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	10703985
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930264474
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	3.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933339083
Layer:	1
Slot:	
Screen Top Depth:	27.0
Screen End Depth:	42.0
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	992809158
Pump Set At:	
Static Level:	22.0
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933613319
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	22.0
Water Found Depth UOM:	ft

Site:
lot 3 con 2 ON

Database:
WWIS

Well ID: 2809156
Construction Date:

Flowing (Y/N):
Flow Rate:

Use 1st:	Not Used	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Observation Wells	***Date Received:***	04/18/2000
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	54151	***Contractor:***	1129
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155413	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	01/25/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931454458
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	56.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933140506
Layer:	1
Plug From:	0.0
Plug To:	33.0
Plug Depth UOM:	ft

Method of Construction & Well

Use

Method Construction ID: 962809156
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703983
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264472
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339081
Layer: 1
Slot:
Screen Top Depth: 36.0
Screen End Depth: 56.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809156
Pump Set At:
Static Level: 27.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613317
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 27.0

Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database:
WWIS

Well ID:	2809155	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Not Used	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Observation Wells	***Date Received:***	04/18/2000
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	54150	***Contractor:***	1129
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155412	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	01/19/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931454457
Layer:	1
Color:	7
General Color:	RED
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	61.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140505

Layer: 1
Plug From: 0.0
Plug To: 39.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809155
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703982
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264471
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339080
Layer: 1
Slot:
Screen Top Depth: 41.0
Screen End Depth: 61.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809155
Pump Set At:
Static Level: 30.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID:	933613316
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	30.0
Water Found Depth UOM:	ft

Site:
lot 3 con 2 ON

Database:
WWIS

Well ID:	2809154	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Not Used	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Observation Wells	***Date Received:***	04/18/2000
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	54148	***Contractor:***	1129
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155411	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	01/10/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931454456
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0

Formation End Depth: 56.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140504
Layer: 1
Plug From: 0.0
Plug To: 34.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809154
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703981
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264470
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339079
Layer: 1
Slot:
Screen Top Depth: 36.0
Screen End Depth: 56.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809154
Pump Set At:
Static Level: 34.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM

Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613315
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 34.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database: ***WWIS***

Well ID: 2809153
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54149
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155410
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/17/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454455
Layer: 1
Color: 6
General Color: BROWN

Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 64.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140503
Layer: 1
Plug From: 0.0
Plug To: 30.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809153
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703980
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264469
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339078
Layer: 1
Slot:
Screen Top Depth: 34.0
Screen End Depth: 64.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809153
Pump Set At:
Static Level: 47.0

Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613314
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 47.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database:
WWIS

Well ID: 2809152
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54147
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155409
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/06/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID:	931454454
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	45.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933140502
Layer:	1
Plug From:	0.0
Plug To:	25.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	962809152
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	10703979
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID:	930264468
Layer:	1
Material:	5
Open Hole or Material:	PLASTIC
Depth From:	
Depth To:	3.0
Casing Diameter:	2.0
Casing Diameter UOM:	inch
Casing Depth UOM:	ft

Construction Record - Screen

Screen ID:	933339077
Layer:	1
Slot:	
Screen Top Depth:	25.0
Screen End Depth:	45.0
Screen Material:	
Screen Depth UOM:	ft
Screen Diameter UOM:	inch
Screen Diameter:	2.0

Results of Well Yield Testing

Pumping Test Method Desc:	
Pump Test ID:	992809152
Pump Set At:	
Static Level:	11.0
Final Level After Pumping:	
Recommended Pump Depth:	
Pumping Rate:	
Flowing Rate:	
Recommended Pump Rate:	
Levels UOM:	ft
Rate UOM:	GPM
Water State After Test Code:	
Water State After Test:	
Pumping Test Method:	
Pumping Duration HR:	
Pumping Duration MIN:	
Flowing:	No

Water Details

Water ID:	933613313
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	11.0
Water Found Depth UOM:	ft

Site:
lot 2 con 1 ON

Database:
WWIS

Well ID:	2808930	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	02/18/1999
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	192159	***Contractor:***	1660
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	002
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	DS N
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155187	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	09/16/1998	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			

Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931453566
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 16.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931453568
Layer: 4
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 19.0
Formation End Depth: 53.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931453567
Layer: 3
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 16.0
Formation End Depth: 19.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931453565
Layer: 1
Color: 8
General Color: BLACK
Material 1: 02

Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140346
Layer: 1
Plug From: 0.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962808930
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10703757
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264077
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 53.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930264076
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 25.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992808930
Pump Set At:
Static Level: 17.0
Final Level After Pumping: 48.0

Recommended Pump Depth: 19.0
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934457039
Test Type: Draw Down
Test Duration: 30
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934977454
Test Type: Draw Down
Test Duration: 60
Test Level: 48.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934715564
Test Type: Draw Down
Test Duration: 45
Test Level: 48.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934174641
Test Type: Draw Down
Test Duration: 15
Test Level: 28.0
Test Level UOM: ft

Water Details

Water ID: 933612966
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 48.0
Water Found Depth UOM: ft

Site:
lot 4 ON

Database:
WWIS

Well ID: 2808929
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 02/23/1999
Selected Flag: TRUE
Abandonment Rec:

Audit No:	200482	***Contractor:***	1737
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	004
Depth to Bedrock:		***Concession:***	
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155186	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	11/02/1998	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931453563
Layer:	2
Color:	2
General Color:	GREY
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	06
Material 2 Desc:	SILT
Material 3:	12
Material 3 Desc:	STONES
Formation Top Depth:	47.0
Formation End Depth:	87.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931453562
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	12
Material 2 Desc:	STONES
Material 3:	06
Material 3 Desc:	SILT
Formation Top Depth:	0.0
Formation End Depth:	47.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID: 931453564
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 73
Material 2 Desc: HARD
Material 3: 85
Material 3 Desc: SOFT
Formation Top Depth: 87.0
Formation End Depth: 120.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962808929
Method Construction Code: 2
Method Construction: Rotary (Convent.)
Other Method Construction:

Pipe Information

Pipe ID: 10703756
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264074
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 60.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930264075
Layer: 2
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 120.0
Casing Diameter: 5.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339064
Layer: 1
Slot: 020
Screen Top Depth: 20.0
Screen End Depth: 60.0

Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 5.0

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992808929
Pump Set At:
Static Level: 37.0
Final Level After Pumping: 115.0
Recommended Pump Depth: 118.0
Pumping Rate: 1.0
Flowing Rate:
Recommended Pump Rate: 1.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 48
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934977453
Test Type: Recovery
Test Duration: 60
Test Level: 55.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934174640
Test Type: Recovery
Test Duration: 15
Test Level: 100.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934715563
Test Type: Recovery
Test Duration: 45
Test Level: 70.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934457038
Test Type: Recovery
Test Duration: 30
Test Level: 85.0
Test Level UOM: ft

Water Details

Water ID: 933612965
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 90.0

Water Found Depth UOM: ft

Site:
lot 4 con 2 ON

Database:
WWIS

Well ID:	2808787	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	06/17/1998
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	187553	***Contractor:***	1660
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	004
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS N
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155044	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	12/22/1997	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931452964
Layer:	2
Color:	6
General Color:	BROWN
Material 1:	05
Material 1 Desc:	CLAY
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	2.0
Formation End Depth:	11.0
Formation End Depth UOM:	ft

Overburden and Bedrock Materials Interval

Formation ID:	931452966

Layer: 4
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 33.0
Formation End Depth: 76.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452965
Layer: 3
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 81
Material 2 Desc: SANDY
Material 3:
Material 3 Desc:
Formation Top Depth: 11.0
Formation End Depth: 33.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452963
Layer: 1
Color: 8
General Color: BLACK
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962808787
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10703614
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930263853

Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 76.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930263852
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 37.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992808787
Pump Set At:
Static Level: 19.0
Final Level After Pumping: 68.0
Recommended Pump Depth: 72.0
Pumping Rate: 6.0
Flowing Rate:
Recommended Pump Rate: 6.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934182897
Test Type: Draw Down
Test Duration: 15
Test Level: 32.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934715059
Test Type: Draw Down
Test Duration: 45
Test Level: 58.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934447627
Test Type: Draw Down
Test Duration: 30
Test Level: 47.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID:	934977366
Test Type:	Draw Down
Test Duration:	60
Test Level:	68.0
Test Level UOM:	ft

Water Details

Water ID:	933612779
Layer:	1
Kind Code:	1
Kind:	FRESH
Water Found Depth:	51.0
Water Found Depth UOM:	ft

Site:
con 1 ON

Database:
WWIS

Well ID:	2808555	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	08/14/1997
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	181752	***Contractor:***	4005
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	DS N
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	10154812	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	07/29/1997	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931452083
Layer:	2

Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 12.0
Formation End Depth: 18.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452084
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 77
Material 2 Desc: LOOSE
Material 3:
Material 3 Desc:
Formation Top Depth: 18.0
Formation End Depth: 27.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452086
Layer: 5
Color: 2
General Color: GREY
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 60.0
Formation End Depth: 97.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452082
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 28
Material 2 Desc: SAND
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452085
Layer: 4
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 73
Material 2 Desc: HARD
Material 3:
Material 3 Desc:
Formation Top Depth: 27.0
Formation End Depth: 60.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931452087
Layer: 6
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 73
Material 2 Desc: HARD
Material 3:
Material 3 Desc:
Formation Top Depth: 97.0
Formation End Depth: 100.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962808555
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10703382
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930263412
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 27.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930263413
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE

Depth From:
Depth To: 100.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992808555
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method: 2
Pumping Duration HR: 0
Pumping Duration MIN: 30
Flowing: No

Site:
lot 4 con 1 ON

Database: ***WWIS***

Well ID: 2806702
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 16638
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 07/30/1987
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3349
Form Version: 1
Owner:
County: HALTON
Lot: 004
Concession: 01
Concession Name: SOS
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10152971
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/30/1987
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931443973
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 37.0
Formation End Depth: 200.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931443971
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 8.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931443972
Layer: 2
Color: 3
General Color: BLUE
Material 1: 05
Material 1 Desc: CLAY
Material 2: 06
Material 2 Desc: SILT
Material 3: 12
Material 3 Desc: STONES
Formation Top Depth: 8.0
Formation End Depth: 37.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962806702
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10701541

Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930260137
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 200.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930260136
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 42.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992806702
Pump Set At:
Static Level: 41.0
Final Level After Pumping: 200.0
Recommended Pump Depth: 195.0
Pumping Rate: 7.0
Flowing Rate:
Recommended Pump Rate: 40.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 2
Water State After Test: CLOUDY
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934970871
Test Type: Draw Down
Test Duration: 60
Test Level: 200.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934176688
Test Type: Draw Down
Test Duration: 15
Test Level: 86.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934450740
Test Type: Draw Down
Test Duration: 30
Test Level: 131.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934709483
Test Type: Draw Down
Test Duration: 45
Test Level: 170.0
Test Level UOM: ft

Water Details

Water ID: 933610069
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 42.0
Water Found Depth UOM: ft

Water Details

Water ID: 933610070
Layer: 2
Kind Code: 1
Kind: FRESH
Water Found Depth: 169.0
Water Found Depth UOM: ft

Site:
lot 5 con 1 ON

Database: ***WWIS***

Well ID: 2805374
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 08/17/1979
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4005
Form Version: 1
Owner:
County: HALTON
Lot: 005
Concession: 01
Concession Name: DS N
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009023696
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:

Elevation:
Elevrc:
Zone:
East83:
North83:

Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	9
Date Completed:	08/02/1979	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Site: ***Database:*** ***WWIS***

lot 5 con 1 ON

Well ID:	2805420	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	10/25/1979
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	NA	***Contractor:***	3349
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	005
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	1009073643	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	9
Date Completed:	08/18/1978	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Site: ***Database:*** ***WWIS***

lot 5 con 1 ON

Well ID:	2806218	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	11/19/1984
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	NA	***Contractor:***	3349
Tag:		***Form Version:***	1

Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Owner:
County: HALTON
Lot: 005
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009074060
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 09/16/1983
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Site:
lot 5 con 1 ON

Database: ***WWIS***

Well ID: 2806108
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 03/23/1984
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3637
Form Version: 1
Owner:
County: HALTON
Lot: 005
Concession: 01
Concession Name: DS N
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009073985
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 07/15/1983
Remarks:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Site: ***Database:*** ***WWIS***
lot 2 con 1 ON

Well ID: 2806061
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 08/12/1983
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4008
Form Version: 1
Owner:
County: HALTON
Lot: 002
Concession: 01
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009073919
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 08/05/1983
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Site: ***Database:*** ***WWIS***
lot 5 con 1 ON

Well ID: 2806044
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 07/29/1983
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4005
Form Version: 1
Owner:
County: HALTON
Lot: 005
Concession: 01

Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009073826
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 05/07/1983
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Site:
lot 5 con 2 ON

Database: ***WWIS***

Well ID: 2806021
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 03/18/1983
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3637
Form Version: 1
Owner:
County: HALTON
Lot: 005
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009073784
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 07/06/1982
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Site: ***Database:*** ***WWIS***
lot 5 con 2 ON

Well ID:	2806020	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	03/18/1983
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	NA	***Contractor:***	3637
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	005
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	1009073772	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	9
Date Completed:	08/16/1982	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Site: ***Database:*** ***WWIS***
lot 2 con 1 ON

Well ID:	2805827	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	06/01/1982
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	NA	***Contractor:***	4005
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	002
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	NS
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	

Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009073658
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 05/13/1982
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Site:
lot 5 con 1 ON

Database: ***WWIS***

Well ID: 2806003
Construction Date:
Use 1st:
Use 2nd:
Final Well Status:
Water Type:
Casing Material:
Audit No: NA
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status: Yes
Data Src:
Date Received: 03/18/1983
Selected Flag: TRUE
Abandonment Rec:
Contractor: 3637
Form Version: 1
Owner:
County: HALTON
Lot: 005
Concession: 01
Concession Name: DS N
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 1009023741
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 08/10/1982
Remarks:
Location Method Desc: on Water Well Record
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone:
East83:
North83:
Org CS: UTM83
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: wwr

Site:
lot 5 con 1 ON

Database: ***WWIS***

Well ID:	2805390	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	Yes
Use 2nd:		***Data Src:***	
Final Well Status:		***Date Received:***	09/07/1979
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	NA	***Contractor:***	4005
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	005
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	DS N
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	1009023732	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	UTM83
Cluster Kind:		***UTMRC:***	9
Date Completed:	09/01/1979	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	wwr
Location Method Desc:	on Water Well Record		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Site:
lot 1 con 2 BURLINGTON ON

Database: ***WWIS***

Well ID:	2810606	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	
Final Well Status:	Abandoned-Quality	***Date Received:***	08/25/2006
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	Yes
Audit No:	Z50917	***Contractor:***	4868
Tag:		***Form Version:***	3
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	001
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	11552516	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	08/03/2006	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Annular Space/Abandonment Sealing Record

Plug ID:	933300315
Layer:	4
Plug From:	4.0
Plug To:	0.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933300314
Layer:	3
Plug From:	33.0
Plug To:	4.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933300313
Layer:	2
Plug From:	35.0
Plug To:	33.0
Plug Depth UOM:	m

Annular Space/Abandonment Sealing Record

Plug ID:	933300312
Layer:	1
Plug From:	45.0
Plug To:	35.0
Plug Depth UOM:	m

Method of Construction & Well Use

Method Construction ID:	962810606
Method Construction Code:	6
Method Construction:	Boring
Other Method Construction:	

Pipe Information

Pipe ID: 11562123
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930885033
Layer: 1
Material: 3
Open Hole or Material: CONCRETE
Depth From: 0.0
Depth To: 45.0
Casing Diameter: 30.0
Casing Diameter UOM: cm
Casing Depth UOM: m

Hole Diameter

Hole ID: 11683640
Diameter: 30.0
Depth From: 0.0
Depth To: 45.0
Hole Depth UOM: m
Hole Diameter UOM: cm

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809820
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Not A Well
Water Type:
Casing Material:
Audit No: 259726
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 11/10/2003
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7215
Form Version: 2
Owner:
County: HALTON
Lot:
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11098123
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/18/2003
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Method of Construction & Well Use

Method Construction ID: 962809820
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11101838
Casing No: 1
Comment:
Alt Name:

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809819
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 259727
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 11/10/2003
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7215
Form Version: 2
Owner:
County: HALTON
Lot:
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11098122
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/18/2003
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID: 962809819
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11101837
Casing No: 1
Comment:
Alt Name:

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809818
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Not A Well
Water Type:
Casing Material:
Audit No: 259728
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 11/10/2003
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7215
Form Version: 2
Owner:
County: HALTON
Lot:
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11098121
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/18/2003
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID: 962809818
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11101836
Casing No: 1
Comment:
Alt Name:

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809817
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 259729
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 11/10/2003
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7215
Form Version: 2
Owner:
County: HALTON
Lot:
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11098120
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/18/2003
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID: 962809817
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11101835
Casing No: 1
Comment:
Alt Name:

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809816
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Not A Well
Water Type:
Casing Material:
Audit No: 259730
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 11/10/2003
Selected Flag: TRUE
Abandonment Rec:
Contractor: 7215
Form Version: 2
Owner:
County: HALTON
Lot:
Concession: 01
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 11098119
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 10/18/2003
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID: 962809816
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11101834
Casing No: 1
Comment:
Alt Name:

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809815
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 11/10/2003
Selected Flag: TRUE
Abandonment Rec:

Audit No:	257909	***Contractor:***	7215
Tag:		***Form Version:***	2
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	11098118	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	10/18/2003	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	962809815
Method Construction Code:	0
Method Construction:	Not Known
Other Method Construction:	

Pipe Information

Pipe ID:	11101833
Casing No:	1
Comment:	
Alt Name:	

Site: ***Database:*** ***WWIS***

con 1 ON

Well ID:	2809579	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Domestic	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	05/22/2002
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	228758	***Contractor:***	3349
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	

Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10525254
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 05/22/2002
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:
Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 932862502
Layer: 1
Color: 8
General Color: BLACK
Material 1: 02
Material 1 Desc: TOPSOIL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 2.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932862503
Layer: 2
Color: 2
General Color: GREY
Material 1: 00
Material 1 Desc: UNKNOWN TYPE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 2.0
Formation End Depth: 46.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933226412
Layer: 1
Plug From: 1.0

Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809579
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11073824
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264967
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930264966
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: PUMP
Pump Test ID: 992809579
Pump Set At:
Static Level:
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 1
Pumping Duration HR: 4
Pumping Duration MIN: 0
Flowing: No

Water Details

Water ID: 934017948
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 6.0
Water Found Depth UOM: ft

Site:
con 2 ON

Database:
WWIS

Well ID: 2809506
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Abandoned-Other
Water Type:
Casing Material:
Audit No: 234056
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 12/14/2001
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1660
Form Version: 1
Owner:
County: HALTON
Lot:
Concession: 02
Concession Name: DS S
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10518560
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 09/21/2001
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Method of Construction & Well Use

Method Construction ID: 962809506
Method Construction Code: 0
Method Construction: Not Known
Other Method Construction:

Pipe Information

Pipe ID: 11067130
Casing No: 1
Comment:
Alt Name:

Site:
con 2 ON

Database: ***WWIS***

Well ID:	2809505	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:		***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Abandoned-Other	***Date Received:***	12/14/2001
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	234055	***Contractor:***	1660
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	
Depth to Bedrock:		***Concession:***	02
Well Depth:		***Concession Name:***	DS S
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	OAKVILLE TOWN		
Site Info:			

Bore Hole Information

Bore Hole ID:	10518559	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	09/21/2001	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Method of Construction & Well Use

Method Construction ID:	962809505
Method Construction Code:	0
Method Construction:	Not Known
Other Method Construction:	

Pipe Information

Pipe ID:	11067129
Casing No:	1
Comment:	
Alt Name:	

Site:
con 1 ON

Database: ***WWIS***

Well ID:	2809498	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Commerical	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Water Supply	***Date Received:***	12/14/2001

Water Type:
Casing Material:
Audit No: 234053
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Selected Flag: TRUE
Abandonment Rec:
Contractor: 1660
Form Version: 1
Owner:
County: HALTON
Lot:
Concession: 01
Concession Name: DS N
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10518552
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/10/2001
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 932838882
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 77
Material 2 Desc: LOOSE
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 19.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838886
Layer: 5
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 42.0

Formation End Depth: 48.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838883
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 81
Material 2 Desc: SANDY
Material 3:
Material 3 Desc:
Formation Top Depth: 19.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838885
Layer: 4
Color: 2
General Color: GREY
Material 1: 06
Material 1 Desc: SILT
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 33.0
Formation End Depth: 42.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838884
Layer: 3
Color: 2
General Color: GREY
Material 1: 29
Material 1 Desc: FINE GRAVEL
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 28.0
Formation End Depth: 33.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838887
Layer: 6
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:

Material 3:
Material 3 Desc:
Formation Top Depth: 48.0
Formation End Depth: 80.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933221258
Layer: 1
Plug From: 0.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809498
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 11067122
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264894
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930264893
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992809498
Pump Set At:
Static Level: 27.0
Final Level After Pumping: 65.0
Recommended Pump Depth: 70.0
Pumping Rate: 5.0
Flowing Rate:

Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 30
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934175813
Test Type: Draw Down
Test Duration: 15
Test Level: 36.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934716704
Test Type: Draw Down
Test Duration: 45
Test Level: 57.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934458204
Test Type: Draw Down
Test Duration: 30
Test Level: 48.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934978483
Test Type: Draw Down
Test Duration: 60
Test Level: 65.0
Test Level UOM: ft

Water Details

Water ID: 934010629
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 68.0
Water Found Depth UOM: ft

Site:
con 1 ON

Database: ***WWIS***

Well ID: 2809497
Construction Date:
Use 1st: Commerical
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No: 234052
Tag:
Constructn Method:
Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 12/14/2001
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1660
Form Version: 1
Owner:

Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

County: HALTON
Lot:
Concession: 01
Concession Name: DS N
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10518551
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/05/2001
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 932838878
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 81
Material 2 Desc: SANDY
Material 3:
Material 3 Desc:
Formation Top Depth: 22.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838881
Layer: 5
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 46.0
Formation End Depth: 80.0
Formation End Depth UOM: ft

Overburden and Bedrock

Materials Interval

Formation ID: 932838879
Layer: 3
Color: 2
General Color: GREY
Material 1: 05
Material 1 Desc: CLAY
Material 2: 84
Material 2 Desc: SILTY
Material 3:
Material 3 Desc:
Formation Top Depth: 30.0
Formation End Depth: 41.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838880
Layer: 4
Color: 7
General Color: RED
Material 1: 05
Material 1 Desc: CLAY
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 41.0
Formation End Depth: 46.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 932838877
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 12
Material 2 Desc: STONES
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 22.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933221257
Layer: 1
Plug From: 0.0
Plug To: 20.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809497
Method Construction Code: 1
Method Construction: Cable Tool

Other Method Construction:

Pipe Information

Pipe ID: 11067121
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264891
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930264892
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To:
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992809497
Pump Set At:
Static Level: 32.0
Final Level After Pumping: 68.0
Recommended Pump Depth: 70.0
Pumping Rate: 5.0
Flowing Rate:
Recommended Pump Rate: 5.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 30
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934716703
Test Type: Draw Down
Test Duration: 45
Test Level: 62.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934978482

Test Type: Draw Down
Test Duration: 60
Test Level: 68.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934175812
Test Type: Draw Down
Test Duration: 15
Test Level: 40.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934458203
Test Type: Draw Down
Test Duration: 30
Test Level: 51.0
Test Level UOM: ft

Water Details

Water ID: 934010628
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 70.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database: ***WWIS***

Well ID: 2809166
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54146
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155423
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 12/24/1999
Remarks:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Overburden and Bedrock Materials Interval

Formation ID: 931454468
Layer: 1
Color: 6
General Color: BROWN
Material 1: 00
Material 1 Desc: UNKNOWN TYPE
Material 2: 92
Material 2 Desc: WEATHERED
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 46.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140516
Layer: 1
Plug From: 0.0
Plug To: 25.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809166
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703993
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264482
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339091

Layer: 1
Slot:
Screen Top Depth: 26.0
Screen End Depth: 46.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809166
Pump Set At:
Static Level: 15.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613327
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 15.0
Water Found Depth UOM: ft

Site:
lot 3 con 1 ON

Database: ***WWIS***

Well ID: 2809165
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54144
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 01
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155422
DP2BR:
Elevation:
Elevrc:

Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 12/22/1999
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454467
Layer: 1
Color: 6
General Color: BROWN
Material 1: 17
Material 1 Desc: SHALE
Material 2: 92
Material 2 Desc: WEATHERED
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 62.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140515
Layer: 1
Plug From: 0.0
Plug To: 43.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809165
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703992
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264481
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0

Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339090
Layer: 1
Slot:
Screen Top Depth: 47.0
Screen End Depth: 62.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809165
Pump Set At:
Static Level: 43.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613326
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 43.0
Water Found Depth UOM: ft

Site:
lot 3 ON

Database: ***WWIS***

Well ID: 2809164
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54153
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Site Info:

Bore Hole Information

Bore Hole ID:	10155421	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	01/29/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931454466
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	92
Material 2 Desc:	WEATHERED
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	29.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933140514
Layer:	1
Plug From:	0.0
Plug To:	13.0
Plug Depth UOM:	ft

Method of Construction & Well Use

Method Construction ID:	962809164
Method Construction Code:	7
Method Construction:	Diamond
Other Method Construction:	

Pipe Information

Pipe ID:	10703991
Casing No:	1
Comment:	
Alt Name:	

Construction Record - Casing

Casing ID: 930264480
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339089
Layer: 1
Slot:
Screen Top Depth: 14.0
Screen End Depth: 29.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809164
Pump Set At:
Static Level: 17.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613325
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 17.0
Water Found Depth UOM: ft

Site:
lot 3 ON

Database:
WWIS

Well ID: 2809163
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54158
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003

Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155420
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 02/08/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454465
Layer: 1
Color: 6
General Color: BROWN
Material 1: 17
Material 1 Desc: SHALE
Material 2: 92
Material 2 Desc: WEATHERED
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140513
Layer: 1
Plug From: 0.0
Plug To: 8.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809163
Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10703990

Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264479
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 0.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339088
Layer: 1
Slot:
Screen Top Depth: 10.0
Screen End Depth: 30.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809163
Pump Set At:
Static Level: 10.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613324
Layer: 1
Kind Code: 5
Kind: Not stated
Water Found Depth: 10.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database: ***WWIS***

Well ID: 2809162
Construction Date:
Use 1st:
Use 2nd:
Final Well Status: Observation Wells

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000

Water Type:
Casing Material:
Audit No: 54159
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155419
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 04/03/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454464
Layer: 1
Color: 6
General Color: BROWN
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 15.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140512
Layer: 1
Plug From: 0.0
Plug To: 3.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809162

Method Construction Code: 4
Method Construction: Rotary (Air)
Other Method Construction:

Pipe Information

Pipe ID: 10703989
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264478
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 0.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339087
Layer: 1
Slot:
Screen Top Depth: 3.0
Screen End Depth: 16.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809162
Pump Set At:
Static Level: 5.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613323
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 5.0
Water Found Depth UOM: ft

Site:

lot 3 con 1 ON

Database: ***WWIS***

Well ID:	2809161	***Flowing (Y/N):***	
Construction Date:		***Flow Rate:***	
Use 1st:	Not Used	***Data Entry Status:***	
Use 2nd:		***Data Src:***	1
Final Well Status:	Observation Wells	***Date Received:***	04/18/2000
Water Type:		***Selected Flag:***	TRUE
Casing Material:		***Abandonment Rec:***	
Audit No:	54157	***Contractor:***	1129
Tag:		***Form Version:***	1
Constructn Method:		***Owner:***	
Elevation (m):		***County:***	HALTON
Elevatn Reliabilty:		***Lot:***	003
Depth to Bedrock:		***Concession:***	01
Well Depth:		***Concession Name:***	
Overburden/Bedrock:		***Easting NAD83:***	
Pump Rate:		***Northing NAD83:***	
Static Water Level:		***Zone:***	
Clear/Cloudy:		***UTM Reliability:***	
Municipality:	BURLINGTON CITY		
Site Info:			

Bore Hole Information

Bore Hole ID:	10155418	***Elevation:***	
DP2BR:		***Elevrc:***	
Spatial Status:		***Zone:***	17
Code OB:		***East83:***	
Code OB Desc:		***North83:***	
Open Hole:		***Org CS:***	
Cluster Kind:		***UTMRC:***	9
Date Completed:	02/08/2000	***UTMRC Desc:***	unknown UTM
Remarks:		***Location Method:***	na
Location Method Desc:	Not Applicable i.e. no UTM		
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID:	931454463
Layer:	1
Color:	6
General Color:	BROWN
Material 1:	17
Material 1 Desc:	SHALE
Material 2:	
Material 2 Desc:	
Material 3:	
Material 3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	20.0
Formation End Depth UOM:	ft

Annular Space/Abandonment Sealing Record

Plug ID:	933140511
Layer:	1
Plug From:	0.0

Plug To: 8.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809161
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703988
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264477
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 0.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339086
Layer: 1
Slot:
Screen Top Depth: 10.0
Screen End Depth: 20.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809161
Pump Set At:
Static Level: 8.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613322
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 8.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database:
WWIS

Well ID: 2809160
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54156
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155417
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/30/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454462
Layer: 1
Color: 6
General Color: BROWN
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 41.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140510
Layer: 1
Plug From: 0.0
Plug To: 24.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809160
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703987
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264476
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339085
Layer: 1
Slot:
Screen Top Depth: 26.0
Screen End Depth: 41.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809160
Pump Set At:
Static Level: 20.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:

Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613321
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 20.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database: ***WWIS***

Well ID: 2809159
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54155
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155416
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/30/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454461
Layer: 1
Color: 6
General Color: BROWN
Material 1: 17
Material 1 Desc: SHALE

Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 28.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140509
Layer: 1
Plug From: 0.0
Plug To: 17.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809159
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703986
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264475
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339084
Layer: 1
Slot:
Screen Top Depth: 18.0
Screen End Depth: 28.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809159
Pump Set At:
Static Level: 15.0
Final Level After Pumping:
Recommended Pump Depth:

Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613320
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 15.0
Water Found Depth UOM: ft

Site:
lot 5 ON

Database:
WWIS

Well ID: 2806107
Construction Date:
Use 1st: Domestic
Use 2nd:
Final Well Status: Water Supply
Water Type:
Casing Material:
Audit No:
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: OAKVILLE TOWN
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 02/08/1984
Selected Flag: TRUE
Abandonment Rec:
Contractor: 4005
Form Version: 1
Owner:
County: HALTON
Lot: 005
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10152422
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/09/1984
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931441624
Layer: 3
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2: 73
Material 2 Desc: HARD
Material 3:
Material 3 Desc:
Formation Top Depth: 30.0
Formation End Depth: 50.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931441623
Layer: 2
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 81
Material 2 Desc: SANDY
Material 3: 11
Material 3 Desc: GRAVEL
Formation Top Depth: 12.0
Formation End Depth: 30.0
Formation End Depth UOM: ft

Overburden and Bedrock Materials Interval

Formation ID: 931441622
Layer: 1
Color: 6
General Color: BROWN
Material 1: 05
Material 1 Desc: CLAY
Material 2: 77
Material 2 Desc: LOOSE
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 12.0
Formation End Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962806107
Method Construction Code: 1
Method Construction: Cable Tool
Other Method Construction:

Pipe Information

Pipe ID: 10700992
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930259095
Layer: 1
Material: 1
Open Hole or Material: STEEL
Depth From:
Depth To: 31.0
Casing Diameter: 6.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Casing

Casing ID: 930259096
Layer: 2
Material: 4
Open Hole or Material: OPEN HOLE
Depth From:
Depth To: 50.0
Casing Diameter:
Casing Diameter UOM: inch
Casing Depth UOM: ft

Results of Well Yield Testing

Pumping Test Method Desc: BAILER
Pump Test ID: 992806107
Pump Set At:
Static Level: 29.0
Final Level After Pumping: 45.0
Recommended Pump Depth: 47.0
Pumping Rate: 7.0
Flowing Rate:
Recommended Pump Rate: 6.0
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code: 1
Water State After Test: CLEAR
Pumping Test Method: 2
Pumping Duration HR: 1
Pumping Duration MIN: 0
Flowing: No

Draw Down & Recovery

Pump Test Detail ID: 934449082
Test Type: Recovery
Test Duration: 30
Test Level: 29.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934969185
Test Type: Recovery
Test Duration: 60
Test Level: 29.0
Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934175131
Test Type: Recovery
Test Duration: 15
Test Level: 32.0

Test Level UOM: ft

Draw Down & Recovery

Pump Test Detail ID: 934716597
Test Type: Recovery
Test Duration: 45
Test Level: 29.0
Test Level UOM: ft

Water Details

Water ID: 933609357
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 47.0
Water Found Depth UOM: ft

Site:
lot 3 con 2 ON

Database: ***WWIS***

Well ID: 2809157
Construction Date:
Use 1st: Not Used
Use 2nd:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: 54152
Tag:
Constructn Method:
Elevation (m):
Elevatn Reliabilty:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Clear/Cloudy:
Municipality: BURLINGTON CITY
Site Info:

Flowing (Y/N):
Flow Rate:
Data Entry Status:
Data Src: 1
Date Received: 04/18/2000
Selected Flag: TRUE
Abandonment Rec:
Contractor: 1129
Form Version: 1
Owner:
County: HALTON
Lot: 003
Concession: 02
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

Bore Hole Information

Bore Hole ID: 10155414
DP2BR:
Spatial Status:
Code OB:
Code OB Desc:
Open Hole:
Cluster Kind:
Date Completed: 01/27/2000
Remarks:
Location Method Desc: Not Applicable i.e. no UTM
Elevrc Desc:
Location Source Date:
Improvement Location Source:
Improvement Location Method:
Source Revision Comment:
Supplier Comment:

Elevation:
Elevrc:
Zone: 17
East83:
North83:
Org CS:
UTMRC: 9
UTMRC Desc: unknown UTM
Location Method: na

Overburden and Bedrock Materials Interval

Formation ID: 931454459
Layer: 1
Color: 7
General Color: RED
Material 1: 17
Material 1 Desc: SHALE
Material 2:
Material 2 Desc:
Material 3:
Material 3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 55.0
Formation End Depth UOM: ft

Annular Space/Abandonment Sealing Record

Plug ID: 933140507
Layer: 1
Plug From: 0.0
Plug To: 38.0
Plug Depth UOM: ft

Method of Construction & Well Use

Method Construction ID: 962809157
Method Construction Code: 7
Method Construction: Diamond
Other Method Construction:

Pipe Information

Pipe ID: 10703984
Casing No: 1
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 930264473
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From:
Depth To: 3.0
Casing Diameter: 2.0
Casing Diameter UOM: inch
Casing Depth UOM: ft

Construction Record - Screen

Screen ID: 933339082
Layer: 1
Slot:
Screen Top Depth: 40.0
Screen End Depth: 55.0
Screen Material:
Screen Depth UOM: ft
Screen Diameter UOM: inch
Screen Diameter: 2.0

Results of Well Yield Testing

Pumping Test Method Desc:
Pump Test ID: 992809157
Pump Set At:
Static Level: 41.0
Final Level After Pumping:
Recommended Pump Depth:
Pumping Rate:
Flowing Rate:
Recommended Pump Rate:
Levels UOM: ft
Rate UOM: GPM
Water State After Test Code:
Water State After Test:
Pumping Test Method:
Pumping Duration HR:
Pumping Duration MIN:
Flowing: No

Water Details

Water ID: 933613318
Layer: 1
Kind Code: 1
Kind: FRESH
Water Found Depth: 41.0
Water Found Depth UOM: ft

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ***Note:*** *Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.*

Abandoned Aggregate Inventory: Provincial AAGR

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory: Provincial AGR

This database of licensed and permitted pits and quarries is maintained by the Ontario Ministry of Natural Resources and Forestry (MNRF), as regulated under the Aggregate Resources Act, R.S.O. 1990. Aggregate site data has been divided into active and inactive sites. Active sites may be further subdivided into partial surrenders. In partial surrenders, defined areas of a site are inactive while the rest of the site remains active.

Government Publication Date: Up to Nov 2023

Abandoned Mine Information System: Provincial AMIS

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Apr 2024

Anderson's Waste Disposal Sites: Private ANDR

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks: Provincial AST

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies: Private AUWR

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Apr 30, 2024

Borehole: Provincial BORE

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval: Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities: Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2022

Commercial Fuel Oil Tanks: Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.
Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Chemical Manufacturers and Distributors: Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register: Private CHM

This database includes a listing of locations of facilities within the Province or Territory that either manufacture and/or distributes chemicals.

Government Publication Date: 1999-Apr 30, 2024

Compressed Natural Gas Stations: Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -May 2024

Inventory of Coal Gasification Plants and Coal Tar Sites: Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions: Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-May 2024

Certificates of Property Use: Provincial CPU

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include CPU's on the registry such as (EPA s. 168.6) - Certificate of Property Use.

Government Publication Date: 1994 - Jun 30, 2024

Drill Hole Database: Provincial DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Aug 2023

Delisted Fuel Tanks: Provincial DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: Oct 2023

Environmental Activity and Sector Registry: Provincial EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011-Jun 30, 2024

Environmental Registry: Provincial EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Jun 30, 2024

Environmental Compliance Approval: Provincial ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011-Jun 30, 2024

Environmental Effects Monitoring: Federal EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches: Private EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Mar 31, 2024

Environmental Issues Inventory System: Federal EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event: Provincial EMHE

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Apr 30, 2022

Environmental Penalty Annual Report: Provincial EPAR

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land or water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2023

List of Expired Fuels Safety Facilities: Provincial EXP

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Federal Convictions: Federal FCON

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land: Federal FCS

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Jun 2024

Fisheries & Oceans Fuel Tanks: Federal FOFT

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS): Federal FRST

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: Oct 31, 2021

Fuel Storage Tank: Provincial FST

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.
Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: Oct 2023

Fuel Storage Tank - Historic: Provincial FSTH

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary: Provincial GEN

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Oct 31, 2022

Greenhouse Gas Emissions from Large Facilities: Federal GHG

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO2 eq).

Government Publication Date: 2013-Dec 2022

TSSA Historic Incidents: Provincial HINC

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks: Federal IAFT

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks: Provincial INC

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing in a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: 31 Oct, 2023

Landfill Inventory Management Ontario: Provincial LIMO

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Mar 31, 2022

Canadian Mine Locations: Private MINE

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences: Provincial MNR

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Feb 2024

National Analysis of Trends in Emergencies System (NATES): Federal NATE

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports: Provincial NCPL

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2022

National Defense & Canadian Forces Fuel Tanks: Federal NDFT

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills: Federal NDSP

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Nov 2023

National Defence & Canadian Forces Waste Disposal Sites: Federal NDWD

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents: Federal NEBI

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells: Federal NEBP

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES): Federal NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003*

National PCB Inventory: Federal NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008*

National Pollutant Release Inventory 1993-2020: Federal NPR2

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of pollutant releases (to air, water and land), disposals, and transfers for recycling. The inventory, managed by Environment and Climate Change Canada, tracks over 300 substances. Under the authority of the Canadian Environmental Protection Act (CEPA), owners or operators of facilities that meet published reporting requirements are required to report to the NPRI.

Government Publication Date: Sep 2020

National Pollutant Release Inventory - Historic: Federal NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances. This data holds historic records; current records are found in NPR2.

Government Publication Date: 1993-May 2017

Oil and Gas Wells: Private OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-May 31, 2024

Ontario Oil and Gas Wells: Provincial OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Aug 2023

Inventory of PCB Storage Sites: Provincial OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013

Orders: Provincial ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Jun 30, 2024

Canadian Pulp and Paper: Private PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014

Parks Canada Fuel Storage Tanks: Federal PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register: Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011-Jun 30, 2024

NPRI Reporters - PFAS Substances: Federal PFCH

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This listing of PFAS substance reporters includes those NPRI facilities that reported substances that are found in either: a) the Comprehensive Global Database of PFASs compiled by the Organisation for Economic Co-operation and Development (OECD), b) the US Environmental Protection Agency (US EPA) Master List of PFAS Substances, c) the US EPA list of PFAS chemicals without explicit structures, or d) the US EPA list of PFAS structures (encompassing the largest set of structures having sufficient levels of fluorination to potentially impart PFAS-type properties).

Government Publication Date: Sep 2020

Potential PFAS Handlers from NPRI: Federal PFHA

The National Pollutant Release Inventory (NPRI) is Canada's public inventory of releases, disposals, and transfers, tracking over 320 pollutants. Per - and polyfluoroalkyl substances (PFAS) are a group of over 4,700 human-made substances for which adverse environmental and health effects have been observed. This list of potential PFAS handlers includes those NPRI facilities that reported business activity (NAICS code) included in the US Environmental Protection Agency (US EPA) list of Potential PFAS-Handling Industry Sectors, further described as operating in industry sectors where literature reviews indicate that PFAS may be handled and/or released. Inclusion of a facility in this listing does not indicate that PFAS are being manufactured, processed, used, or released by the facility - these are facilities that potentially handle PFAS based on their industrial profile.

Government Publication Date: Sep 2020

Pipeline Incidents: Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2021

Private and Retail Fuel Storage Tanks: Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water: Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Jun 30, 2024

Ontario Regulation 347 Waste Receivers Summary: Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2021

Record of Site Condition: Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up. RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09). The Government of Ontario states that it is not responsible for the accuracy of the information in this Registry.

Government Publication Date: 1997-Sept 2001, Oct 2004-Jun 2024

Retail Fuel Storage Tanks: Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Apr 30, 2024

Scott's Manufacturing Directory: Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills: Provincial SPL

List of spills and incidents made available by the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X. The Ministry of the Environment, Conservation and Parks cites the coronavirus pandemic as an explanation for delays in releasing data pursuant to requests. This database includes spill incidents that occurred in Mar 2023-Mar 2024, May 2024 in addition to those listed in the Government Publication Date.

Government Publication Date: 1988-Jan 2023; see description

Wastewater Discharger Registration Database: Provincial SRDS

Facilities that report either municipal treated wastewater effluent or industrial wastewater discharges under the Effluent Monitoring and Effluent Limits (EMEL) and Municipal/Industrial Strategy for Abatement Regulations. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment keeps record of direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation, Mining, Petroleum Refining, Organic Chemicals, Inorganic Chemicals, Pulp & Paper, Metal Casting, Iron & Steel, and Quarries.

Government Publication Date: 1990-Dec 31, 2021

Anderson's Storage Tanks: Private TANK

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks: Federal TCFT

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Apr 2023

Variances for Abandonment of Underground Storage Tanks: Provincial VAR

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.
Records are not verified for accuracy or completeness.

Government Publication Date: Feb 28, 2022

Waste Disposal Sites - MOE CA Inventory: Provincial WDS

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011-Jun 30, 2024

Waste Disposal Sites - MOE 1991 Historical Approval Inventory: Provincial WDSH

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30st, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System: Provincial WWIS

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Dec 31 2023

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix F

Freedom of Information

Ministry of the Environment, Conservation and Parks

Corporate Services Branch
40 St. Clair Avenue West
Toronto ON M4V 1M2

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Direction des services ministériels
40, avenue St. Clair Ouest
Toronto ON M4V 1M2

Ontario

August 21, 2024

Maria Strybos
Cambium Inc.
135 Bayfield Street, Unit 102
Barrie, Ontario L4M 3B3
maria.strybos@cambium-inc.com

Dear Maria Strybos:

RE: **MECP FOI A-2024-05482 / Your Reference 21199-001 – Acknowledgement Letter**

The Ministry is in receipt of your request made pursuant to the Freedom of Information and Protection of Privacy Act. **The search will be conducted on the following:**

> **5900, 5470, 5366, and 5164 Upper Middle Road AND 5201 Mainway (Lot 1-4 Conc 2 s of Dundas) Burlington**
>
> **Timeframe: January 1st, 1900 to August 20th, 2024**

If there is any discrepancy, please contact us immediately.

Please note the file number that has been assigned to your request. This number should be referred to in all future communications with our office.

If you have any questions, please contact Adeolu Paul-Taiwo at adeolu.paul-taiwo@ontario.ca.

Yours truly,
Adeolu Paul-Taiwo
MECP Access and Privacy Office

Ministry of the Environment, Conservation and Parks

Corporate Services Branch
40 St. Clair Avenue West
Toronto ON M4V 1M2

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Direction des services ministériels
40, avenue St. Clair Ouest
Toronto ON M4V 1M2

Ontario

September 10, 2024

Maria Strybos
Cambium Inc.
135 Bayfield Street, Unit 102
Barrie, Ontario L4M 3B3
maria.strybos@cambium-inc.com

Dear Maria Strybos:

RE: MECP FOI A-2024-05482, Your Reference #: 21199-001 – Record Release Letter

This letter is further to your request made pursuant to the Freedom of Information and Protection of Privacy Act (the Act) relating to:

> 5900, 5470, 5366, and 5164 Upper Middle Road AND 5201 Mainway (Lot 1-4 Conc 2 s of Dundas) Burlington
> Timeframe: January 1st, 1900 to August 20th, 2024

Your final fee payment was received by this office. If payment was not in Canadian dollars, please contact our office immediately.

Attached is a copy of the records.

You may request a review of my decision within 30 days from the date of this letter by contacting the Information and Privacy Commissioner/Ontario at http://www.ipc.on.ca. Please note there may be a fee associated with submitting the appeal.

If you have any questions, please contact Stephanie Rampino at 437-995-3228 or stephanie.rampino@ontario.ca.

Yours truly,

RampinoS

for
Josephine DeSouza
Manager, Access and Privacy Office

Attachment

Ontario

Hazardous Waste Information

These are historical waste records from the Hazardous Waste Infomation Network (HWIN) and System (HWIS), and paper manifests when available, operated by the Ontario Ministry of the Environment. As of January 1, 2023, Resource Productivity and Recovery Authority's (RPRA) Hazardous Waste Program Registry and HazTrack mobile app replace HWIN and the use of paper manifests.

Generator Details (HWIN)

Registration/Notification Number
ON4813409

Legal Company Name

Primary Name:	Halton Catholic District School Board	Division Name:	N/A

Company Operating Name

Primary Name:	Halton Catholic District School Board	Division Name:	N/A

Mailing Address

Division Building:	N/A	P.O. Box:	5308
Address Line 1:	802 Drury Lane	Address Line 2:	N/A
Town/City:	Burlington	Postal/Zip Code:	L7R 3Y2
County (if in ON):	HALTON (R. M.)	Province/State (if in CAN/US):	ONTARIO
County (if outside ON):	N/A	Province/State (if outside CAN/US):	N/A

Site Location

Division Building:	N/A	P.O. Box:	N/A
Address Line 1:	5164 Upper Middle Road	Address Line 2:	N/A
Town/City:	Burlington	Postal/Zip Code:	L7P 4S8
County (if in ON):	HALTON (R. M.)	Province/State (if in CAN/US):	ONTARIO
County (if outside ON):	N/A	Province/State (if outside CAN/US):	N/A

Inactive Waste Classes (ON4813409)

No inactive waste listings.

Active Waste Classes (ON4813409)

Active Off-Site Waste Classes

Waste Class	Hazardous Waste Number (per waste stream)	Reg.347 Schedules	Disposal Method	Part 2B required	Part 2B complete	Phsyical State	Off-Site	Status
221 - L	N/A					Liquid	Off-Site	Active

Generator Details (HWIS)

Registration Number
ON4813409

Company Name

Name:	Halton Catholic District School Board

Site Address

Address Line 1:	5164 Upper Middle Road	Address Line 2:	
Town/City:	Burlington	Postal/Zip Code:	L7P 4S8
Province:	ON		

Mailing Address

Address Line 1:	5308 802 Drury Lane	Address Line 2:	
Town/City:	Burlington	Postal/Zip Code:	L7R 3Y2
Province:	ON		

Other Location Details

Municipality:	N/A	County:	HALTON (R. M.) (21)
District:	HALTON-PEEL DISTRICT OFFICE (305)	Region:	CENTRAL REGION (03)

Waste Registration (ON4813409)

No waste listings available.

Inspection Summary Log (Internal)

August 12, 2009	File Status Change - Assigned	Inspection Completed
August 19, 2009	Letter Served	Letter SCB-762-028-09 in Served
September 22, 2009	Email	From Company - partial Compliance confirmed
September 29, 2009	Letter Non-Compliance	meter not repaired
September 29, 2009	Letter Served	Letter SCB-762-028-09 in Served
October 06, 2009	Letter Compliance	Letter SCB-762-028-09 in Compliance
October 09, 2009		file closed

Inspection Report Summary (Included in Final Report)

On August 11th, 2009, at 13:00. an inspection was conducted at the Nelson Aggregate Company in the Halton Hills. The site is a medium sized quarry consisting of aggregate of stone. The Company has a permit to take water # 96-P-3009 issued in April of 1996. There is no expiry date on the permit. The permit is issued for the de-watering of the quarry. During the inspection, Randy Warren, Safety and Environment Manager, accompanied me and provided me with information. There are two pumps used for the dewatering process and both are submersible pumps. Both pump houses are equipped with flow sensors, electronic flow meters and data loggers. At the time of inspection, observations revealed that Pump #1 had the meter missing from the monitoring line. Water quality from both discharge points were visibly clear. Ground water wells were installed on site to monitor ground water levels. One well was not secure. Waste oil is generated at the site from vehicle oil changes. A manifest review indicated minor non-compliance with O. Reg 347. Waste oil is being stored for more than 90 days. The shop interceptor containment integrity is unknown. The drilled well on site is for domestic use.

Sign-Off

Primary Officer **Badge Number**

Date _____

Signature _____

Supervisor **Badge Number**

Date _____

Signature _____

Ontario

Ontario Ministry of the Environment

Sector Compliance Branch

INSPECTION REPORT

Nelson Aggregate Company
Lot 2, Concession 2 & 3
Lot 2 Concession 2 & 3
Burlington, ON, L0R 1B0
District Office: Halton-Peel

Inspection Completion Date: Aug 11, 2009

Company Information

Company Identification

Company Name	Business Identification Number	Business Name
Nelson Aggregate Co.		

Company Address

Street Address, Unit Identifier		District Office	
2433 No 2 Sideroad, PO Box 1070		Halton-Peel	
Municipality (Type)	**County/District**	**Province**	**Postal Code**
Burlington (City)	Regional Municipality of Halton	ON	L7R 4L8

Company Mailing Address

Same As Company No

Street Address, Unit Identifier		City	
2433 No 2 Sideroad, PO Box 1070		Burlington	
Province/State	**Postal Code**	**Country**	
ON	L7R 4L8	Canada	

Inspection Information

Inspection Report 1-AP07B **Pass/Fail** ADMINISTRATIVE FAIL

Incident Report Reference Number (IRRN): 3836-7WCNWD

Inspection Report Summary

On August 11th, 2009, at 13:00. an inspection was conducted at the Nelson Aggregate Company in the Halton Hills. The site is a medium sized quarry consisting of aggregate of stone. The Company has a permit to take water # 96-P-3009 issued in April of 1996. There is no expiry date on the permit. The permit is issued for the de-watering of the quarry. During the inspection, Randy Warren, Safety and Environment Manager, accompanied me and provided me with information. There are two pumps used for the dewatering process and both are submersible pumps. Both pump houses are equipped with flow sensors, electronic flow meters and data loggers. At the time of inspection, observations revealed that Pump #1 had the meter missing from the monitoring line. Water quality from both discharge points were visibly clear. Ground water wells were installed on site to monitor ground water levels. One well was not secure. Waste oil is generated at the site from vehicle oil changes. A manifest review indicated minor non-compliance with O. Reg 347. Waste oil is being stored for more than 90 days. The shop interceptor containment integrity is unknown. The drilled well on site is for domestic use.

Site Information

Site Identification

Site Name
Nelson Aggregate Company

District Office
Halton-Peel

Contact Name : Randy Warren

Contact Phone # : (905) 335-5250

Site Address

Street Address, Unit Identifier
Lot 2, Concession 2 & 3

Lot	Concession	Part	Reference Plan
2	2 & 3		

Municipality (Type)	County/District	Province	Postal Code
Burlington (City)	Regional Municipality of Halton	ON	L0R 1B0

Site Mailing Address

Same As Site Address: No

Street Address, Unit Identifier

City

Province/State **Postal Code** **Country**

Inspection Team

Inspection Role	Officer Name	Officer Badge Number
Primary Officer	Mark Powell	762
Supervisor	Jatinbhai Patel	950

Instruments Issued

ID	Type	Amend	Status	Issuing Officer	Badge #
SCB-762-028-09	Letter	No	Compliance	POWELLMA	762

Other Parties: No Other Parties Named

Officer Comments: letter issued to Company to address listed non-compliance.

Date Issued: Aug 19, 2009

Last Compliance Date: Sep 30, 2009

Field Inspection Observations

Checklist Name: Unnamed Checklist

Act/Reg: EPA|Reg347|17.2(5)(ii) **Non-Compliance Yes**

Act/Reg Wording: *17.2(5)(ii) If a waste generation facility to which subsection 17.1 (1) applies stores subject waste, the operator and the owner of the facility shall ensure that it is operated in accordance with the following rules:*

(5) If subject waste is stored at the waste generation facility for more than 90 days, a record must be made of the following information within five business days after the 90th day of storage:

ii. The quantity of the waste.

Comments/Findings: At the time of inspection, observations revealed that waste oil 252L was kept on site for more than 90 days.

Act/Reg: EPA|Reg347|23(2)(b)(ii) **Non-Compliance Yes**

Act/Reg Wording: *23(2)(b)(ii) Where subject waste is transferred to a waste transportation system by a generator and a paper manifest is used,*

(b) for each truckload or part thereof transferred, the generator shall obtain from the carrier the intact manifest, with section B completed, and shall,

(ii) remove Copy 1 (White) and return it to the Director within three working days after the transfer

Comments/Findings: At the time of inspection, observations revealed that Manifest #'s BN44219-5 and RE30366-5 had a White Copy (copy 1) retained at the premises.

Act/Reg: OWRA|Reg387/04|9(1) **Non-Compliance Yes**

Act/Reg Wording: *9(1) Every person to whom a permit has been issued under section 34 of the Act shall collect and record data on the volume of water taken daily.*

Comments/Findings: At the time of inspection, observations revealed that a metering valve on Quarry Pump #1 was missing and being repaired. Water volume uptake cannot be monitored accurately without the meter.

Act/Reg: OWRA|Reg903|21.1(1)8 ii **Non-Compliance Yes**

Act/Reg Wording: *21.1(1)8 ii If a well is abandoned, the person abandoning the well shall ensure that the following steps are taken and, unless otherwise specified, they shall be taken in the sequence in which they are set out in this subsection:*

8. The well shall be sealed at the ground surface by,

ii. fill the remaining well opening to the ground surface with soil cover, or other material that is more in keeping with the surface material immediately adjacent to the well opening, to prevent inadvertent or unauthorized access.

Comments/Findings: At the time of inspection, observations revealed that a ground water monitoring well was not locked to prevent access by un-authorized persons.

Field Inspection Observations

Act/Reg:	**EPA|Act|157.1(1)(a)**	**Non-Compliance No**
Act/Reg Wording:	*A provincial officer may issue an order to any person who owns or who has management or control of an undertaking or property if the provincial officer reasonably believes that the requirements specified in the order are necessary or advisable so as,* *(a) to prevent or reduce the risk of a discharge of a contaminant into the natural environment from the undertaking or property;*	
Comments/Findings:	At the time of inspection, observations revealed that an interceptor used in the maintenance shop had no integrity testing and was full of waste material.	

Act/Reg:	**OWRA|Reg387/04|9(8)(3)**	**Non-Compliance No**
Act/Reg Wording:	*9(8)(3) Paragraph 3 of subsection (5) applies to every person to whom a permit has been issued under section 34 of the Act for taking water for any of the following purposes:* *3. Any purpose not described in subsection (6) or (7).*	
Comments/Findings:	The permit has been issued for de-watering purposes.	

Observation:	Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material?	
Observation Type:	Other	Response: No
Comments/Findings:	There was no indication of a health or environmental impact after review of relevant material.	

Observation:	Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment?	
Observation Type:	Other	Response: No
Comments/Findings:	There was no indication of a know or suspected violation of a legal requirement during the inspection and after review of relevant material that could cause a health or environmental impact.	

Observation:	Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate?	
Observation Type:	Other	Response: No
Comments/Findings:	There was no indication of a health or environmental impact during the inspection.	

Observation:	Was there any indication of a potential for a human health impact or environmental impairment during the inspection and/or the review of relevant material?	
Observation Type:	Other	Response: No
Comments/Findings:	There was no indication for the potential for a human health impact or environmental impairment during the inspection or review of relevant material.	

Recommended Actions

Conditions of Permit to Take Water (PTTW) # 96-P-3009 were generally met. However, I am requesting that you repair the metering unit for the Northwest sump so that the monitoring process for water uptake can resume. Please ensure meter is repaired by September 30th, 2009 and inform me, in writing, when it is installed and working.

In addition to the above, there were other non-compliance items to O. Reg. 347 and the OWRA as listed in the inspection report observations;

a.) Please ensure that the interceptor in the maintenance shop is pumped and checked for integrity OR sealed.

b.) Ensure that a 90 day storage report is filed with the Halton/Peel Office for waste storage for more than 90 days OR remove then waste via certified carrier within the 90 period.

c.) Please ensure that all ground water monitoring wells on-site are secure from access by un-authorized persons.

d.) Please review the O. Reg 347 manifest preparation and filing procedures to avoid violations in the future.

I am requesting that all items listed above are to be completed by September 30th, 2009. Once completed, please inform me in writing.

This Inspection Report does not in any way suggest that there is or has been compliance with all applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements.

Sign-Off

Primary Officer **MARK POWELL** **Badge Number** **762**

Date Oct 9/09

Signature

Ontario

Ontario Ministry of the Environment

Sector Compliance Branch

INSPECTION REPORT

Nelson Aggregate Company
Lot 2, Concession 2 & 3
Lot 2 Concession 2 & 3

Burlington, ON, L0R 1B0
District Office: Halton-Peel

Inspection Completion Date: Aug 11, 2009

Company Information

Company Identification

Company Name	Business Identification Number	Business Name
Nelson Aggregate Co.		

Company Address

Street Address, Unit Identifier		District Office	
2433 No 2 Sideroad, PO Box 1070		Halton-Peel	
Municipality (Type)	**County/District**	**Province**	**Postal Code**
Burlington (City)	Regional Municipality of Halton	ON	L7R 4L8

Company Mailing Address

Same As Company No

Street Address, Unit Identifier		City
2433 No 2 Sideroad, PO Box 1070		Burlington
Province/State	**Postal Code**	**Country**
ON	L7R 4L8	Canada

Inspection Information

Inspection Report 1-AP07B **Pass/Fail** ADMINISTRATIVE FAIL

Incident Report Reference Number (IRRN):

Inspection Report Summary

On August 11th, 2009, at 13:00. an inspection was conducted at the Nelson Aggregate Company in the Halton Hills. The site is a medium sized quarry consisting of aggregate of stone. The Company has a permit to take water # 96-P-3009 issued in April of 1996. There is no expiry date on the permit. The permit is issued for the de-watering of the quarry. During the inspection, Randy Warren, Safety and Environment Manager, accompanied me and provided me with information. There are two pumps used for the dewatering process and both are submersible pumps. Both pump houses are equipped with flow sensors, electronic flow meters and data loggers. At the time of inspection, observations revealed that Pump #1 had the meter missing from the monitoring line. Water quality from both discharge points were visibly clear. Ground water wells were installed on site to monitor ground water levels. One well was not secure. Waste oil is generated at the site from vehicle oil changes. A manifest review indicated minor non-compliance with O. Reg 347. Waste oil is being stored for more than 90 days. The shop interceptor containment integrity is unknown. The drilled well on site is for domestic use.

Site Information

Site Identification

Site Name
Nelson Aggregate Company

District Office
Halton-Peel

Contact Name : Randy Warren

Contact Phone # : (905) 335-5250

Site Address

Street Address, Unit Identifier
Lot 2, Concession 2 & 3

Lot	Concession	Part	Reference Plan
2	2 & 3		

Municipality (Type)	County/District	Province	Postal Code
Burlington (City)	Regional Municipality of Halton	ON	L0R 1B0

Site Mailing Address

Same As Site Address: No

Street Address, Unit Identifier

City

Province/State **Postal Code** **Country**

Inspection Team

Inspection Role	Officer Name	Officer Badge Number
Primary Officer	Mark Powell	762
Supervisor	Jatinbhai Patel	950

Instruments Issued

ID	Type	Amend	Status	Issuing Officer	Badge #
SCB-762-028-09	Letter	No	Served	POWELLMA	762

Other Parties: No Other Parties Named

Officer Comments: letter issued to Company to address listed non-compliance.

Date Issued: Aug 19, 2009

Last Compliance Date: Sep 30, 2009

Field Inspection Observations

Checklist Name: **Unnamed Checklist**

Act/Reg: **EPA|Reg347|17.2(5)(ii)** **Non-Compliance Yes**

Act/Reg Wording: *17.2(5)(ii) If a waste generation facility to which subsection 17.1 (1) applies stores subject waste, the operator and the owner of the facility shall ensure that it is operated in accordance with the following rules:*

(5) If subject waste is stored at the waste generation facility for more than 90 days, a record must be made of the following information within five business days after the 90th day of storage:

ii. The quantity of the waste.

Comments/Findings: At the time of inspection, observations revealed that waste oil 252L was kept on site for more than 90 days.

Act/Reg: **EPA|Reg347|23(2)(b)(ii)** **Non-Compliance Yes**

Act/Reg Wording: *23(2)(b)(ii) Where subject waste is transferred to a waste transportation system by a generator and a paper manifest is used,*

(b) for each truckload or part thereof transferred, the generator shall obtain from the carrier the intact manifest, with section B completed, and shall,

(ii) remove Copy 1 (White) and return it to the Director within three working days after the transfer

Comments/Findings: At the time of inspection, observations revealed that Manifest #'s BN44219-5 and RE30366-5 had a White Copy (copy 1) retained at the premises.

Act/Reg: **OWRA|Reg387/04|9(1)** **Non-Compliance Yes**

Act/Reg Wording: *9(1) Every person to whom a permit has been issued under section 34 of the Act shall collect and record data on the volume of water taken daily.*

Comments/Findings: At the time of inspection, observations revealed that a metering valve on Quarry Pump #1 was missing and being repaired. Water volume uptake cannot be monitored accurately without the meter.

Act/Reg: **OWRA|Reg903|21.1(1)8 ii** **Non-Compliance Yes**

Act/Reg Wording: *21.1(1)8 ii If a well is abandoned, the person abandoning the well shall ensure that the following steps are taken and, unless otherwise specified, they shall be taken in the sequence in which they are set out in this subsection:*

8. The well shall be sealed at the ground surface by,

ii. fill the remaining well opening to the ground surface with soil cover, or other material that is more in keeping with the surface material immediately adjacent to the well opening, to prevent inadvertent or unauthorized access.

Comments/Findings: At the time of inspection, observations revealed that a ground water monitoring well was not locked to prevent access by un-authorized persons.

Field Inspection Observations

Act/Reg:	**EPA|Act|157.1(1)(a)**	**Non-Compliance No**
Act/Reg Wording:	*A provincial officer may issue an order to any person who owns or who has management or control of an undertaking or property if the provincial officer reasonably believes that the requirements specified in the order are necessary or advisable so as,* *(a) to prevent or reduce the risk of a discharge of a contaminant into the natural environment from the undertaking or property;*	
Comments/Findings:	At the time of inspection, observations revealed that an interceptor used in the maintenance shop had no integrity testing and was full of waste material.	

Act/Reg:	**OWRA|Reg387/04|9(8)(3)**	**Non-Compliance No**
Act/Reg Wording:	*9(8)(3) Paragraph 3 of subsection (5) applies to every person to whom a permit has been issued under section 34 of the Act for taking water for any of the following purposes:* *3. Any purpose not described in subsection (6) or (7).*	
Comments/Findings:	The permit has been issued for de-watering purposes.	

Observation:	Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material?	
Observation Type:	Other	Response: No
Comments/Findings:	There was no indication of a health or environmental impact after review of relevant material.	

Observation:	Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment?	
Observation Type:	Other	Response: No
Comments/Findings:	There was no indication of a know or suspected violation of a legal requirement during the inspection and after review of relevant material that could cause a health or environmental impact.	

Observation:	Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate?	
Observation Type:	Other	Response: No
Comments/Findings:	There was no indication of a health or environmental impact during the inspection.	

Observation:	Was there any indication of a potential for a human health impact or environmental impairment during the inspection and/or the review of relevant material?	
Observation Type:	Other	Response: No
Comments/Findings:	There was no indication for the potential for a human health impact or environmental impairment during the inspection or review of relevant material.	

Recommended Actions

Conditions of Permit to Take Water (PTTW) # 96-P-3009 were generally met. However, I am requesting that you repair the metering unit for the Northwest sump so that the monitoring process for water uptake can resume. Please ensure meter is repaired by September 30th, 2009 and inform me, in writing, when it is installed and working.

In addition to the above, there were other non-compliance items to O. Reg. 347 and the OWRA as listed in the inspection report observations;

a.) Please ensure that the interceptor in the maintenance shop is pumped and checked for integrity OR sealed.

b.) Ensure that a 90 day storage report is filed with the Halton/Peel Office for waste storage for more than 90 days OR remove then waste via certified carrier within the 90 period.

c.) Please ensure that all ground water monitoring wells on-site are secure from access by un-authorized persons.

d.) Please review the O. Reg 347 manifest preparation and filing procedures to avoid violations in the future.

I am requesting that all items listed above are to be completed by September 30th, 2009. Once completed, please inform me in writing.

This Inspection Report does not in any way suggest that there is or has been compliance with all applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements.

Sign-Off

Primary Officer **MARK POWELL** **Badge Number** **762**

Date Aug 19/09

Signature

Ontario

Ministry of the Environment
Ministère de l'Environnement

INCIDENT REPORT

Reference Number:	3836-7WCNWD	**File Storage Number:**	1-AP07B
Module:	Incident Reporting	**Module Type:**	Pro-Active
Cross Reference:	(doc link)	**Task Link:**	8846-7WCP4M
Originating Document:		**Created by:**	Mark Powell
Incident Report Reference Number:		3836-7WCNWD	
Date Created:	2009/09/29	**Date Completed:**	
Bring Forward Date:		**Bring Forward Reason:**	
Status:	Recommended		
Program	Water - Ground & Surface	**Activity:**	SCB Inspection

Is this an air emmission (measured or modeled) or wastewater (sewage) discharge exceedance? (Certificate of Approval, Order, Guideline, or Legislation, including but not limited to: Air Standards, Air Guidelines, and Upper Risk Thresholds)

○ Yes ● No ○ To be determined

Caller or PO Information

Reported By:

First Name	Last Name
Mark	Powell

Contact Mailing Address

Municipality:

Burlington

Reported By:

MOE Information

Date & Time Reported to MOE:	2009/08/11 13:00		
Office Receiving Incident Report:	Sector Compliance Branch		
Incident Info Received By:	Mark Powell		
MOE Response:	No Further Response (PR-PIR Table A)	**Site Region:**	Central
Date & Time of MOE Arrival at Scene:			
Master Incident Report Number:			
SAC Action Class:			
Non-Standard Procedure:	No		
ERP Call-out Initiated:			

Client(s)

Information
Show Map

Nelson Aggregate Co., Business/Facility Name: Nelson Aggregates, Lincoln Quarry
Mailing Address: Post Office Box, 1070, Burlington, Ontario, Canada, L7R 4L8
Physical Address: No. 2 Sideroad, Burlington, City, Regional Municipality of Halton, Ontario, Canada
Telephone: (905)335-5250, FAX: (905)336-5697, email: tom.palko@nelsonaggregate.com
Client #: 3004-5Z4RSY, Client Type: Corporation, NAICS: 212319

Site(s)

Information
Show Map

2433 No. 2 Sideroad
Address: Lot: 17, Concession: 2 North, Burlington, City, Regional Municipality of Halton
District Office: Halton-Peel
GeoReference: Map Datum: NAD83, Accuracy Estimate: 1-10 metres eg. Good Quality GPS, Method: Map, ,

Incident Information

Incident Summary: SCB Pro-Active PTTW Inspection
cannot be longer than 60 characters

Incident Description: On August 11th, 2009, at 13:00. an inspection was conducted at the Nelson Aggregate Company in the Halton Hills. The site is a medium sized quarry consisting of aggregate of stone. The Company has a permit to take water # 96-P-3009 issued in April of 1996. There is no expiry date on the permit. The permit is issued for the de-watering of the quarry. During the inspection, Randy Warren, Safety and Environment Manager, accompanied me and provided me with information. There are two pumps used for the dewatering process and both are submersible pumps. Both pump houses are equipped with flow sensors, electronic flow meters and data loggers. At the time of inspection, observations revealed that Pump #1 had the meter missing from the monitoring line. Water quality from both discharge points ware visibly clear. Ground water wells ware installed on site to monitor ground water levels. One well was not secure. Waste oil is generated at the site from vehicle oil changes. A manifest review indicated minor non-compliance with O. Reg 347. Waste oil is being stored for more than 90 days. The shop interceptor containment integrity is unknown. The drilled well on site is for domestic use.

August 12, 2009 - Inspection Completed
August 19, 2009 - Letter SCB-762-028-09 Served
September 22, 2009 Email From Company - partial Compliance confirmed
September 29, 2009 - Non-Compliance - meter not repaired
September 29, 2009 - Letter SCB-762-028-09 Served
October 06, 2009 - Company Letter SCB-762-028-09 in Compliance
October 09, 2009 file closed

Links & Comments:

Attachments Names: cover1.doc; Northwest_Sump.csv; P1000988.JPG; P1000989.JPG; P1000990.JPG; P1000991.JPG; P1000992.JPG; P1000993.JPG; P1000994.JPG; P1000995.JPG; P1000996.JPG; P1000997.JPG; P1000998.JPG; P1000999.JPG; Response.pdf; South_Central_Pump.csv; Water Chemistry.pdf

Date & Time of Incident: **Incident Date Confirmation ?** Actual
2009/08/12 13:00

Source Type:
Sector Type:
Nearest Watercourse:
Watershed Category Code:
Environmental Impact:

Nature of Impact:

Incident Cause: **Incident Reason:**

Damaged Party: No

Contaminants Table							
	Contaminant	Code	UN#	Limit	Quantity	[units]	[freq]

Controller of Material: **Owner of Material:**

Estimated Clean Up Cost: **Who Cleaned Up:**

% Clean Up: % **Agencies Involved:**

Voluntary / Mandatory Abatement

Is there Voluntary Abatement Activity? ● Yes ○ No ○ To be determined

Voluntary / Mandatory Compliance Items

Type	Parent RefNo	Work Summary (may be truncated)	Date	AttainList
VA	3836-7WCNWD	Conditions of Permit to Take Wate...	2009/09/29	2009/10/06

Offence(s)

Suspected Violation(s)/Offence(s):

Act - Regulation - Section,
Description
{General Offence}
1) EPA - Reg. 347 - 17.2 5.,
if subject waste is stored at the waste generation facility for more than 90 days, a record must be made of the following information within five business days after the 90th day of storage: i. The name and waste number of the waste. ii. The quantity of the waste. iii. The manner in which the waste is stored. iv. The reasons for storing the waste. v. The anticipated time and manner of disposal of the waste.
{186(1)}

2) EPA - Reg. 347 - 23 (2)(b)(ii),
Where subject waste is transferred to a waste transportation system by a generator and a paper manifest is used, for each truckload or part thereof transferred, the generator shall remove Copy 1 (White) and return it to the Director within three working days after the transfer.
{186(1)}

3) OWRA - Reg. 387/04 - 9 (1),
Every person to whom a permit has been issued under section 34 of the Act shall collect and record data on the volume of water taken daily.
{107 (1)}

Provincial Officer:

Name: **Mark Powell**
Badge No: **762**

Work Unit: **Unit 2**
District/Area Office: **Sector Compliance Branch**
Date: **2009/09/10**

Signature:



District/Area Supervisor:
Name:

Work Unit:
District/Area Office:
Date:

Signature:

NELSON AGGREGATE CO.

To:

Mark Powell
Officer #762
Sector Compliance branch
Ministry of the Environment

Re: Inspection Report #1-AP07B

This letter is to inform you that the meter has been repaired and has been installed.

Yours truly

Randy Warren P.Eng
Safety and Environment Manager

HEAD OFFICE
P.O. Box 1070, Burlington, Ontario, L7R 4L8
Telephone: 905-335-5250 1-800-263-6320 Fax: 905-332-4484

OSSGA

NELSON AGGREGATE CO.

To:

Mark Powell
Officer #762
Sector Compliance branch
Ministry of the Environment

Re: Inspection Report #1-AP07B
Recommended Actions

a. Floor interceptor in the garage has been pumped and sealed.
   (i) NOCO pumped out pit on September 2, 2009.

b. Arrangements have been made with NOCO (our waste hauler) to remove waste oil every 90 days.

c. The two ground water monitoring wells have been secured, thus ensuring no un-authorized access.

d. Manifesting procedures as per O. Reg 347 have been developed and communicated to the appropriate staff and are now in place.

Yours truly

R. E. Warren

Randy Warren P.Eng
Safety and Environment Manager

HEAD OFFICE
P.O. Box 1070, Burlington, Ontario, L7R 4L8
Telephone: 905-335-5250 1-800-263-6320 Fax: 905-332-4484

OSSGA

Ministry of the Environment

Sector Compliance Branch
305 Milner Ave, Suite 1000
Scarborough, ON M1B 3V4
Tel.: 416-314-4278
Fax.: 416-314-4464

Ministère de l'Environnement

Direction de la mise en conformité des secteurs
305, avenue Milner, bureau 1000
Scarborough, ON M1B 3V4
Tél.: 416-314-4278
Téléc.: 416-314-4464

Ontario

Randy Warren
Nelson Aggregate Company
PO Box 1070
Burlington, ON
L7R 4L8

August 19th, 2009

Dear Randy Warren;

This letter is in regards to the inspection conducted on August 11th, 2009. Attached to this letter is an inspection report which contains observations gathered at the time of inspection. The purpose of this inspection was to access the state of compliance with the EPA and OWRA at your site.

Conditions of Permit to Take Water (PTTW) # 96-P-3009 were generally met. However, I am requesting that you repair the metering unit for the Northwest sump so that the monitoring process for water uptake can resume. Please ensure meter is repaired by September 30th, 2009 and inform me, in writing, when it is installed and working.

In addition to the above, there were other non-compliance items to O. Reg. 347 and the OWRA as listed in the inspection report observations;

a.) Please ensure that the interceptor in the maintenance shop is pumped and checked for integrity OR sealed.

b.) Ensure that a 90 day storage report is filed with the Halton/Peel Office for waste storage for more than 90 days OR remove then waste via certified carrier within the 90 period.

c.) Please ensure that all ground water monitoring wells on-site are secure from access by un-authorized persons.

d.) Please review the O. Reg 347 manifest preparation and filing procedures to avoid violations in the future.

I am requesting that all items listed above are to be completed by September 30th, 2009. Once completed, please inform me in writing.

If you have any questions regarding the inspection report, please contact me and I will gladly assist you. Your co-operation and assistance with this inspection was much appreciated.

Regards;

Mark Powell
Officer #762
Sector Compliance Branch
Ministry of the Environment
416 314 0719

DATE
AND TIME

Aug 11/09

PTTW CONDITIONS - PERMIT 96-P-3009 INDEFINITE

PERMIT ON SITE - Y/N ? ✓

ANY COMPLAINTS → HAVE COMPLAINTS WHEN PUMP SHUT DOWN →

ADDRESS OR OWNER CHANGE ? → N

SCHEDULE "A" SUMP #1 SUMP #2

COMPLIANCE - RECORDS

~~PART~~ SPECIFIC CONDITIONS FOR RECORDING.

AS LISTED CONDITION 3(b) — KEEP RECORDS

WATER METERS USED FOR EACH SUMP.

MONITORING LITRES/MIN.

24 HRS/DAY → MONITORED — LOGGED IN AS CHART.

→ MAINTENANCE RECORDS?

NO PERIOD INSPECTIONS

→ WELLS — RECORDS FOR G.W. MONITORING — WELLS.

→

SUBJECT WASTE - REG 347

ON 0476401 → → 252L → 213T →

→

OWRA → SEWAGE WORKS.

→ NO?

PHOTOS - PUMP #1 LARGE

METER BROKEN

PUMP # 2 SMALL

METER RUNNING → →

1

DATE
AND TIME

DISCHARGE POINT SUMP #2 → GRINDSTONE
DISCHARGING VISIBLY CLEAN WATERS
WATER QUALITY DATA →
DISCHARGE POINT - SUMP #1
- BROWNE CREEK. - WATER VISIBLY
CLEAN - WILL SEND WATER QUALITY
SECT 53 ? → REPORT

COMPANY INSTALLED GMWS TO
CHECK LEVELS OF GROUND WATER

GMW's NOT SECURE. REG 903
GROUT BASE OF WELL

COPY #1 HAS SUBMITTED - NOT
→ BN 4219-5, PE 30366-5
NO BROWN COPY.

90 DAY STORAGE → 1 YRS.

REG 347 → INTERCEPTOR.

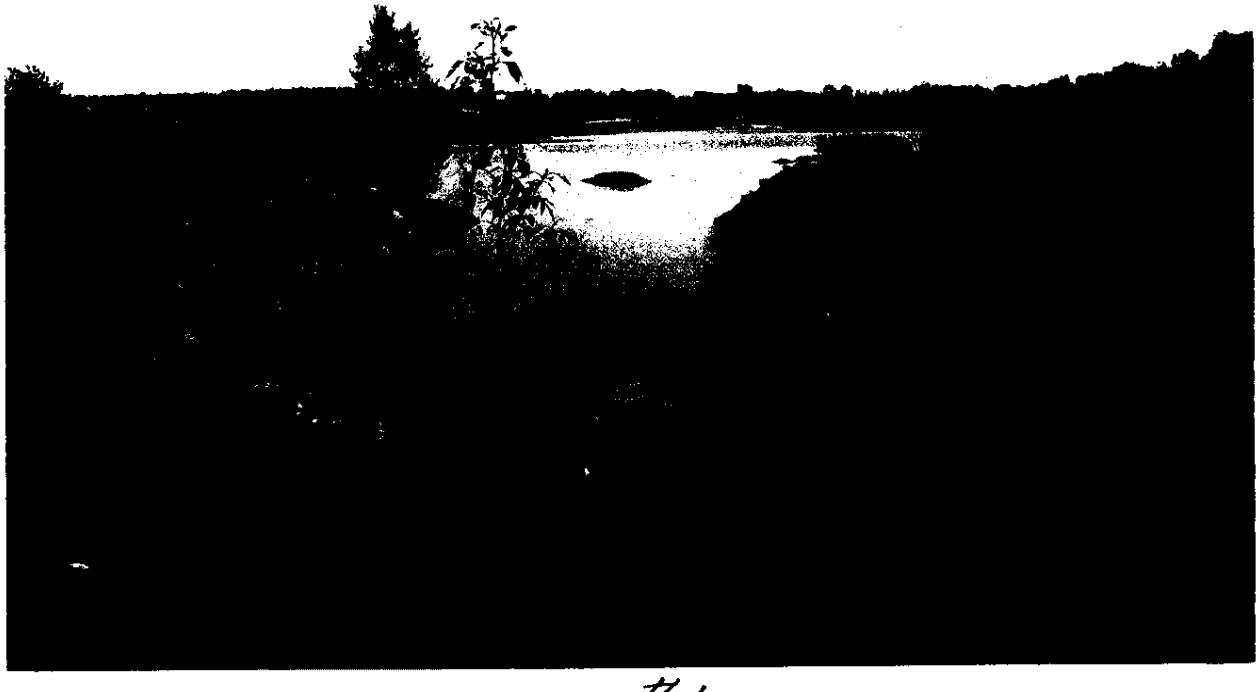
SEMP → DATA -> RECORDS
→ WATER QUALITY DATA
→

Nelson Burlington Quarry
22 June 2009 Water Quality Results for SW02A andSW04D

Alkalinity (as CaCO3)	mg/L	Variable		104	202
Conductivity	umhos/cm			844	1070
Hardness (as CaCD3)	mg CaCO3/L			340	400
pH	pH units	Variable		7.4	7.8
Ammonia (un-ionized)	mg/L	0.02		<0.02	<0.02
Nitrate	mg/L			<0.1	<0.1
Nitrite	mg/L			<0.01	<0.01
Oxygen (Biochemical Demand)	mg/L			<2	2
Phosphorus (Total)	mg/L		0.03	0.014	0.013
e coli	CFU/ 100 ml	100		<10	10
Bromide	mg/L			<1	<1
Chloride	mg/L			66	127
Fluoride	mg/L			0.2	0.2
Phosphate	mg/L			<0.01	<0.01
Sulphate	mg/L			233 X	164
Oil & Grease (Animal)	mg/L			1.1	<0.5
Oil & Grease (Mineral)	mg/L			<0.5	<0.5
Oil & Grease (Total)	mg/L			1.1	<0.5
TPH - Diesel	ug/L			<100	<100
Total Dissolved Solids	mg/L			508 X	616
Total Suspended Solids	mg/L			<1	<1
Aluminum	mg/L			0.015	0.008
Aluminum (Filtered)	mg/L		Variable	<.005	<.005
Antimony	mg/L		0.02	0.0008	<0.0005
Arsenic	mg/L	0.1	0.005	0.004	0.007
Barium	mg/L			0.018	0.034
Beryllium	mg/L	Variable		<0.0005	<0.0005
Bismuth	mg/L			<0.001	<0.001
Boron	mg/L		0.2	0.078	0.12
Cadmium	mg/L	0.0002	Variable	<0.0001	<0.0001
Calcium	mg/L			73	95
Chromium	mg/L			<0.005	<0.005
Cobalt	mg/L	0.0009		<0.0005	<0.0005
Copper	mg/L	0.005	Variable	0.001	0.001
Iron	mg/L	0.3		<0.1	0.22
Lead	mg/L	Variable	Variable	<0.0005	<0.0005
Magnesium	mg/L			43	46
Manganese	mg/L			0.01	0.016
Molybdenum	mg/L		0.04	0.003	0.002
Nickel	mg/L	0.025		0.002	0.002
Potassium	mg/L			5.1	5.8
Selenium	mg/L	0.1		<0.002	<0.002
Silver	mg/L	0.0001		<0.0001	<0.0001
Sodium	mg/L			30	63
Strontium	mg/L			0.93	1.3
Thallium	mg/L		0.0003	0.00009	<0.00005
Tin	mg/L			<0.001	<0.001
Titanium	mg/L			<0.005	<0.005
Uranium	mg/L		0.005	0.0009	0.0009
Vanadium	mg/L		0.006	<0.001	<0.001
Zinc	mg/L	0.03	0.02	0.007	0.009



#1 PUMP #1 - SUBMERSIBLE - METER BROKEN



#2 DEWATERING POND #1



#3 PUMP #1 CONTROL ~~HUT~~ SHACK



#4 BY-PASS



#5 MONITORING GAGE - PUMP #1 - DATA



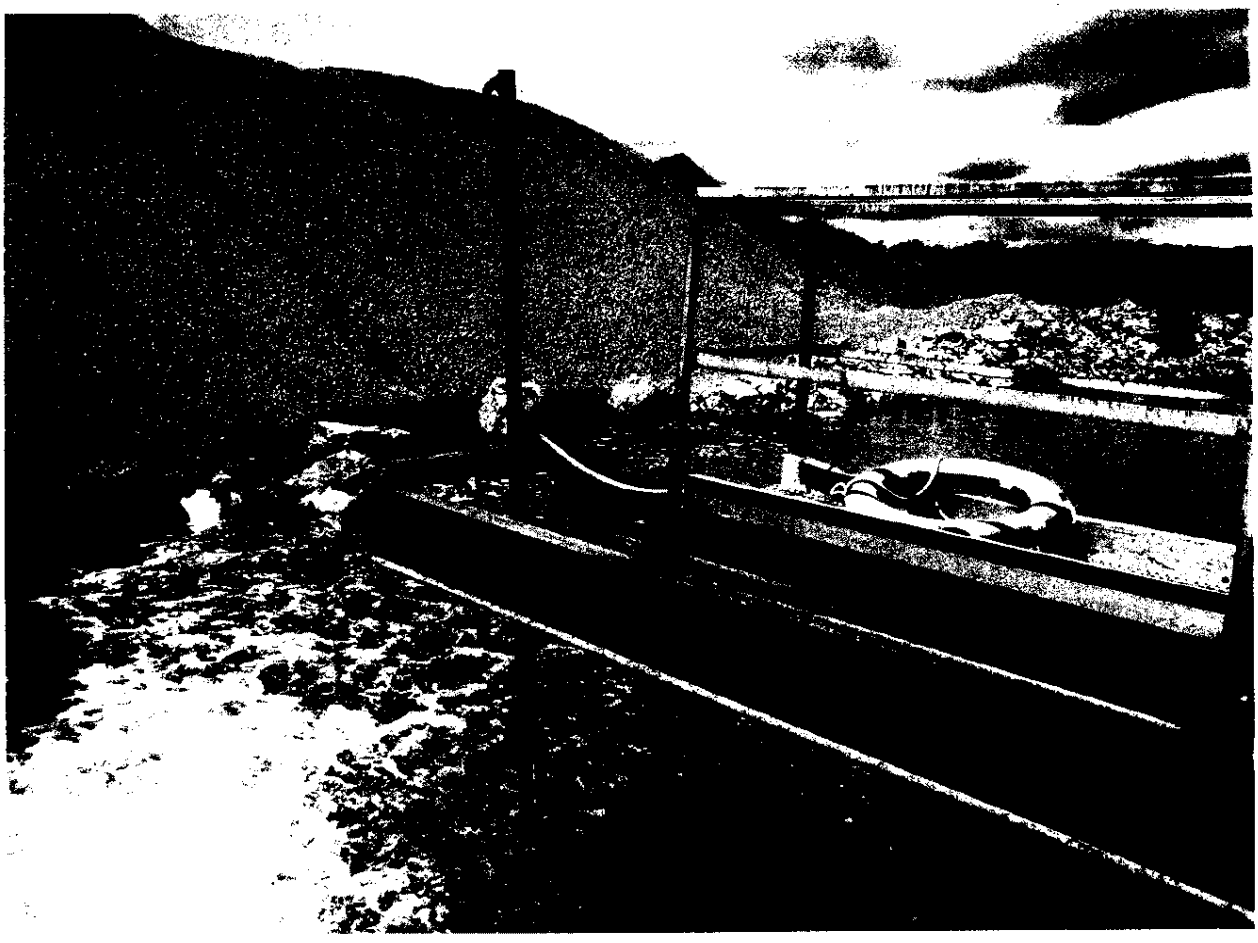
#6 PUMP METER #2



#7 PUMP #2 BY PASS



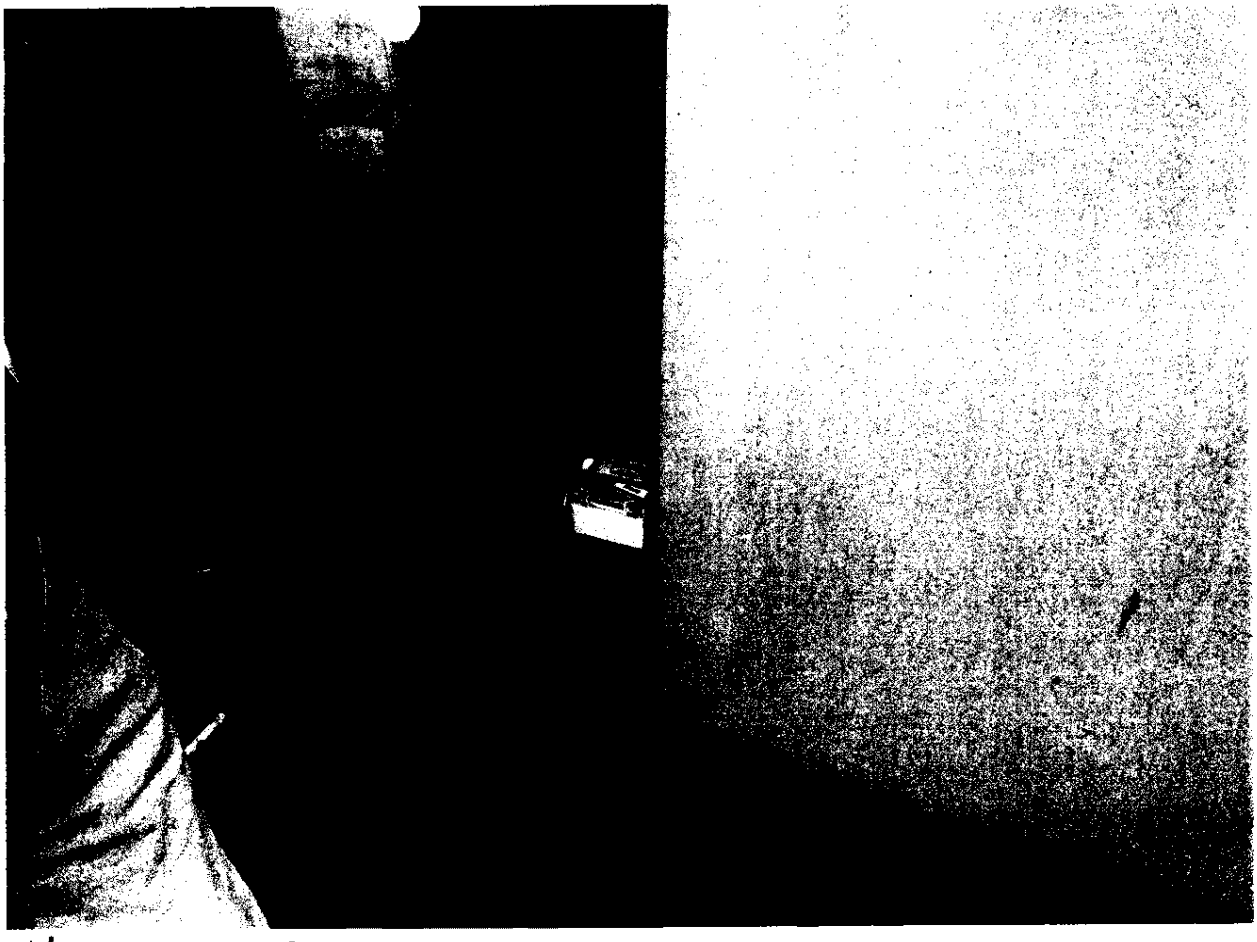
#8 SAME.



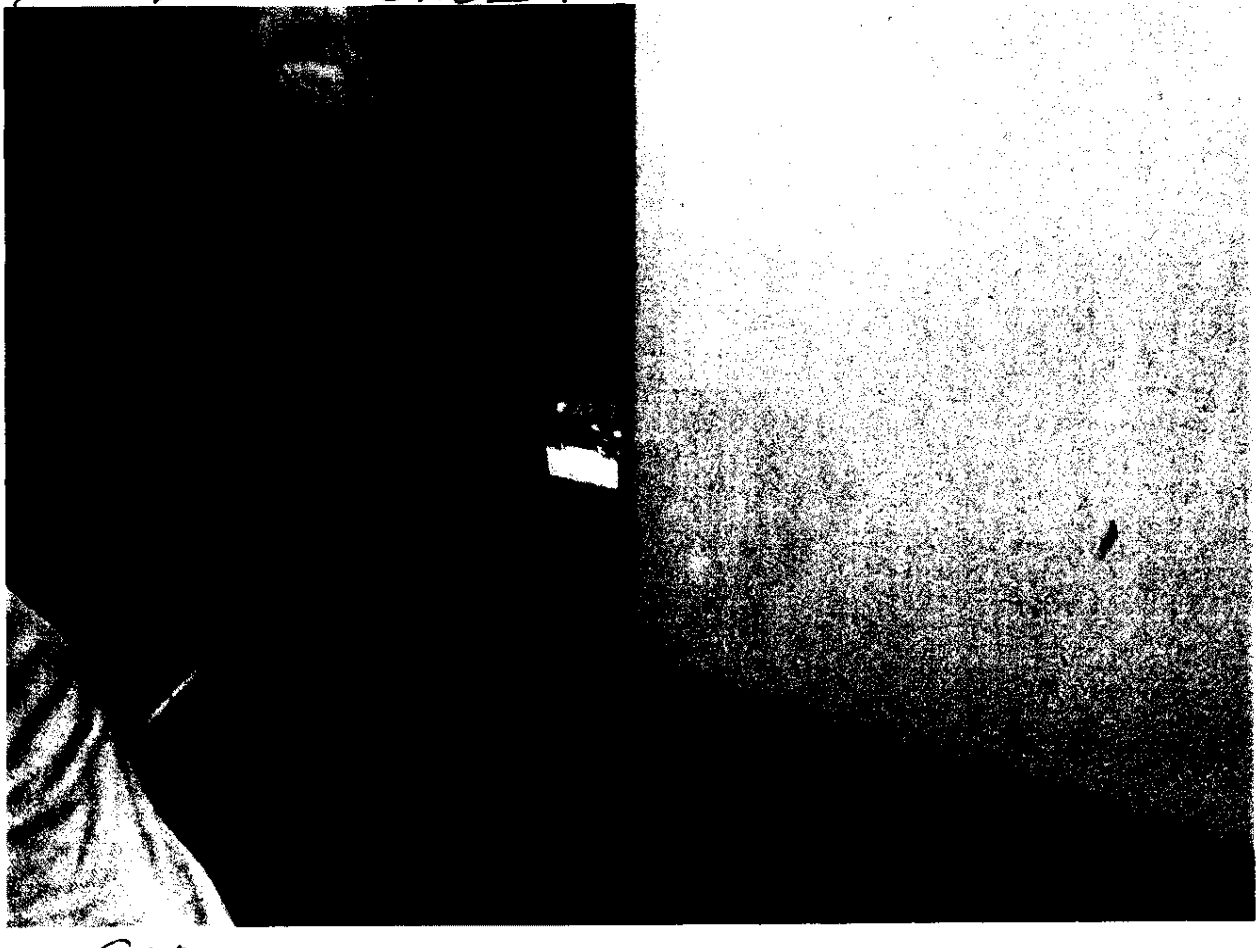
#9 DISCHARGE POND #2



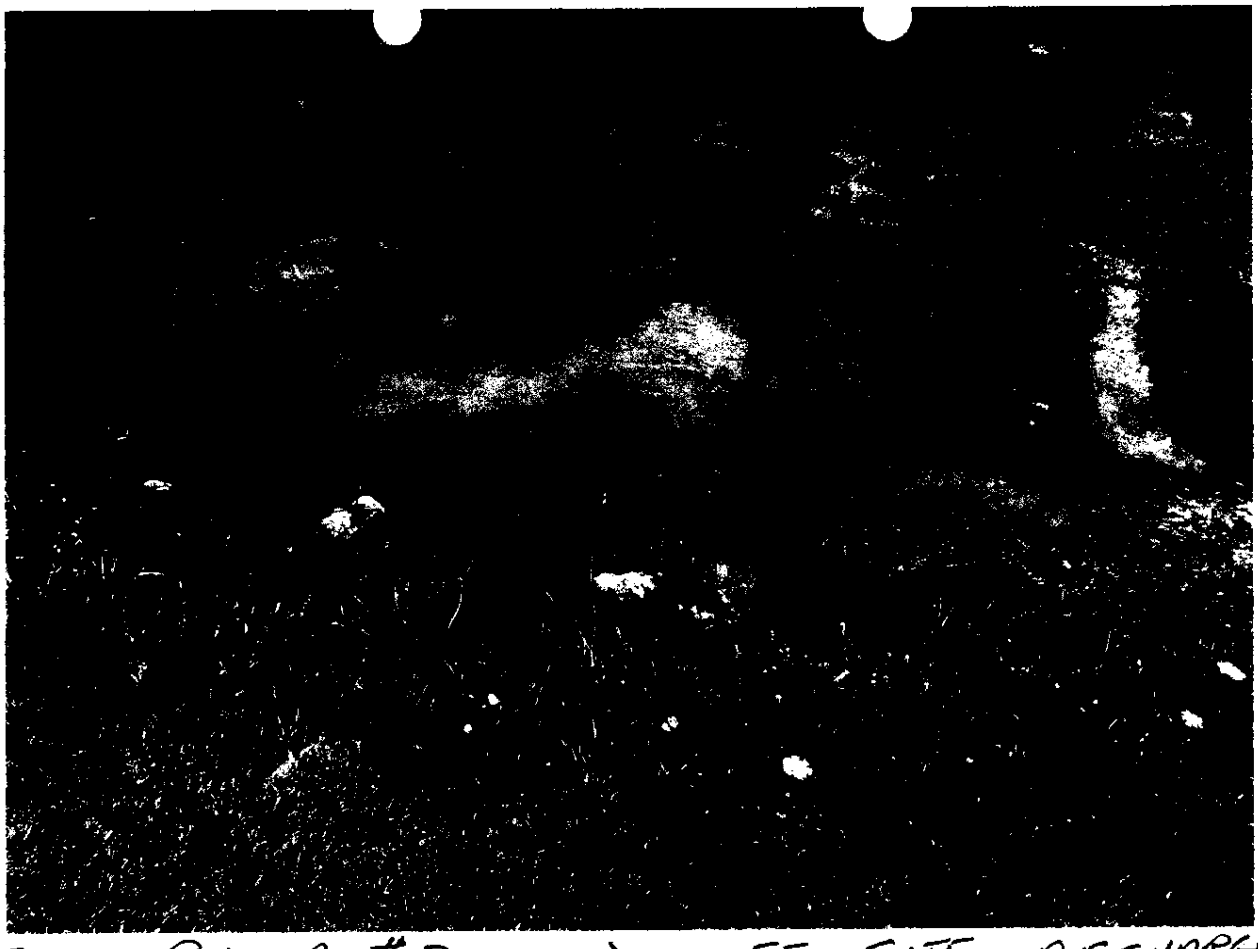
#10 SAME



11 DATA GAGE.



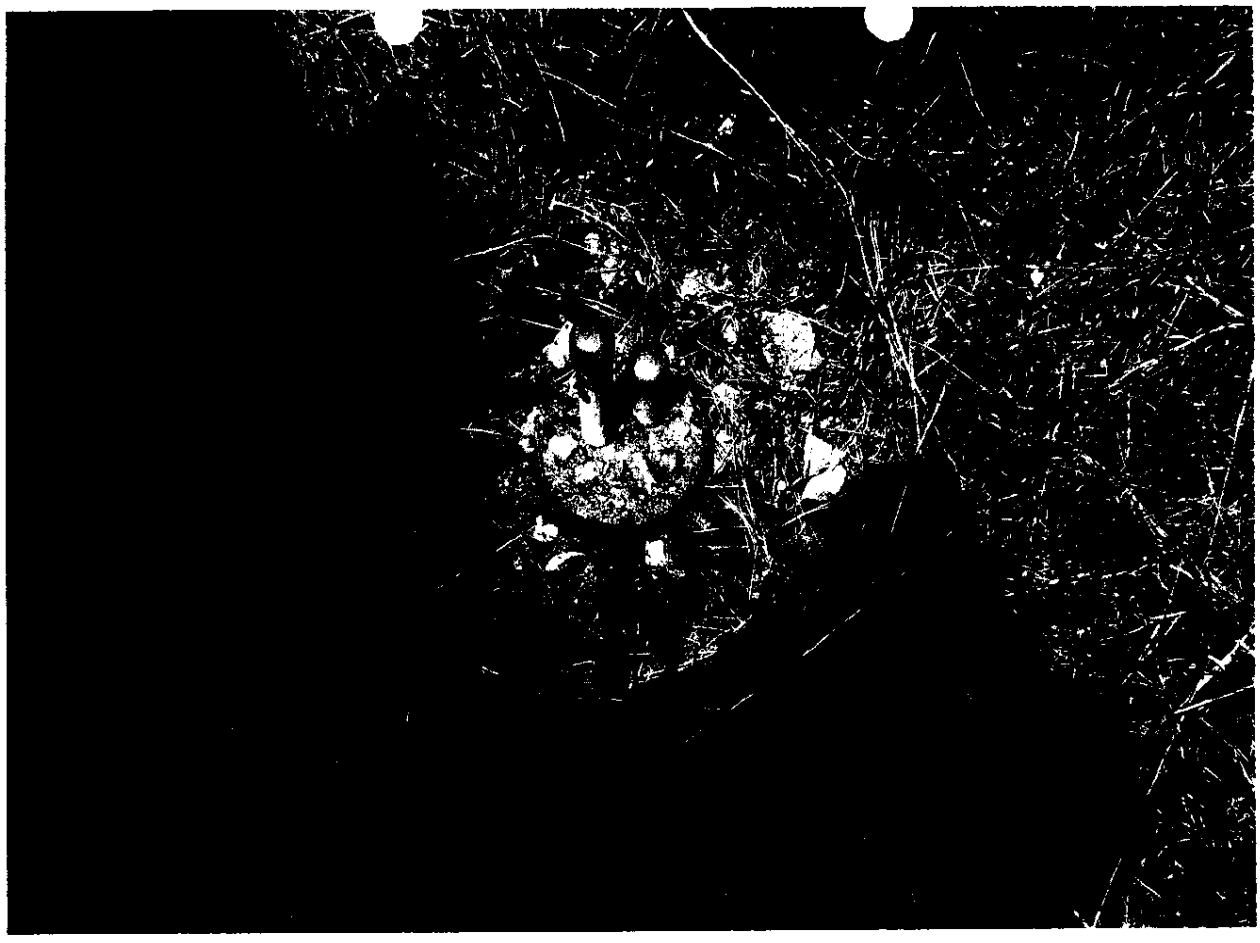
12 SAME



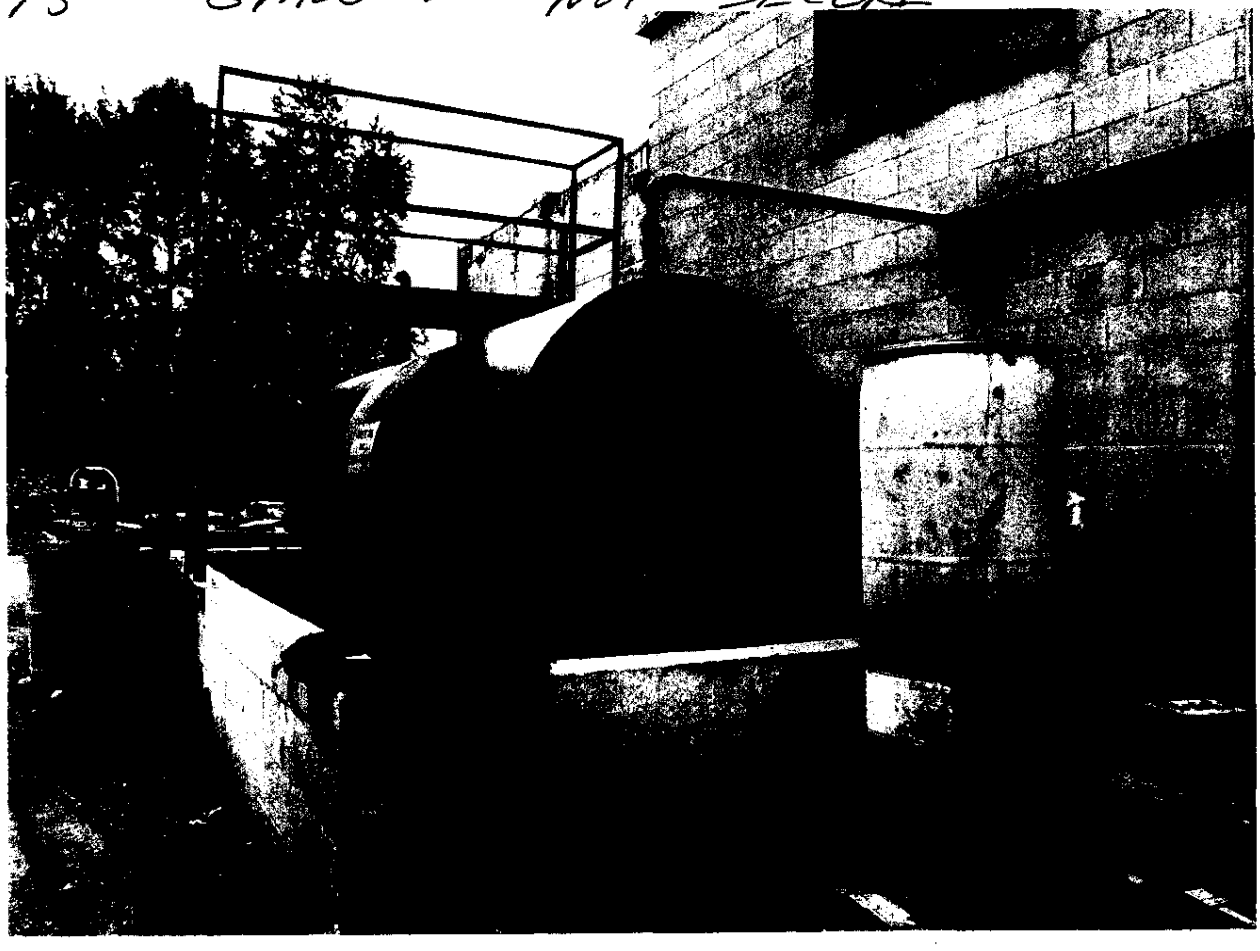
#13 PUMP #2 → OFF SITE DISCHARGE



#14 PUMP #1 – OFF SITE DISCHARGE



#15 GMW — NOT SECURE



#16 WASTE OIL



#17 BATTERIES ON GROUND



#18 INTERCEPTOR - INTEGRITY UNKNOWN

Aug 11/09

13:00 ARRIVE NELSON AGGREGATES 2ND LINE & GUELPH LINE.

GPS 17 0590664 4806043

INSPECTION

PERMIT - 2 V105

REG 347 - 2+2

OWRA - WQ DATA

15:30 LEFT SITE

200

Mark Powell
Provincial Officer #762
Inspector
Sector Compliance Branch

Ontario

Ministry of the Environment
305 Milner Avenue, Suite 1000
Scarborough ON M1B 3V4
Tel: 416 314-0719
Fax: 416 314-4464
E-mail: Mark.Powell@ene.gov.on.ca

...accused, also...
...of the community or protect national security.

Here are a few suggested replies that indicate why you can't answer a media question, while still avoiding the "*no comment*" reply:

1. It's under investigation.
2. That's an area we would rather not talk about right now.
3. When the investigation is complete, we'd be glad to share the details with you.
4. The judge has issued a publication ban on the case which prevents me from speaking about matters before the court. A number of issues surrounding this case will be dealt with in the courtroom over the course of the inquiry/case/trial. We will be stating our position at that time.

NOTE: *These are Triform suggested guidelines only. You must follow the authorized instructions of your service and superior officers.*

Ontario

Ministry of Environment and Energy

Ministère de l'Environnement et de l'Énergie

5775 Yonge Street
8th Floor
North York, Ontario
M2M 4J1

5775, rue Yonge
8ième étage
North York (Ontario)
M2M 4J1

Central Region

Région.du Centre

April 29, 1996

ONTARIO MINISTRY
OF THE ENVIRONMENT
MAY - 9 1996
CENTRAL REGION
OAKVILLE OFFICE

THIS IS CERTIFIED TO
BE A TRUE COPY OF THE
ORIGINAL DOCUMENT
SIGNATURE
May 7/96
DATE

SI HP BU 512 220

Burlington Quarry
Nelson Aggregate Co.
P.O. Box 1070
Burlington, Ontario
L7R 4L8

Attention: Jim Sellan
Property Manager

RE: PERMIT TO TAKE WATER FOR: DEWATERING PURPOSES
BURLINGTON QUARRY
LOT 2, CONCESSIONS 2 AND 3
CITY OF BURLINGTON, REGIONAL MUNICIPALITY OF HALTON
PERMIT TO TAKE WATER NO. 96-P-3009
FILE: SI-HP-BU-220

Please find attached Permit No. 96-P-3009 issued to Nelson Aggregate Co. which authorizes the withdrawal of water in accordance with the application for this Permit to Take Water, and Schedule "A" and Schedule "B" which are attached to and form part of this Permit.

This Permit is valid indefinitely and shall be kept available for inspection by Ontario Ministry of Environment staff.

Take notice that in issuing this Permit to Take Water, terms and conditions pertaining to the taking of water and to the results of the taking have been imposed on Nelson Aggregate Co.. The terms and conditions have been designed to allow for the development of water resources for beneficial purposes, while providing reasonable protection to existing water uses and users.

Our main concern is that the taking of water under the authority of this Permit does not cause negative impacts to other water supplies which were in use prior to the date of this Permit. If the taking of water should result in any negative impacts, the permittee will be required to restore the water supplies of those affected in a manner acceptable to the Ontario Ministry of Environment and Energy or to reduce the rate and amount of taking until any negative impacts are eliminated.

Any change of address or ownership of the property for which this Permit is issued must be reported promptly to the Director.

cont'd

The issuance of this Permit To Take Water does not relieve you from compliance with this or any other agencies' legislative requirements.

It is the responsibility of Nelson Aggregate Co. to ensure that any person taking water under the authority of this Permit is familiar with and complies with the terms and conditions.

Yours Truly,

S. Klose

S.Klose
Director, Section 34
Ontario Water Resources Act

THIS IS CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL DOCUMENT

SECRETARY

May 2/96

DATE

cc: Halton-Peel District Office
File AP-08, City of Burlington

pttw\96-P-3009

Notice of Terms and Conditions
Section 100, Ontario Water Resources Act, R.S.O. 1990

Pursuant to Section 34 of the Ontario Water Resources Act, R.S.O. 1990 permission is hereby granted to:

Nelson Aggregate Co.
P.O. Box 1070
Burlington, Ontario
L7R 4L8

for the taking of water for commercial purposes in accordance with the application for this Permit to Take Water, and Schedule "A" and Schedule "B", which are attached to and form part of this Permit.

Located at: **Lot 2, Concessions 2 and 3**
City of Burlington
Regional Municipality of Halton

DEFINITIONS

1. (a) "Director " means a Director, Section 34, Ontario Water Resources Act, R.S.O. 1990.

(b) "District Office" means Halton-Peel District Office, Central Region, Ontario Ministry of Environment and Energy.

(c) "District Manager" means District Manager, Halton-Peel District Office, Central Region, Ontario Ministry of Environment and Energy.

(d) "Ministry" means Ontario Ministry of Environment and Energy.

(e) "Permit" means this entire Permit to Take Water including its schedules, if any, issued in accordance with Section 34 of the Ontario Water Resources Act, R.S.O. 1990.

(f) "Permit Holder" means Nelson Aggregate Co.

THIS IS CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL DOCUMENT

SIGNATURE

May 7/96

DATE

GENERAL CONDITIONS

2. This Permit shall be kept available for inspection by Ministry staff.

3. The Director may, from time to time, where a situation of interference or anticipated interference with water supply exists, or in a situation requiring information on water takings for purposes of water resource inventory and planning, give written notice to the Permit Holder to undertake any of the following actions. The Permit Holder shall comply with any such notice:

   (a) To establish and maintain a system for the measurement of the quantities of water taken;

   (b) To operate such a system and to record measurements of the quantities of water taken on forms provided by the District Manager or the Director, with such a frequency or for such periods of time as the District Manager or the Director may specify;

   (c) To return to the District Manager or the Director records made pursuant to clause 3(b) at such times or with such frequency as the District Manager or the Director may specify; and

   (d) To keep records made pursuant to clause 3(b) available for inspection by Ministry staff until such time as they are returned to the District Manager or the Director pursuant to clause 3(c).

4. The Permit Holder shall immediately notify the District Manager of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint.

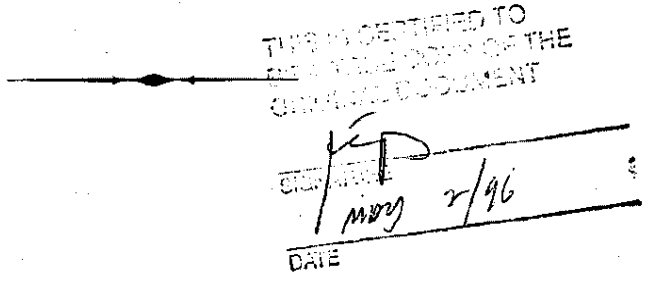
5. For Groundwater Takings, if the taking of water is forecast to cause any negative impact, or is observed to cause any negative impact to other water supplies obtained from any adequate sources that were in use prior to the initial issuance of a permit for this water taking, the Permit Holder shall take such action necessary to make available to those affected a supply of water equivalent in quantity and quality to their normal takings, or shall compensate such persons for their reasonable costs of so doing, or shall reduce the rate and amount of taking to prevent the forecasted negative impact or alleviate the observed negative impact. Pending permanent restoration of the affected supplies, the Permit Holder shall provide, to those affected, temporary water supplies adequate to meet their normal requirements, or shall compensate such persons for their reasonable cost of so doing.

THIS IS CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL DOCUMENT
SIGNATURE
may 7/96
DATE

6. The Permit Holder shall report to the Director any changes of address or telephone number, or change of ownership of the property for which this Permit is issued within thirty days of any such change. The Permit Holder shall not assign his rights under this Permit to another person without the written consent of the Director.

7. This Permit does not release the Permit Holder from any legal liability or obligation and remains in force subject to all limitations, requirements and liabilities imposed by law. This Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officer, employees, agents, and contractors.

8. The Permit Holder must forthwith, upon presentation of credentials, allow Ministry personnel, or a Ministry authorized representative(s) to carry out any and all inspections authorized by Section 15, 16 or 17 of the Ontario Water Resources Act, R.S.O. 1990, Section 156, 157 or 158 of the Environmental Protection Act, R.S.O. 1990 or Section 19 or 20 of the Pesticides Act, R.S.O. 1990.



Schedule "A"

This Schedule "A" forms part of Permit to Take Water 96-P-3009 dated April 29, 1996.

Table 1

Source	1	2
Source Name or Description	Quarry Sump 0100	Quarry Sump 0200
1 Maximum Amount of Water Taken per Minute (Litres/Minute)	4090	945
2 Maximum Amount of Water Taken per Day (Litres/Day)	5,889,600	1,360,800
3 Maximum Number of Hours of Taking per Day	24	24
4 Average Number of Hours of Taking per Day	12	12
5 Maximum Number of Days of Taking per Year	365	365

Schedule "B"

This Schedule "B" forms part of Permit to Take Water 96-P-3009 dated April 29, 1996.

1. Application for Permit to Take Water dated January 23, 1996, signed by Graeme Goodchild.

2. Letter from J. Sellan of Nelson Aggregate Co. to R. Stewart of MOEE, dated January 23, 1996.

THIS IS CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL DOCUMENT

SIGNATURE

May 7/96

DATE

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, as amended, provides that the Notice requiring the hearing shall state:

1. The portions of the approval of each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Permit to Take Water number;
6. The date of the Permit to Take Water;
7. The name of the Director;
8. The municipality within which the works are located;

THIS IS CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL DOCUMENT
SIGNATURE
DATE May 2/96

And the Notice should be signed and dated by the appellant.

This Notice must be served upon: The Secretary
Environmental Appeal Board
112 St.Clair Avenue West, Suite 502
Toronto, Ontario
M4V 1N3

AND

The Director, Section 34
Ontario Water Resources Act, R.S.O. 1990
Ministry of Environment and Energy
5775 Yonge Street, 8th Floor
North York, Ontario
M2M 4J1

AND

The Environmental Commissioner
1075 Bay Street, Suite 605, 6th Floor
Toronto, Ontario
M5G 2W5

DATED AT TORONTO this 29 day of April, 1996.

S. Klose

Director, Section 34
Ontario Water Resources Act

0979 (06/93)

SI. HP. BU. Se - 030
Nelson Quarry

Ministry of the Environment
Environmental Assessment and
Approvals Branch
Floor 12A
2 St Clair Ave W
Toronto ON M4V 1L5
Fax: (416)314-8452
Telephone: (416) 314-8573

Ministère de l'Environnement
Direction des évaluations et des
autorisations environnementales
Étage 12A
2 av St Clair O
Toronto ON M4V 1L5
Télécopieur : (416)314-8452
Téléphone : (416) 314-8573

Ontario

2433 Second Sideroad.

December 13, 2007

Norman Elmhirst, P. Eng., President
Nelson Aggregate Co.
Post Office Box, No. 1070
Burlington, Ontario
L7R 4L8

Dear Sir:

Re: Application for Approval of Industrial Sewage Works
Discharge of Quarry Sump Water
Burlington City, Regional Municipality of Halton
MOE Reference Number 3110-78GQKP

This is to advise you that, further to our discussions with your engineering consultant, the application is considered withdrawn and the above-noted file is now closed.

The submitted application fee will be refunded shortly in the amount of $2,000 which represents the amount submitted reduced by the non-refundable administrative processing fee of $200.

If you wish to pursue your original proposal in the future, you will need to submit a new application complete with all required supporting information and appropriate application fee.

We also emphasize that under section 53 of the Ontario Water Resources Act, R.S.O. 1990, you are required to obtain an approval under the same section 53 of the Act before construction, alteration, extension or replacement of any sewage works.

Ontario

Ministry of the Environment

Ce formulaire est disponible en français

Application for Approval of Industrial Sewage Works

For Office Use Only			
Reference Number	Payment Received	Date *(y/m/d)*	Initials
	$		

General Information and Instructions

General:

Information requested in this form is collected under the authority of the *Ontario Water Resources Act*, R.S.O. 1990 (OWRA) and the *Environmental Bill of Rights*, C. 28, Statues of Ontario, 1993, (EBR) and will be used to evaluate applications for approval of industrial sewage works under Section 53 OWRA.

Instructions:

1. When completing this form, please refer to the "Guide for Applying for Approval of Industrial Sewage Works, Section 53, OWRA " (referred to as the Guide) and "Guide - Application Cost for Sewage works, S. 53, OWRA." Questions regarding completion and submission of the application should be directed to the Environmental Assessment & Approvals Branch, 2 St. Clair Avenue West, Floor 12A, Toronto, Ontario, M4V 1L5, telephone number 1-800-461-6290 or (416) 314-8001, or to your local District Office of the Ministry of the Environment.

2. This form must be completed with respect to all the requirements of the Guide in order for it to be considered as an application for approval. INCOMPLETE APPLICATIONS WILL BE RETURNED TO THE APPLICANT.

3. A complete application consists of:
   (1) a completed and signed application form, including the attached "Costs for OWRA S. 53 Application - Supplement to Application for Approval";
   (2) all supporting information as requested by this form and by the Guide, and
   (3) a certified cheque or money order, in Canadian funds, made payable to the *Minister of Finance* for the applicable application fee.
   The Ministry may require additional information during the technical review of any application accepted as complete.

4. The original application, along with the supporting information and the application fee, must be sent to:
   The Ministry of the Environment,
   Director, Environmental Assessment and Approvals Branch,
   2 St Clair Avenue West, Floor 12A, Toronto, Ontario M4V 1L5.
   A copy of the application and the supporting information must be sent to the local Ministry District Office which has jurisdiction over the area where the facilities are located.

5. Information contained in this application is not considered confidential and will be made available to the public upon request. Information submitted as supporting information may be claimed as confidential but will be subject to the *Freedom of Information and Protection of Privacy Act* (FOIPPA) and *EBR*. If you do not claim confidentiality at the time of submitting the information, the Ministry may make the information available to the public without further notice to you.

6. If the Client submits with the application a copy of their Master Business Licence (MBL) obtained from the Ministry of Consumer and Commercial Relations, the **shaded sections within this form do not need to be completed**. For additional information on the MBL please refer to the "Guide."

1. Client Information

Client Name *(legal name of individual or organization as evidenced by legal documents)*	Business Identification Number
Nelson Aggregate Co.	

Business Name *(the name under which the entity is operating or trading if different from the Client Name - also referred to as trade name)*

Client Type:

- ☐ Corporation
- ☐ Individual
- ☑ Partnership
- ☐ Sole Proprietor
- ☐ Federal Government
- ☐ Municipal Government
- ☐ Provincial Government
- ☐ Other *(describe)*:

Activity Classification Code/Standard Industrial Classification Code *(if unknown please complete Business Activity Description)*: NAICS 212315

Business Activity Description *(a narrative description of the business endeavour, this may include products sold, services provided or machinery/equipment used, etc.)*

Aggregate production

Is the client a MISA Discharger?	If Yes, name the industrial sector:
☐ Yes ☑ No	

2. Client Physical Address - *Complete A, C and D* **or** *B, C and D*

A. Civic Address - Street information *(applies to an address that has civic numbering and street information - includes street number, name, type and direction)*	Unit Identifier *(identifies type of unit, such as suite & number)*
No. 2 Side Road	

B. Survey Address *(used for a rural location specified for a subdivided township, an unsubdivided township or unsurveyed territory)*

Lot and Conc.: used to indicate location within a subdivided township and consists of a lot number and a concession number.	Lot	Conc.	Part and Reference: used to indicate location within an unsubdivided township or unsurveyed territory, and consists of a part and a reference plan number indicating the location within that plan. Attach copy of the plan	Part	Reference Plan

C. Municipality/Unorganized Township	County/District	Province/State	Country	Postal Code
Burlington		Ontario	Canada	L7R 3X4

D. Telephone Number *(including area code & extension)*	Fax Number *(including area code)*	E-mail Address
905-335-5250	905-336-5697	

3. Client Mailing Address - *Complete A and C* **or** *B and C*

A. Civic Address - Street information *(includes street number, name, type and direction)*	☐ Same as Client Physical Address	Unit Identifier *(identifies type of unit, such as suite & number)*
P. O. Box 1070		

Delivery Designator: ☐ Rural Route ☐ Suburban Service ☐ Mobile Route ☐ General Delivery — Delivery Identifier *(a number identifying a Rural Route, Suburban Service or Mobile Route delivery mode)*

C. Municipality	Postal Station	Province/State	Country	Postal Code
Burlington		Ontario	Canada	L7R 4I8

4. Site Information - *(location where activity/works applied for is to take place)*

Site Name	MDE District Office	Legal Description *(attach copy of a legal survey)*
Burlington Quarry	Halton - Peel	

A. Site Address - Street information *(applies to an address that has civic numbering and street information - includes street number, name, type and direction)*	☑ Same as Client Physical Address	Unit Identifier *(identifies type of unit, such as suite & number)*

B. Survey Address *(used for a rural location specified for a subdivided township, an unsubdivided township or unsurveyed territory)* *NOTE:* Do not complete "B" if you completed "A."

Lot and Conc.: used to indicate location within a subdivided township and consists of a lot number and a concession number.	Lot	Conc.	Part and Reference: used to indicate location within an unsubdivided township or unsurveyed territory, and consists of a part and a reference plan number indicating the location within that plan. Attach copy of the plan.	Part	Reference Plan
	1	3			

Non Address Information *(includes any additional information to clarify clients' physical location)*

Geo Reference Map Datum	Zone	Accuracy Estimate	Geo Referencing Method	UTM Easting	UTM Northing

Municipality/Unorganized Township	County/District	Postal Code
Burlington	Canada	L7R 3X4

Adjacent Land Use

☐ Industrial ☐ Commercial ☑ Recreational
☑ Residential ☑ Agricultural ☐ Other *(specify)*:

Is the Site located in an area of development control as defined by the Niagara Escarpment Planning & Development Act (NEPDA)?

☑ Yes (*If Yes, attach copy of NEPDA permit for the proposed activity/work*) N/A ☐ No

Is the Client the operating authority? ☑ Yes ☐ No

If No, attach the operating authority name, address and phone number.

Is the Client the owner of the land (site)? ☑ Yes ☐ No

If No, attach the owner's name, address and consent for the installation and operation of the facilities.

Is the Site located on the Oak Ridges Moraine Conservation Area as defined by the Oak Ridges Moraine Conservation Plan (ORMCP, a regulation made under the Oak Ridges Moraine Conservation Act (ORMCA)?

☐ Yes **(If yes please attach proof of Municipal planning approval for the proposed activity/work)**

☑ No

5. Project Technical Information Contact - *Complete A, B, D and E* **or** *A, C, D, and E*

A. Name	Company	☐ Same as Client Name
Stephen Di Biase	Golder Associates Ltd.	

Contact Address B. Civic Address - Street information *(includes street number, name, type and direction)*	☐ Same as Client Mailing Address	Unit Identifier *(identifies type of unit, such as suite & number)*
2390 Argentia Road		

C. Delivery Designator: ☐ Rural Route ☐ Suburban Service ☐ Mobile Route ☐ General Delivery	Delivery Identifier *(a number identifying a Rural Route, Suburban Service or Mobile Route delivery mode)*

D. Municipality	Postal Station	Province/State	Country	Postal Code
Mississauga		Ontario	Canada	L5N 5Z7

E. Telephone Number *(including area code & extension)*	Fax Number *(including area code)*	E-mail Address
905-567-6100 Extn: 1259	905-567-6561	Stephen_DiBiase@golder.com

6. Project Information

Type of Application:	Current Certificate of Approval Number	Date of Issue *(y/m/d)*
☑ New Certificate of Approval ☐ Amendment to current Certificate of Approval		

oject Description Summary *(If EBR is applicable, this summary will be used in the EBR posting notice)*

An approval under Section 53 of the Ontario Water Resources Act is required as it relates to the discharge of quarry sump water to ground water injection wells.

Project Name *(Project identifier to be used as a reference in correspondence)*	Receiver of Effluent Discharge	Watershed Name
Nelson Burlington Quarry	Water Table	Grindstone

Project Schedule

Estimated date for start of construction/installation	Estimated date for start of operation
N/A	November 5, 2007

.. Other Approvals / Permits

List all other environmental approvals/permits applied for related to this project or received in relation to this project under the *Environmental Protection Act* (discharges to air, waste management, etc.) and the *Ontario Water Resources Act* (water works).

Permit to take water 96-P-3009

8. Public Consultation/Notification

Specify all public consultation/notification *(such as public hearings, notification of First Nations, etc.)* related to the project that has been completed or is in the process of being completed.

9. Environmental Bill of Rights Requirements

Is this a proposal for a Prescribed instrument under EBR?	If "Yes," is it excepted from public participation?	If it is excepted from public participation provide reason:	
☐ Yes ☑ No	☐ Yes ☐ No	☐ Equivalent Public Participation	☐ Environmentally Insignificant Amendment or Revocation
		☐ Emergency	☐ EAA or Tribunal Decision

Documentation is support of the above noted exception must be provided (refer to "Guide")

10. Supporting Information Checklist - *This is a list of all supporting information to this application and is subject to the FOIPPA and EBR*

Supporting Information	Attached	Reference	Can be disclosed
General			
Pre-application consultation record	☑ Yes ☐ No	Cover letter	☐ Yes ☐ No
Proof of Legal Name of Client	☑ Yes ☐ No	Attachment F	☐ Yes ☐ No
Copy of NEPDA Permit	☐ Yes ☑ No	Not applicable	☐ Yes ☐ No
Name, Address and Phone Number of the Operating Authority	☑ Yes ☐ No	Attachment G	☐ Yes ☐ No
Name, Address and consent of land/site owner for the installation/construction and operation of the works/facility	☑ Yes ☐ No	Attachment G	☐ Yes ☐ No
Documentation in support of EBR Public Participation Exception	☐ Yes ☑ No		☐ Yes ☐ No
Proof of Public Consultation/Notification	☐ Yes ☑ No		☐ Yes ☐ No
Financial Assurance	☐ Yes ☑ No		☐ Yes ☐ No
Technical			
Description of the Industrial Processes (sources of sewage)	☑ Yes ☐ No	Attachment A	☐ Yes ☐ No
Sewage Quantity and Quality Characteristics	☑ Yes ☐ No	Attachment B	☐ Yes ☐ No
Detailed Description of the Proposed Works	☑ Yes ☐ No	Attachment A	☐ Yes ☐ No
Design Brief/Report	☐ Yes ☑ No		☐ Yes ☐ No
Hydraulic and Process Calculations	☐ Yes ☑ No		☐ Yes ☐ No
Process Sludge Handling Program	☐ Yes ☑ No		☐ Yes ☐ No
Process /Effluent Monitoring Program	☑ Yes ☐ No	Cover letter	☐ Yes ☐ No
Site Plan	☑ Yes ☐ No	Cover letter	☐ Yes ☐ No
Engineering Drawings and Specifications	☐ Yes ☑ No		☐ Yes ☐ No
Environmental Impact Analysis (surface water)	☑ Yes ☐ No	Cover letter	☐ Yes ☐ No
Environmental Impact Analysis (ground water)	☑ Yes ☐ No	Attachment A	☐ Yes ☐ No
Environmental Impact Analysis (odour and noise)	☐ Yes ☑ No		☐ Yes ☐ No
Final Effluent Criteria Accepted by Regional Office of the Ministry	☐ Yes ☑ No		☐ Yes ☐ No
Site and Soil Assessment Report	☐ Yes ☑ No		☐ Yes ☐ No
Stormwater Management Report	☐ Yes ☑ No		☐ Yes ☐ No
Other Attached Information	☐ Yes ☑ No		☐ Yes ☐ No

11. Payment Information

Amount Enclosed: $ 2,200.00 *Please attach completed "Costs for EPA s.53 Applications – Supplement to Application for Approval" (PIBS 4107).*

Method of Payment

☐ Certified Cheque ☐ Money Order ☐ VISA ☐ MasterCard ☐ American Express

Credit Card Information *(if paying by VISA, MasterCard or American Express)**

Name on Card *(please print)*	Credit Card Number	Expiry Date (m/y)

Cardholder Signature	Date *(y/m/d)*

**NOTE: credit card accepted for payments UNDER $10,000.00 only.*

12. Statement of Client

I, the undersigned hereby declare that, to the best of my knowledge, the information contained herein and the information submitted in support of this application is complete and accurate in every way and that the Project Technical Information Contact identified in section 5 of this form is authorized to act on my behalf for the purpose of obtaining approval under Section 53 of the OWRA for the sewage works identified herein.

Name *(please print)*	Title
NORMAN ELMHIRST, P.Eng.	PRESIDENT
Signature	**Date *(y/m/d)***
M Elmhirst	2007/OCT/29

Ministry of the Environment | Ministère de l'Environnement

Ontario

Ce formulaire est disponible en français

COSTS FOR OWRA s.53 APPLICATIONS
SUPPLEMENT TO APPLICATION FOR APPROVAL

*This form is to be completed for all applications under the **Ontario Water Resources Act**, s.53 received by the Environmental Assessment & Approvals Branch. Please submit this form with your completed application form. For instructions/assistance completing this form, please refer to publication number 4180 titled: "Guide: Application Costs for Sewage Works, s.53 OWRA". This form and associated publications are available on the Ministry of the Environment web site at www.ene.gov.on.ca or by contacting the Environmental Assessment and Approvals Branch at 1-800-461-6290.*

Company Name:	**Application/Certificate of Approval Number (if known)**
Nelson Aggregate Co.	

Application Cost: ***Indicate the applicable aspect(s) of the application and complete the corresponding section(s) of this form.***

- ☐ Administrative amendment of an existing approval (Section 1)
- ☐ Fee exempted amendment or revocation of an existing approval (Section 2)
- ☑ Approval, amendment or revocation requiring technical review (Section 3)

SECTION 1: ***Administrative Amendment of an Existing Approval***

Description	Cost	(✓)
Administrative amendments (no technical review involved)	$ 100	☐
TOTAL COST:	$	

SECTION 2: ***Fee Exempted Amendment or Revocation of an Existing Approval***

Description	Cost	(✓)
Administrative revocation (no technical review involved)	$ 0	☐
Any revocation requested as a result of requirements imposed by conditions of an existing approval	$ 0	☐
Any amendment requested as a result of requirements imposed by conditions of an existing approval	$	☐
TOTAL COST:	$	

SECTION 3: ***Complete tables 1, 2 & 3 and enter your information in the summary table below.***

Description	Cost	(✓)
Administrative processing	$ 200	✓
Wastewater Treatment and Disposal (Table 1)	$	☐
Wastewater Disposal (Table 2)	$ 2,000	☑
Review (Table 3)	$	☐
Hearing (if required)	$ 18,000	☐
TOTAL COST:	$ 2,200.00	

Table 1: ***Wastewater Treatment and Disposal***

When completing this table, please note the following:

Category 1 Amendment:
The application relates to an amendment to an existing treatment plant approval to include additional facilities to increase the approved rated capacity of the plant, including the expansion, re-rating, or upgrading of an existing facility.

Category 2 Amendment:
The application relates to an amendment to an existing treatment plant approval to include additional facilities that do not increase the approved rated capacity of the plant, including new tertiary treatment facilities, plant process waste stream treatment and disposal facilities, new treatment facilities to replace deteriorated facilities and the establishment, alteration, expansion or replacement of an outfall.

Category 3 Amendment:
If the application relates to the alteration, extension or replacement of treatment plant equipment or processes that do not involve the addition of new facilities, including:

A. the alteration, extension or replacement of a pumping system, an aeration system, a chemical storage or application system, filter media or a standby power supply system,
B. the provision of additional points of process chemical application, and
C. the provision of odour control equipment facilities.

Category 4 Amendment:
Any other case of amendment requiring technical review.

Description	Maximum Design Capacity	Application Type	Amendment Category	Cost	(✓)
A municipal or private facility for the treatment and disposal of sewage including a lagoon or stabilization pond or a sewage treatment plant	≤ 4,550 m³/day	Approval or Revocation	N/A	$ 5,000	☐
		Amendment	Category 1	$ 5,000	☐
			Category 2	$ 3,600	☐
			Category 3	$ 1,800	☐
			Category 4	$ 600	☐
	> 4,550 m³/day	Approval or Revocation	N/A	$ 10,000	☐
		Amendment	Category 1	$ 10,000	☐
			Category 2	$ 3,600	☐
			Category 3	$ 1,800	☐
			Category 4	$ 600	☐
A facility for attenuating stormwater runoff peak flow rate or volume or for managing stormwater runoff quality*	N/A	Approval or Revocation	N/A	$ 2,000	☐
		Amendment	Yes	$ 2,000	☐
A facility for the treatment and disposal of leachate	N/A	Approval or Revocation	N/A	$ 6,000	☐
		Amendment	Category 1	$ 6,000	☐
			Category 2	$ 3,600	☐
			Category 3	$ 1,800	☐
			Category 4	$ 600	☐
A facility for the treatment and disposal of industrial process wastewater, including contact cooling water.	N/A	Approval or Revocation	N/A	$ 6,000	☐
		Amendment	Category 1	$ 6,000	☐
			Category 2	$ 3,600	☐
			Category 3	$ 1,800	☐
			Category 4	$ 600	☐
			TOTAL COST:	$	

**such as detention or retention ponds, underground chambers, oversized sewers, rooftop storage, parking lot storage, oil, grit and silt separators, flow control outlet structures, infiltration wells, perforated sewers, and trenches or outfalls*

Table 2: ***Wastewater Disposal***

Description	Design Capacity	Application Type	Increase in Design Capacity?	Cost	✓
A subsurface disposal facility	≤ 15 m³/day	Approval or Revocation	N/A	$ 600	☐
		Amendment	Yes	$ 600	☐
	> 15 m³/day, ≤ 50 m³/day	Approval or Revocation	N/A	$ 1,500	☐
		Amendment	Yes	$ 1,500	☐
	> 50 m³/day	Approval or Revocation	N/A	$ 3,000	☐
		Amendment	Yes	$ 3,000	☐
A facility for attenuating stormwater runoff peak flow rate or volume or for managing stormwater runoff quality, such as detention or retention ponds, underground chambers, oversized sewers, rooftop storage, parking lot storage, oil, grit and silt separators, flow control outlet structures, infiltration wells, perforated sewers, and trenches or outfalls	N/A	Approval or Revocation	N/A	$ 2,000	☑
		Amendment	Yes	$ 2,000	☐
A facility for the disposal of spent water from a non-contact industrial cooling process.	N/A	Approval or Revocation	N/A	$ 1,000	☐
		Amendment	Yes	$ 1,000	☐
Storm and sanitary sewers and appurtenances	N/A	Approval or Revocation	N/A	$ 900	☐
		Amendment	Yes*	$ 900	☐
Storm and sanitary pump stations, force mains, and sanitary sewage detention chambers or oversized sewers.	N/A	Approval or Revocation	N/A	$ 1,800	☐
		Amendment	Yes	$ 1,800	☐
			TOTAL COST:	$	

** expansion of existing sewers*

Table 3: ***Review***

Description	Cost	✓
Review of Hydrogeological Assessment	$ 3,000	☐
Review of effluent quality criteria assessment for stormwater management, cooling water or soil remediation facilities	$ 1,400	☐
Review of effluent quality criteria assessment for municipal or private sewage, industrial process wastewater or leachate treatment plant	$ 6,000	☐
TOTAL COST:	$	

SI-HP-BU-220

Ontario

Ministry of Environment
Central Region

Ministère de l'Environnement
Région du Centre

5775 Yonge Street
8th Floor
Toronto, Ontario
M2M 4J1

5775, rue Yonge
8ième étage
Toronto (Ontario)
M2M 4J1

December 23, 2003

Nelson Aggregate
P.O. Box 1070
Station B
Burlington, Ontario
L7P 3S9

THIS IS CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL DOCUMENT.
Signature: Date: Dec. 23 2003

Dear Mr. Goodchild:

RE: PERMIT TO TAKE WATER FOR: PUMP TEST
NELSON AGGREGATE - BURLINGTON QUARRY
LOTS 17 & 18, CONCESSION 2 NDS
CITY OF BURLINGTON, REGIONAL MUNICIPALITY OF HALTON

PERMIT TO TAKE WATER NO. 03-P-3073PT
FILE: SI-HP-BU-220

Please find attached Permit No. **03-P-3073PT** issued to Nelson Aggregate c/o Golder Associates Ltd. which authorizes the withdrawal of water in accordance with the application for this Permit to Take Water, and Schedule "A" and Schedule "B" which are attached to and form part of this Permit.

This Permit is valid until **June 30, 2004** and shall be kept available for inspection by Ontario Ministry of the Environment staff. The expiry should allow some flexibility in the scheduling of the test.

Although this Permit is for a short term preliminary pump test on lands presently owned by Nelson Aggregate, we are concerned about the long term potential impact the proposed expanded quarrying activities on these lands may have on the ground and surface waters supplies in this area. It is therefore critical to establish and document existing conditions on these lands in the early stages of the planning process and if you have not already done so, we strongly recommend that you consider the implementation of a complete ground and surface water monitoring program as soon as possible.

The groundwater program should include the installation of continuous water level recorders to establish existing trends across the site. While manual measurements in various monitor wells on a regular basis are helpful, they tend to miss rapid changes or anomalies specific to certain areas

Take notice that in issuing this Permit to Take Water, terms and conditions pertaining to the taking of water and to the results of the taking have been imposed on Nelson Aggregate and Golder Associates

Ltd. The terms and conditions have been designed to allow for the development of water resources for beneficial purposes, while providing reasonable protection to existing water uses and users.

One of the purposes of the issuance of a Permit is to ensure that the permitted taking(s) will not cause negative impacts to the environment or other water supplies which were in use prior to the date of this Permit. If the taking of water should result in any negative impacts, the Permit Holder will be required to restore the water supplies of those affected in a manner acceptable to the Ontario Ministry of the Environment or to reduce the rate and amount of taking until any negative impacts are eliminated.

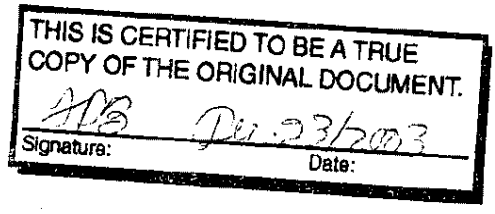
Any change of address or ownership of the property for which this Permit is issued must be reported immediately to the Director.

The issuance of this Permit To Take Water does not relieve you from compliance with the legislative requirements of this Ministry or any other agencies.

It is the responsibility of Nelson Aggregate and Golder Associates Ltd. to ensure that any person taking water under the authority of this Permit is familiar with and complies with the terms and conditions.

Yours truly,

Ellen Schmarje
Director, Section 34
Ontario Water Resources Act



rh

c: John Budz, Halton Peel District Office
Sean McFarland, Golder Associates Ltd. 2390 Argentia Rd.,Mississauga L5N 5Z7

s:\techsupt\pttw\pttw2003\03-P-3073PT Nelson Aggregate (Golder). wpd

Ontario

THIS IS CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL DOCUMENT.
Signature: Date: Dec 23/2023

Notice of Terms and Conditions
Section 100, Ontario Water Resources Act, R.S.O. 1990

Pursuant to Section 34 of the Ontario Water Resources Act, R.S.O. 1990 permission is hereby granted to:

Nelson Aggregate
c/o Golder Associates Ltd.
P.O. Box 1070
Station B
Burlington, Ontario
L7P 3S9

for the taking of water for a **pump test** in accordance with the application for this Permit to Take Water, and Schedule "A" and Schedule "B", which are attached to and form part of this Permit.

Located at: **Part Lots 17-18,**
Concession 2 NDS
City of Burlington
Regional Municipality of Halton

DEFINITIONS

1. (a) "Director " means a Director, Section 34, Ontario Water Resources Act, R.S.O. 1990.

(b) "District Office" means Halton Peel District Office, Central Region, Ontario Ministry of the Environment.

(c) "District Manager" means District Manager, Halton Peel District Office, Central Region, Ontario Ministry of the Environment.

(d) "Ministry" means Ontario Ministry of the Environment.

(e) "Permit" means this entire Permit to Take Water including its Schedules, if any, issued in accordance with Section 34 of the Ontario Water Resources Act, R.S.O. 1990.

(f) "Permit Holder" means **Nelson Aggregate & Golder Associates Ltd.**

THIS IS CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL DOCUMENT.
Signature: Date: Dec 23/2003

GENERAL CONDITIONS

2. This Permit shall be kept available for inspection by Ministry staff.

3. The Director may, from time to time, where a situation of interference or anticipated interference with water supply exists, or in a situation requiring information on water takings for purposes of water resource inventory and planning, give written notice to the Permit Holder to undertake any of the following actions. The Permit Holder shall comply with any such notice:

   (a) To establish and maintain a system for the measurement of the quantities of water taken;

   (b) To operate such a system and to record measurements of the quantities of water taken on forms provided by the District Manager or the Director, with such a frequency or for such periods of time as the District Manager or the Director may specify;

   (c) To return to the District Manager or the Director records made pursuant to clause 3(b) at such times or with such frequency as the District Manager or the Director may specify;

   (d) To keep records made pursuant to clause 3(b) available for inspection by Ministry staff until such time as they are returned to the District Manager or the Director pursuant to clause 3(c).

4. The Director may, during times of drought or water shortage in the locality of the taking, give notice to the Permit Holder to suspend or reduce the taking to an amount or threshold specified by the Director. The suspension or reduction in taking shall be effective immediately and may be revoked at any time upon notification by the Director. This condition does not affect your right to appeal the notice to the Environmental Appeal Board under the Ontario Water Resources Act, Section 100 (3).

5. The Permit Holder shall immediately notify the District Manager of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint.

6. For Surface Water Takings, the taking of water (including the taking of water into storage and the subsequent or simultaneous withdrawal from storage) shall be carried out in such a manner that streamflow is not stopped and is not reduced to a rate that will cause interference with downstream uses of water or with the natural functions of the stream.

7. For Groundwater Takings, if the taking of water is forecast to cause any negative impact, or is observed to cause any negative impact to other water supplies obtained from any adequate sources that were in use prior to the initial issuance of a permit for this water taking, the Permit Holder shall take such action necessary to make available to those affected a supply of water

equivalent in quantity and quality to their normal takings, or shall compensate such persons for their reasonable costs of so doing, or shall reduce the rate and amount of taking to prevent the forecasted negative impact or alleviate the observed negative impact. Pending permanent restoration of the affected supplies, the Permit Holder shall provide, to those affected, temporary water supplies adequate to meet their normal requirements, or shall compensate such persons for their reasonable cost of so doing.

8. The Permit Holder shall report to the Director any changes of address or telephone number, or change of ownership of the property for which this Permit is issued within thirty days of any such change. The Permit Holder shall not assign his rights under this Permit to another person without the written consent of the Director.

9. No water may be taken under authority of this Permit after the expiry date of this Permit, unless the Permit is renewed, or after the expiry date shown on any subsequent renewal of this Permit, unless is likewise renewed.

10. This Permit does not release the Permit Holder from any legal liability or obligation and remains in force subject to all limitations, requirements and liabilities imposed by law. This Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officer, employees, agents, and contractors.

11. This Permit does not abrogate the Permit Holder's responsibility to comply with all applicable legislation, including O. Reg. 285/99, which provides, among other things, that no person shall use water by transferring it out of a water basin (as defined in the Regulation) in a container having a volume greater than 20 Litres. The Regulation divides Ontario into three water basins, being the Great Lakes - St. Lawrence, the Nelson, and Hudson Bay Basins.

12. The Permit Holder must forthwith, upon presentation of credentials, allow Ministry personnel, or a Ministry authorized representative(s) to carry out any and all inspections authorized by Section 15, 16 or 17 of the Ontario Water Resources Act, R.S.O. 1990, Section 156, 157 or 158 of the Environmental Protection Act, R.S.O. 1990 or Section 19 or 20 of the Pesticides Act, R.S.O. 1990.

SPECIAL CONDITIONS

13. This Permit expires on **June 30, 2004.**

14. The monitoring program for all on site and off site ground and surface water sites referenced in the Golder Associates Ltd. October 30, 2003 report accompanying the Permit application shall be implemented at least 2 days prior to the test and continued for a period not less than 3 days after the termination of all pumping activity.

15. All property owners within 250 m of the boundary of the subject property shall be notified of the proposed pump test prior to the event and provided with a 24-hour contact number. Any complaints received shall be investigated promptly and a temporary water supply provided to the affected party when required. A report detailing all complaints received and the action taken by the Permitee must be submitted to the Director with 30 days of the completion of the pump test.

16. Should the drawdown in the various monitor wells at or beyond a 500 m radius of PW 1 approach 1 m during the pumping activity, the entire test results must be evaluated immediately and the pumping activity terminated if the data indicates serious interference with neighbouring domestic wells may occur.

THIS IS CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL DOCUMENT.
ADB Dec 23/2013
Signature: Date:

Schedule "A"

This Schedule "A" forms part of Permit to Take Water No. **03-P-3073PT** dated **December 23, 2003.**

Table 1

Source	PW 1	
Coordinates	Easting	591345
	Northing	4805364
Maximum Amount of Water Taken in Litres per Minute	454	
Maximum Amount of Water Taken in Litres per Day	653,760	
Maximum Number of Hours of Taking per Day	24	
Maximum Number of Days of Taking per Year	5	

Schedule "B"

This Schedule "B" forms part of Permit to Take Water **03-P-3073PT** dated **December 23, 2003.**

1. Application for Permit to Take Water dated November 17, 2003 signed by Graeme Goodchild, Nelson Aggregate.

2. Accompanying letter from Golder Associates Ltd. to MOE dated October 30, 2003 signed jointly by Tim Warman & Sean Mcfarland.

THIS IS CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL DOCUMENT.
Signature: MB Date: Dec 23/2013

In accordance with Section 100 of the Ontario Water Resources Act, R.S. O. 1990, you may by written Notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Environmental Review Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, as amended, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Permit to Take Water number;
6. The date of the Permit to Take Water;
7. The name of the Director;
8. The municipality within which the works are located;

The Notice must be signed and dated by you.

This Notice must be served upon:

The Tribunal Secretary
Environmental Review Tribunal
P.O. Box 2382
2300 Yonge Street, Suite 1201
Toronto, Ontario
M4P 1E4

and

The Director, Section 34
Ontario Water Resources Act, R.S.O. 1990
Ministry of the Environment
5775 Yonge Street, 8th Floor
Toronto, Ontario
M2M 4J1

Further information on the requirements for an appeal of the Environmental Review Tribunal can be obtained directly from the Tribunal Secretary by telephone (416) 314-4600, fax (416) 314-4506 or on the web site www.ert.gov.on.ca

DATED AT TORONTO this *23rd* day of *December*, 2003.

Ellen Schmarje
Director, Section 34
Ontario Water Resources Act

THIS IS CERTIFIED TO BE A TRUE COPY OF THE ORIGINAL DOCUMENT.
Signature: Date: Dec 23/2003

Burlington - Nelson Aggregate / Nelson Asphalt

History

Operational Pictures



The Burlington Quarry formally known as the Nelson Quarry because it was located on the Niagara Escarpment just north of the Village of Nelson that was historically located at the corners of Dundas St. (Hwy 5 and Guelph Line). It is has been merged with the City of Burlington for so long that all the remains is a historical sign at the corner and a few institutions that carry its name. When the compa was first started it adopted Nelson as its name and to distinguish the Quarry from the parent company. It is referred to as the Burlington Quarry within Nelson Aggregate Co. <Location>

The quarry was started in 1952 by King Paving and Materials Limited. In 1974 King Paving Materials. The company was subsequently purchased by the Flintkote Co of Canada Ltd. Flintkote was later acquired by Genstar Stone Products Inc in 1980 who sold the quarry in 1983 to the current owner Nelson Aggregate Co.

Products

Product List:

Armour stone
Rip Rap
Gabion Stone
Clear stone (concrete, asphalt and drainage stone)
Crusher run products (granulars)
Screening
Recycled Product blends using reclaimed concrete and asphalt
(see Nelson Asphalt)

Product applications include:

Sewer & Watermain Pipe Bedding & Pipe Cover
Road Base Granulars
Recycled Granulars
Natural Landscape & Erosion Control Products
Block Precast & Ready Mix Concrete Aggregates

Commercial, Industrial & Residential Aggregates <return to menu>

Our customers include:

All local Municipalites
Concrete, Asphalt, and Block Plants
Sewer & Watermain & Road Construction Companies
Residential Housing and Development Companies
Landscapers and interlocking companies
Local Retail Sales

Quality Control Statement

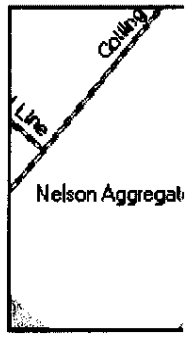


Our on site Type C Lab has been certified by the Council of Independent Laborat and meets all the Proficency Tests requested by the Ministry of Transportation. C products are consistantly listed on the MTO concrete and aggregate list as a proc choice. Our on site lab allows us to constantly monitor our products and to consta adjust for variations in processing this natural resource, thereby maintaining prod quality and specifications.

Location

Located on the Niagara Escarpment with easy access to major transportation routes such as the QEW, and Highways 401, 403, 407, 25, 5, and 6 we Service the Hamilton to Metro Toronto area and from Lake Ontario to Highway 401 with Diversified Quality Limestone Products and Reliable Service!

2433 No. 2 Sideroad, West of
Guelph Line, (4.5 km North on Guelph Line from the corner of Dundas St., (Hwy 5) and Guelph Line),
Burlington, Ontario.



click on the map for la
MapQuest for

CLICK HERE FOR
COURTES
MAPQ

<Return to Top>

Contact Information

NELSON AGGREGATE Co.

Burlington - Nelson Asphalt / Nelson Aggregate

History



The Asphalt Plant is located on the Quarry Floor ajacent to the rehabilitated slopes.

The Nelson Asphalt facility is located in the Nelson Quarry property in Burlington, Ontario. Various grades of quality asphalt are produced to meet the specific requirements of customers.

<Location>

Products

Asphalt mixes approved for Municipal, Industrial, Commercial and Reside application.

Product List:

Asphalt Mix	Specification
HL-8	City of Burlington
HL-3	City of Burlington
HL-8	OPSS*
HL-3	OPSS
HL-3A	OPSS
HL-2	OPSS

*OPPS-Ontario Provincial Specification Standards

Our customers include:

All local Municipalites
Paving Contractors
Sewer & Watermain & Road Construction Companies

<re

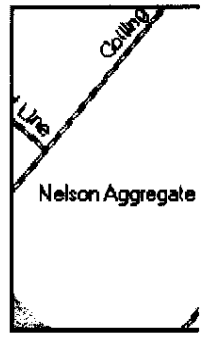
Quality Control Statement

We utilize an independent consulting company with a CCIL Type A, D, E Lab for our asphalt mix designs and quality control testing.

Location

We are strategically located in north Burlington and service the Burlington, Milton, Waterdown and Oakville areas.

2433 No. 2 Sideroad, West of Guelph Line, (4.5 km North on Guelph Line from the corner of Dundas St., (Hwy 5) and Guelph Line), Burlington, Ontario.



click on the map for lar
MapQuest for di

<return to menu>

CLICK HERE FOR COURTESY MAPQU

Contact Information

For more information on pricing contact:

Brian Caverson, Asphalt Sales Manager
P.O. Box 1070
Burlington, Ontario
L7R 4L8

Telephone: (905) 335-5250 or (800) 263-6320
Fax: (905) 332-4484

<Return to Top>

For more information on pricing contact:

Jim Gilliland, Area Manager for Marketing & Sales
jim.Gilliland@nelsonagregate.com

Telephone: (905) 335-5250 or (800) 263-6320
Fax: (905) 332-4484

Steve Drew, Quarry Manager
steve.drew@nelsonaggregate.com

P.O. Box 1070
Burlington, Ontario
L7R 4L8

<Return to Top>

Google maps Canada

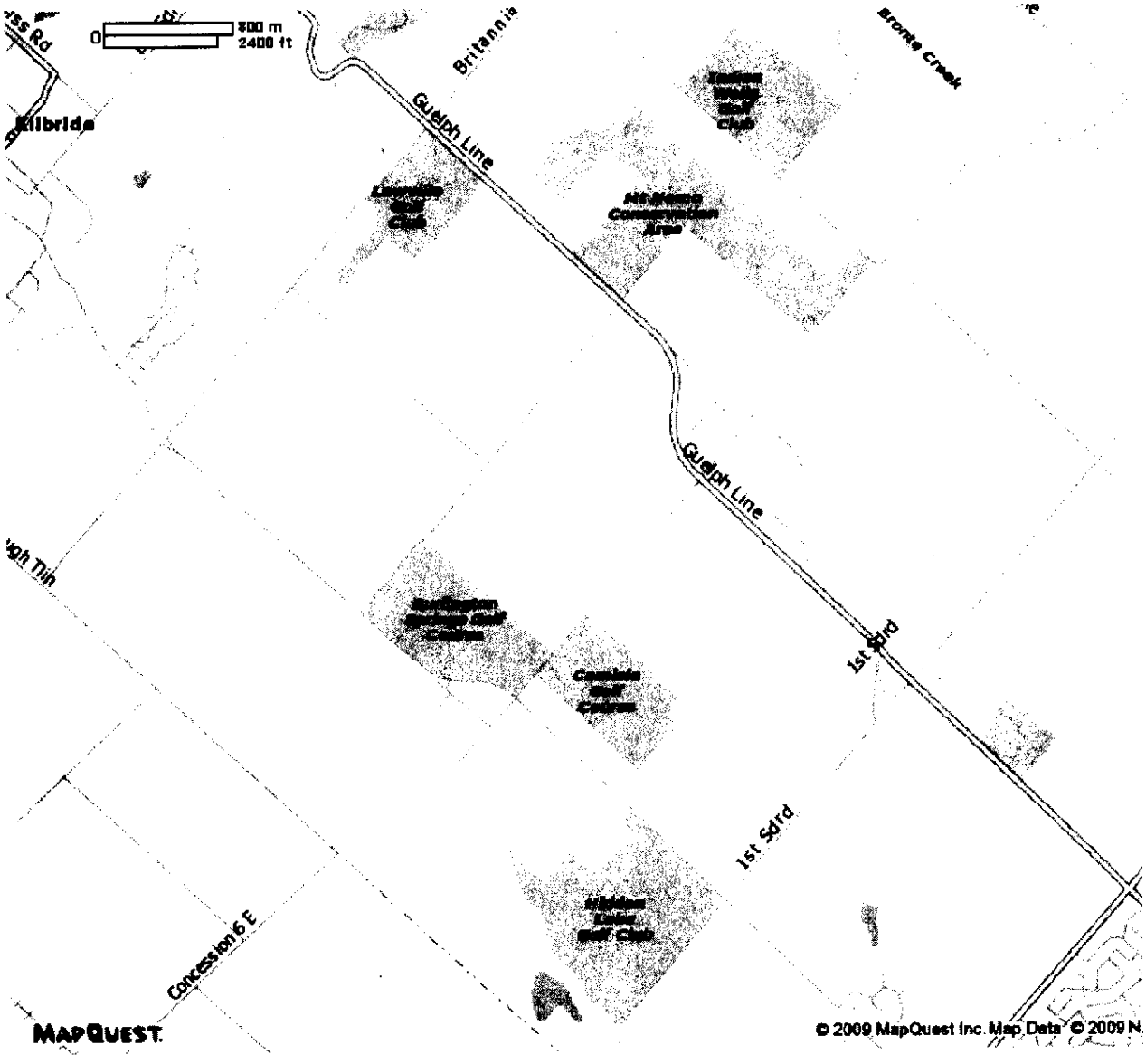
Address **2 Sideroad**
Burlington, ON

Get Google Maps on your phone
Text the word "GMAPS" to 466453



MAPQUEST. Sorry! When printing directly from the browser your directions or map may not print correctly. For best results, try clicking the Printer-Friendly button.

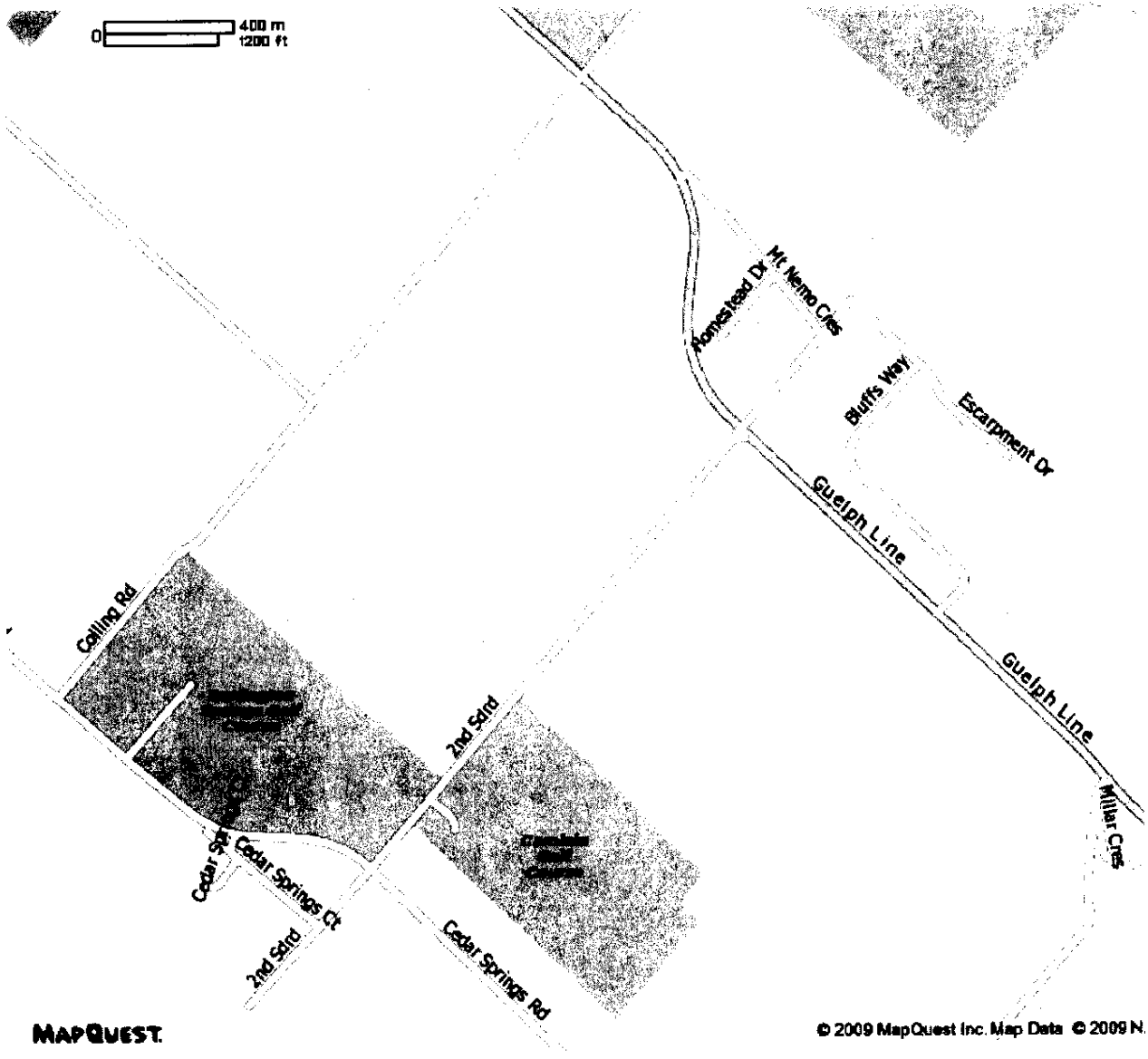
2433 2nd Sdrd Edit
Burlington, ON L0P



All rights reserved. Use subject to License/Copyright Map Legend
Directions and maps are informational only. We make no warranties on the accuracy of their content, road conditions or route usability or expeditiousness. You assume all risk of use. MapQuest and its suppliers shall not be liable to you for any loss or delay resulting from your use of MapQuest. Your use of MapQuest means you agree to our Terms of Use

MAPQUEST. Sorry! When printing directly from the browser your directions or map may not print correctly. For best results, try clicking the Printer-Friendly button.

2433 2nd Sdrd Edit
Burlington, ON L0P



All rights reserved. Use subject to License/Copyright Map Legend
Directions and maps are informational only. We make no warranties on the accuracy of their content, road conditions or route usability or expeditiousness. You assume all risk of use. MapQuest and its suppliers shall not be liable to you for any loss or delay resulting from your use of MapQuest. Your use of MapQuest means you agree to our Terms of Use

Ontario

Ministry of the Environment
Ministère de l'Environnement

Permit To Take Water (Archive)

Permit Number: 96-P-3009 **File Number:** SI-HP-BU-220 **Status:**

Client Information

Client Name	Nelson Aggregate Co.
Street Address / Box#	P.O. Box 1070, Station B
City or Town	Burlington
Prov. or State	ON
Phone	(905) 335-5250
Postal Code or Zip	L7R 4L8

Site Information

Use Loc Same As Take From	True
Street Address / Box#	
Use Lot	2
Use Concession	2, 3
Use Upper Tier	24
Use Upper Tier	24
Use Old City Or Township	Nelson, Twp of

Application Related Documents / Information

Amended By Permit No:	**Amended Date:**	**Link:**
Notice No:	**Notice Date:**	**Link:**
Cancellation No:	**Cancellation Date:**	**Link:**
Expired By Permit No:	**Expired Date:**	**Link:**

Permit Information

WTRS Reporting Phase	2
Date Issued	96/04/29
Surface And/Or Ground	Ground
Lake/River/Stream Name	
Lake/River/Stream Name	
Lake/River/Stream Name	
Watershed2No	
Watershed3No	
Watershed4No	
How Many Wells?	0
How Many Springs?	0
How Many Ponds?	2
Pond Type	Pit or Quarry
Well Type	

Other Type Of Source	Quarry sumps 0100, 0200
Construction Date	
Installation Date	
General Purpose	Dewatering
Specific Purpose	Pits and Quarries
Other Purpose (details)	At the Burlington Quarry
Expiry Date	5000/01/01
Renewal Date	
Revoked or Amended Upon Renewal	False
Proposal for a Prescribed Instrument?	True
Except from Public Notification?	False
Reason for Exception to Public Notification	
Length Of Period	
Period	
Seasonal Start	
Seasonal End	
Start Date	
Comments	Permit valid indefinitely. Contact: Jim Sellan
Last Updated	2000/02/03 2:26:14 PM
Date Created	99/08/16

Source Information

Src Id	5001164	5001165
Str Addr		
Draw Lot	2	2
Draw Con	3	3
Old C/T	Nelson, Twp of	Nelson, Twp of
City/Town	City of Burlington	City of Burlington
NEPDA Area	No	No
Src Name	Quarry sump	Quarry sump
Src Dsc	Sump no. 0100	Sump 0200
L/min	4090	946
L/day	5889600	1360800
Hrs/day	24	24
Hrs/avrg	12	12
D Tkn/year	365	365
Easting	590240	590231
Northing	4806831	4806850
UTMZone	17	17
Datum	NAD83	NAD83
Coll Meth	lot centroid coordinate established from lot, concession and geographic municipality	lot centroid coordinate established from lot, concession and geographic municipality

	fields	fields						
Acc Cls R	estimated lot centroid	estimated lot centroid						
Coll by FN	Audrey	Audrey						
Coll by LN	Spiwak	Spiwak						

Ontario

Ministry of the Environment
Ministère de l'Environnement

Permit To Take Water (Archive)

Permit Number: 03-P-3073PT **File Number: SI-HP-BU-C2-220** **Status: Expired**

Client Information

Client Name	Nelson Aggregate Co.
Street Address / Box#	P.O. Box 1070, Station B
City or Town	Burlington
Prov. or State	ON
Phone	(905) 995-5250
Postal Code or Zip	L7P 3S9

Site Information

Use Loc Same As Take From	True
Street Address / Box#	
Use Lot	17, 18
Use Concession	2 NDS
Use Upper Tier	24
Use Upper Tier	24
Use Old City Or Township	Nelson, Twp of

Application Related Documents / Information

Amended By Permit No:	**Amended Date:**	**Link:**
Notice No:	**Notice Date:**	**Link:**
Cancellation No:	**Cancellation Date:**	**Link:**
Expired By Permit No:	**Expired Date:**	**Link:**

Permit Information

WTRS Reporting Phase	
Date Issued	2003/12/23
Surface And/Or Ground	G
Lake/River/Stream Name	
Lake/River/Stream Name	
Lake/River/Stream Name	Grindstone Creek
Watershed2No	
Watershed3No	
Watershed4No	
How Many Wells?	1
How Many Springs?	0
How Many Ponds?	0
Pond Type	
Well Type	Drilled

Other Type Of Source	
Construction Date	2003/05/01
Installation Date	
General Purpose	Miscellaneous
Specific Purpose	Pumping Test
Other Purpose (details)	Burlington Quarry
Expiry Date	2004/06/30
Renewal Date	
Revoked or Amended Upon Renewal	False
Proposal for a Prescribed Instrument?	False
Except from Public Notification?	False
Reason for Exception to Public Notification	
Length Of Period	
Period	
Seasonal Start	
Seasonal End	
Start Date	2003/12/23
Comments	Temporary permit issued to Nelson Aggregate Co. c/o Golder Associates Ltd., for the purpose of running a long-term pumping test at the Burlington Quarry site South of No. 2 Sideroad. Summary of Special Conditions: The monitoring program for all on and o
Last Updated	2004/01/02 2:16:47 PM
Date Created	2004/01/02 2:16:47 PM

Source Information

Src Id	5002393
Str Addr	
Draw Lot	17
Draw Con	2 NDS
Old C/T	Nelson, Twp of
City/Town	City of Burlington
NEPDA Area	
Src Name	PW1
Src Dsc	Drilled well
L/min	454
L/day	653760
Hrs/day	24
Hrs/avrg	
D Tkn/year	5
Easting	591345
Northing	4805364
UTMZone	17
Datum	
Coll Meth	
Acc Cls R	
Coll by FN	

Coil by LN								

Pages 78 to / à 87

are not relevant

sont non pertinentes

Pages 88 to / à 89

are withheld pursuant to section

sont retenues en vertu de l'article

22

of the Freedom of Information and Protection of Privacy Act

de la Freedom of Information and Protection of Privacy Act

Inspection Log

Date of Communication	Communication Type	Notes	Author	Compliance Table
8/5/2009	File Status Change - Assigned		ROYJE	
9/1/2009	File Status Change - Inspected	Site Inspected	COPLANPA	
9/1/2009	Warning Issued	Warning in Issued	COPLANPA	
12/16/2009	Phone	Left message at operation for Brad	COPLANPA	
12/16/2009	File Status Change - Finalized		PATELJA	
12/16/2009	File Status Change - Reported		PATELJA	
9/10/2008	Fax	Received requested info	COPLANPA	
1/4/2010	Letter	Finai report sent to company.	COPLANPA	
5/27/2010	File Status Change - Closed	Letter of compliance received April 2010	COPLANPA	

Ontario

Ontario Ministry of the Environment

Sector Compliance Branch

INSPECTION REPORT

Burlington Springs Golf and Country Club
5235 Cedar Springs Rd.
Lot 2 Concession 0

Burlington, ON, L0P1B0
District Office: Halton-Peel

Inspection Completion Date: Sep 01, 2009

Company Information

Company Identification

Company Name	Business Identification Number	Business Name
Burlington Springs Golf and Country Club		

Company Address

Street Address, Unit Identifier		District Office	
5235 Cedar Springs Rd.		Halton-Peel	
Municipality (Type)	**County/District**	**Province**	**Postal Code**
Burlington (City)	Regional Municipality of Halton	ON	L0P 1B0

Company Mailing Address

Same As Company No

Street Address, Unit Identifier		City	
5235 Cedar Springs Rd.		Burlington	
Province/State	**Postal Code**	**Country**	
ON	L0P 1B0	Canada	

Inspection Information

Inspection Report 1-AMWMB **Pass/Fail** ADMINISTRATIVE FAIL

Incident Report Reference Number (IRRN): 2158-7YKQV9

Inspection Report Summary

On September 1, 2009 Officer's Copland and Hohner attended and inspected Burlington Springs G&C Club. Contact was made through the club's General Mgr Brad Bunkowsky. The purpose of the inspection was to ensure compliance with the sites PTTW, the PA and EPA. A current valid PTTW was produced # 6063-6JZPT7 and showed an expiry date of Dec. 31, 2015. The site's water taking consisted of 4 interconnecting ponds and a large powered pump at 90 lbs psi used for irrigation only. The water records were inspected and amounts used were not in contravention of the PTTW. The pesticides were stored properly in a vented room and the pesticide operator produced licence # F27027 under the name Andrew P. Barker. An emergency list of phone numbers was not posted outside the pesticide storage area and it appears the fire department has not been given an annual notice. Waste oil was being stored inside and outside the maintenance building in pails and a large storage drum. Secondary containment was not in use. Manifest # BN53876-0 was inspected and in compliance when the last shipment was sent of waste oil carried by Safety Kleen in July of 2009. A verbal warning was given for the minor infractions.

Site Information

Site Identification

Site Name
Burlington Springs Golf and Country Club

District Office
Halton-Peel

Contact Name : Brad Brunkowsky

Contact Phone # : (905) 335-2922

Site Address

Street Address, Unit Identifier
5235 Cedar Springs Rd.

Lot	Concession	Part	Reference Plan
2	0		

Municipality (Type)	County/District	Province	Postal Code
Burlington (City)	Regional Municipality of Halton	ON	L0P1B0

Site Mailing Address

Same As Site Address: Yes

Inspection Team

Inspection Role	Officer Name	Officer Badge Number
Primary Officer	Paul Copland	1171
Supervisor	Jatinbhai Patel	950

Instruments Issued

ID	Type	Amend	Status	Issuing Officer	Badge #
0001	Warning	No	Issued	COPLANPA	1171

Other Parties: No Other Parties Named

Officer Comments: No Comments Recorded.

Date Issued: Sep 01, 2009

Last Compliance Date:

Field Inspection Observations

Checklist Name: **EPA - General Questions - Bronte Creek**

Act/Reg: **EPA|Act|157.1(1)(a)** **Non-Compliance Yes**

Act/Reg Wording: *A provincial officer may issue an order to any person who owns or who has management or control of an undertaking or property if the provincial officer reasonably believes that the requirements specified in the order are necessary or advisable so as,*

(a) to prevent or reduce the risk of a discharge of a contaminant into the natural environment from the undertaking or property;

Comments/Findings: Storage tank of waste oils outside without secondary containment

---

Act/Reg: **PA|Reg63/09|109(1)4** **Non-Compliance Yes**

Act/Reg Wording: *109 (1)4 A person who stores a Class 1, 2, 3, 4, 5, 6, 7 or 8 pesticide shall do so in accordance with the following rules:*

4. A list of emergency telephone numbers, including those of the fire department, hospital and poison control centre shall be prominently displayed near the area where the pesticide is stored.

Comments/Findings: Emergency signage not posted near Pesticide storage area

---

Recommended Actions

1. Post Emergency numbers outside Pesticide Storage area by April 30, 2010.

2. ensure all waste oils are stored in available containment apperatus with secondary containment by April 30, 2010.

3. Report pesticide products and classes to local Fire Department annually and location of storage using required form obtained from MOE district office.

4. Ensure a backflow preventer is always used when mixing pesticides to ensure drinking water supply is not contaminated.

This Inspection Report does not in any way suggest that there is or has been compliance with all applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements.

Sign-Off

Primary Officer **PAUL COPLAND** **Badge Number** **1171**

Date December 30, 2009

Signature P Copland

Ontario

Ministry of the Environment
Ministère de l'Environnement

INCIDENT REPORT

Reference Number:	2158-7YKQV9	**File Storage Number:**	1-AMWMB
Module:	Incident Reporting	**Module Type:**	Pro-Active
Cross Reference:	(doc link)	**Task Link:**	8761-7YKRCY
Originating Document:		**Created by:**	Paul L Copland
Incident Report Reference Number:		2158-7YKQV9	
Date Created:	2009/12/09	**Date Completed:**	
Bring Forward Date:		**Bring Forward Reason:**	
Status:	In progress		
Program	Water - Ground & Surface	**Activity:**	Approvals - PTTW - Surface

Is this an **air emission** (measured or modelled) or **wastewater** (sewage) **discharge exceedance** that will become part of the Environmental Compliance Report?

(legislation, certificate of approval, order, or guideline)

○ Yes ● No ○ To be determined ***Click here for Guidance***

Caller or PO Information

Reported By:

First Name	**Last Name**
Paul L	Copland

Contact Mailing Address

Municipality:

Burlington

Reported By:

MOE Information

Date & Time Reported to MOE:	2009/12/09 14:22		
Office Receiving Incident Report:	Sector Compliance Branch		
Incident Info Received By:	Paul L Copland		
MOE Response:	No Further Response (PR-PIR Table A)	**Site Region:**	Central
Date & Time of MOE Arrival at Scene:			
Master Incident Report Number:			
SAC Action Class:			
Non-Standard Procedure:	No		

ERP Call-out Initiated:

Client(s)

Information
Show Map

Burlington Springs Golf & Country Club
Mailing Address: 5235 Cedar Springs Rd, Burlington, Ontario, Canada, L0P 1B0
Physical Address: 5235 Cedar Springs Rd, Burlington, City, Regional Municipality of Halton, Ontario, Canada, L0P 1B0
Telephone: (905)335-2922, FAX: (905)335-2932
Client #: 7984-5MHKEN, Client Type: Partnership, NAICS: 71391

Site(s)

Information
Show Map

Burlington Springs Golf & Country Club
Address: 5235 Cedar Springs Rd, Burlington, City, Regional Municipality of Halton, L0P 1B0
District Office: Halton-Peel
GeoReference: ,

Incident Information

Incident Summary:	SCB Pro Active Inspection *cannot be longer than 60 characters*
Incident Description:	On September 1, 2009 Officer's Copland and Hohner attended and Inspected Burlington Springs G&C Club. Contact was made through the club's General Mgr Brad Bunkowsky. The purpose of the inspection was to ensure compliance with the sites PTTW, the PA and EPA. A current valid PTTW was produced # 6063-6JZPT7 and showed an expiry date of Dec. 31, 2015. The site's water taking consisted of 4 interconnecting ponds and a large powered pump at 90 lbs psi used for irrigation only. The water records were inspected and amounts used were not in contravention of the PTTW. The pesticides were stored properly in a vented room and the pesticide operator produced licence # s.21 under the name Andrew P. Barker. An emergency list of phone numbers was not posted outside the pesticide storage area and it appears the fire department has not been given an annual notice. Waste oil was being stored inside and outside the maintenance building in pails and a large storage drum. Secondary containment was not in use. Manifest # BN53876-0 was inspected and in compliance when the last shipment was sent of waste oil carried by Safety Kleen.

Links & Comments:

Attachments Names:

Date & Time of Incident	**Incident Date Confirmation ?** Actual 2009/09/01		
Source Type:		**Sector Type:**	
Nearest Watercourse:		**Watershed Category Code:**	
Environmental Impact:			
Nature of Impact:			
Incident Cause:		**Incident Reason:**	
Damaged Party:	No		

Contaminants Table

	Contaminant	Code	UN#	Limit	Quantity	[units]	[freq]

Controller of Material:
Estimated Clean Up Cost:
% Clean Up: %

Owner of Material:
Who Cleaned Up:
Agencies Involved:

Voluntary / Mandatory Abatement

Is there Voluntary Abatement Activity? ○ Yes ● No ○ To be determined

Voluntary / Mandatory Compliance Items

Type Parent RefNo Work Summary (may be truncated) Date AttainList

Offence(s)

Suspected Violation(s)/Offence(s):

Act - Regulation - Section,
Description
(General Offence)

Provincial Officer:

Name: Paul L Copland
Badge No:

Work Unit: Unit 2
District/Area Office: Sector Compliance Branch
Date: 2010/04/01

Signature:

District/Area Supervisor:

Name:

Work Unit:
District/Area Office:
Date:

Signature:

Ministry of the Environment

Sector Compliance Branch
305 Milner Ave, Suite 1000
Scarborough, ON M1B 3V4
Tel.: 416-314-4278
Fax.: 416-314-4464

Ministère de l'Environnement

Direction de la mise en conformité des secteurs
305, avenue Milner, bureau 1000
Scarborough, ON M1B 3V4
Tél.: 416-314-4278
Téléc.: 416-314-4464

Ontario

30 December, 2009

Burlington Springs Golf and Country Club
c/o Mr. Brad Brunkowsky
5235 Cedar Springs Rd.
Burlington, ON, Canada
L0P 1B0

RE: Permit to Take Water Inspection

Dear Mr. Brunkowsky

I would like to thank you for the information provided during an inspection on 01 September 2009. The focus of the inspection was to assess compliance with the Environmental Protection Act, Ontario Regulation 63/09 under the Pesticides Act which has been amended by the Cosmetic Pesticides Ban Act 2008 and the Ontario Water Resources Act R.S.O 1990.

1. At the time of the inspection, the following were identified regarding the use of a back flow preventer when mixing pesticides with water from a direct source of drinking water. A back flow preventer must be used under these circumstances where the possibility of contaminating water due to back flow exists.

2. At the time of the inspection the following was identified regarding the storage of waste oils with the potential of contaminating the environment. Some waste oils were stored in pails without being covered inside the maintenance building and the waste oil outside was without secondary containment as required by EPA section 157.1(1)(a).

3. At the time of the inspection the following was identified regarding the posting of a list of emergency contact numbers outside the pesticide storage area. The list was not posted at the time of inspection as required by the Pesticide Act section 109(1)(4).

See Field Inspection Observations section of the attached Inspection Report for more detail.

I am requesting that the business take steps to address the issues identified during the inspection to come into compliance.

Ministry of the Environment

Sector Compliance Branch
305 Milner Ave, Suite 1000
Scarborough, ON M1B 3V4
Tel.: 416-314-4278
Fax.: 416-314-4464

Ministère de l'Environnement

Direction de la mise en conformité des secteurs
305, avenue Milner, bureau 1000
Scarborough, ON M1B 3V4
Tél.: 416-314-4278
Téléc.: 416-314-4464

Ontario

See the recommendation section of the attached Inspection Report for more details.

By 30 April 2010, please forward to me, at the above noted address, a letter or FAX outlining the steps taken to address these issues.

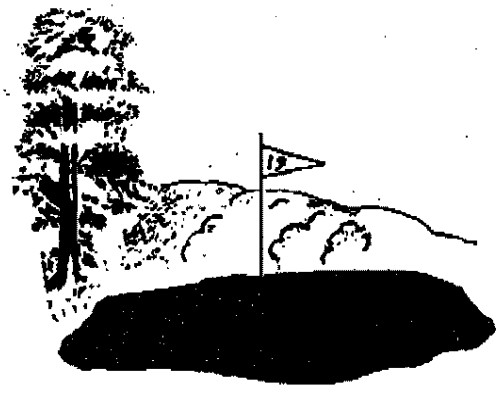
If you have any questions, please contact me for assistance at: Tel: 416-212-6692; Toll free: 1-866-482-9967; Fax: 416-314-4464 or by Email: paul.copland@ontario.ca

You can also contact the Ministry of Environment's Public Information Centre at 1-800-565-4923 or 416-325-4000

Yours truly,

Paul Copland
Provincial Officer, Badge #1171
Unit 2, Sector Compliance Branch
Ministry of the Environment

Encl:



Burlington Springs
GOLF AND COUNTRY CLUB

5235 CEDAR SPRINGS ROA
R.R. 3 CAMPBELLVILLE, ON
L0P 1B0
(905) 335-2922

FAX TRANSMISSION SHEET

DATE : Sept 10/09

TO : Paul Copeland #1171

FAX : 416-314-4464

FROM : Brad

RE : Pesticides and water records.

OF PAGES : 4.
(INCLUDING THIS COVER SHEET)

COMMENTS :

Paul - Here is a copy of my irrigation pumping records.

- The pesticides that we currently use at the club are - DACONIL, KILLEX/PAR III, ROUND UP, ROVRAL, MECA PROP, SEVIN/MERIT AND QUINTOZENE

- Thanks for being speedy with your appointment the other day - I'll wait to hear from you

T1 . R 3 1 1.

5365 CEDAR SPRINGS ROAD
R.R. 3 CAMPBELLVILLE, ON
L0P 1B0
(905) 336-2222

Burlington Springs
GOLF AND COUNTRY CLUB

FAX TRANSMISSION SHEET

DATE : Sept 10/09

TO : Paul Copeland # 1171

FAX : 416-314-4464

FROM : Brad

RE : Invoice and water records.

OF PAGES : 4
(INCLUDING THIS COVER SHEET)

COMMENTS :

Paul - Here is a copy of my irrigation pumping records.

- The practice that we currently use at the club are - RICOHIL, MILLEX/PMSII, ROUND UP, MEGA PROP, SEVIN/MERIT AND QUINTOZENE

- Thanks for being speedy with your appointment the other day - I'll work to have less flow from now on!

Burlington Springs Golf and Country Club Irrigation Record

YEAR 2009 MONTH JUNE

DATE	TIME	HOUR METER READING HRS.	HOURS PUMPED HRS.	FLOW METER READING LIT.	AMOUNT PUMPED LIT/DAY
READING FROM LAST DAY OF PREVIOUS MONTH		4510		10060849	
1		4510	0	10060849	0
2		4510	0	10060849	0
3		4510	0	10060849	0
4		4510	0	10060849	0
5		4510	0	10060849	0
6		4510	0	10060849	0
7		4510	0	10060849	0
8		4510	0	10060849	0
9	7	4510	0	10060849	0
10	10	4516.9	6.9	10102849	42000
11		4516.9	0	10102849	0
12	10	4522.7	5.8	10126381	23532
13	10	4526.9	4.2	10157483	31102
14	9	4533	6.1	10190812	33329
15	10	4539	6	10222502	31690
16	1	4544.3	5.3	10257380	34878
17		4544.3	0	10257380	0
18		4544.3	0	10257380	0
19		4544.3	0	10257380	0
20		4544.3	0	10257380	0
21		4544.3	0	10257380	0
22		4544.3	0	10257380	0
23		4544.3	0	10257380	0
24	10	4550.9	6.6	10300946	43566
25		4550.9	0	10300946	0
26		4550.9	0	10300946	0
27		4550.9	0	10300946	0
28		4550.9	0	10300946	0
29		4550.9	0	10300946	0
30		4550.9	0	10300946	0
31		4550.9	0	10300946	0

EO1 = X 10
EO2 = X 100
EO3 = X 1000
EO4 = X 10,000
EO5 = X 100,000

Burlington Springs Golf and Country Club Irrigation Record

YEAR 2009 MONTH JUNE

DATE	TIME	READING FROM LAST DAY OF PREVIOUS MONTH	HOURS PUMPED	READING AFTER WATERING	AMOUNT PUMPED LITRES
		2010		1008	
1			0		0
2			0		0
3			0		0
4			0		0
5			0		0
6			0		0
7			0		0
8			0		0
9			0		0
10	1		0		0
11	10		6.5		42900
12			0		0
13	10		6		39600
14	10		6		39600
15	8		5		33000
16	10		6		39600
16	1		0.5		3300
17			0		0
18			0		0
19			0		0
20			0		0
21			0		0
22			0		0
23			0		0
24	10		6.5		42900
25			0		0
26			0		0
27			0		0
28			0		0
29			0		0
30			0		0
31			0		0

EO1 = X 10
EO2 = X 100
EO3 = X 1000
EO4 = X 10,000
EO5 = X 100,000

Burlington Springs Golf and Country Club Irrigation Record

YEAR 2009 MONTH JULY

DATE	TIME	HOUR METER READING HRS.	HOURS PUMPED HRS.	FLOW METER READING LIT.	AMOUNT PUMPED LIT/DAY
READING FROM LAST DAY OF PREVIOUS MONTH		4550.9		10300946	
1		4550.9	0	10300946	0
2		4550.9	0	10300946	0
3		4550.9	0	10300946	0
4		4550.9	0	10300946	0
5		4550.9	0	10300946	0
6		4550.9	0	10300946	0
7		4550.9	0	10300946	0
8	10	4557.3	6.4	10352922	51976
9	8	4561	3.7	10387524	34602
10	10	4576.2	15.2	10487519	99995
11		4576.2	0	10487519	0
12		4576.2	0	10487519	0
13	10	4581	4.8	10519671	32152
14	10	4593.4	12.4	10599330	79659
15	10	4601.9	8.5	10671700	72370
16	10	4611.5	9.6	10751018	79318
17	10	4619.5	8	10807182	56164
18		4619.5	0	10807182	0
19	10	4625	5.5	10852970	45788
20	9	4636.6	11.6	10933666	80696
21		4636.6	0	10933666	0
22		4636.6	0	10933666	0
23		4636.6	0	10933666	0
24		4636.6	0	10933666	0
25		4636.6	0	10933666	0
26		4636.6	0	10933666	0
27		4636.6	0	10933666	0
28		4636.6	0	10933666	0
29		4636.6	0	10933666	0
30		4636.6	0	10933666	0
31		4636.6	0	10933666	0

EO1 = X 10
EO2 = X 100
EO3 = X 1000
EO4 = X 10,000
EO5 = X 100,000

Burlington Springs Golf and Country Club Irrigation Record

YEAR 2009 MONTH JULY

DATE	TIME	HOURS METER READING HRS.	HOURS PUMPED HRS.	FLOW METER READING LIT.	AMOUNT PUMPED LITRES
READING FROM LAST DAY OF PREVIOUS MONTH					
1			0		0
2			0		0
3			0		0
4			0		0
5			0		0
6			0		0
7			0		0
8	10		6.4		51878
9	8		3.2		25972
10	10		12.3		99864
11			0		0
12			0		0
13	10		6.4		51878
14	10		12.3		99864
15	10		6.4		51878
16	10		9.4		76378
17	10		8		64964
18			0		0
19	10		5.8		47082
20	9		11.8		80906
21			0		0
22			0		0
23			0		0
24			0		0
25			0		0
26			0		0
27			0		0
28			0		0
29			0		0
30			0		0
31			0		0

EQH = X 10
EQS = X 100
EQC = X 1000
EQM = X 10,000
EQG = X 100,000

Burlington Springs Golf and Country Club Irrigation Record

YEAR 2009 **MONTH** AUGUST

DATE	TIME	HOUR METER READING HRS.	HOURS PUMPED HRS.	FLOW METER READING LIT.	AMOUNT PUMPED LIT/DAY
READING FROM LAST DAY OF PREVIOUS MONTH		4636.6		10933666	
1		4636.6	0	10933666	0
2		4636.6	0	10933666	0
3		4636.6	0	10933666	0
4		4636.6	0	10933666	0
5		4636.6	0	10933666	0
6		4636.6	0	10933666	0
7		4636.6	0	10933666	0
8	9.45	4645.1	8.5	10948315	14649
9	9	4652	6.9	11043577	95262
10		4652	0	11043577	0
11		4652	0	11043577	0
12		4652	0	11043577	0
13		4652	0	11043577	0
14		4652	0	11043577	0
15	9	4677	25	11186451	142874
16	9	4683.6	6.6	11290880	104429
17	9	4688.5	4.9	11324401	33521
18		4688.5	0	11324401	0
19		4688.5	0	11324401	0
20		4688.5	0	11324401	0
21		4688.5	0	11324401	0
22		4688.5	0	11324401	0
23		4688.5	0	11324401	0
24		4688.5	0	11324401	0
25		4688.5	0	11324401	0
26	9	4695.1	6.6	11390197	65796
27		4695.1	0	11390197	0
28		4695.1	0	11390197	0
29		4695.1	0	11390197	0
30		4695.1	0	11390197	0
31		4695.1	0	11390197	0

EO1 = X 10
EO2 = X 100
EO3 = X 1000
EO4 = X 10,000
EO5 = X 100,000

Burlington Springs Golf and Country Club Irrigation Record

YEAR 2009 MONTH AUGUST

DATE	TIME	HOURS PUMPED THIS DAY	READING FROM LAST DAY OF PREVIOUS MONTH	METER READING LIT.	AMOUNT PUMPED LITRES
1		0			0
2		0			0
3		0			0
4		0			0
5		0			0
6		0			0
7		0			0
8	9:00	8.5			42500
9	9	8.5			42500
10		0			0
11		0			0
12		0			0
13		0			0
14		0			0
15	9	7.5			37500
16	9	6.5			32500
17	9	4.5			22500
18		0			0
19		0			0
20		0			0
21		0			0
22		0			0
23		0			0
24		0			0
25		0			0
26	9	6.5			32500
27		0			0
28		0			0
29		0			0
30		0			0
31		0			0

EO1 = X 10
EO2 = X 100
EO3 = X 1000
EO4 = X 10,000
EO5 = X 100,000

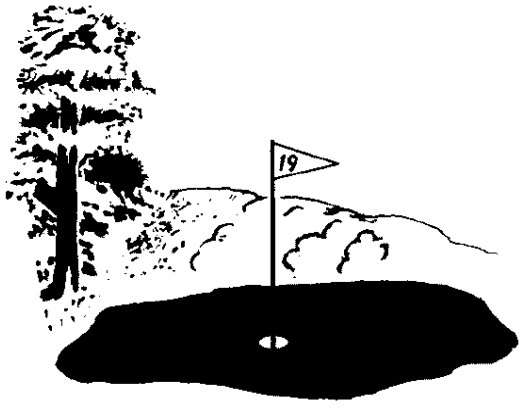
Burlington Springs
GOLF AND COUNTRY CLUB
R 3, CAMPBELLVILLE, ONT.
L0P 1B0

From anywhere to anyone
De partout jusqu'à vous
100330 08:11 L8E 2R0 096

CANADA

Ministry of the Environment
Paul Copland
Sector Compliance Branch
305 Milner Ave. Suite 1000
Scarborough, On. M1B-3V4

SECTOR COMPLIANCE BRANCH
MAR 3 1 2010
RECEIVED



Burlington Springs
GOLF AND COUNTRY CLUB

5235 CEDAR SPRINGS ROAD
R.R. #3, CAMPBELLVILLE,
ONTARIO L0P 1B0
Tel.: 905-335-2922
1-888-565-7355
Fax: 905-335-2932
Email: bsgandcc@cogeco.net

Mr. Paul Copeland
Ministry of Environment, Sector Compliance Branch
305 Milner Ave., Suite #1000
Scarborough, Ontario M1B 3V4

March 17, 2010

Dear Paul

Thank you for your follow up on the inspection of September 1, 2009.

I have complied with the issues that you listed in the following way:

1) we will use our filtered back flow preventer for the use of chemicals.

2) we have removed the open parts of the oil and have erected a containment for used oil storage.

2) we have posted emergency phone numbers on all our chemical storage.

Please be assured that I have seen to compliance and fulfillment of all issues of your report.

Yours truly,

Brad Bunkowsky

Brad Bunkowsky, General Manager

Request PTTW records for 2009
1305 off site - backflow preventor?
1218 on site

Ontario

Ministry of the Environment
Ministère de l'Environnement

Permit To Take Water Inspection Report

Client:			
Mailing Address:			
Inspection Site Address:	Burlington Springs Golf 5235 Cedar Springs Rd		
Contact Name:	Brad Bunkowski	**Title:** Gen Mgr	
Contact Telephone:	905 335-2922	**Contact Fax:**	
Last Inspection Date:			
Inspection Start Date:		**Inspection Finish Date:**	
Region:			

1.0 INTRODUCTION

Prior to the inspection, complete a detailed file review which may include: approval applications, operation and design plans, authorizing/control documents, financial assurance, compliance history, analytical data, non-compliance reports, MOE databases and correspondence.
Establish the focus and limiting scope of the inspection. Was the whole facility inspected or were selected areas, processes, records or equipment inspected? What is the purpose of the inspection?
List the authorizing/control documents (ie. approvals, licences, permits, directions, program approvals or orders) which were reviewed and inspected and list any emission requirements or limits and any pertinent conditions which are required to directly protect human health or the environment.

2.0 INSPECTION OBSERVATIONS

Permit Number:

2.1 PURPOSE OF TAKING: - Irrigation

Specify the generic purpose for the water taking.

2.2 SYSTEM DESCRIPTION:

Surface water source: ○ Yes ○ No ○ N.A.

Ground water source: ○ Yes ○ No ○ N.A.

Describe the process used to extract water; i.e., number and type of wells, spring supply, river or other surface water source, number and size/capacity of pumps, storage facilities, flow measuring devices. Attach a flow diagram.

Diesel powered pump @ 90 psi.

2.3 QUANTITY ASSESSMENT:

Is the water taking consistent with the volume limits (maximum daily volume, quantity per hour) specified on the permit? What is the maximum taking/day? What is the basis for the assessment (ie. flow meter records, or calculations/estimates)? If the quantity is based on calculations or estimates, describe how the calculations or estimates were derived? If a meter is used, review as many readings as possible from the log in order to determine the maximum taking. If no meter is installed, obtain details of the equipment in order to calculate an estimate of the taking.

Pesticide Lic # [redacted]
Andrew P. Barker

s.21

2.4 ASSESSMENT OF OTHER PERMIT CONDITIONS:

Is the Water Taking in accordance with other significant terms and conditions on the application and the Permit? Typically, permits will specify: times of operation, monitoring/recording and reporting requirements. If no, specify terms and conditions not complied with.

Manifest # BNS 387 6-0
252L July
Safety Clean

2.5 ASSESSMENT OF REGULATION 387/04:

"Are water transfers outside the basin in accordance with the Regulation? Regulation 387/04 places very specific conditions under which water transfers out of a basin may take place. If the operation involves water transfer, assess it against these conditions.

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

Based on the prior file review, state if there are remaining non-compliance issues related to this inspection, as stated on: previous compliance reports, former inspection recommendations/actions, and all outstanding mandatory or voluntary abatement initiatives.

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Use the Compliance Guideline and the Delivery Strategies to determine appropriate procedure for ensuring that full and timely compliance is achieved

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate ?

○ Yes ○ No

Specifics:

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?

○ Yes ○ No

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ?

○ Yes ○ No

Specifics:

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material ?

○ Yes ○ No

Specifics:

Was there any indication of minor administrative non-compliance?

○ Yes ○ No

☐ Policy/Guideline(Non-conformance) ☐ Legal Requirement (Administrative)

Specifics:

Refer to the Informed Judgement Matrix as a guide in the selection of the pick-lists below.
The Informed Judgement Matrix section below will not show on the printed Inspection report.

Compliance History:

Health/Environmental Consequences:

IJM Score:

Compliance Level	IJM Score
In Compliance	A0 to F0
In Compliance with Comments	A1, B1 and C1
Non-Compliance	Other than above

5.0 ACTION(S) REQUIRED

Use the Compliance Guideline and the Delivery Strategies to determine appropriate procedure for ensuring that full and timely compliance is achieved.

6.0 OTHER INSPECTION FINDINGS

These are inspection findings, which do not trigger "Program Priorities" and may or may not be based on statutory requirements , but are significant to improving the operation. This is where the Environmental Officer can, for example, identify a contravention of a Ministry requirement which in itself may not trigger a "Program Priority", but may still require some action from the owner/operating authority. The Environmental Officer may also include suggested actions to be taken. This satisfies the requirements of "Document and File" of the Delivery Strategies.

7.0 INCIDENT REPORT

An incident report must be completed for all non-compliance,defined as a violation of any Act, Regulation or condition of a control or authorizing document, administered by the Ministry.
◯ Applicable ◯ Not Applicable

8.0 ATTACHMENTS

Required attachments:

- Secondary Containment
- oil in garage
- envelope #15
- Annual notice to F.D.

PREPARED BY:
Environmental Officer:
Name:
District Office:
Date:

Signature:

REVIEWED BY:
Supervisor:
Name:
District Office:
Date:

Signature:
File Storage Number:

Note:
"This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements"

Ministry of the Environment
Central Region
Technical Support Section
Water Resources
8th Floor
5775 Yonge St
Toronto ON M2M 4J1
Fax: (416)325-6347
Telephone: (905) 521-7640 Ext. 016

Ministère de l'Environnement
Direction régionale du Centre
Section du Soutien Technique
Ressource en eau
8e étage
5775 rue Yonge
Toronto ON M2M 4J1
Télécopieur: (416)325-6347
Téléphone : (905) 521-7640 Ext. 016

Ontario

February 8, 2006

Mr. Brad Bunkowsky
Burlington Springs Golf & Country Club
5235 Cedar Springs Road
Burlington, Ontario, L0P 1B0
RE: Burlington Springs Golf & Country Club
Lot: 1, Concession: 2 and Lot: 2, Concession: 2
Burlington, Regional Municipality of Halton
Reference Number 1658-5VKLGW

Dear Mr. Bunkowsky,

Please find attached Permit No. **6063-6JZPT7** issued to the **Burlington Springs Golf & Country Club** which authorizes the withdrawal of water for golf course irrigation in accordance with the application for this Permit to Take Water, and Schedule "A" which is attached to and forms part of this Permit.

This Permit expires on **December 31, 2015.** The Permit must be kept available for inspection by Ontario Ministry of the Environment staff at all times.

Take notice that in issuing this Permit to Take Water, terms and conditions pertaining to the taking of water and to the results of the taking have been imposed on the **Burlington Springs Golf & Country Club.** The terms and conditions have been designed to allow for the development of water resources for beneficial purposes, while providing reasonable protection to existing water uses and users.

Be advised that, as per Condition 3.3 of this Permit, the Permit Holder shall ensure that no diversion of water to the irrigation ponds shall take place unless the flow below the weir structure and online pond is equal to or greater than 2 L/sec. The monitoring of water withdrawals from all sources listed in the Table A is required throughout the duration of this Permit, as per Condition 4.1. Also, condition 4.2 requires that all data collected be maintained and made available for Ministry inspection. In addition, as per Condition 4.3 of this Permit, inspections of the weir and bypass structures shall be conducted by a qualified person every two years and data should be kept at the site available for inspection by a Provincial Officer.

One of the purposes of the issuance of a Permit is to ensure that the permitted taking(s) will not cause negative impacts to the environment or other water supplies which were in use prior to the

date of this Permit. If the taking of water should result in any negative impacts, the Permit Holder will be required to restore the water supplies of those affected in a manner acceptable to the Ontario Ministry of the Environment or to reduce the rate and amount of taking until any negative impacts are eliminated.

Any change of address or ownership of the property for which this Permit is issued must be reported immediately to the Director.

The issuance of this Permit To Take Water does not relieve you from compliance with the legislative requirements of this or any other agencies. You must ensure that all legislated requirements relating to any use that may be made of this water have been met.

It is the responsibility of the **Burlington Springs Golf & Country Club** to ensure that any person taking water under the authority of this Permit is familiar with and complies with the terms and conditions.

Yours truly,

Ellen Schmarje
Supervisor, Water Resources
Central Region

File Storage Number: SI-HP-BU-C2-220
AP

cc: John Budz, Halton-Peel District Office, MOE
Cory Harris, P. Eng., Conservation Halton
R. Lee Van Biesbrouck, P. Eng., Metropolitan Consulting Inc.

Ontario

Ministry of the Environment

Ministère de l'Environnement

AMENDED PERMIT TO TAKE WATER
Surface Water
NUMBER 6063-6JZPT7

Pursuant to Section 34 of the Ontario Water Resources Act, R.S.O. 1990 this Permit To Take Water is hereby issued to:

Burlington Springs Golf & Country Club
5235 Cedar Springs Road
Burlington, Ontario, L0P 1B0
Canada

For the water taking from: Four hydraulically connected irrigation ponds

Located at: Lot 1, Concession 2
Burlington, Regional Municipality of Halton

Lot 2, Concession 2
Burlington, Regional Municipality of Halton

For the purposes of this Permit, and the terms and conditions specified below, the following definitions apply:

DEFINITIONS

(a) "Director" means any person appointed in writing as a Director pursuant to section 5 of the OWRA for the purposes of section 34, OWRA.

(b) "Provincial Officer" means any person designated in writing by the Minister as a Provincial Officer pursuant to section 5 of the OWRA.

(c) "Ministry" means Ontario Ministry of the Environment.

(d) "District Office" means the Halton-Peel District Office.

(e) "Permit" means this Permit to Take Water No. 6063-6JZPT7 including its Schedules, if any, issued in accordance with Section 34 of the OWRA.

(f) "Permit Holder" means Burlington Springs Golf & Country Club.

(g) "OWRA " means the *Ontario Water Resources Act,* R.S.O. 1990, c. O. 40, as amended.

You are hereby notified that this Permit is issued subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. Compliance with Permit

1.1 Except where modified by this Permit, the water taking shall be in accordance with the application for this Permit To Take Water, dated December 18, 2003 and signed by Brad Bunkowsky, and all Schedules included in this Permit.

1.2 The Permit Holder shall ensure that any person authorized by the Permit Holder to take water under this Permit is provided with a copy of this Permit and shall take all reasonable measures to ensure that any such person complies with the conditions of this Permit.

1.3 Any person authorized by the Permit Holder to take water under this Permit shall comply with the conditions of this Permit.

1.4 This Permit is not transferable to another person.

1.5 This Permit provides the Permit Holder with permission to take water in accordance with the conditions of this Permit, up to the date of the expiry of this Permit. This Permit does not constitute a legal right, vested or otherwise, to a water allocation, and the issuance of this Permit does not guarantee that, upon its expiry, it will be renewed.

1.6 The Permit Holder shall keep this Permit available at all times at or near the site of the taking, and shall produce this Permit immediately for inspection by a Provincial Officer upon his or her request.

1.7 The Permit Holder shall report any changes of address to the Director within thirty days of any such change. The Permit Holder shall report any change of ownership of the property for which this Permit is issued within thirty days of any such change. A change in ownership in the property shall cause this Permit to be cancelled.

2. General Conditions and Interpretation

2.1 Inspections

The Permit Holder must forthwith, upon presentation of credentials, permit a Provincial Officer to carry out any and all inspections authorized by the OWRA, the *Environmental Protection Act* , R.S.O. 1990, the *Pesticides Act* , R.S.O. 1990, or the *Safe Drinking Water Act,* S. O. 2002.

2.2 Other Approvals

The issuance of, and compliance with this Permit, does not:

(a) relieve the Permit Holder or any other person from any obligation to comply with any other applicable legal requirements, including the provisions of the *Ontario Water Resources Act* , and the *Environmental Protection Act* , and any regulations made thereunder; or

(b) limit in any way the authority of the Director or a Provincial Officer to require certain steps be
taken or to require the Permit Holder to furnish any further information related to this Permit.

2.3 Information

The receipt of any information by the Ministry, the failure of the Ministry to take any action or require any person to take any action in relation to the information, or the failure of a Provincial Officer to prosecute any person in relation to the information, shall not be construed as:

(a) an approval, waiver or justification by the Ministry of any act or omission of any person that contravenes this Permit or other legal requirement; or

(b) acceptance by the Ministry of the information's completeness or accuracy.

2.4 Rights of Action

The issuance of, and compliance with this Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officers, employees, agents, and contractors.

2.5 Severability

The requirements of this Permit are severable. If any requirements of this Permit, or the application of any requirements of this Permit to any circumstance, is held invalid or unenforceable, the application of such requirements to other circumstances and the remainder of this Permit shall not be affected thereby.

2.6 Conflicts

Where there is a conflict between a provision of any submitted document referred to in this Permit, including its Schedules, and the conditions of this Permit, the conditions in this Permit shall take precedence.

3. Water Takings Authorized by This Permit

3.1 Expiry

This Permit expires on **December 31, 2015**. No water shall be taken under authority of this Permit after the expiry date.

3.2 Amounts of Taking Permitted

The Permit Holder shall only take water from the source, during the periods and at the rates and amounts of taking specified in Table A. Water takings are authorized only for the purposes specified in Table A.

Table A

	Source Name / Description:	Source: Type:	Taking Specific Purpose:	Taking Major Category:	Max. Taken per Minute (litres):	Max. Num. of Hrs Taken per Day:	Max. Taken per Day (litres):	Max. Num. of Days Taken per Year:	Zone/ Easting/ Northing:
1.	Irrigation Ponds (four hydraulically connected) Lot: 1, Con: 2	Pond Online	Golf Course Irrigation	Commercial	2270.00	24.00	2692000.00	183.00	17 589400 4805050
						Total Taking:	2692000.00		

3.3 The Permit Holder shall ensure that no diversion of water to the irrigation ponds shall take place unless the flow below the weir structure and online pond is equal to or greater than 2 L/sec (weir pond elevation is equal to or higher than 269.125 MSL). Weir structure is located just upstream of Colling Road culvert (N4805610, E589000).

4. Monitoring

4.1 The Permit Holder shall monitor all takings from the irrigation ponds with flow meters to measure rates and amounts of water taking. Each meter shall be maintained in operational condition and all units calibrated for accuracy as per the manufacturer's specifications.

4.2 The Permit Holder shall maintain a record of all water takings from the irrigation ponds. This record shall include the dates and times of water takings and the total measured amounts of water pumped per day for each day that water is taken under the authorization of this Permit. The Permit Holder shall keep all required records up-to-date and available for Ministry inspection.

4.3 The Permit Holder shall undertake inspections of the weir and bypass structures by a qualified person every two years to ensure its performance as required by condition 3.3. The Permit

Holder shall keep the records of these inspections with an analysis of the data at the site available for Ministry staff upon request.

5. Impacts of the Water Taking

5.1 Notification

The Permit Holder shall immediately notify the local District Office of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint. The Permit Holder shall immediately notify the local District Office if the taking of water is observed to have any significant impact on the surrounding waters. After hours, calls shall be directed to the Ministry's Spills Action Centre at 1-800-268-6060.

5.2 For Surface-Water Takings

The taking of water (including the taking of water into storage and the subsequent or simultaneous withdrawal from storage) shall be carried out in such a manner that streamflow is not stopped and is not reduced to a rate that will cause interference with downstream uses of water or with the natural functions of the stream.

5.3 The Permit Holder and their agents shall be responsible for ensuring that no undesirable effects occur as a result of water taking under the authority of this Permit. A record of complaints relating to the Permit Holder's water taking strategy and actions taken to address these complaints must be maintained by the Permit Holder and kept available for review by Ministry staff.

6. Director May Amend Permit

The Director may amend this Permit by letter requiring the Permit Holder to suspend or reduce the taking to an amount or threshold specified by the Director in the letter. The suspension or reduction in taking shall be effective immediately and may be revoked at any time upon notification by the Director. This condition does not affect your right to appeal the suspension or reduction in taking to the Environmental Review Tribunal under the *Ontario Water Resources Act* , Section 100 (3).

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is included to ensure that the conditions in this Permit are complied with and can be enforced.

2. Condition 2 is included to clarify the legal interpretation of aspects of this Permit.

3. Conditions 3 through 6 are included to protect the quality of the natural environment so as to safeguard the ecosystem and human health and foster efficient use and conservation of waters. These conditions allow for the beneficial use of waters while ensuring the fair sharing, conservation and sustainable use of the waters of Ontario. The conditions also specify the water takings that are authorized by this Permit and the scope of this Permit.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, you may by written notice served upon me, the Environmental Review Tribunal and the Environmental Commissioner, ***Environmental Bill of Rights****, R.S.O. 1993, Chapter 28, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner will place notice of your appeal on the Environmental Registry. Section 101 of the Ontario Water Resources Act, as amended provides that the Notice requiring a hearing shall state:*

1. The portions of the Permit or each term or condition in the Permit in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Permit to Take Water number;
6. The date of the Permit to Take Water;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This notice must be served upon:

The Secretary
Environmental Review Tribunal
2300 Yonge Street, 12th Floor
Toronto, Ontario M4P 1E4

AND

The Environmental Commissioner
1075 Bay Street
6th Floor, Suite 605
Toronto, Ontario M5S 2W5

AND

The Director, Section 34
Ontario Water Resources Act,
RSO 1990,
Ministry of Environment
8th Floor
5775 Yonge St
Toronto ON M2M 4J1
Fax: (416)325-6347

Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal:

by telephone at (416) 314-4600 ***by fax at (416) 314-4506*** ***by e-mail at www.ert.gov.on.ca***

This instrument is subject to Section 38 of the ***Environmental Bill of Rights*** *that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek to appeal for 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry, you can determine when the leave to appeal period ends.*

This Permit cancels and replaces Permit Number 00-P-3072, issued on 2001/07/31 12:00:00 AM.

Dated at Toronto this 8th day of Feburary, 2006.

Ellen Schmarje
Director, Section 34
Ontario Water Resources Act , R.S.O. 1990

Schedule A

This Schedule "A" forms part of Permit To Take Water 6063-6JZPT7, dated February 8, 2006.

1. Application for amendment of PTTW No. 00-P-3072 dated December 18, 2003 and signed by Brad Bunkowsky;

2. Permit to Take Water No. 00-P-3072 dated January 25, 2003;

3. "Stream Flow Rating Surveys, Burlington Springs Golf and Country Club, October 23, 2003 and May 16, 2005", Report prepared by Metropolitan Consulting Inc., dated July 4, 2005 and signed by R. Lee Van Biesbrouck;

4. "Burlington Springs Golf Club Condition 17 PTTW No. 00-P-3072", Report prepared by Metropolitan Consulting Inc., dated December 22, 2003;

5. "Burlington Springs Golf and Country Club, Application for a Permit to Take Water, Resubmission" Report prepared by Metropolitan Consulting Inc., dated December, 2001.

Ontario

Ministry of the Environment

TELEPHONE REPORT

Call Details

Type:	○ Incoming ● Outgoing		
Date of Call:	2006/02/03	**Time of Call:**	09:00
Client:	Burlington Springs Golf & Country Club		
Who Answered Call:	Alexander Pluchik	**Telephone No.:**	x9059458701
Subject:	Monitoring Conditions of PTTW		
Call details:	Mr. Van Biesbrouck was informed that Permit Amendment (Permit No. 6063-6JZPT7) will be issued to the Burlington Springs Golf & Country Club on Monday, February 6, 2006. The draft of Permit have been sent to Mr. Van Biesbrouck (Application was submitted by Mr. Van Biesbrouck on behalf of the owner) on December 14, 2005. MOE didn't receive confirmation of the owner regarding Monitoring Conditions of the Permit until today. Two email letters were sent during this time.		
Reported by:	Alexander Pluchik		
Date:	2006/02/03		
Module:	Permit To Take Water		
File Storage Number:	SI-HP-BU-C2-220		

Ontario

Ministry of the Environment

COMMENT / MEMORANDUM TO FILE

Memo Details

Date:	2004/01/26
Module	Permit To Take Water Main Document Reference Number: 1658-5VKLGW
Client:	Burlington Springs Golf & Country Club Client Number: 7984-5MHKEN
Site(s):	
Subject:	Comments on Application
Created by:	Isabelle Drouin-Brisebois
File Storage Number:	SI-YD-MA-C5-220

January 26, 2004

Upon issuance, this amendment will revoke and replace the existing PTTW 00-P-3072. I did not include the taking from the Bronte Creek diversion in the table of the IDS PTTW Main Document, as it involves threshold conditions. This should be added to the Permit as an additional condition in Section 3, or in the form of a table in that section. I have called the consultant R. Lee Van Biesbrouck, Metropolitan Consulting Inc., and asked for additional information about the takings including the capacity of the well pump.

January 30, 2004

Spoke with Lee Van Biesbrouck and he said that he was not sure of the capacity of the pump but that he expected between 6 and 10 USgpm and that it would be of use all year for up to 24 hours per day. I have adjusted the /min rate in the main document to reflect a 10 USgpm maximum rate.

Ontario

Ministry of the Environment

Ministère de l'Environnement

AMENDED PERMIT TO TAKE WATER
Surface Water
NUMBER 6063-6JZPT7

Pursuant to Section 34 of the Ontario Water Resources Act, R.S.O. 1990 this Permit To Take Water is hereby issued to:

Burlington Springs Golf & Country Club
5235 Cedar Springs Road
Burlington, Ontario, L0P 1B0
Canada

For the water taking from: Four hydraulically connected irrigation ponds

Located at: Lot 1, Concession 2
Burlington, Regional Municipality of Halton

Lot 2, Concession 2
Burlington, Regional Municipality of Halton

For the purposes of this Permit, and the terms and conditions specified below, the following definitions apply:

DEFINITIONS

(a) "Director" means any person appointed in writing as a Director pursuant to section 5 of the OWRA for the purposes of section 34, OWRA.

(b) "Provincial Officer" means any person designated in writing by the Minister as a Provincial Officer pursuant to section 5 of the OWRA.

(c) "Ministry" means Ontario Ministry of the Environment.

(d) "District Office" means the Halton-Peel District Office.

(e) "Permit" means this Permit to Take Water No. 6063-6JZPT7 including its Schedules, if any, issued in accordance with Section 34 of the OWRA.

(f) "Permit Holder" means Burlington Springs Golf & Country Club.

(g) "OWRA " means the *Ontario Water Resources Act,* R.S.O. 1990, c. O. 40, as amended.

You are hereby notified that this Permit is issued subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. Compliance with Permit

1.1 Except where modified by this Permit, the water taking shall be in accordance with the application for this Permit To Take Water, dated December 18, 2003 and signed by Brad Bunkowsky, and all Schedules included in this Permit.

1.2 The Permit Holder shall ensure that any person authorized by the Permit Holder to take water under this Permit is provided with a copy of this Permit and shall take all reasonable measures to ensure that any such person complies with the conditions of this Permit.

1.3 Any person authorized by the Permit Holder to take water under this Permit shall comply with the conditions of this Permit.

1.4 This Permit is not transferable to another person.

1.5 This Permit provides the Permit Holder with permission to take water in accordance with the conditions of this Permit, up to the date of the expiry of this Permit. This Permit does not constitute a legal right, vested or otherwise, to a water allocation, and the issuance of this Permit does not guarantee that, upon its expiry, it will be renewed.

1.6 The Permit Holder shall keep this Permit available at all times at or near the site of the taking, and shall produce this Permit immediately for inspection by a Provincial Officer upon his or her request.

1.7 The Permit Holder shall report any changes of address to the Director within thirty days of any such change. The Permit Holder shall report any change of ownership of the property for which this Permit is issued within thirty days of any such change. A change in ownership in the property shall cause this Permit to be cancelled.

2. General Conditions and Interpretation

2.1 Inspections

The Permit Holder must forthwith, upon presentation of credentials, permit a Provincial Officer to carry out any and all inspections authorized by the OWRA, the *Environmental Protection Act* , R.S.O. 1990, the *Pesticides Act* , R.S.O. 1990, or the *Safe Drinking Water Act,* S. O. 2002.

2.2 Other Approvals

The issuance of, and compliance with this Permit, does not:

(a) relieve the Permit Holder or any other person from any obligation to comply with any other applicable legal requirements, including the provisions of the *Ontario Water Resources Act* , and the *Environmental Protection Act* , and any regulations made thereunder; or

(b) limit in any way the authority of the Director or a Provincial Officer to require certain steps be
taken or to require the Permit Holder to furnish any further information related to this Permit.

2.3 Information

The receipt of any information by the Ministry, the failure of the Ministry to take any action or require any person to take any action in relation to the information, or the failure of a Provincial Officer to prosecute any person in relation to the information, shall not be construed as:

(a) an approval, waiver or justification by the Ministry of any act or omission of any person that contravenes this Permit or other legal requirement; or

(b) acceptance by the Ministry of the information's completeness or accuracy.

2.4 Rights of Action

The issuance of, and compliance with this Permit shall not be construed as precluding or limiting any legal claims or rights of action that any person, including the Crown in right of Ontario or any agency thereof, has or may have against the Permit Holder, its officers, employees, agents, and contractors.

2.5 Severability

The requirements of this Permit are severable. If any requirements of this Permit, or the application of any requirements of this Permit to any circumstance, is held invalid or unenforceable, the application of such requirements to other circumstances and the remainder of this Permit shall not be affected thereby.

2.6 Conflicts

Where there is a conflict between a provision of any submitted document referred to in this Permit, including its Schedules, and the conditions of this Permit, the conditions in this Permit shall take precedence.

3. Water Takings Authorized by This Permit

3.1 **Expiry**

This Permit expires on **December 31, 2015**. No water shall be taken under authority of this Permit after the expiry date.

3.2 Amounts of Taking Permitted

The Permit Holder shall only take water from the source, during the periods and at the rates and amounts of taking specified in Table A. Water takings are authorized only for the purposes specified in Table A.

Table A

	Source Name / Description:	Source: Type:	Taking Specific Purpose:	Taking Major Category:	Max. Taken per Minute (litres):	Max. Num. of Hrs Taken per Day:	Max. Taken per Day (litres):	Max. Num. of Days Taken per Year:	Zone/ Easting/ Northing:
1.	Irrigation Ponds (four hydraulically connected) Lot: 1, Con: 2	Pond Online	Golf Course Irrigation	Commercial	2270.00	24.00	2692000.00	183.00	17 589400 4805050
						Total Taking:	2692000.00		

3.3 The Permit Holder shall ensure that no diversion of water to the irrigation ponds shall take place unless the flow below the weir structure and online pond is equal to or greater than 2 L/sec (weir pond elevation is equal to or higher than 269.125 MSL). Weir structure is located just upstream of Colling Road culvert (N4805610, E589000).

4. Monitoring

4.1 The Permit Holder shall monitor all takings from the irrigation ponds with flow meters to measure rates and amounts of water taking. Each meter shall be maintained in operational condition and all units calibrated for accuracy as per the manufacturer's specifications.

4.2 The Permit Holder shall maintain a record of all water takings from the irrigation ponds. This record shall include the dates and times of water takings and the total measured amounts of water pumped per day for each day that water is taken under the authorization of this Permit. The Permit Holder shall keep all required records up-to-date and available for Ministry inspection.

4.3 The Permit Holder shall undertake inspections of the weir and bypass structures by a qualified person every two years to ensure its performance as required by condition 3.3. The Permit

Holder shall keep the records of these inspections with an analysis of the data at the site available for Ministry staff upon request.

5. Impacts of the Water Taking

5.1 Notification

The Permit Holder shall immediately notify the local District Office of any complaint arising from the taking of water authorized under this Permit and shall report any action which has been taken or is proposed with regard to such complaint. The Permit Holder shall immediately notify the local District Office if the taking of water is observed to have any significant impact on the surrounding waters. After hours, calls shall be directed to the Ministry's Spills Action Centre at 1-800-268-6060.

5.2 For Surface-Water Takings

The taking of water (including the taking of water into storage and the subsequent or simultaneous withdrawal from storage) shall be carried out in such a manner that streamflow is not stopped and is not reduced to a rate that will cause interference with downstream uses of water or with the natural functions of the stream.

5.3 The Permit Holder and their agents shall be responsible for ensuring that no undesirable effects occur as a result of water taking under the authority of this Permit. A record of complaints relating to the Permit Holder's water taking strategy and actions taken to address these complaints must be maintained by the Permit Holder and kept available for review by Ministry staff.

6. **Director May Amend Permit**

The Director may amend this Permit by letter requiring the Permit Holder to suspend or reduce the taking to an amount or threshold specified by the Director in the letter. The suspension or reduction in taking shall be effective immediately and may be revoked at any time upon notification by the Director. This condition does not affect your right to appeal the suspension or reduction in taking to the Environmental Review Tribunal under the *Ontario Water Resources Act* , Section 100 (3).

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is included to ensure that the conditions in this Permit are complied with and can be enforced.

2. Condition 2 is included to clarify the legal interpretation of aspects of this Permit.

3. Conditions 3 through 6 are included to protect the quality of the natural environment so as to safeguard the ecosystem and human health and foster efficient use and conservation of waters. These conditions allow for the beneficial use of waters while ensuring the fair sharing, conservation and sustainable use of the waters of Ontario. The conditions also specify the water takings that are authorized by this Permit and the scope of this Permit.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, you may by written notice served upon me, the Environmental Review Tribunal and the Environmental Commissioner, ***Environmental Bill of Rights****, R.S.O. 1993, Chapter 28, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner will place notice of your appeal on the Environmental Registry. Section 101 of the Ontario Water Resources Act, as amended provides that the Notice requiring a hearing shall state:*

1. The portions of the Permit or each term or condition in the Permit in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

In addition to these legal requirements, the Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Permit to Take Water number;
6. The date of the Permit to Take Water;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This notice must be served upon:

The Secretary *Environmental Review Tribunal* *2300 Yonge Street, 12th Floor* *Toronto, Ontario M4P 1E4*	AND	*The Environmental Commissioner* *1075 Bay Street* *6th Floor, Suite 605* *Toronto, Ontario M5S 2W5*	AND	*The Director, Section 34* *Ontario Water Resources Act,* *RSO 1990,* *Ministry of Environment* *8th Floor* *5775 Yonge St* *Toronto ON M2M 4J1* *Fax: (416)325-6347*

Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal:

by telephone at (416) 314-4600 ***by fax at (416) 314-4506*** ***by e-mail at www.ert.gov.on.ca***

This Permit cancels and replaces Permit Number 00-P-3072, issued on 2001/07/31 12:00:00 AM.

Dated at Toronto this 8th day of Feburary, 2006.

Ellen Schmarje
Director, Section 34
Ontario Water Resources Act , R.S.O. 1990

Schedule A

This Schedule "A" forms part of Permit To Take Water 6063-6JZPT7, dated February 8, 2006.

1. Application for amendment of PTTW No. 00-P-3072 dated December 18, 2003 and signed by Brad Bunkowsky;

2. Permit to Take Water No. 00-P-3072 dated January 25, 2003;

3. "Stream Flow Rating Surveys, Burlington Springs Golf and Country Club, October 23, 2003 and May 16, 2005", Report prepared by Metropolitan Consulting Inc., dated July 4, 2005 and signed by R. Lee Van Biesbrouck;

4. "Burlington Springs Golf Club Condition 17 PTTW No. 00-P-3072", Report prepared by Metropolitan Consulting Inc., dated December 22, 2003;

5. "Burlington Springs Golf and Country Club, Application for a Permit to Take Water, Resubmission" Report prepared by Metropolitan Consulting Inc., dated December, 2001.

Ontario

Ministry of the Environment

PERMIT TO TAKE WATER TECHNICAL REVIEW

Reference No: 1658-5VKLGW
Created by: Paul L Copland

Client:	**Site:**
Burlington Springs Golf & Country Club Client Number: 7984-5MHKEN 5235 Cedar Springs Road Burlington, Ontario, L0P 1B0 Canada	Lot 1, Concession 2 (Old Nelson Twp) Burlington Regional Municipality of Halton Lot: 1 Concession: 2 Lot 2, Concession 2 (Old Nelson Twp) Burlington Regional Municipality of Halton Lot: 2 Concession: 2

Application Technically Complete? ● Yes ○ No

More Technical Information Requested?: ○ Yes ● No

Information Reviewed (list all):

- PTTW File No.IDS Reference No. 1658-5VKLGW
- Water Resources Section File No.SI-YD-MA-C5-220
- Application and Supporting Information (describe):

Application for amendment of PTTW No. 00-P-3072 dated December 18, 2003 and signed by Brad Bunkowsky; Permit to Take Water No. 00-P-3072 dated January 25, 2003 and expires on October 31, 2012; "Stream Flow Rating Surveys, Burlington Springs Golf and Country Club, October 23, 2003 and May 16, 2005", Report prepared by Metropolitan Consulting Inc., dated July 4, 2005; "Burlington Springs Golf Club Condition 17 PTTW No. 00-P-3072", Report prepared by Metropolitan Consulting Inc., dated December 22, 2003; "Burlington Springs Golf and Country Club, Application for a Permit to Take Water, Resubmission" Report prepared by Metropolitan Consulting Inc., dated December, 2001.

-

Related Review Issues:	
Other Relevant Approvals:	

Is Proposal subject to *Environmental Assessment Act* ?	○ Yes ● No If yes, is EA process completed? ○ Yes ○ No Are relevant EA recommendations incorporated into PTTW conditions? ○ Yes ○ No
Is Application for Bottled Water?	○ Yes ● No If yes, was ADM briefing note sent? ○ Yes ○ No
Bulk Water Taking?	○ Yes ● No If greater than 20L container transfer out of watershed, reject application (O. Reg 387/04).

Reviewer Consultation:	
with Municipality?	○ Yes ● No
with First Nations?	○ Yes ● No
with Conservation Authority?	○ Yes ● No
with DFO?	○ Yes ● No
with MOE District Office (complaints)	○ Yes ● No
with MNR?	○ Yes ● No
Consultation Details:	

Permit Technical Evaluation

Assess Complexity
Evaluate Risk for Impact:
The risk for impact is low and localized for prescribed amount and conditions of water taking from the irrigation ponds.

Boundary Assessment:
Extent of Impacts Anticipated:
Impacts limited to on-site, if water will be taken in accordance with stated terms and conditions of Permit to Take Water.

Assess Potential Effects on other Users (Interference):
Indications of past interference from this taking? ● Yes ○ No
Downstream users of intermittent watercourse that runs parallel to Colling Road have reported experiencing extremely low flows due interference from the diversion on summer 2004. Site inspections were conducted by MOE on July and October 2004. MOE letter in regard to these visits dated November 5, 2004 and signed by Leah Mohammed, Environmental Officer,

Halton-Peel District, has been sent on November 10, 2004 to Burlington Springs Golf and Country Club.

Assess Potential Effects on the Environment:

Surface Water:

Burlington Springs Golf and Country Club (BSG) have applied on December 18, 2003 for Permit amendment (PTTW No. 00-P-3072, expires on October 31, 2012).

The reason for this amendment is that the irrigation pump was moved from its former location to adjacent of the main irrigation pond, i.e. in a more central location with respect to the new irrigation ponds. The configuration of the intake structure and rated capacity of pump have not changed and therefore, withdrawal rate has not changed.

Current Permit (PTTW No. 00-P-3072) was issued on February 25, 2003. According to condition 17 of this Permit, the Permit Holder shall ensure that "the flow downstream of the on-line pond weir and the by-pass structure shall not be less than 2 L/s", i.e. once the flow below the weir structure drops to the 2 l/s or 25 IGPM (low flow threshold) the diversion to irrigation ponds must cease. To ensure implementation of this condition BSG installed bypass pipe and head box and reconstructed weir. The report "Stream Flow Rating Surveys, Burlington Springs Golf and Country Club, October 23, 2003 and May 16, 2005", prepared by Metropolitan Consulting Inc., summarizes of the stream flow surveys carried out at the reconstructed weir. First study (October 23, 2003) demonstrated that the bypass structure was not delivering the flow that was designed to provide (minimum flow rate is 2 L/s). As a result the inlet screen and the weir plate were modified to increase the bypass flow. The May 2005 survey verified that bypass and weir structures design maintains requested minimum flow rate of 2 L/s. Upgraded weir controls the split between the flow downstream and the recharge to the irrigation ponds and simultaneously provides minimum passing flow requirement.

Comments & Recommendations.

Based on the above-noted, the following has been agreed upon between MOE and the applicant (Metropolitan Consulting Inc. on behalf of the Burlington Springs Golf and Country Club):

- MOE to issue a 10 year PTTW amendment (for 2006 – 2015 seasons) that authorizes the club to operate as before (i.e. taking from four irrigation ponds and one potable water well upon demand);
- BCG should implement the conditions attached to the parts 3, 4 and 5 of the Permit.
- Based on the last report of Metropolitan Consulting Inc. (July 2005, minimum passing flow condition (2 L/s) should be modified to acknowledge the amount of time it takes to raise the water elevation in the weir pond to level (269.25 MSL), when the flow downstream of the on-line pond weir and the by-pass structure (at the Colling Road culvert) equals to 2 L/s.

Alexander Pluchik

Groundwater:

Review and Consider EBR Comments:

General Comments:

☒ Recommend Approval with Conditions	☐ Recommend Application be Denied

Attachments:

Ontario

Ministry of the Environment

Permit To Take Water Inspection Report

Client:	Burlington Springs Golf & Country Club Mailing Address: 5235 Cedar Springs Road, Burlington, Ontario, Canada, L0P 1B0 Physical Address: 5235 Cedar Springs Road, Concession: , Plan: , Burlington, City, Regional Municipality of Halton, Ontario, Canada, L0P 1B0 Telephone: (905)335-2922, FAX: (905)335-2932 Client #: 7984-5MHKEN, Client Type: Partnership, NAICS: 71391		
Inspection Site Address:	Burlington Springs Golf & Country Club Address: 5235 Cedar Springs Road, Concession: , Plan: , Burlington, City, Regional Municipality of Halton, L0P 1B0 District Office: Halton-Peel		
Contact Name:	Brad Bunkowsky	**Title:**	Club Manager
Contact Telephone:	(905)335-2922 **ext**	**Contact Fax:**	(905)335-2932
Last Inspection Date:	2003/09/26		
Inspection Start Date:	2004/06/03	**Inspection Finish Date:**	2004/06/03
Region:	Central		

1.0 INTRODUCTION

-The purpose of the inspection is to ensure that conditions of Permit to Take Water (PTTW) 00-P-3072 have been complied with, and to follow up the previous inspection conducted on September 26, 2003. The authority and issuance of the PTTW resides in Section 34 of the Ontario Water Resources Act, and Ontario Regulation 285/99.
-The current PTTW is 00-P-3072 and was issued on February 25, 2003. This permit expires on Oct 31, 2012.
-The current permit allows for a maximum taking of 2,720,000 Litres/day and 167,440,000 Litres for the season (May 1 to Oct 30.)

2.0 INSPECTION OBSERVATIONS

Permit Number:
00-P-3072

2.1 PURPOSE OF TAKING:

Irrigation

Additional Comments:

2.2 SYSTEM DESCRIPTION:

Surface water source: Yes

Ground water source: Yes

- The Club has a well onsite that is used solely as a water supply for the clubhouse.
- Surface water is used for irrigation and is diverted from an unnamed tributary of Bronte Creek. The Club is downstream of Nelson Quarry which discharges into a stream that flows along Colling Road onto the property into an online pond. The water is diverted either into a series of ponds on the property or continues through a weir structure designed to ensure appropriate discharge to downstream water users. The weir was designed and installed by Metropolitan Consulting last year.
- There is a series of storage ponds on the property but water is pumped from one main pond using a centrifugal pump powered

by a diesel engine. The pump is located near the 11th fairway. It is noted that a spill containment barrier was installed around the pump this year to guard against spills.
- The Club has a system of sprinkler heads installed on the course. These are used interchangeably with sprinklers to irrigate the golf course.
- There is a spigot system used to aerate the storage ponds.

2.3 QUANTITY ASSESSMENT:

- Due to the heavy rainfall experienced in the area the Club has not had to irrigate yet this spring. Therefore, no records were collected at this inspection.

2.4 ASSESSMENT OF OTHER PERMIT CONDITIONS:

- The club has made all required submissions to Tech Support at this time.

2.5 ASSESSMENT OF REGULATION 285/99:

There are no transfers of water occurring.

3.0 REVIEW OF PREVIOUS NON-COMPLIANCE ISSUES

- At the previous inspection, it was noted that the main pump's location had been moved in contravention to Schedule 'A' of the PTTW. As required, the company has submitted an application to amend the PTTW. The application is currently being reviewed by the Technical Support Section in Central Region.

4.0 SUMMARY OF INSPECTION FINDINGS (HEALTH/ENVIRONMENTAL IMPACT)

Was there any indication of a known or anticipated human health impact during the inspection and/or review of relevant material, related to this Ministry's mandate ?
No

Specifics:

Was there any indication of a known or anticipated environmental impact during the inspection and/or review of relevant material ?
No

Specifics:

Was there any indication of a known or suspected violation of a legal requirement during the inspection and/or review of relevant material which could cause a human health impact or environmental impairment ?
No

Specifics:

Was there any indication of a potential for environmental impairment during the inspection and/or the review of relevant material ?
No

Specifics:

5.0 ACTION(S) REQUIRED

None at this time.

6.0 OTHER INSPECTION FINDINGS

- It is noted that Halton Region Conservation Authority still has issues with this facility. They are receiving regular complaints from the downstream water users and are unsatisfied with the construction of the bypass pipe. These issues will be addressed at a later date.

7.0 INCIDENT REPORT

8.0 ATTACHMENTS

Required attachments:

PREPARED BY:
Environmental Officer:

Name:	Rachel Krisak
District Office:	Halton-Peel District Office
Date:	2004/07/23
Signature	

REVIEWED BY:
District Supervisor:

Name:	Bob Adcock
District Office:	Halton-Peel District Office
Date:	2004/07/23

Signature:

File Storage Number: SI HP BU CE 220

Note:
"This inspection report does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they may apply to this facility. It is, and remains, the responsibility of the owner and/or the operating authority to ensure compliance with all applicable legislative and regulatory requirements"

Ontario Enviro

central site | feedback | search |

HOME AIR WATER LAND ABOUT US NEWS & PUBLICATIONS

User Management

Search

HWIN

Administration



Generator Details

Registration/Notification Number

ON2143100

Legal Company Name

Primary Name:	BURLINGTON SPRINGS GOLF & COUNTRY CLUB	Division Name:	NA

Company Operating Name

Primary Name:	BURLINGTON SPRINGS GOLF & COUNTRY CLUB	Division Name:	NA

Mailing Address

Division Building:	NA	Post Box Number:	NA
Address Line 1:	R.R#3	Address Line 2:	NA
Town/City:	Campbellville	Postal Code / Zip Code:	L0P1B0
County: (if inside Ontario)	HALTON (R. M.)	Province/State (If inside Canada/US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Site Location

This should be the street address of the site that is being registered. You are required to register each site that generates hazardous wa

Division Building:	NA	Post Box Number:	NA
Address Line 1:	5235 CEDAR SPRINGS ROAD		
Address Line 2:	NA		
Town/City:	BURLINGTON	Postal Code / Zip Code:	L0P 1B0
County: (if inside Ontario)	HALTON (R. M.)	Province / State (If inside Canada / US)	ONTARIO
County: (if outside Ontario)	NA	Province / State (If outside Canada / US)	NA
Country:	Canada		

Company Official

The Company Official is the individual within your organization who is responsible for managing hazardous and liquid industrial waste. T Official will also serve as an HWIN Administrator for the organization. The Company Official may also delegate HWIN responsibilities to individuals. You may designate this responsibility in the Additional HWIN Administrator section below.

Name : Mr Brad Bunkowsky

Designation:	General Manager	Business Phone:	905-335-2922 Ext : NA
Mobile:	NA	Fax Number:	NA Ext : NA
Email Address:	noemailhwin@hwin.ca	User Name:	ON2143100

Additional HWIN Administrator

The HWIN Company Official may delegate HWIN Administrator responsibility to other individuals. One additional administrator may be and / more administrators may be registered by an HWIN Administrator after initial registration.

Name:

Designation:		Business Phone:	Ext :

Mobile: Fax Number: Ext :

Email Address: User Name:

Contact Person

HWIN requires that you designate one person to serve as the contact person who will receive all HWIN e-mail messages. Please indica you want the Company Official or the Additional HWIN Administrator to serve as the contact person.

Company Official

Does your organization manage waste on-site? No

NAICS Codes

NAICS Code 1	713910
NAICS Code 2	NA
NAICS Code 3	NA

Company MOE Password: KQ97GIHJ Company Status: REGISTERED

Added by: Generator

UTM Coordinates

The coordinates provided by Global Positioning System (GPS) units is primarily based on the Universal Transverse Mercator (UTM) prc coordinates describe a point location, such as the front gate of a property, by the 'easting' (always a 6 digit number) and 'northing' (alwa number). Please enter your coordinates to the nearest metre."

UTM X-value: (easting) UTM Y-value: (northing)

Site Historical Records

NAICS Historical Records

Edit Back

Ontario This site maintained by the Government of Ontario

Technical inquires to V
© 2002 Queen's Printer

Ontario Enviro

central site | feedback | search |

HOME AIR WATER LAND ABOUT US NEWS & PUBLICATIONS

User Management | Company Mgmt | Manifests | Site Data | Help | Logout

hwin Administration



Search

Company Name: **BURLINGTON SPRINGS GOLF & COUNTRY CLUB**
Company Number: **ON2143100 (Generator)**

Waste Details

Fields marked * are mandatory.

Waste Details(Registered)

Off-site/On-site *	Off-Site
Waste Class*	252 - WASTE OILS & LUBRICANTS
Primary Characterization*	L - LIQUID INDUSTRIAL WASTE
Physical State*	Liquid
Specific Gravity*	(if physical state is liquid)

Waste Stream (Registered)

Waste Type	Waste Description	Description of Generating Process	Hazardous Waste#
automotive oil	10w30	changing oil	

Waste Stream (Not Currently Registered)

Waste Type	Waste Description	Description of Generating Process	Hazardous Waste#

Waste Class Historical Information

Back

Ontario This site maintained by the Government of Ontario

Technical inquires to V

© 2002 Queen's Printer

Ontario Enviro

| central site | feedback | search |

HOME AIR WATER LAND ABOUT US NEWS & PUBLICATIONS

User Management | Company Night | Manifests | Site Data | Logout

hwin Administration



Search

Company Number: ON2143100 (Generator)
Company Name: BURLINGTON SPRINGS GOLF & COUNTRY CLUB

Please use the Account status link/ tab to view all paid transaction.

CLOSED MANIFESTS

S.No.	Manifest No.	Type	Carrier	Receiver	Date Closed	Date Shipped	Status
1	BN53876	Paper	A8231	A140704	30/07/08	17/07/08	Closed Manifest
2	TU51763	Paper	A8231	A140704	16/06/06	17/05/06	Closed Manifest

Page 1 of 1 | 1 |

Back

| central site | feedback | search | site map | français |

Ontario This site maintained by the Government of Ontario

Technical inqui
© Queen's Printer

Ministry of the Environment, Conservation and Parks

Corporate Services Branch
40 St. Clair Avenue West
Toronto ON M4V 1M2

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Direction des services ministériels
40, avenue St. Clair Ouest
Toronto ON M4V 1M2

Ontario

October 11, 2024

Maria Strybos
Cambium Inc.
135 Bayfield Street, Unit 102
Barrie, Ontario L4M 3B3
maria.strybos@cambium-inc.com

Dear Maria Strybos:

RE: MECP FOI A-2024-05873 – Extension Letter

This letter is further to your request made pursuant to the Freedom of Information and Protection of Privacy Act (the Act) relating to:

> Lot 2, 3, and 4 Conc 1 and 2 (Known historic Lot 2,3,4 Conc 2,3) Nelson, Burlington
> Timeframe: January 1st, 1900 to September 4th, 2024

Please be assured that we are making every attempt to respond to your request as soon as possible. However, we wish to advise you that we have extended the time for a response in accordance with subsection 27(1)(a) of the Act for an additional 30 days to November 04, 2024.

The reason for the extension is that the request necessitates a search through a large number of records, approximately **500 pages**, and meeting the time limit would unreasonably interfere with the operations of the institution. If you would like to reduce this extension by narrowing the scope of your request, please contact our office.

You may request a review of my decision within 30 days from the date of this letter by contacting the Information and Privacy Commissioner/Ontario at http://www.ipc.on.ca. Please note there may be a fee associated with submitting the appeal.

If you have any questions, please contact Daniela Jaramillo at daniela.jaramillo@ontario.ca.

Yours truly,
Daniela Jaramillo

for
Josephine DeSouza
Manager, Access and Privacy Office

Ministry of the Environment, Conservation and Parks

Corporate Services Branch
40 St. Clair Avenue West
Toronto ON M4V 1M2

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Direction des services ministériels
40, avenue St. Clair Ouest
Toronto ON M4V 1M2

Ontario

October 29, 2024

Maria Strybos
Cambium Inc.
135 Bayfield Street, Unit 102
Barrie, Ontario L4M 3B3
maria.strybos@cambium-inc.com

Dear Maria Strybos:

RE: MECP FOI A-2024-05873 – Extension Letter

This letter is further to your request made pursuant to the Freedom of Information and Protection of Privacy Act (the Act) relating to:

> Lot 2, 3, and 4 Conc 1 and 2 (Known historic Lot 2,3,4 Conc 2,3) Nelson, Burlington
>
> Timeframe: January 1st, 1900 to September 4th, 2024

Please be assured that we are making every attempt to respond to your request as soon as possible. However, we wish to advise you that we have extended the time for a response in accordance with subsection 27(1)(b) of the Act for an additional 30 days to November 28, 2024.

The reason for the extension is to consult with an institution outside the ministry in order to comply with the request.

You may request a review of my decision within 30 days from the date of this letter by contacting the Information and Privacy Commissioner/Ontario at http://www.ipc.on.ca. Please note there may be a fee associated with submitting the appeal.

If you have any questions, please contact Amina Shah at 437-339-1251 or amina.shah@ontario.ca.

Yours truly,

ASha.

for
Josephine DeSouza
Manager, Access and Privacy Office

Ministry of the Environment, Conservation and Parks

Corporate Services Branch
40 St. Clair Avenue West
Toronto ON M4V 1M2

Ministère de l'Environnement, de la Protection de la nature et des Parcs

Direction des services ministériels
40, avenue St. Clair Ouest
Toronto ON M4V 1M2

Ontario

November 15, 2024

John Kaasalainen
Cambium Inc.
135 Bayfield Street, Unit 102
Barrie, Ontario L4M 3B3
John.kaasalainen@cambium-inc.com

Dear John Kaasalainen:

RE: MECP FOI A-2024-05873 – Record Release Letter

This letter is further to your request made pursuant to the Freedom of Information and Protection of Privacy Act (the Act) relating to:

> Lot 2, 3, and 4 Conc 1 and 2 (Known historic Lot 2,3,4 Conc 2,3) Nelson, Burlington
>
> Timeframe: January 1st, 1900 to September 4th, 2024

Your final fee payment was received by this office. If payment was not in Canadian dollars, please contact our office immediately.

Attached is a copy of the records.

You may request a review of my decision within 30 days from the date of this letter by contacting the Information and Privacy Commissioner/Ontario at http://www.ipc.on.ca. Please note there may be a fee associated with submitting the appeal.

If you have any questions, please contact Amina Shah at 437-339-1251 or amina.shah@ontario.ca.

Yours truly,

ASha.

for
Josephine DeSouza
Manager, Access and Privacy Office

Attachment

Under the Environmental Protection Act and the regulations and subject to the limitations thereof, this Provisional Certificate of Approval is issued to:

The Corporation of the City of Burlington
P.O. Box 5013
426 Brant Street
Burlington, Ontario
L7R 3Z6

for the post-closure maintenance and monitoring of a 14.8 hectare previously landfilled area within a total site area of 28.00 hectares

all in accordance with the following plans and specifications:

as listed in Schedule "A"

Located at: Part of Lots 2 and 3, Concession 1 and 2
City of Burlington

and subject to the following conditions:

DEFINITIONS OF TERMS

1. In this Provisional Certificate of Approval:

   a) "Certificate" means this Provisional Certificate of Approval No. A210103, as amended from time to time, including all Schedules attached to and forming part of this Certificate;

   b) "City" means the Corporation of the City of Burlington;

   c) "Director" means one or more persons who from time to time are appointed under Section 5 of the Environmental Protection Act;

   d) "Regional Director" means the Director, Central Region, the Ministry of Environment and Energy;

   e) "MOEE" means the Ministry of Environment and Energy;

   f) "Landfill" or "Property" means part of Lots 2 and 3, Concession 1 and 2 in the City of Burlington comprising the landfill site as shown on Drawing 1 of Item 3, Schedule "A";

g) "ODWO" means the Ontario Drinking Water Objectives dated February 27, 1964, revised 1994 (and or amended);

h) RUPO means the Ontario Ministry of Environment and Energy's Reasonable Use Policy Objectives (Guidelines B-7);

i) "PWQO" means the Provisional Water Quality Objectives dated July 1994 (and or amended).

GENERAL

2. This Certificate revokes all previously issued Provisional Certificates of Approval issued under Part V of the Environmental Protection Act for this site. The approval given herein including the terms and conditions set out, replaces all previously issued approvals and related terms and conditions under Part V of the Act for this site.

3. (a) Pursuant to Section 197 of the Environmental Protection Act, the City is prohibited from dealing with Property in any way without first giving a copy of this Certificate to each person acquiring an interest in the Property as a result of the dealing.

(b) The City shall:

i) Within 60 days of the date of this Certificate, submit to the Director a completed Certificate of Prohibition, together with a registrable description of the Property as set out in ss. 197(1) of the Act, for the Director's signature.

ii) Upon receiving a copy of the Certificate of Prohibition signed by the Director, register the Certificate of Prohibition on title and forthwith forward to the Director proof that this has been completed.

4. Requirements specified in this Certificate are minimum requirements and do not abrogate the need to take all reasonable steps to avoid violating the provisions of other applicable legislation, regulations, approvals, orders, etc.

5. The requirements of this Certificate are severable. If any requirement of this Certificate to any circumstances is held invalid, the application of such requirement to other circumstances and the remainder of this Provisional Certificate of Approval shall not be affected thereby.

6. The City shall allow MOEE personnel, or a MOEE authorized representative(s), upon presentation of credentials, to:

   a) carry out any and all inspections authorized by the Environmental Protection Act, the Ontario Water Resources Act or the Pesticides Act, as amended from time to time, of any place to which this Certificate relates, and

   without restricting the generality of the foregoing, to:

   b) i) enter upon the premises or the location where the records required by the conditions of this Certificate are kept;

   ii) have access to and copy, at any reasonable time, any records required by the conditions of this Certificate;

   iii) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations required by the conditions of this Certificate.

7. The Landfill shall be monitored and maintained by the City in accordance with all documents listed in Schedule "A". Should there be discrepancies between the documents listed in Schedule "A" and the conditions in this Certificate, the conditions shall take precedence. Should there be discrepancies between the documents listed in Schedule "A", the document bearing the most date shall take precedence.

8. The final cover shall be inspected twice a year in March/April and July to evaluate its integrity and continuity. Should inspection identify any problem regarding the final cover integrity and/or continuity, necessary measures shall be undertaken by the City within five working days, weather permitting.

9. Within 180 days of the issuance of this Certificate the City shall submit to the Regional Director's approval the regular leachate collection system inspection plan. This plan shall be implemented immediately upon its approval by the Regional Director.

LEACHATE MONITORING

10. Leachate monitoring shall be undertaken by the City in accordance with Schedule "B".

GROUNDWATER MONITORING

11. Groundwater monitoring shall be undertaken by the City in accordance with Schedule "C".

12. If continued monitoring indicates leachate related deterioration of groundwater quality at the downgradient attenuation zone boundary, then the City shall submit to the Regional Director for approval, the groundwater trigger mechanism to be used for contingency measures implementation. The trigger mechanism shall include trigger locations, the list of trigger parameters, and trigger concentrations/criteria.

SURFACE WATER MONITORING

13. Surface water monitoring shall be undertaken by the City in accordance with Schedule "D".

14. If continued monitoring indicates landfill related deterioration of surface water quality downstream of the Landfill then the City shall submit to the Regional Director for approval the surface water trigger mechanism for contingency measures implementation. This trigger mechanism shall include trigger locations, the list of trigger parameters, and trigger concentration/criteria.

LANDFILL GAS MONITORING

15. Monitoring of the Landfill's gases shall be undertaken by the City in accordance with Schedule "E".

CHANGES IN MONITORING PROGRAMS

16. Each of Schedules B, C, D, E and F shall be reviewed annually and modified, if warranted, based on the most recent monitoring results. Recommendations for changes in monitoring programs shall be documented in the annual monitoring report and approved by the Regional Director.

ANNUAL REPORT

17. The City shall prepare and submit an annual report to the Regional Director by June 1st of the year following the calendar year covered by the report which shall include as a minimum, the following:

    a) a drawing(s) of the Landfill indicating all groundwater, surface water and gas monitoring locations;

    b) tables outlining monitor locations, analytical parameters sampled, and frequency of sampling;

c) an analysis and interpretation of the surface water, groundwater, leachate, and gas monitoring data; a review of the adequacy of the monitoring programmes; conclusions of the monitoring data; and recommendations for any changes in monitoring programmes that may be necessary;

d) an assessment of groundwater quality in relation to the RUPO, ODWO and trigger concentrations mentioned in Condition 12;

e) an assessment of surface water quality with respect to the PWQO/Guidelines;

f) an assessment of leachate quality and quantity;

g) an assessment of the leachate collection system performance;

h) an assessment of the performance of the attenuation zone;

i) an update of changes in maintenance at the Landfill, and any associated difficulties encountered;

j) recommendations respecting any proposed changes in the Landfill maintenance and monitoring;

k) a statement as to compliance with all Conditions and with the inspection and reporting requirements of the Conditions;

l) a summary of any complaints made regarding Landfill maintenance and monitoring and the City's response and action taken.

SCHEDULE "A"

This Schedule "A" forms part of Provisional Certificate of Approval No. A 210103 *and contains documentation submitted in support of an application for the post-closure maintenance, monitoring and use of the Landfill.*

1. Revised Final Report, Environmental Investigation, Jannock Properties Development Lands, Burlington, Ontario prepared by Golder Associates Limited and dated January, 1994.

2. Survey Plans 20R-11536 and 20R-11537 dated September 1, 1994.

3. Environmental Performance Report, Bayview Park Landfill, Burlington, Ontario prepared by Conestoga-Rovers & Associates Limited and dated November, 1994.

4. 1995 Monitoring Report, Bayview Park Landfill Site, Burlington, Ontario prepared by Conestoga-Rovers & Associates Limited and dated March 1996.

5. Application for approval of a Waste Disposal Site dated December 7, 1995.

6. Letter dated January 31, 1996, Conestoga-Rovers to Mr. E. Zaltsberg of MOEE, Subject: Response to MOEE comments of January 17, 1996.

7. Revised Table 8.1, Site Monitoring Specification, prepared by Conestoga-Rovers and dated January 31, 1996.

8. Letter dated February 6, 1996, Conestoga-Rovers to Mr. E. Zaltsberg of MOEE, Subject: Application to amend the Certificate of Approval No. A 210103.

9. Letter dated April 22, 1996, Conestoga-Rovers to Mr. E. Zaltsberg of MOEE, Subject: Land Acquisition for Establishing the Buffer Zone.

SCHEDULE "B"

This Schedule "B" forms part of Provisional Certificate of Approval No. A 210103. *It describes the leachate monitoring program referred to in Condition 10.*

B.1. OBJECTIVE

The objective of this program is to perform a long-term leachate quality and quantity assessment for the purpose of evaluating the leachate collection system performance.

B.2. MONITORING PLAN

The leachate monitoring program shall be carried out by the City to address the stated objectives and shall include:

B.2.1 Monitoring of leachate level

Locations: 6 Leachate Wells LW1, LW2, LW3, LW4, LW5, LW6

Monitoring Frequency: Twice per year in March and July

Types of Monitoring:

i) measure the depth of each leachate well;

ii) monitor and record leachate level in each well

B.2.2 Leachate Flow Measurements

Location: pumping stations 2 and 3

Monitoring Frequency: continuously

B.2.3 Monitoring of Leachate Quality

Location: 1 manhole MH15

Monitoring frequency: Once per year in March

Analysis:

General Chemistry*

Metals & Cyanide*

VOCs*

BNAEs*

Oil and Grease*

B.2.4 **Leachate Seep Inspection**

Walk over the entire landfill with special attention to be given to 9 known leachate seeps: LS1, LS2, LS3, LS4, LS5, LS6, LS7, LS8, LS9

Monitoring Frequency: Twice per year, in March and July

Types of Monitoring:

i) identify any leachate seep that has re-occurred
ii) estimate flow rate at the seep when it is possible, and report it in L/sec or gpm
iii) complete leachate seep inspection sheets
iv) report any occurrences of leachate seeps or failure of leachate collection system

B.2.5. **Leachate Collection System Inspection**

The leachate collection system inspection shall be performed in accordance with the program mentioned in condition 9.

* See Schedule "F"

SCHEDULE "C"

This Schedule "C" forms part of Provisional Certificate of Approval No. A 210103. *It describes the groundwater monitoring program referred to in Condition 11.*

C.1. MONITORING PROGRAM OBJECTIVES

to monitor groundwater quality within and at the buffer zone boundary;

to identify and characterize movement of leachate - related contaminants at the site/buffer zone boundary;

to evaluate the effectiveness of the established buffer zone; and

to evaluate the efficiency of the leachate collection system

C.2. MONITORING PLAN

The groundwater monitoring program shall be carried out by the City to address the stated objectives and shall include:

C.2.1 Monitoring of Groundwater Level

Locations:

PW3, OW1A-93, OW1B-93, OW2A-93, OW2B-93, OW3-93, OW4-93

Monitoring frequency: Twice per year in March and July

C.2.2 **Monitoring of Groundwater Quality**

Locations:

PW3, OW1A-93, OW1B-93, OW2A-93, OW2B-93, OW3-93, OW4-93

Monitoring Frequency: Twice per year in March and July

Analysis:

General Chemistry*, VOCs*, Metals*

All observation wells to be sampled shall be purged at least 5 well casing volume or dry prior to sampling.

C.3 **MONITORING SYSTEM MAINTENANCE**

During each monitoring event, the monitoring network shall be visually inspected by the City. Changes in the physical condition of each well shall be noted and necessary repairs undertaken.

Operational monitoring wells that are shown to be damaged beyond repair or whose integrity is in doubt for further monitoring, shall be abandoned in accordance with standard procedures and replaced, if necessary.

Existing non-operational monitoring wells shall be abandoned in accordance with standard procedures.

* See Schedule "F"

SCHEDULE "D"

This Schedule "D" forms part of Provisional Certificate of Approval No. A 210103. *It describes the surface water monitoring program referred to in condition 13.*

D.1 OBJECTIVES

The objectives of this program are:

to evaluate the Landfill's impact on surface water quality downstream of the Landfill;

to evaluate the effectiveness of the buffer zone; and

to evaluate the efficiency of the leachate collection system.

D.2. MONITORING PLAN

The surface water monitoring program shall be carried out by the City to address the stated objectives and shall include:

D.2.1. **Flow Measurement**

Locations: SW9A-93, SW13-93, SW14-93 and SW15-93

Monitoring Frequency:
Twice per year in March and July . If July event is dry, a third event is to be scheduled in the fall

D.2.2 **Monitoring of Surface Water Quality**

Locations:

Upstream: SW9A-93, SW11-87
Landfill Vicinity: SW1-87, SW3-87, SW5-87
Downstream: SW13-93, SW14-93, SW15-93

Monitoring Frequency: An indicated in D.2.1 above

Analysis: General Chemistry*, Bacteria*, VOCs*

If phenols are detected in the leachate at MH15 during two consecutive events, then phenols are to be added to the above - mentioned list of parameters.

* See Schedule "F".

SCHEDULE "E"

This Schedule "E" forms part of Provisional Certificate of Approval No. A 210103. *It describes the Landfill gas monitoring program referred to in Condition 15.*

E.1. OBJECTIVE

The objective of this program is to monitor combustible gas concentrations in the unsaturated zone along the southern buffer area boundary.

E.2. MONITORING PLAN

The Landfill gas monitoring program shall be carried out by City to address the stated objective and shall include:

E.2.1. Locations: GP1-93, GP2-93 and GP3-93

E.2.2 Monitoring Frequency: Twice per year in March and July

E.2.3. Types of Monitoring:

Measure and record gas levels. If groundwater is present within gas probes then purge and record groundwater level prior to recording gas levels the next day.

SCHEDULE "F"

This Schedule "F" forms part of Provisional Certificate of Approval No. A 210103. *It describes the list of parameters to be analyzed in leachate, groundwater and surface water samples referred to in Schedules B, C and D.*

GENERAL CHEMISTRY

A. Leachate
Hardness, Alkalinity, Chloride, Sulphate, TKN, BOD, COD, Ammonia - N, Fluoride, Phenols, Suspended Solids, Field pH, Field Conductivity, and Field Temperature.

B. Groundwater and Surface Water
Alkalinity, Chloride, TKN, Ammonia - N, Field pH, Field Conductivity, and Field Temperature.

METALS AND CYANIDE

A. Leachate
Aluminum, Arsenic, Barium, Calcium, Copper, Iron, Lead, Magnesium, Manganese, Potassium, Sodium, Strontium, Total Phosphorus, Cadmium, Chromium, Tin, Zinc.

B. Groundwater and Surface Water
Potassium, Sodium

VOCs

Benzene, 1,4-Dichlorobenzene, Toluene, Chlorobenzene.

BNAEs

Bis (2-ethylhexyl) Phthalate

OIL AND GREASE

Mineral oil and grease, animal/vegetation oil and grease.

BACTERIA

Total coliforms, Fecal coliforms, Fecal streptococci, E.coli.

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990 c. E-19, you may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board. Section 142 of the Environmental Protection Act, as amended provides that the Notice requiring a hearing shall state:

1. *The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;*
2. *The grounds on which you intend to rely at the hearing in relation to <u>each</u> portion appealed.*

In addition to these legal requirements, the Notice should also include:

3. *The name of the appellant;*
4. *The address of the appellant;*
5. *The Certificate of Approval number;*
6. *The date of the Certificate of Approval;*
7. *The name of the Director;*
8. *The municipality within which the waste disposal site is located;*

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary,
Environmental Appeal Board,
112 St. Clair Avenue West,
Suite 502,
Toronto, Ontario,
M4V 1N3

<u>AND</u>

The Director,
Section 39, Environmental Protection Act,
Ministry of the Environment and Energy,
250 Davisville Avenue, 3rd Floor,
Toronto, Ontario.
M4S 1H2

DATED AT TORONTO this 5th *day of* March, 1997.

THIS IS A TRUE COPY OF
THE ORIGINAL CERTIFICATE
SIGNED BY

A. DOMINSKI P. ENG.

MAILED ON March 11/97

BY _____

Ministry of the Environment
Ontario

NOTICE

TO:

The Corporation of the
City of Burlington
P.O. Box 5013
426 Brant Street
Burlington, Ontario L7R 3Z6

ATTENTION: MS. HELEN MACRAE, CLERK

Take Notice that condition no. 1 of Provisional Certificate of Approval No. A 210103, dated October 11, 1973, is hereby revoked and replaced with the following conditions:

1. Prior to the excavation of any waste in connection with the construction of a leachate collection system approved under Certificate of Approval No. 3-0819-86-007, the City shall file with the Director of Central Region of the Ministry of the Environment (the Regional Director) plans and design details for the relocating and covering of the excavated waste and the recontouring of the site. No waste may be excavated or relocated without the approval of the Regional Director and except in accordance with such plans and design details.

2. All excavated waste shall be handled in accordance with the "Health and Safety Protocol" described in a letter from Greg Ferraro, P. Eng. of Conestoga-Rovers & Associates Limited, to Lyle Parsons of the Ministry dated July 14, 1986.

3. Surface improvements shall be completed in accordance with Section 8.0 of the "Detailed Design Report, Leachate Collection System and Surface Drainage Improvements" dated June 1986 and the "Contract Documents for Surface Drainage Improvements" and associated Plans 1 to 4 issued June 20, 1986.

4. The City shall carry out the monitoring and inspection program as approved by the Regional Director with such modifications as may be approved from time to time by the Regional Director. On or before March 1st of each year, the City shall file a report with the Regional Director containing an analysis and evaluation of the monitoring and inspection program for the previous year.

The reasons for the imposition of these conditions are as follows:

1. The reason for condition 1 is to ensure that the relocation of the waste is carried out in accordance with a defined protocol. Not doing so may create a nuisance and would not be in the public interest.

2. The reason for condition 2 is to protect the health and safety of persons involved in the relocation of the waste.

3. The reason for condition 3 is to reduce infiltration of surface water into the site, to eliminate exposed refuse which is creating a nuisance and to ensure proper control of the site.

4. The reason for condition 4 is to provide for the investigation of groundwater contamination in the area of the site and to ensure that the existing surface water contamination problem is abated by the installation of the leachate collection system.

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board.

This Notice should be served upon:

The Secretary
Environmental Appeal Board
1 St. Clair Avenue West
5th Floor
Toronto, Ontario M4V 1K7

AND

The Director
Section 38, E.P.A.
Ministry of the Environment
135 St. Clair Ave. W.,
Toronto, Ontario M4V 1P5

Dated at Toronto this 16th day of July, 1986.

Director,
Section 38, E.P.A.,
Ministry of the Environment

THIS IS A TRUE COPY OF THE ORIGINAL NOTICE MAILED
ON July 21/86

Ontario

Ministry of the Environment

PROVISIONAL CERTIFICATE OF APPROVAL FOR A WASTE DISPOSAL SITE

9/0/03

Provisional Certificate No. 210205

Under The Environmental Protection Act, 1971 and the regulations and subject to the limitations thereof, this Provisional Certificate of Approval is issued to

Town of Burlington,

426 Brant Street, Burlington, Ontario

for the Landfill Site

located Lot 2, Concession 2,

Town of Burlington

subject to the following conditions

That as the site is closed necessary action shall be taken to maintain the integrity and continuity of the cover materials.

This Provisional Certificate expires on the 15th day of August, 1974

Dated this 11th day of October, 1973

Director, Waste Management Branch

MOE 14-201

(Page 1 of 1 Pages)

000017

Ministry of the Environment

Ontario

NOTICE

TO: Town of Burlington,
426 Brant Street,
Burlington, Ontario

You are hereby notified that Provisional Certificate of Approval No. 210205 has been issued to you subject to the conditions outlined therein.

The reasons for the imposition of these conditions are as follows:

For the conservation of the natural environment.

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board.

This Notice should be served upon:

Environmental Appeal Board,
365 Bay Street,
Suite 300,
Toronto, Ontario.
M5H 2V3

AND

The Director,
Waste Management Branch,
Ministry of the Environment,
880 Bay Street, 3rd Floor,
Toronto, Ontario.
M5S 1Z8.

DATED at Toronto this 11th day of ~~October~~, 1973.

000018

Ministry of the Environment
Ontario

NOTICE

ONTARIO MINISTRY OF THE ENVIRONMENT
JUL 17 1986
CENTRAL REGION
OAKVILLE OFFICE

TO: The Corporation of the
City of Burlington
P.O. Box 5013
426 Brant Street
Burlington, Ontario L7R 3Z6

ATTENTION: MS. HELEN MACRAE, CLERK

Take Notice that condition no. 1 of Provisional Certificate of Approval No. A 210103, dated October 11, 1973, is hereby revoked and replaced with the following conditions:

1. Prior to the excavation of any waste in connection with the construction of a leachate collection system approved under Certificate of Approval No. 3-0819-86-007, the City shall file with the Director of Central Region of the Ministry of the Environment (the Regional Director) plans and design details for the relocating and covering of the excavated waste and the recontouring of the site. No waste may be excavated or relocated without the approval of the Regional Director and except in accordance with such plans and design details.

2. All excavated waste shall be handled in accordance with the "Health and Safety Protocol" described in a letter from Greg Ferraro, P. Eng. of Conestoga-Rovers & Associates Limited, to Lyle Parsons of the Ministry dated July 14, 1986.

3. Surface improvements shall be completed in accordance with Section 8.0 of the "Detailed Design Report, Leachate Collection System and Surface Drainage Improvements" dated June 1986 and the "Contract Documents for Surface Drainage Improvements" and associated Plans 1 to 4 issued June 20, 1986.

4. The City shall carry out the monitoring and inspection program as approved by the Regional Director with such modifications as may be approved from time to time by the Regional Director. On or before March 1st of each year, the City shall file a report with the Regional Director containing an analysis and evaluation of the monitoring and inspection program for the previous year.

The reasons for the imposition of these conditions are as follows:

1. The reason for condition 1 is to ensure that the relocation of the waste is carried out in accordance with a defined protocol. Not doing so may create a nuisance and would not be in the public interest.

2. The reason for condition 2 is to protect the health and safety of persons involved in the relocation of the waste.

3. The reason for condition 3 is to reduce infiltration of surface water into the site, to eliminate exposed refuse which is creating a nuisance and to ensure proper control of the site.

4. The reason for condition 4 is to provide for the investigation of groundwater contamination in the area of the site and to ensure that the existing surface water contamination problem is abated by the installation of the leachate collection system.

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board.

This Notice should be served upon:

The Secretary
Environmental Appeal Board
1 St. Clair Avenue West
5th Floor
Toronto, Ontario M4V 1K7

AND

The Director
Section 38, E.P.A.
Ministry of the Environment
135 St. Clair Ave. W.,
Toronto, Ontario M4V 1P5

Dated at Toronto this 16th day of July, 1986.

Director,
Section 38, E.P.A.,
Ministry of the Environment

Ontario

Ministry of Environment and Energy

Ministère de l'Environnement et de l'Énergie

1235 Trafalgar Road
Suite 401
Oakville ON L6H 3P1

1235 chemin Trafalgar
Bureau 401
Oakville ON L6H 3P1

1995 02 22

Mr. Peter Hayes, B. Sc.
Conestoga-Rovers & Associates Limited
651 Colby Drive
Waterloo, Ontario
N2V 1C2

Dear Mr. Hayes:

Re: Environmental Performance Report, Bayview Park Landfill November 1994, Conestoga Rowers & Associates, for the City of Burlington and Jannok Ltd.

The above referenced report provides a technical evaluation as to the suitability of development of adjacent lands south of the landfill. The report is a follow up of a joint City of Burlington/Jannock Ltd. report "Concept proposal, Bayview Park Landfill Buffer Zone/Monitoring requirements and development of lands south of Bayview Park landfill dated January 1993 prepared jointly by CRA and Golders. Based on a review of monitoring and landfill performance data, the report documents the rationale for a revised monitoring program as well as the requirements for down gradient buffer/attenuation lands. Review comments are as follows:

1. Section 2.1, page 12. Landfill gas monitoring should be included in the current (1994) monitoring schedule.

2. Section 3.0. Field study methodology, instrumentation and sampling QA/QC generally conform to accepted hydrogeological practices.

3. Landfill leachate characterization is discussed under Section 4.3. Representative landfill leachate composition is based on chemical analysis taken from leachate wells and the collection system. Volatile organics most frequently detected in leachate are chlororbenzene, 1,4 - Dichlorobenzene, benzene and toluene. Chlorinated volatile organics could be considered as useful landfill leachate indicators in determining landfill impacts on ground

0781CF (06/94)
0781 CFA (10/93)

100% Unbleached Post-Consumer Stock
100% Unbleached Post-Consumer Stock

water because of the natural poor quality of underlying ground water and difficulty in finding suitable inorganic indicator paramaters.

4.Section 4.4.2.1. Water quality results from the 1993 series of observation wells is discussed, these monitors are screened and positioned in the active shallow flow system down gradient of the landfill. Chloride concentration from two sampling events in March and April are used to establish natural background quality and to assess the effectiveness of the leachate collection system in containing leachate contaminated ground water. Presently, there does not appear to be sufficient data to state that there is no deleterious ground water impact and that the collection system is effectively controlling migration of contaminated ground water within the proposed buffer/attenuation zone. Chloride concentration of 1150 to 936 mg/l in OW1B-93 suggest mixing with deeper seated mineralized water. To determine chloride concentration profiles and to assess natural water quality in shallow downgradient wells,the existing data base will need to be expanded.
The report recommends that sodium and potassium be included in the list of chemical paramaters to be tested in the proposed rationalized monitoring program. These values are to be used in trilinear plots of major ion ratios to assist in identifying apparent mixing of landfill leachate with ground and surface waters. There is no description of the method that will be used. Will the plotted data distinguish between leachate impacted ground water and shallow ground water mixed with deeper seated mineralised water.

The significance of low levels of benzene, ethyl benzene, xylene and toluene in the March sampling event is of some concern. Although BTEX compounds are known to occur naturally in some bedrock waters, additional work is required to show that the presence of these compounds is not landfill related.

5.Section 7.0. The buffer/attenuation zone area is shown in Drawing 1 and Figure 3.1. this area will be used for ground and surface water and landfill gas monitoring.The rationalized monitoring program is designed to measure ground water quality changes at the downgradient buffer zone boundary.The report states that the buffer/attenuation zone will allow for the attenuation of landfill derived contaminants and provide for boundary impact monitoring capabilities, in addition the buffer area would facilitate assess to the landfill collection system and provide land for contingency measures if required.While agreeing that the buffer zone will meet these requirements it is not clearly demonstrated that landfill derived impacts are completely eliminated in the buffer zone area. Further, what is the criteria to be used at the downgradient buffer boundary to establish water quality changes?

To summarise, the rationalized monitoring program for ground water outlined on Table 8.1 is generally acceptable. It must be recognised,that the current monitoring program is in its early stages and additional work is required to estimate background values and establish concentration trends. Modifications to the program may be necessary at some later date as the data base is expanded.Comments on the revised surface water monitoring are being addressed separately.

If you need clarification on the above, please call me at (905)815-5931.

Yours truly,

T. Brankovic, P. Eng.,
District Engineer
Halton-Peel Region

cc: J. D'Cruz

[peter2cra.ltr]

Consulting Engineers

CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive
Waterloo, Ontario, Canada N2V 1C2
(519) 884-0510 Colby Office Fax: (519) 884-0525
(519) 725-3313 Bathurst Office (519) 725-1394

April 25, 1995

Reference No. 1354

Mr. Tom Brankovic
Ministry of Environment and Energy
Halton-Peel District Office
1235 Trafalgar Road, Suite 401
Oakville, Ontario
L6H 3P1

Dear Mr. Brankovic:

Re: Response to MOEE Comments
Environmental Performance Report
Bayview Park Landfill
City of Burlington, Ontario

Comments prepared by the MOEE regarding the groundwater component of the above-noted report are outlined in a letter to Mr. Peter Hayes dated February 22, 1995. Comments on the surface water monitoring were not included in this letter and will be addressed separately. A copy of the MOEE letter is included in Attachment A of this letter for ease of reference.

This letter provides CRA's responses to the MOEE Comments on a point-by-point basis:

1. MOEE Comment: Section 2.1, page 12

Landfill gas monitoring should be included in the current (1994) monitoring schedule.

CRA Response

The 1994 monitoring (Appendix B) schedule did not incorporate monitoring of landfill gas, as this was intended to be incorporated once, MOEE concurrence was received with respect to the rationalized monitoring program. As indicated in page 38 of the Environmental Performance Report, landfill gas monitoring will be conducted two times annually at each of the three gas probes (GP1-93, GP2-93 and GP3-93) monitoring locations. Landfill gas monitoring will only be included as part of the current monitoring schedule, when the monitoring program (both surface water and groundwater) and the extent of the proposed Buffer/Attenuation zone as proposed with the Environmental Performance Report is approved by the

MOEE. It should be noted that there are currently no structures in the vicinity of these boundary gas probe locations.

2. MOEE Comment: Section 3.0

Field study methodology, instrumentation and sampling QA/QC generally conform to accepted hydrogeological practices.

CRA Response

We are in agreement, no response required.

3. MOEE Comment

Landfill leachate characterization is discussed under Section 4.3. Representative landfill leachate composition is based on chemical analysis taken from leachate wells and the collection system. Volatile organics most frequently detected in leachate are chlorobenzene, 1,4-Dichlorobenzene, benzene, and toluene. Chlorinated volatile organics could be considered as useful landfill leachate indicators in determining landfill impacts on ground water because of the natural poor quality of underlying groundwater and difficulty in finding suitable inorganic indicator parameters.

CRA Response

It was indicated on page 31 of the Environmental Performance Report that "the presence of chlorinated volatile organic compounds are also considered as diagnostic indicators of landfill derived groundwater impact".

Given the historic difficulty in the evaluation of inorganic parameters as indicators of landfill-derived impact on groundwater quality, trends in inorganic parameters (see Response to Comment #4) will be evaluated in conjunction with trends in chlorinated volatile organic and BTEX compounds to determine the potential impact of the landfill on groundwater quality.

4. MOEE Comment: Section 4.4.2.1

Water quality results from the 1993 series of observation wells is discussed, these monitors are screened and positioned in the active shallow flow system downgradient of the landfill. Chloride concentration from two sampling events in March and April are used to establish natural background quality and to assess the effectiveness of the leachate collection system in containing leachate contaminated ground water. Presently, there does not appear to be sufficient data to state that there is no deleterious ground water impact and that the collection system is effectively controlling migration of contaminated groundwater within the proposed buffer/attenuation zone. Chloride concentration of 1150 to 936 mg/L in OW1B-93 suggest mixing with deeper seated mineralized water. To determine chloride concentration profiles and to assess natural water quality in shallow downgradient wells, the existing database will need to be expanded.

The report recommends that sodium and potassium be included in the list of chemical parameters to be tested in the proposed rationalized monitoring program. These values are to be used in trilinear plots of major ion ratios to assist in identifying apparent mixing of landfill leachate with ground and surface waters. There is no description of the method that will be used. Will the plotted data distinguish between leachate impacted groundwater and shallow groundwater mixed with deeper seated mineralized water.

The significance of low levels of benzene, ethylbenzene, xylene and toluene in the March sampling event is of some concern. Although BTEX compounds are known to occur naturally in some bedrock waters, additional work is required to show that the presence of these compounds is not landfill related.

CRA Response

It is realized that the existing database will need to be expanded in order to assess natural water quality in shallow downgradient wells. It should also be noted that no single parameters or sampling events are or will be used to identify the potential impact of landfill-derived leachate on groundwater quality. Rather, an evaluation of all parameters (inorganic, BTEX and chlorinated volatile organic compounds) and trends in water quality will be

used to identify the potential impact of landfill-derived leachate in the quality of downgradient groundwater.

It was recommended in p. 37 of the Environmental Performance Report that sodium and potassium be included in the list of chemical parameters to prepare major ion ratio plots and not trilinear plots. It is proposed to plot potassium/sodium (K/Na) vs. chloride/alkalinity (Cl/Alk) ratios in order to identify apparent mixing of landfill leachate with ground and surface waters. The existing leachate characterization data provided in Table 4.1 of the Environmental Performance Report indicate that the leachate contains relatively high concentrations of chloride (3,230 mg/L) and alkalinity (3,370 mg/L). The leachate is also comprised of relatively high concentrations of potassium (137 mg/L) and sodium (371 mg/L). Based on the above data, the Cl/Alk and K/Na ratios for the leachate are on the order of 1 and 0.5, respectively. The existing groundwater general chemistry data presented in Table 3.7A of the Environmental Performance Report indicates that the Cl/Alk ratios for shallow groundwater are different than the Cl/Alk ratio of 1 for leachate. The Cl/Alk ratios for shallow groundwater are generally less than 0.5. The ratios for deep mineralized or mixed shallow and deep mineralized groundwater are 5 or greater.

The potassium and sodium data will be used to determine the K/Na ratios for groundwater and these in turn will be employed to further assess if potential mixing of landfill leachate and groundwater occurs.

As indicated in the Environmental Performance Report, the emphasis will be placed on the evaluation of trends rather than single occurrences/detections in the ground and surface water quality.

The significance of low levels of BTEX compounds will be further evaluated as additional groundwater quality is obtained. Again, emphasis will be placed on the evaluation of trends in water quality (i.e., BTEX, chlorinated volatile organic compounds and inorganic parameters).

5. MOEE Comment: Section 7.0

The buffer/attenuation zone area is shown in Drawing 1 and Figure 3.1. This area will be used for ground and surface water and landfill gas monitoring.

The rationalized monitoring program is designed to measure groundwater quality changes at the downgradient buffer zone boundary. The report states that the buffer/attenuation zone will allow for the attenuation of landfill derived contaminants and provide for boundary impact monitoring capabilities, in addition the buffer area would facilitate assess to the landfill collection system and provide land for contingency measures if required. While agreeing that the buffer zone will meet these requirements it is not clearly demonstrated that landfill derived impacts are completely eliminated in the buffer zone area. Further, what is the criteria to be used at the downgradient buffer boundary to establish water quality changes?

CRA Response

The proposed buffer/attenuation zone is intended to allow for control for the purposes of monitoring and the implementation of any additional management practices that may be required. In addition, the criteria to be used at the downgradient buffer boundary to establish water quality changes will be based on the evaluation of trends in water quality for all parameters (i.e., BTEX, chlorinated volatile organic compounds and inorganic parameters).

6. MOEE Comment: Section 7.0

To summarize, the rationalized monitoring program for groundwater outlined in Table 8.1 is generally acceptable. It must be recognized, that the current monitoring program is in its early stages and additional work is required to estimate background values and establish concentration trends. Modifications to the program may be necessary at some later date as the database is expanded.

CRA Response

It is realized that the current monitoring program is in its early stages and that additional work is required to estimate background values and establish concentrations trends.

As previously indicated emphasis will be placed on the evaluation of trends in water quality rather than the evaluation of single occurrences of detections.

Modifications to the monitoring program will be performed if the evaluation of the expanded database indicates that this is necessary.

Both the City of Burlington and Jannock Ltd. would like to initiate the Proposed Site Monitoring Program Specifications (Table 8.1) as soon as practical. As stated on pg. 39 of the Environmental Performance Report; the proposed program will not be implemented until the MOEE has approved both, the complete monitoring program, and the limits of the Proposed Buffer/Attenuation zone. It is our understanding that a surface water MOEE reviewer has yet to review the Environmental Performance Report, your best efforts to expedite the review process would be appreciated. Also, please recall, that the COB would like initiate discussions with regards to any amendments to the Certificate of Approval which may be appropriate to reflect the legal definition of the site given the additions of downgradient buffer/attenuation zone lands.

Should you have any questions on this matter, please do not hesitate to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Peter Hayes, B.Sc.

GL/dvs/2

c.c.: J. Budz, MOEE Oakville
D. Bunner, Golder Associates
D. Brown, City of Burlington
A.J. Crutcher, CRA

(2)

Ontario

Ministry of Environment and Energy

Ministère de l'Environnement et de l'Énergie

5775 Yonge Street
8th Floor
North York, Ontario
M2M 4J1

5775, rue Yonge
Bième étage
North York (Ontario)
M2M 4J1

Central Region
Technical Support
Section

Région du Centre
Section d'appui
technique

June 21, 1995

TO: Tom Brankovic
Halton - Peel District Office

FROM: Jimmy D'Cruz
Technical Support

RE: Bayview Park Landfill, City of Burlington
CRA Letter Ref No. 1354, dated April 25, 1995

I have received and looked at Conestoga-Rovers & Associates reply to the MOEE comments in their letter report dated April 25, 1995.

CRA have satisfactorily addressed the concerns/questions raised in our review comments of the Environmental Performance report. As indicated in the CRA response, the emphasis in the environmental performance monitoring is on the evaluation of water quality trends rather than on single occurences or exceedences. It is also recognised that the existing data base needs to be upgraded and that additional work will be required to estimate background values and assess water quality changes.

I hope you find the above in order.

J. D'Cruz

Ministry of the Environment / Ministère de l'Environnement
Ontario

Certificate of Approval (Sewage)
Certificat d'autorisation (eaux usées)

Number / *Numéro* 3-0819-86-007

Whereas / ***Attendu que*** THE CORPORATION OF THE CITY OF BURLINGTON

of / *d*

has applied in accordance with Section 24 of the Ontario Water Resources Act for approval of:
a fait, conformément à l'article 24 de la loi sur les ressources en eau de l'Ontario, une demande d'autorisation:

A new leachate collection, pumping and transmission system to collect and dispose of (into the City of Burlington's municipal sanitary sewer system) surface leachate and contaminated shallow groundwater from the closed Bayview Park sanitay landfill site bounded by King Road to the northeast and the upper reaches of Indian Creek to the southwest in the City of Burlington, consisting of a toe drain system located at the base of a ravine to the west of the landfill area running approximately 250 metres north of the landfill south property line, two pre-fabricated leachate collection sumps having twin (one duty and 1 standby), 1.5 and 2.0 kW explosion proof submersible type pumps, each pump being rated at:

Pump	Rated Head (m)	Rated Capacity (L/min)
2	17.4	225
3	19.9	200

together with all associated pump level controls, access hatch, electrical control panel internal sump piping, fittings and appurtenances as well as a 200 mm buried perforated PVC leachate collector header at each sump location and 50-75 mm diameter high density polyethylene collected leachate forcemains located along the south edge of the landfill fill area discharging to a 200 mm diameter leachate collection sewer and forcemain, the forcemain section of the sewer being located within the fill area of the landfill (southern edge) for a distance of 120 metres to a height of land with the gravity section of the leachate collection sewer continuing along the south side of the landfill to King Road a distance of 470 m. The sewer then turns south following the west ditch of King Road down to the North Service Road, a distance of approximately 590 metres. The gravity sewer then changes diameter to 450 mm and crosses under the North Service Road and Highway 403 at a point 20 m west of the King Road Overpass. The sewer crosses Highway 403 (a distance of 80 m) and then continues south for 127 metres on the west side of King Road to an existing 450 mm municipal sanitary sewer located on King Road, all in accordance with the documents listed in Schedule "A" (attached) at a total estimated cost, including engineering and contingencies, of EIGHT HUNDRED AND FIFTY THOUSAND DOLLARS ($850,000.00), subject to the following special terms and conditions considered necessary by the undersigned: ---------- 2

Now therefore this is to certify that after due enquiry the said proposed works have been approved under Section 24 of the Ontario Water Resources Act.

Le présent document *certifie qu'après vérification en bonne et due forme la construction dudit projet d'ouvrages a été approuvée aux termes de l'article 24 de la loi sur les ressources en eau de l'Ontario.*

This Certificate supercedes Certificate of Approval No. 3-0819-86-006 issued at Toronto, on June 27, 1986.

DATED AT TORONTO this 16th day of July, 1986
DATÉ À TORONTO ce *jour d*

Attn: Ms. H. MacRae, Clerk, City of Burlington
cc: M. Koevoets, Dir. of Works ✓
N.H. Boggs, Chief Admin. Officer
D.J. Varley, Clerk, R.M. of Halton
J. Tidball, MOE Legal Services Br.
G. Mierzynski, MOE C. Reg. Dir.
Conestoga-Rovers & Assoc. Ltd.

cc: G. Nelson, MOE Halton Peel Dist. Office
R.W.J. Moore, Reg. Engr.
R.S. Christensen, National Sewer Pipe

Director / *Directeur*

0731 06 84

000031

Ministry of the Environment / Ministère de l'Environnement

Ontario

Certificate of Approval (Sewage)
Certificat d'autorisation (eaux usées)

Number / *Numéro* 3-0819-86-007

Whereas / *Attendu que*

of / *d*

has applied in accordance with Section 24 of the Ontario Water Resources Act for approval of:
a fait, conformément à l'article 24 de la loi sur les ressources en eau de l'Ontario, une demande d'autorisation:

SPECIAL TERMS AND CONDITIONS

1. Upon completion of the sewage works the Corporation of the City of Burlington shall supply the Ministry of the Environment, Environmental Approvals and Land Use Planning Branch with as-constructed drawings for the on-site works namely those works between Manhole No. 12 and Manhole No. 21, including all works located within the Bayview Park Landfill site boundary as shown on the engineering drawing entitled Bayview Park Landfill Leachate Collection System, General Layout, Drawing No. 06, Sheet 1 of 15, prepared by Conestoga-Rovers & Associates Limited dated April, 1986 revised as per addendum No. 1 and Change Order No. 1.

2. All liquids which require dewatering for any reason during construction of all on-site works between Manhole No. 12 and Manhole No. 21 as described in Condition No. 1 shall be discharged to a sanitary sewer. Written records of volumes of liquids dewatered shall be supplied to the MOE inspector upon request.

THIS IS A TRUE COPY OF THE ORIGINAL CERTIFICATE MAILED
ON JUL 21 1986
SM
(Signed)

Now therefore this is to certify that after due enquiry the said proposed works have been approved under Section 24 of the Ontario Water Resources Act.
***Le présent document** certifie qu'après vérification en bonne et due forme la construction dudit projet d'ouvrages a été approuvée aux termes de l'article 24 de la loi sur les ressources en eau de l'Ontario.*

DATED AT TORONTO this 16th day of July, 1986
DATÉ À TORONTO ce *jour d*

/ec

0731 06 84

Director / *Directeur*

SCHEDULE "A"

This Schedule "A" forms part of Certificate of Approval No. 3-0819-86-007 issued on July 16, 1986.

1. Detailed design drawings prepared by Conestoga-Rovers and Associates Limited, Consulting Engineers, issued June 23, 1986 and date stamped July 8, 1986 Environmental Approvals and Land Use Planning Branch entitled Bayview Park Landfill, Leachate Collection System, Contract No. 86-16.

2. Contract Specifications dated June, 1986 entitled City of Burlington, Bayview Landfill Site Leachate Collection System and Surface Drainage Improvements, Contract 86-16, File 760.04-2 (noted by MOE as a second submission).

3. A letter dated June 17, 1986 to Mr. Lyle Parsons from Greg Ferraro, P.Eng. entitled Addendum No. 1, Bayview Park Landfill, Leachate Collection System detailing changes to the Leachate Collection System, Contract 86-16.

4. A letter dated June 23, 1986 to Lyle Parsons, B.E.S. Systems Co-ordinator from Alan Ramsay, Environmental Management Co-ordinator, The Corporation of the City of Burlington, with attached Addendum No. 2, Bayview Park Landfill, Leachate Collection System detailing changes to the leachate pumping system, Contract 86-16.

5. Change Order No. 1 dated June 25, 1986 entitled Corporation of City of Burlington, Bayview Park Landfill, Leachate Collection System Contract 86-16, unsigned.

6. A letter dated June 26, 1986 to Mr. Lyle F. Parsons, B.E.S. Systems Co-ordinator from Greg Ferraro, P.Eng., entitled Change Order No. 1, City of Burlington, Bayview Park Landfill Leachate Collection Systems with attached Appendix A entitled PVC and HDPE Pipe Strength Calculations.

7. A letter dated July 4, 1986 to Mr. T. Armstrong, Acting Director Environmental Approvals and Land Use Planning Branch from Michael N. Boggs, Chief Administrative Officer entitled Bayview Park Landfill Site, Ontario Water Resources Act Application.

Ontario

Ministry of Environment and Energy
Ministère de l'Environnement et de l'Énergie

5775 Yonge Street
8th Floor
North York, Ontario
M2M 4J1

5775, rue Yonge
8ième étage
North York (Ontario)
M2M 4J1

Central Region
Technical Support Section
Région du Centre
Section d'appui technique

September 15, 1995

MEMORANDUM

To: Tom Brankovic
Oakville District Office

From: Ellen Schmarje

Re: Bayview Park Landfill Site
1994 Annual Status Report, March 1995
& Environmental Performance Report, Nov. 1994
Burlington, Ontario
File: WA450202, SW24-0205

I have reviewed both of the above reports with respect to surface water impacts.

The landfill does appear to be affecting the surface water quality at the monitoring locations adjacent to, or immediately downgradient of the landfill, as compared with upstream and downstream monitoring points. However, the impact appears to be minor at this time, and continued monitoring should confirm this and detect any worsening.

The revised monitoring locations proposed in the Environmental Performance Report appear appropriate to monitor any changes in surface water quality.

Since it is proposed that the revised monitoring program be conducted only twice per year, if stations are dry on both occasions, then a third sampling run should be attempted in the fall.

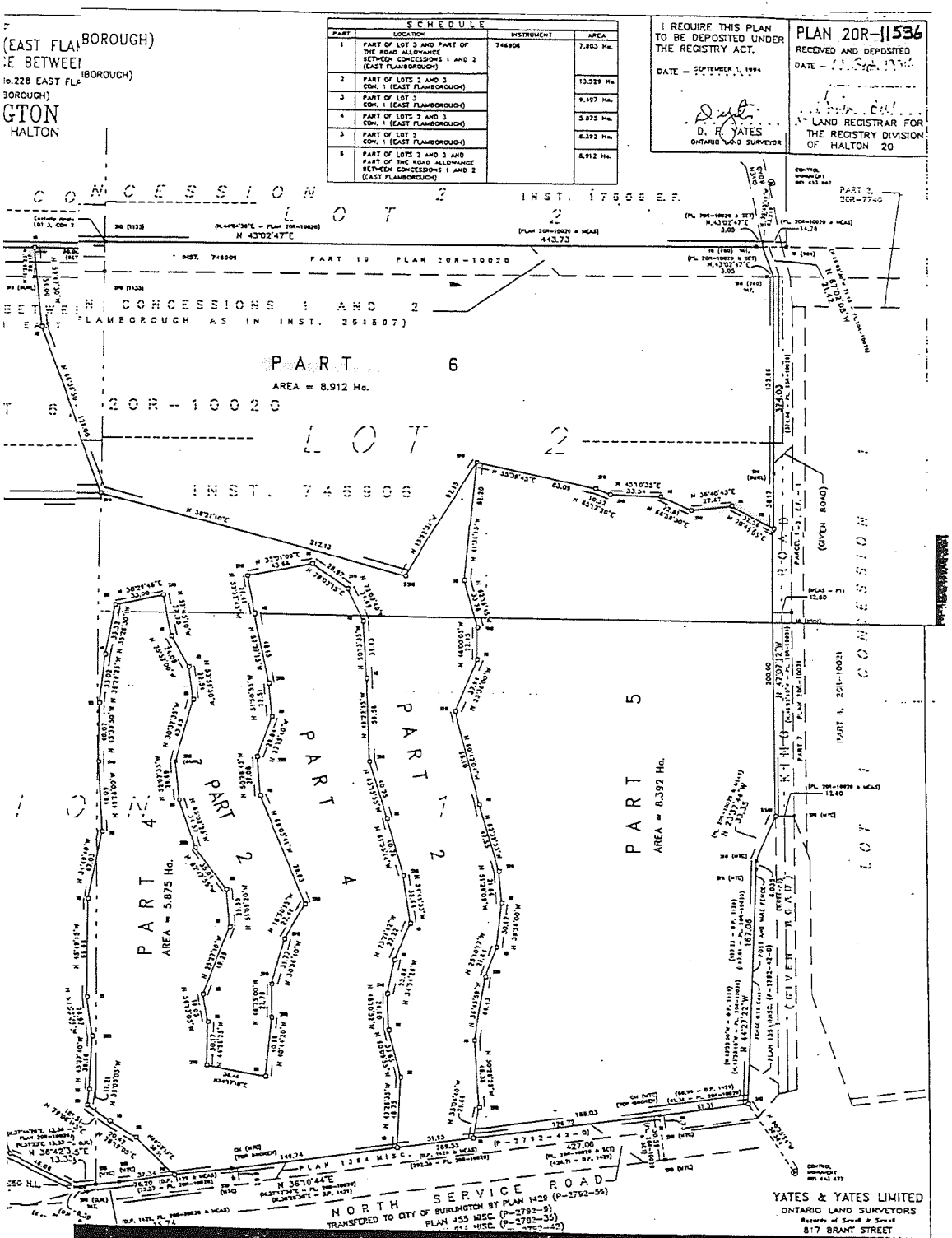
The leachate should continue to be analyzed for phenols and toluene (if not already included in the parameter list). If either of these parameters are detected in consecutive samples, they should be added to the surface water monitoring program.

To summarize, the rationalized surface water monitoring program is generally acceptable, with the above conditions. Modifications to the program may be required at a later date.

If you have any questions regarding the above, please don't hesitate to call me.

Biologist
Water Resources Unit
Technical Support Section

cc: Steve Maude
Jimmy D'Cruz


(EAST FLAMBOROUGH)
E BETWEEN
lo.228 EAST FLAMBOROUGH)
BOROUGH)
GTON
HALTON
SCHEDULE
PART | LOCATION | INSTRUMENT | AREA
1 | PART OF LOT 3 AND PART OF THE ROAD ALLOWANCE BETWEEN CONCESSIONS 1 AND 2 (EAST FLAMBOROUGH) | 746906 | 7.863 Ha.
2 | PART OF LOTS 2 AND 3 CON. 1 (EAST FLAMBOROUGH) | | 13.329 Ha.
3 | PART OF LOT 3 CON. 1 (EAST FLAMBOROUGH) | | 9.497 Ha.
4 | PART OF LOTS 2 AND 3 CON. 1 (EAST FLAMBOROUGH) | | 5.875 Ha.
5 | PART OF LOT 2 CON. 1 (EAST FLAMBOROUGH) | | 8.392 Ha.
6 | PART OF LOTS 2 AND 3 AND PART OF THE ROAD ALLOWANCE BETWEEN CONCESSIONS 1 AND 2 (EAST FLAMBOROUGH) | | 8.912 Ha.
I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE REGISTRY ACT.
DATE – SEPTEMBER 1, 1994
D. R. YATES
ONTARIO LAND SURVEYOR
PLAN 20R-11536
RECEIVED AND DEPOSITED
DATE –
LAND REGISTRAR FOR THE REGISTRY DIVISION OF HALTON 20
CONCESSION
LOT 2
INST. 175008 E.F.
PART 10 PLAN 20R-10020
INST. 746906
CONCESSIONS 1 AND 2
FLAMBOROUGH AS IN INST. 254807)
PART 6
AREA = 8.912 Ha.
20R-10020
LOT 2
INST. 746906
PART 4
AREA = 5.875 Ha.
PART 2
PART 2
PART 5
AREA = 8.392 Ha.
PART 1
PART 2
PART 3
PART 4
PART 1
PART 2
PART 3
PART 4
PART 1, 20R-10021
PART 2, 20R-7740
(GIVEN ROAD)
CONCESSION
LOT 1
PLAN 1384 MISC.
NORTH SERVICE ROAD
TRANSFERED TO CITY OF BURLINGTON BY PLAN 1439 (P-2792-56)
PLAN 455 MISC. (P-2792-8)
PLAN MISC. (P-2792-35)
PLAN MISC. (P-2792-42)
YATES & YATES LIMITED
ONTARIO LAND SURVEYORS
817 BRANT STREET

PLAN OF SURVEY OF
Part of LOT 3
CONCESSION 2
(Formerly Township of East Flamborough)
CITY OF BURLINGTON
REGIONAL MUNICIPALITY OF HALTON

SCALE – 1 : 2500

0 25 50 75 100 metres

YATES & YATES LIMITED
ONTARIO LAND SURVEYORS
1994

I REQUIRE THIS PLAN TO BE DEPOSITED UNDER THE REGISTRY ACT.

DATE – SEPTEMBER 1, 1994

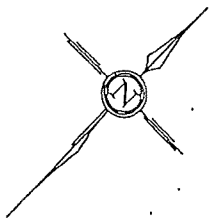
D. F. YATES
ONTARIO LAND SURVEYOR

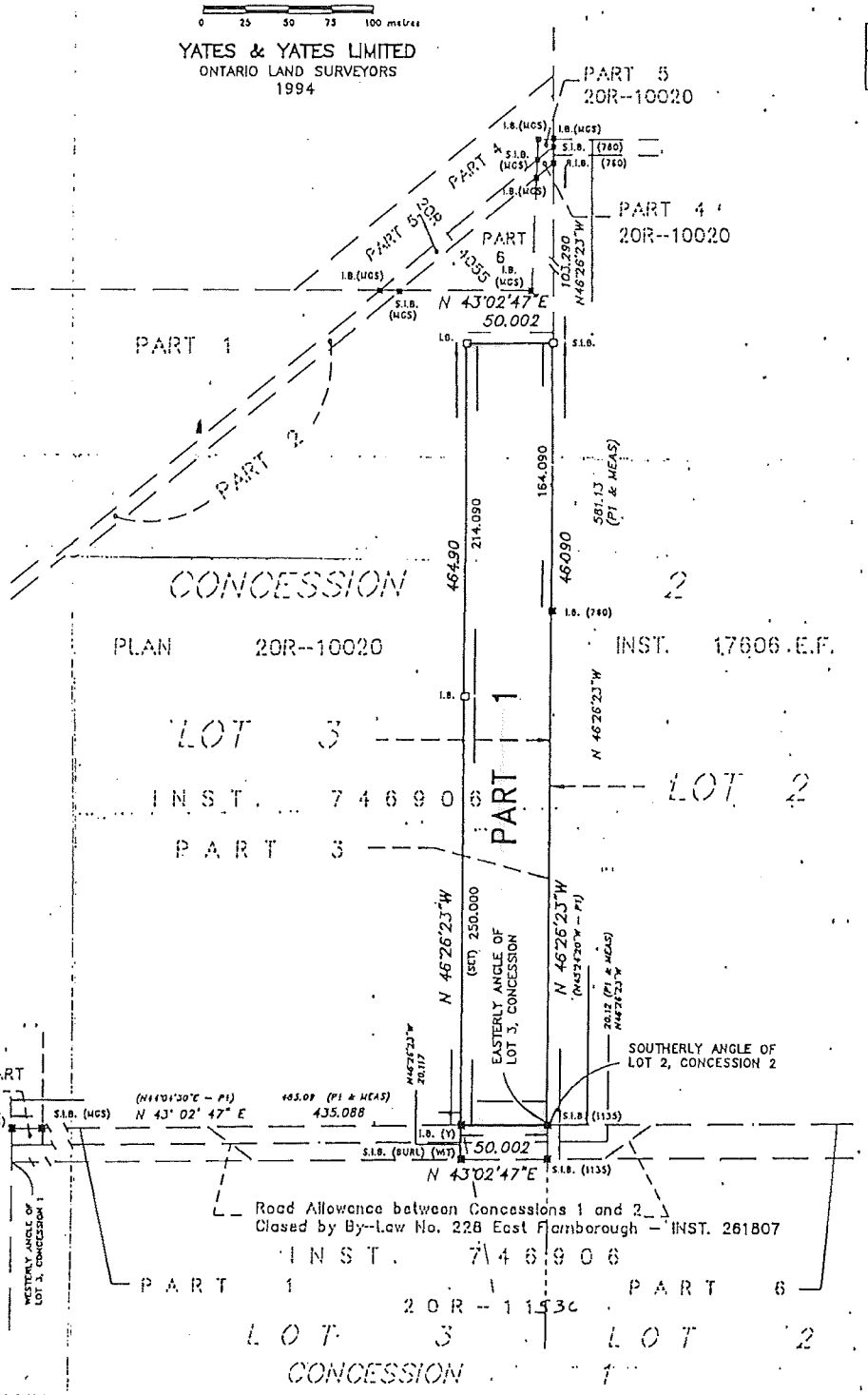
PLAN 20R-11537
RECEIVED AND DEPOSITED
DATE – O.L. Sept. 1994

Sheila Bull
LAND REGISTRAR FOR
THE REGISTRY DIVISION
OF HALTON 20

SCHEDULE

PART	LOCATION	INSTRUMENT	AREA
1	PART OF LOT 3 CONCESSION 2	746906	2.320 Ha.





METRIC– DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

BEARING NOTE

BEARINGS HEREON ARE GRID BEARINGS AND ARE DERIVED FROM CONTROL MONUMENTS

NO. 001 643 677	N	4 797 780.273
	E	593 812.893
NO. 001 653 087	N	4 798 235.447
	E	593 305.475

AND ARE REFERRED TO THE SIX DEGREE U.T.M. GRID OF THE ONTARIO COORDINATE SYSTEM ZONE 17, CENTRAL MERIDAN 81°00'W. LONGITUDE.

LEGEND

- ✖ – DENOTES SURVEY MONUMENT FOUND
- □ – DENOTES SURVEY MONUMENT SET
- SIB – DENOTES STANDARD IRON BAR
- IB – DENOTES IRON BAR
- RIB – DENOTES ROUND IRON BAR
- 760 – DENOTES McCONNELL, MAUGHAN Ltd., O.L.S.
- BURL – DENOTES CITY OF BURLINGTON
- MCS – DENOTES MINISTRY OF GOVERNMENT SERVICES
- 1135 – DENOTES L. G. WOODS, O.L.S.
- P1 – DENOTES PLAN 20R–10020

SURVEYOR'S CERTIFICATE

I CERTIFY THAT :

1. This survey and plan are correct and in accordance with 'The Surveys Act' and 'The Registry Act' and the regulations made thereunder.
2. The survey was completed on the 17th day of AUGUST, 1994

DATE SEPTEMBER 1, 1994

D. F. YATES
ONTARIO LAND SURVEYOR

YATES & YATES LIMITED
ONTARIO LAND SURVEYORS
Records of Sewell & Sewell
817 BRANT STREET
BURLINGTON, ONT. L7R 2J4
(905) 639–1375

CAUTION – THIS PLAN IS NOT A PLAN OF SUBDIVISION WITHIN THE MEANING OF THE PLANNING ACT.

94Y-178 / 31

TABLE 8.1 [REVISED]

SITE MONITORING SPECIFICATION
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL

1.0 SURFACE WATER MONITORING

1.1 Locations: 8 Surface water;

Upstream:	SW9A-93, SW11-87
Landfill Vicinity:	SW1-87, SW3-87, SW5-87
Downstream:	SW13-93, SW14-93, SW15-93

1.2 Monitoring Frequency:

Semiannually: March, (wet weather sampling)
July (dry weather sampling)
if both events are dry, a third event is to be scheduled in the fall

1.3 Types of Monitoring

1. measure flow rate accurately at SW9A-93, SW13-93, SW14-93 and SW15 -93 location using flow meter and record as L/sec or gpm

2. sampling:

VOCs	EPA List 624 + xylenes
General Chemistry	field pH, field conductivity, field temperature, alkalinity, chloride, sodium, potassium, TKN, ammonia-N,
	if phenols are detected in the leachate during two consecutive events, then phenols are to be added
Bacteria	total coliforms, fecal coliforms, fecal streptococci and E.coli

OK!

TABLE 8.1 [REVISED]

SITE MONITORING SPECIFICATION
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL

2.0 GROUNDWATER MONITORING

2.1 LOCATIONS

7 Buffer Zone Observation Wells	PW3, OW1A-93, OW1B-93, OW2A-93, OW2B-93, OW3-93, OW4-93

2.2 Monitoring Frequency:

March and **July**

2.3 Types of Monitoring

i) measure well depth and water level at each well

ii) all observations well locations purged at least 10 well casing volumes or dry prior to sampling.

- sample PW3, OW1B-93, OW2A-93, OW2B-93, OW3-93 and OW4-93, after purging, for both VOCs and general chemistry

iii) Sampling:

General Chemistry	field pH, field conductivity, alkalinity, TKN, ammonia-N, chloride, sodium, potassium
VOCs	EPA List 624 + xylenes (above six locations only)

3.0 LEACHATE WELL MONITORING

3.1 Location: 6 Leachate Wells LW1, LW2, LW3, LW4, LW5, LW6

3.2 Monitoring Frequency:

Twice per year: **March** and **July**

3.3 Types of Monitoring

TABLE 8.1 [REVISED]

SITE MONITORING SPECIFICATION
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL

1. measure depth with plopper (sound) each leachate well

2. monitor and record leachate level in each well

4.0 LEACHATE COLLECTION SYSTEM MONITORING

4.1 Location: 1 Manhole MH15

4.2 Monitoring Frequency:

Once per year for **leachate quality at MH15**: March

4.3 Types of Monitoring

i) Sampling (at MH15):

General chemistry	see attached parameter list, includes Field pH, Field Conductivity, Field Temperature
Metals & Cyanide	
VOCs	
BNAEs	
Oil and Grease	

TABLE 8.1 [REVISED]

SITE MONITORING SPECIFICATION
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL

5.0 LANDFILL GAS MONITORING

5.1 Locations: GP1-93, GP2-93 and GP3-93

5.1.1 Monitoring Frequency

Twice per year: **March** and **July**

5.1.2 Types of Monitoring

Measure and record gas levels. If groundwater is present within gas probes purge and then record groundwater level prior to recording gas levels the next day.

6.0 LEACHATE SEEP AND LEACHATE COLLECTION SYSTEM INSPECTION

6.1 Locations: 9 Leachate Seeps LS1, LS2, LS3, LS4, LS5, LS6, LS7, LS8, LS9

6.2 Monitoring Frequency:

Twice per year: **March** and **July**

6.3 Types of Monitoring:

i) Identify and photograph any leachate seep that has re-occurred
ii) Estimate flow rate at the seep and report as L/sec or gpm
iii) Complete leachate seep inspection sheets
iv) Report any occurrences of leachate seeps or failure of leachate collection system.
v) It is noted that regular leachate inspections will also be conducted by City of Burlington staff. These reports will be documented and discussed in the annual monitoring report.

TABLE 8.1

PROPOSED ANALYTICAL PARAMETER LIST
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL

GENERAL CHEMISTRY (CRA)

Hardness	Alkalinity	Fluoride
Chloride	Sulfate	Phosphorous (total)
TKN	Ammonia-N	Phenols
BOD	COD	Suspended Solids

METALS & CYANIDE (MANN)

Aluminum (total)	Antimony (total)	Arsenic (total)
Barium (total)	Bismuth (total)	Cadmium (total)
Chromium (total)	Cobalt (total)	Copper (total)
Iron (total)	Lead (total)	Manganese (total)
Mercury (total)	Molybdenum (total)	Nickel (total)
Selenium (total)	Silver (total)	Tin (total)
Titanium (total)	Vanadium (total)	Zinc (total)
Cyanide (total)	Sodium (total)	Potassium (total)

VOCs (MANN) EPA 624 List + Xylenes

BNAEs (MANN)

bis(2-ethylhexyl)Phthalate

OIL AND GREASE (MANN)

mineral oil and grease
animal/vegetable oil and grease

Notes:

1) (MANN), (CRA) - Denotes respective analytical laboratory

Ministry of Environment and Energy
Ontario

Application for Approval of a Waste Disposal Site

FOR OFFICE USE ONLY				
Application Number(s)	Client Number	Payment Received	Date	Initials
210103		$	12/22/95	

Ce formulaire est disponible en français

Information requested by this form is collected under the authority of the *Environmental Protection Act*, R.S.O. 1990 (EPA), Chapter E-19, (EPA) and the *Environmental Bill of Rights*, c.28, Statutes of Ontario, 1993, (EBR) and will be used to evaluate applications for approval of waste disposal sites according to the requirements of the EPA. Questions should be directed to the Approvals Branch, 250 Davisville Avenue, 3rd Floor, Toronto, Ontario, M4S 1H2, Telephone No. (416)440-3713 or 1-800-461-6290, or to your local Ministry of Environment and Energy District Office.

Instructions

1. When completing this form, please refer to the "Guide For Applying for Approval of Waste Disposal Sites", Sections 27, 30, 31 and 32, EPA (referred to as the Guide).

2. This form must be completed with respect to all the requirements of the Guide in order for it to be considered as an application for approval. INCOMPLETE APPLICATIONS WILL BE RETURNED TO THE APPLICANT OR DENIED APPROVAL.

3. A complete application for approval consists of;
   (1) a completed and signed application form;
   (2) all supporting information as requested by this form and by the Guide; and
   (3) a certified cheque or money order for the approval fee, if applicable.
   The Ministry may require additional information following a review of the complete application.

4. Two (2) copies of the application together with the supporting information must be submitted to the Ministry of Environment and Energy,
   One copy to: Director of Approvals Branch, Ministry of Environment and Energy,
   250 Davisville Avenue, 3rd Floor, Toronto, Ontario, M4S 1H2

   OR

   Regional Director in the region in which the site is located/will be located

   A duplicate copy must be sent to the District Office having jurisdiction over the area in which the works will be located.

5. Information contained in this application is not considered confidential and will be made available to the public upon request. Certain information submitted as supporting information may be claimed as confidential but will be subject to the *Freedom of Information and Protection of Privacy Act* (FOIPOPA) and EBR. If you do not claim confidentiality at the time of submitting the information, the Ministry may make the information available to the public without further notice to you.

1. APPLICANT

Name (attach proof of name if applicable)		
The Corporation of the City of Burlington (Doug Brown, General Manager - Business Affairs & City Solicitor)		
Address (include street number, concession, lot etc.)	City / Province	
P.O. Box 5013 (426 Brant Street)	Burlington, Ontario	
Postal Code	Telephone Number	Fax Number
L7R 3Z6	(905)335-7611	(905)335-7856

Owner of Land [X] Yes [ ] No
If "No" attach name, address and concurrence of the appropriate owner.

Operator [ ] Yes [ ] No
If "No" attach name, address and concurrence of the appropriate Operator.

2. CONTACT FOR TECHNICAL AND DESIGN INFORMATION

Name / Title		
Peter Hayes; Project Manager/Hydrogeologist		
Address	City / Province	
651 Colby Drive	Waterloo, Ontario	
Postal Code	Telephone Number	Fax Number
N2V 1C2	(519)884-0510	(519)884-0111

3. SITE LOCATION (Concession, Lot, Municipality)

City of Burlington Regional Municipality of Halton

Concession 1 and 2, Part of Lots 2 and 3

Is the proposed waste site located in an area of development control as defined by the *Niagara Escarpment Planning and Development Act* (NEPDA)?

☐ Yes ☒ No (if Yes, attach copy of NEPDA permit)

4. FACILITY DESCRIPTION – Brief description of the nature of business or activity related to this site.

(a) Present land use	(b) Present official plan designation
Closed Landfill - Parkland	Parkway Belt West
(c) Present zoning category: D-Development	(d) Present land use of all adjoining properties to be provided on a location map. Vacant/Quarry

(e) Maximum rate at which site can receive waste per day NOT APPLICABLE

Municipal	Commercial	Processed Organic Waste
☐ tonnes	☐ tonnes	☐ Litres
☐ cu. metres	☐ cu. metres	

If any of the following waste categories are intended to be received at the site, attach a description of each, including their source, to the Application.

Type of Waste	Tonnes	Cu. Metres	Litres
Liquid Industrial			
Non-hazardous Solid Industrial			
Hazardous			
Other			

(f) Days and hours of operation	(g) Population served
NOT APPLICABLE	NOT APPLICABLE

(h) Names of all municipalities/major industries to be served by this site. NOT APPLICABLE

1.	4.
2.	5.
3.	6.

(i) Proposed Buffers 11.23 ☒ hectares or ☐ acres

~~Total Area of Site~~ Closed Landfill 16.77 ☒ hectares or ☐ acres

~~Area to be Landfilled~~

Maximum estimated site storage capacity or storage capacity (if intended for storage). ☐ tonnes ☐ cu. metres ☐ Litres

(j) Type of facility/operation ☐ landfill ☐ transfer ☐ processing ☒ other, specify Closed Landfill/Parkland

(k) List all disposal sites and site Certificate Numbers (for final disposal)

1.	4.
2.	5.
3.	6.

5. TYPE OF APPLICATION

☐ New Certificate of Approval

☒ Amendment to a current Certificate of Approval

Current Certificate Number A.2102.05 (attached Ref.1)

Date of Issue October 11, 1973 update, July 16/86 Notice (attached Ref.2)

6. PROJECT/APPLICATION DESCRIPTION – EBR Abstract (Brief description of the proposal)

The Bayview Park Landfill Site was closed in 1973 and has since been operated as a park facility. A leachate collection system which collects surface leachate flows and impacted shallow groundwater for discharge to the Regional Municipality of Halton sanitary sewer system was subsequently constructed and has operated since 1986. Downgradient lands adjacent to the Bayview Park Site, on which the leachate collection system is situated is being purchased by the City of Burlington as buffer lands, from Jannock Properties. Lands to be purchased are shown on attached site plan (reference Item 8) and survey plans (reference Item 9 and 10). Note: A small "tailpiece" portion of land that was originally proposed to be part of the proposed buffer zone in November 1994 is not included. These lands represent a road access for the Jannock property. The buffer zone as now outlined will provide for the purposes set forth in the Environmental Performance Report Section 7.0.

7. EBR REQUIREMENTS

Is this a Prescribed Instrument under EBR?	[X] Yes, Class of Instrument? II	[ ] No
If a Prescribed Instrument, is it excepted from public notification?	[X] Yes	[ ] No
If it is excepted from EBR, provide reason	[ ] Emergency	[ ] Equivalent Public Participation
	[ ] EAA or Tribunal Decision	[X] Environmentally Insignificant amendment or revocation

If exempt from public notification, documentation in support of the noted exception must be provided.

8. PUBLIC CONSULTATION/NOTIFICATION– Specify all public consultations/notification (such as public meetings, notification of First Nations etc.) that has been completed or is in the process of being completed.

See attached letters and Memorandum from MOEE and CRA dated February 22, 1995(Ref 3)
April 25, 1995 (Ref 4)
June 21, 1995 (Ref 5)
Sept 15, 1995 (Ref 6)

9. OTHER APPROVALS/PERMITS – List all other environmental approvals/permits applied for related to this project or received under the EPA (discharges to air, waste management, sewage systems, etc.) and the Ontario Water Resources Act (OWRA) (water works, permit to take water, etc.).

Certificate of Approval for Industrial Sewage Works 3-0819-86-007 (attached Ref 7)

10. PROJECT SCHEDULE

Estimated Date for Start of Construction	Estimated Date for Start of Operation

11. FEE ESTIMATE – The "cost" to used to estimate the fee includes all equipment and construction costs but does not include costs for land, engineering services and costs of facilities for which the permit or approval is applied for under other Sections of the EPA or the OWRA for which appropriate fees have or will be paid. The fee shall not be less than $50.00 or more than $100,000.00. (For more information refer to the Guide)

(1) The fee payable upon submission of an application under Section 27 or the EPA where the application relates to a waste disposal site other than a landfilling site is:

(a) 2% of the cost of the equipment and construction related to the application, less

(b) an amount equal to the proportion of the waste that is received at the site and will leave the site for recycling or reuse to the total amount of waste received at the site, calculated by weight or by volume, multiplied by the amount referred to in clause (a).

(c) where additional approvals are required under other Sections of the Act, separate fees are also required.

(2) For the purpose of clause 1 (a), recycled or reused waste does not include waste intended to be used as a dust suppressant or as a fuel or intended to be disposed of at a landfilling site or incinerator.

(3) The fee payable upon application under Section 27 of the EPA where the application relates to a landfilling site is 4 cents per cubic metre of the capacity of the landfilling site.

Estimated Fee ($50.00 minimum, $100,000.00 maximum) $ 50.00 Cheque or Money Order Attached [X] Yes [ ] No

When an application is submitted to the Ministry for review the fee must be in the form of a certified cheque or money order payable to "The Minister of Finance".

DO NOT SEND CASH

12. SUPPORTING INFORMATION CHECKLIST – This is a list of all supporting information attached to this application and is subject to the FOIPOPA and EBR.

INFORMATION	ATTACHED?	REFERENCE	CAN BE DISCLOSED
GENERAL			
Verification of Legal Name of Applicant	[ ] Yes [X] No		[X] Yes
Copy of NEPDA	[ ] Yes [X] No		[X] Yes
Verification of EBR Public Notification Exemption	[ ] Yes [ ] No		[X] Yes
Proof of Public Notification Consultation	[ ] Yes [ ] No		[X] Yes
TECHNICAL			
Site Plan	[X] Yes [ ] No	Reference Item (8) (9) (10)	[X] Yes
Hydrogeological Assessment	[X] Yes [ ] No	Reference Item (11)	[X] Yes
Design and Operations Report	[ ] Yes [ ] No		[ ] Yes
Drainage Study	[ ] Yes [ ] No		[ ] Yes
Financial Assurance	[ ] Yes [ ] No		[ ] Yes
OTHER ATTACHED INFORMATION			[ ] Yes [ ] No
1994 Monitoring Report		Reference Item (12)	[X] Yes [ ] No
Proposed Monitoring Program		Reference Item (13)	[X] Yes [ ] No
Golders Policy 07-07 Report		Reference Item (14)	[X] Yes [ ] No

13. STATEMENT OF APPLICANT

I, the undersigned hereby declare that , to the best of my knowledge, the information contained herein and the information submitted in support of this application is complete and accurate in every way and that the Contact for Technical and Design Information identified in item 2 of this form is/are authorized to act on my behalf for the purpose of obtaining approval under Section 27 of the EPA for the waste disposal site identified herein.

Name DOUGLAS C. BROWN	Title GENERAL MANAGER - BUSINESS AFFAIRS & CITY SOLICITOR
Signature Douglas C. Brown	Date December 7, 1995.

CRA
Consulting Engineers

CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive
Waterloo, Ontario, Canada N2V 1C2
(519) 884-0510 Colby Office Fax: (519) 884-0525
(519) 725-3313 Bathurst Office (519) 725-1394

January 31, 1996

Reference No. 1354-30

Mr. Ernst Zaltsberg
Ministry of Environment and Energy
Approvals Branch
Waste Sites and Systems Approvals
250 Davisville Avenue
3rd Floor
Toronto, Ontario
M4S 1H2

MINISTRY OF THE ENVIRONMENT
AND ENERGY
ENVIRONMENTAL PLANNING
AND
FEB 5 - 1996
APPROVALS BRANCH
ENVIRONMENTAL PLANNING

Dear Mr. Zaltsberg:

Re: Application to Amend the Certificate of Approval for the Bayview Park Landfill
Burlington, Ontario

In response to your letter of January 17, 1996, Conestoga-Rovers & Associates (CRA) prepares the following response to your concerns regarding the above-noted Certificate of Approval (C of A) application submitted on December 7, 1995 by the City of Burlington (COB).

MOEE Comment #1

What is the current status of the proposed buffer/attenuation zone? Did the COB acquire this zone and if so, when? Did the COB obtain groundwater rights within this property and if so, when?

CRA Response #1

There is an agreement to purchase the buffer/attenuation zone between the COB and Jannock. Further to recent communication between CRA and COB, it is understood that there are three minor outstanding conditions to be dealt with prior to formal completion of the buffer/attenuation zone acquisition. These are:

(a) consents for dismissal of previous actions;
(b) releases specifically relating to the past actions; and
(c) that both parties will agree to provide a warning clause in the subdivision agreement, which largely relates to the fact that the Subject lands are adjacent to the closed Bayview Park Landfill Site.

It is anticipated the property transaction will be formerly completed by the end of March 1996. The COB as owner of the subject lands will obtain groundwater rights within the buffer/attenuation zone when the property transfer is complete.

MOEE Comment #2

What is the current status of wells OW1A, 1B-93 and OW2A, 2B-93 referred to on page 34 of the Environmental Performance report?

CRA Response #2

The above noted monitoring well nests, as well as monitoring wells OW3-93 and OW4-93 have been installed within the buffer/attenuation zone, and along with well PW-3 are proposed to replace the current groundwater monitoring network in-place at the Site. It is also proposed to abandon the monitoring wells which comprise the current monitoring network.

The monitoring specifications involving these seven monitoring wells are outlined within Reference Item #13. This monitoring program will be implemented beginning in April 1996.

MOEE Comment #3

There are some minor discrepancies in the shape of the northwestern segment of the proposed buffer/attenuation zone shown on Figure 3-1, Drawing N1 dated May 1993 from the report, Drawing N1 (Reference Item 8) dated November, 1995 and Plans 20R-11536, 11537 (Reference Items 9 and 10). Which area is correct and correspond to the 11.23 ha area referred to in the application?

CRA Response #3

As outlined in Section 6 of the C of A Application dated December 7, 1995, the small portion of land causing the discrepancy was originally proposed to be part of the buffer/attenuation zone on Figure 3.1/Drawing No. 1 within the Environmental Performance Report in November 1994 (Reference Item #11). However, these lands represent an access road for the Jannock property and as such, will remain in Jannock's control.

A close examination of an updated version of the above noted Drawing (Reference Item #8), indicates this land as being previously proposed as part of the buffer/attenuation zone, and is to remain in Jannock's control. Therefore Drawing No. 1 dated November 1995 (Reference Item #8) supercedes Drawing No. 1 dated November 1994 (within Reference Item #11). Reference Item #8 also agrees with Reference Items #9 and #10, and therefore accurately represents the total 11.23ha area referred to within the C of A Application.

MOEE Comment #4

Do you want to incorporate the proposed buffer/attenuation zone into the new Site boundary?

CRA Response #4

Yes, the intent of the application for amendment to the C of A is to have the Site property boundaries modified to reflect the acquisition of the buffer/attenuation zone by the COB.

CRA trusts that the above clarifications will be sufficient to allow for the processing of the C of A Application to proceed once the property transaction is completed. We will inform you when this occurs and provide you with appropriate documentation to that effect. As discussed, once the property transaction is complete the MOEE will then proceed with the processing of the application. Should you have any further questions or concerns, please contact our office.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Peter Hayes, B.Sc.

CLS/ja

c.c. Doug Brown, COB
Tom Brankovic, MOEE Oakville

CRA
Consulting Engineers

CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive
Waterloo, Ontario, Canada N2V 1C2
(519) 884-0510 Colby Office Fax: (519) 884-0525
(519) 725-3313 Bathurst Office (519) 725-1394

February 6, 1996 Reference No. 1354-30

Mr. Ernst Zaltsberg
Ministry of Environment and Energy
Approvals Branch
Waste Sites and Systems Approvals
250 Davisville Avenue
3rd Floor
Toronto, Ontario
M4S 1H2

Dear Mr. Zaltsberg:

Re: Application to Amend the Certificate
of Approval for the Bayview Park Landfill
Burlington, Ontario

As per our recent telephone conversation, please find enclosed a revised project description to replace the description included in Section 6 of the original C of A application dated December 7, 1995. This description has been prepared as per your request for use as part of the EBR Bulletin Board posting.

> *The Bayview Park Landfill Site was closed in 1973, and has since been operated as a park facility by the City of Burlington. A leachate collection system which collects impacted shallow groundwater for discharge to the Regional Municipality of Halton sanitary sewer system was subsequently constructed and has operated since 1986 under the appropriate Certificate of Approval for Industrial Sewage works. Downgradient lands adjacent to the Bayview Park Site, on which the leachate collection system is situated are being purchased by the City of Burlington for use as buffer lands. A network of seven monitoring wells have been installed within the buffer lands, and will be monitored semi-annually for general chemistry and VOC analytical parameters, to quantify that no adverse impacts on the groundwater regime are occurring. A total of eight upstream, landfill vicinity, and downstream surface water monitoring locations are also included as part of the semi-annual monitoring network. Surface water samples will also be analyzed for general chemistry and VOC analytical parameters, as well as for bacteria.*

CRA trusts that the above is satisfactory, and will be amended to the original application. As discussed in our letter dated January 31, 1996, CRA will inform you

when the property transaction is complete, at which point the MOEE will proceed with the processing of the application.

Should you have any further questions or concerns, please contact our office.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Peter Hayes, B.Sc.

CLS/rc/1

c.c. Doug Brown, COB
Tami Price, COB
Tom Brankovic, MOEE Oakville

CRA
Consulting Engineers

CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive
Waterloo, Ontario, Canada N2V 1C2
(519) 884-0510 Colby Office Fax: (519) 884-0525
(519) 725-3313 Bathurst Office (519) 725-1394

April 22, 1996

Reference No. 1354-30

Mr. Ernst Zaltsberg
Ministry of Environment and Energy
Approvals Branch
Waste Sites and Systems Approvals
250 Davisville Avenue
3rd Floor
Toronto, Ontario
M4S 1H2

Dear Mr. Zaltsberg:

Re: The December 7, 1995 Application to Amend the Certificate of Approval #A.2102.05
Bayview Park Landfill
Burlington, Ontario

Conestoga-Rovers & Associates (CRA) is pleased to forward to yourself a copy of the Transfer of Land Certificate for the buffer lands surrounding the Bayview Park Landfill Site. The City of Burlington (COB) now owns the subject buffer lands.

As per your letter of February 12, 1996, as the COB now owns the buffer lands, CRA would appreciate your timely attention to forwarding the application along with the updated EBR abstract dated February 6, 1996 to the EBR office.

Should you have any further questions or concerns, please contact our office.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Peter Hayes, B.Sc.

CLS/ls/2

c.c. Doug Brown, COB
Tami Price, COB
Tom Brankovic, MOEE Oakville

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: (905) 335-7614 - Legal
Fax No.: (905) 335-7842

April 19, 1996

VIA FACSIMILE TO 519-884-0525

Conestoga-Rovers & Associates Limited
651 Colby Drive
Waterloo, Ontario
N2V 1C2

Attention: Mr. Peter Hayes

Dear sir:

Subject: City purchase from 873805 Ontario Inc.
PART 1, 20R-11537 and PART 6, 20R-11536
Our file: 575-03-N.27

We are pleased to advise the Transfer of Land in connection with the above was registered April 18, 1996 as Instrument No. 850935 and we enclose a copy for your records.

This now completes the City's obligation under the Minutes of Settlement to acquire the buffer strip lands and the MOEE may now proceed to complete the Certificate of Approval required for this property.

Thank you.

Yours truly,

Tami A. Price (Mrs.)
Legal Assistant - Real Estate

/tp
cc: Mr. D. Brown, Legal

APR-19-1996 14:43 FROM BURLINGTON LEGAL DEPT. TO 9151588405256 12 P.02

Pages 54 to / à 55

are withheld pursuant to section

sont retenues en vertu de l'article

22

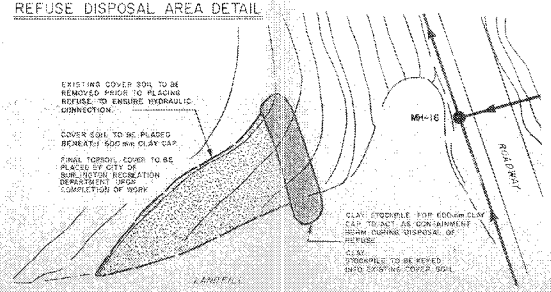
of the Freedom of Information and Protection of Privacy Act

de la Freedom of Information and Protection of Privacy Act

METRIC



REFUSE DISPOSAL AREA DETAIL



LEGEND

SITE ROAD WORKS

B.M. NO 255

BRASS CAP SET IN CONC. S/W 12.88m± SOUTH OF THE NORTH END OF THE ELY. S/W, 0.65m± EAST OF THE WEST EDGE OF WALK ON KING ROAD ON HWY. NO.5 OVERPASS OVER SOUTH OF THE NORTH SERVICE RD. 11C M. OF CONCRETE EL. 98.530

NOTES -

1. CONTOURS COMPILED FROM DRAWINGS AND AIR PHOTOGRAPHY (DATED 1978) BY RESOURCE MAPPING SERVICES LTD.
2. CENTERLINE PROFILE COMPILED IN FIELD BY CRA. (MARCH 1986)
3. The position of gas lines, conduits, watermains, sewers and other underground and overground utilities and structures is not necessarily shown on the contract drawings, and where shown, the accuracy of the position of such utilities and structures is not guaranteed. Before starting work, the contractor shall inform himself of the exact location of all such utilities and structures, and shall assume all liability for damage to them.
4. Exact location and grade of undefined access road to be determined in the field by the Contractor. All work to be approved by the Engineer.

PROPOSED ACCESS ROAD

CLAY CAP OVER LEACHATE COLLECTION TRENCHES

ISSUED
SEP 9 1986

A2/0103

APPROVALS						
Municipal	FILED NO/AS					
DIRECTOR OF CONSTRUCTION						
DATE						
Regional						
DIRECTOR OF PUBLIC WORKS						
DATE						
		03	A/M/86	G.D.F.	ADDED REFUSE DISPOSAL AREA DETAIL	
		02	86/6/26	G.D.F.	REVISED AS PER CHANGE ORDER NO.1	
		01	86/4/8	G.D.F.	REVISED AS PER ADDENDUM NO.1	
		NO	Date	By	REVISIONS	
		Design	D.P.	Checked	A.J.C	Date APRIL 1986
		Drawn	M.W.E.	Checked	G.D.F.	
		Scale	1:2000			REFERENCES

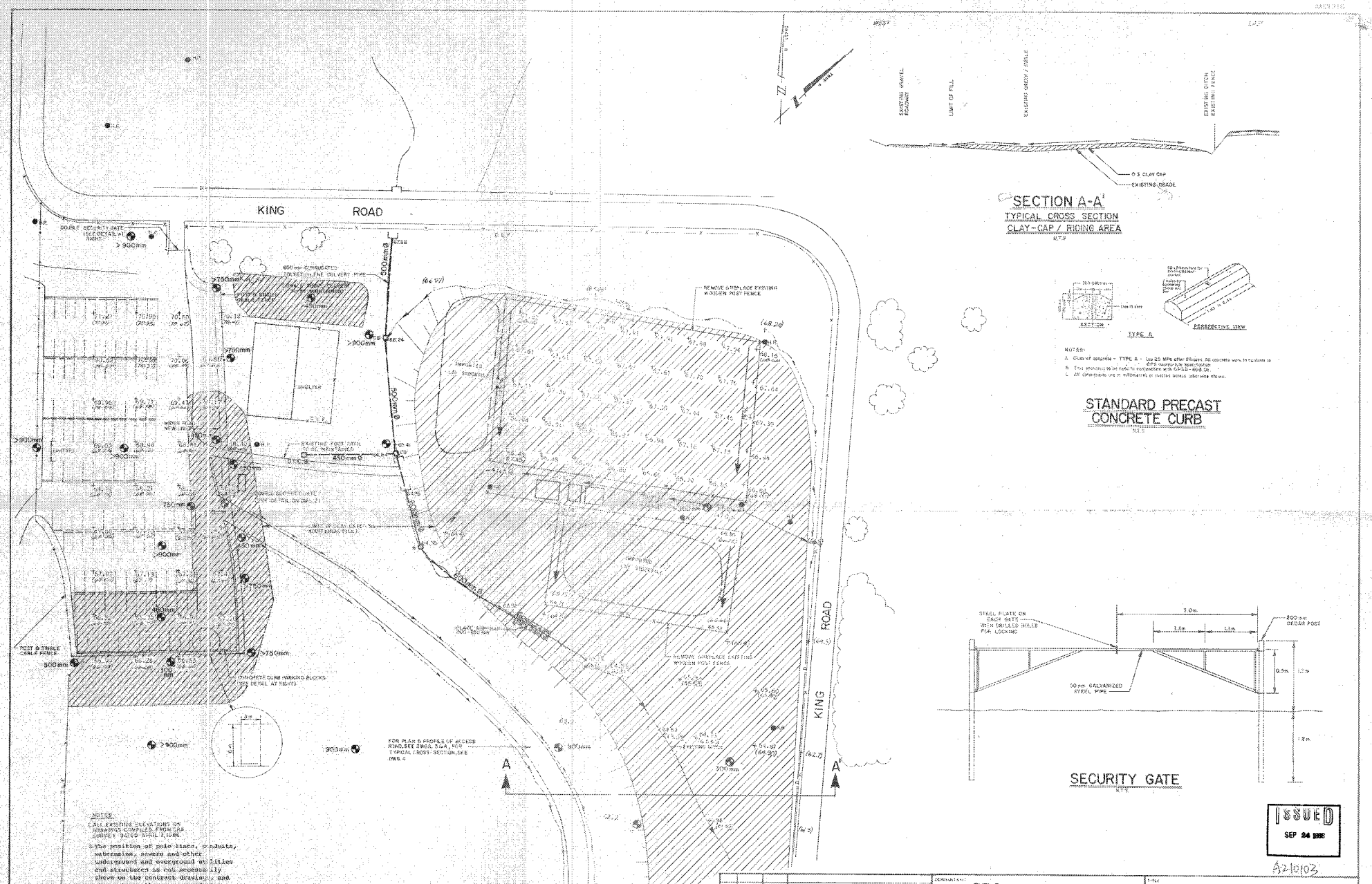
CONSULTANTS: CRA Consulting Engineers
CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive, Waterloo, Ontario Canada N2V 1C2

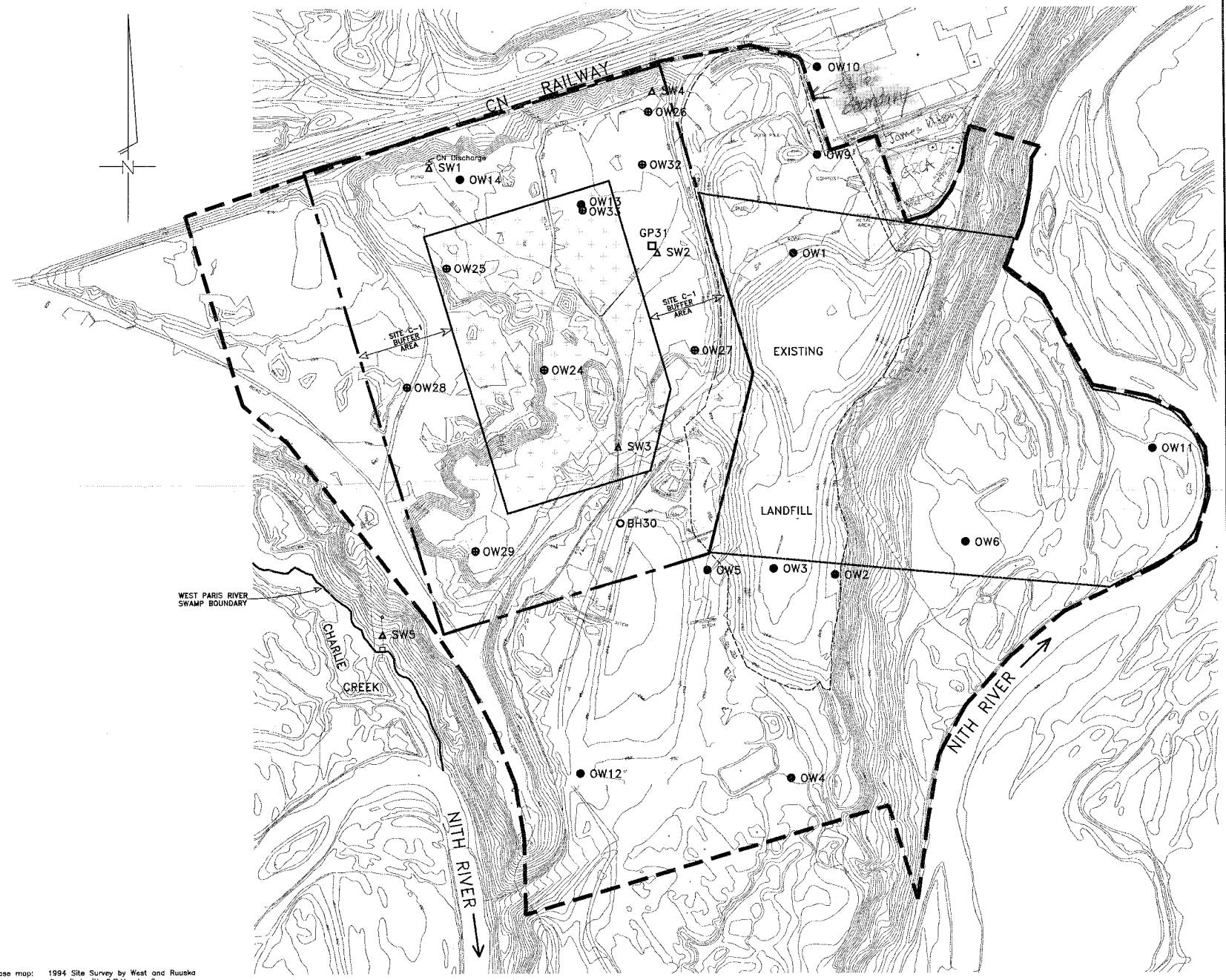
MUNICIPALITY: CITY OF BURLINGTON

TITLE: BAYVIEW PARK LANDFILL
LEACHATE COLLECTION SYSTEM
SITE ROAD WORKS

MUNICIPAL DRAWING NO.	REGIONAL DRAWING NO.
CONTRACT NO. 86-16	DRAWING NO. 1
	SHEET 2 OF 15

000056


KING ROAD
KING ROAD
SECTION A-A'
TYPICAL CROSS SECTION
CLAY-CAP / RIDING AREA
N.T.S
0.3 CLAY CAP
EXISTING GRADE
EXISTING GRAVEL ROADWAY
LIMIT OF FILL
EXISTING CREEK / SWALE
EXISTING DITCH
EXISTING FENCE
STANDARD PRECAST CONCRETE CURB
N.T.S
TYPE A
SECTION
PERSPECTIVE VIEW
SECURITY GATE
N.T.S
STEEL PLATE ON EACH GATE WITH DRILLED HOLES FOR LOCKING
90 mm GALVANIZED STEEL PIPE
DOUBLE SECURITY GATE (SEE DETAIL AT RIGHT)
POST & SINGLE CABLE FENCE
CONCRETE CURB PARKING BLOCKS (SEE DETAIL AT RIGHT)
REMOVE & REPLACE EXISTING WOODEN POST FENCE
SHELTER
EXISTING POST TEL. (TO BE MAINTAINED)
DOUBLE SECURITY GATE (SEE DETAIL ON DWG. 2)
LIMIT OF PLAN (AREA OF ADDITIONAL FILL)
REMOVE & REPLACE EXISTING WOODEN POST FENCE
EXISTING CREEK
EXISTING DITCH
FOR PLAN & PROFILE OF ACCESS ROAD, SEE DWGS. 5 & 6, FOR TYPICAL CROSS-SECTION, SEE DWG. 4
NOTES:
EXISTING ELEVATIONS ON KING ROAD COMPILED FROM CRA SURVEY DATED APRIL 21, 1986.
2. The position of pole lines, conduits, watermains, sewers and other underground and overground utilities and structures is not necessarily shown on the contract drawings, and where shown, the accuracy of the position of such utilities and structures is not guaranteed. Before starting work, the contractor shall inform himself of the exact location of all such utilities and structures, and shall assume all liability for damage to same.
LEGEND
EXISTING ELEVATION
PROPOSED ELEVATION
GATE/GATE/SIGN
PINNACLE 400mm Ø CORRUGATED POLYETHYLENE CULVERT
THICKNESS OF CLAY COVER
ISSUED
SEP 24 1986
A2-0103
CONSULTANT
CRA Consulting Engineers
CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive, Waterloo, Ontario Canada N2V 1C2
MUNICIPALITY
CITY OF BURLINGTON
TITLE
BAYVIEW PARK LANDFILL
SURFACE DRAINAGE IMPROVEMENTS
PROPOSED IMPROVEMENTS TO PARKING LOT AND EQUESTRIAN AREA
Qt. 6/APRIL/87 LJ ADDITIONAL CLAY CAP ADDED ALONG PARKING AREA
Qt. 2/APR/86 BC 600mm CORRUGATED CULVERT PIPE
No. Date By REVISIONS
Design D.P. Checked A.J.C.
Drawn L.W.B. Checked P.S.
Date APRIL 1986
Scale 1:500
REFERENCES
MUNICIPAL DRAWING No.
CONTRACT No. 1354-40
SHEET 2 OF 4
000057



Base map: 1994 Site Survey by West and Ruuska
Compiled with O.B.M. by Senes

LEGEND

⊕ OW25	OBSERVATION WELL, INSTALLED 1994/1995 (CHARLESWORTH AND ASSOCIATES)
○ BH30	BOREHOLE LOCATION (NO PIEZOMETER) AUGUST 1994
● OW14	OBSERVATION WELL, INSTALLED 1987 TO 1988 (TROW DAMES AND MOORE)
□ GP31	METHANE GAS MONITOR, INSTALLED 1994 (CHARLESWORTH AND ASSOCIATES)
△ SW5	SURFACE WATER SAMPLING LOCATION, SEPT. 1994 (CHARLESWORTH AND ASSOCIATES)
	PROPOSED LANDFILL FOOTPRINT
	PROPOSED SITE C-1 BOUNDARY (NOTE 1)
	APPROXIMATE BOUNDARY, EXISTING TOWN OF PARIS SANITARY LANDFILL (NOTE 2)
	LIMIT OF BUFFER ZONE, EXISTING TOWN OF PARIS SANITARY LANDFILL
	POTENTIAL CONTAMINANT ATTENUATION ZONE (INTERLAYERED ZONE)

0 10 20 30 40 50 100 150 200 metres

SCALE: 1:2000

Notes

(1) Total Site Area of Proposed Landfill Site is 18.5 ha
The Site Fill Area is 6 ha

(2) Existing Landfill Area Operating Based on Emergency Certificate of Approval (CofA) No. A100201 Date 30 Sept. 94

SITE PLAN

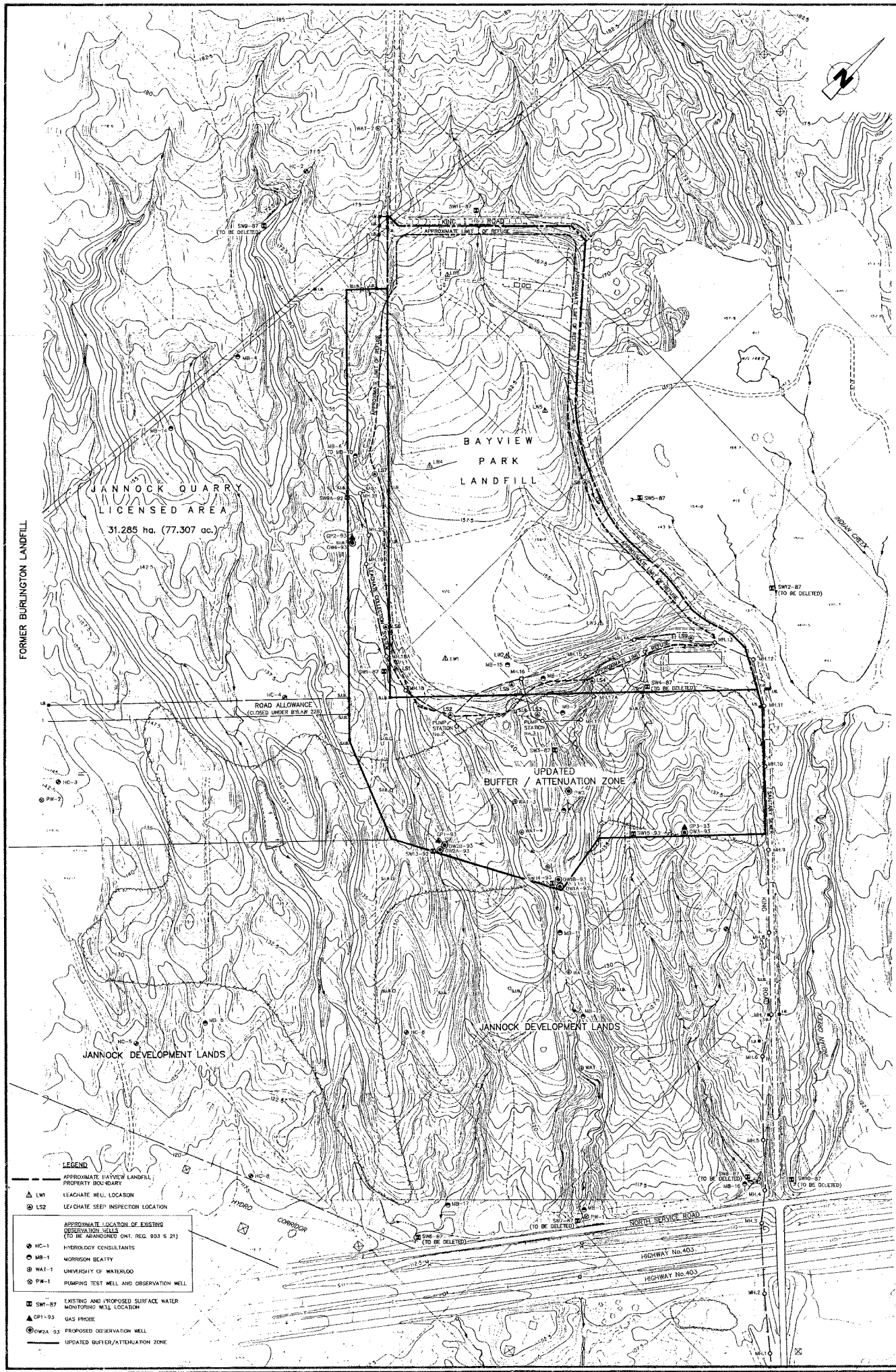
PROPOSED LANDFILL SITE C-1 TOWN OF PARIS

Charlesworth & Associates

DRAWING 1

APRIL 1995

000058



NOTE: CONTOUR INTERVAL 0.5m

Approved:

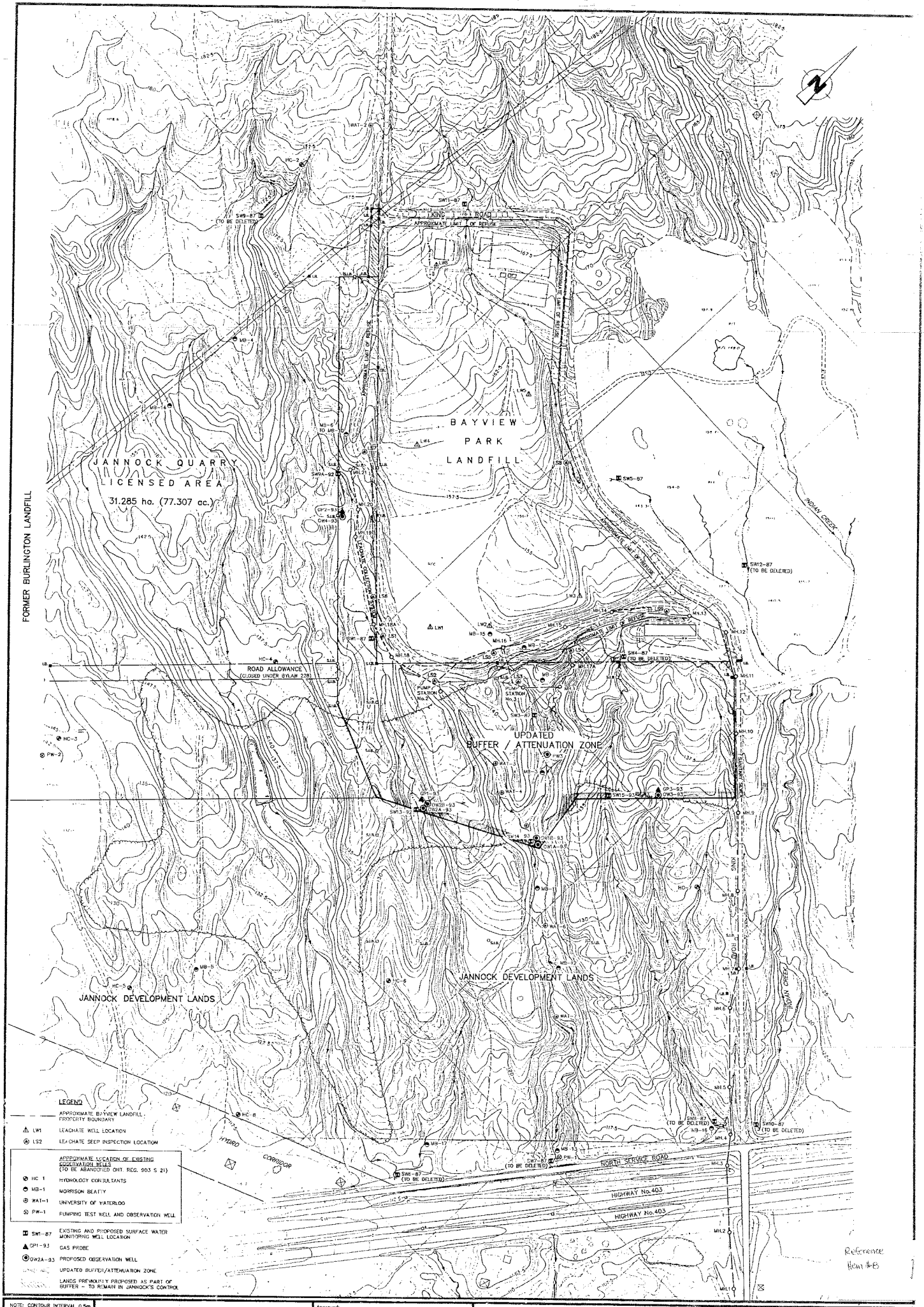
CITY OF BURLINGTON
BAYVIEW PARK LANDFILL SITE

ENVIRONMENTAL PERFORMANCE REPORT
UPDATED BUFFER / ATTENUATION ZONE AND MONITORING LOCATIONS

CRA Consulting Engineers
CONESTOGA-ROVERS & ASSOCIATES
651 Colby Drive, Waterloo, Ontario Canada N2V 1C2

Drawn by: K.V.M.	Scale: 1:2000	Date: MAY 8/96(W)	File 000059
Designed by: P.H.			
Checked by: P.H.	Field book:	Project No.: 1354	Drawing No.

No.	Revision	Date	Initial



NOTE: CONTOUR INTERVAL 0.5m

Approved:

CITY OF BURLINGTON
BAYVIEW PARK LANDFILL SITE

ENVIRONMENTAL PERFORMANCE REPORT

UPDATED BUFFER / ATTENUATION ZONE AND MONITORING LOCATIONS

CRA Consulting Engineers
CONESTOGA-ROVERS & ASSOCIATES
651 Colby Drive, Waterloo, Ontario Canada N2V 1C2

Drawn by: K.V.M.	Scale: 1:2000	Date: NOVEMBER 1995
Designed by: P.H.		
Checked by: P.K.	Field book:	Project No.: 1354

Drawing No.

000060

Reference Item #5

Golder Associates Ltd.

2180 Meadowvale Boulevard
Mississauga, Ontario, Canada L5N 5S3
Telephone (905) 567-4444
Fax (905) 567-6561

REVISED
FINAL REPORT ON

ENVIRONMENTAL INVESTIGATION

JANNOCK PROPERTIES DEVELOPMENT LANDS

BURLINGTON, ONTARIO

Submitted to:

Jannock Properties
Box 668
Streetsville, Ontario
L5M 2C3

Distribution:

2 Copies - Jannock Properties Limited
2 Copies - Golder Associates Ltd.

January, 1994

911-1602

TABLE OF CONTENTS

SECTION		PAGE
1.0	INTRODUCTION	1
	1.1 Project Background	1
	1.2 Halton Regional Landfill	2
	1.3 Bayview Park Landfill	2
2.0	SITE GEOLOGY AND HYDROGEOLOGY	4
	2.1 Site Geology and Surface Drainage	4
	2.2 Site Hydrogeology	4
3.0	RESULTS OF THE GROUNDWATER SAMPLING PROGRAM	6
	3.1 Sampling Program	6
	3.2 General Chemistry Results	6
	3.3 Volatile Organic Compound Results	7
4.0	RESULTS OF THE SURFACE WATER SAMPLING PROGRAM	10
	4.1 Sampling Program	10
	4.2 General Chemistry Results	10
	4.3 Volatile Organic Compound Results	11
5.0	RESULTS OF THE GAS MONITORING PROGRAM	12
	5.1 Fleld Program	12
	5.2 Results of the Gas Monitoring Program	13
6.0	CONCLUSIONS AND RECOMMENDATIONS	14
	6.1 Conclusions	14
	6.2 Recommendations	15

LIST OF TABLES

Table 1: Groundwater Elevation Data, Jannock Brick Development Lands

Table 2: Groundwater and Surface Water Sampling Schedule

Table 3: Groundwater Inorganic Chemistry Results - Golder Associates Field Program

Table 4: Groundwater Inorganic Chemistry Results - CRA Field Program

Table 5: Field Chemistry Data - Groundwater Samples

Table 6: Groundwater VOC Results - Summary of Detected Compounds - Golder Associates Field Program

Table 7: Grounwater VOC Results - Summary of Detected Compounds - CRA Field Program

Table 8: Surface Water Inorganic Chemistry Results - Golder Associates Field Program

Table 9: Surface Water Inorganic Chemistry Results - CRA Field Program

Table 10: Field Chemistry Data - Surface Water Samples

Table 11: Surface Water VOC Results - Summary of Detected Compounds

Table 12: Lateral Landfill Gas Monitoring adjacent to the Halton Region Landfill

Table 13: Lateral Landfill Gas Monitoring adjacent to Bayview Park Landfill

LIST OF FIGURES

Figure 1: Site Location Map

Figure 2: Jannock Brick Group Monitoring Well and Surface Water Sampling Locations

Figure 3: Jannock Brick Group Halton Region Landfill, Cross-Section A-A'

LIST OF APPENDICES

Appendix A: Field Procedures

Appendix B: Laboratory Analytical Data Sheets

1.0 INTRODUCTION

1.1 Project Background

Golder Associates Ltd. was retained by Jannock Properties aannock) to conduct an environmental study of Jannock's proposed development lands in Burlington, Ontario. The study would address the requirements of Policy 07-07 of the Ministry of the Environment and Energy (MOEE) for development near landfills.

The subject lands are located on the west side of King Road, north of the North Service Road and Highway 403 (Figure 1). They are bounded to the west by the former Halton Regional Landfill (also known as the Burlington Landfill) which was closed in 1988, and to the north by Jannock's licensed quarry area and by the former Bayview Park Landfill which was closed in 1972. The subject property is approximately 45 hectares in size. A site plan is shown in Figure 2. The subject lands are currently zoned "D" development under By-Law 4000-3 of the City of Burlington and as a Special Complementary Use Area under the Parkway West Belt Plan. Jannock Brick intends to develop the lands as Prestige Industrial, in conformity with the Parkway West Belt Plan. The development would consist of fully serviced slab-on-grade buildings. It is our understanding that no groundwater extraction will be undertaken, and the buildings will be located so as to prevent impacts to surface water bodies (primarily intermittent streams) in the area. In addition, a proposed buffer/attenuation zone southeast of the Bayview Park landfill has been proposed to allow the City of Burlington unrestricted access to monitor and repair the leachate collection system at the landfill, and to allow for a contingent contaminant attenuation zone. Groundwater and gas monitoring down-gradient from the landfill will also be monitored. Please note that under the requirements of MOEE Policy 07-07 a 30 m peripheral area buffer zone is required from the limit of the landfill material. The proposed buffer/attenuation zone boundary outlined herein is greater than this 30 m setback. Establishment of the proposed buffer/attenuation and the proposed buffer/attenuation zone boundary would be subject to a land transfer between the City of Burlington and Jannock Properties.

The Jannock land holdings include a licenced quarry area located north of the proposed development lands. It is Jannock's intention to conduct full-scale shale extraction activities in the licenced quarry area; however, these activities are not planned in the near future. Jannock is currently pursuing the development of the southern portion of their land holdings that front along the North Service Road and King Road.

Previously, these lands and the licenced quarry area were the subject of a comprehensive environmental assessment conducted by the Regional Municipality of Halton. The purpose of that assessment was to determine if the subject lands would be suitable for landfilling activities. The property, referred to as "Site F", was not selected for the landfill site.

In February, 1993, Golder Associates prepared a Conceptual Work Program to assess the potential for the groundwater, surface water and subsurface soils of the site to have been, or to be, impacted by methane gas or leachate discharges from the former Halton Regional Landfill (Golder Associates Ltd. reference No. 911-1602). As well, in January, 1993, a separate work plan was prepared jointly by Golder Associates and Conestoga Rovers and Associates Ltd. (CRA) to assess the hydrogeological and soil gas conditions down-gradient of the Bayview Park Landfill.

This report contains the results of both work programs to date, and assesses the results with respect to MOEE policy 07-07 as it relates to potential groundwater, surface water and gas impacts from the former landfills on the proposed development.

1.2 Halton Regional Landfill

The Halton Regional Landfill, also known as the Burlington Landfill, operated as a municipal solid waste landfill until site closure in December, 1988. A final cover of clay soil was installed over the landfill after closure. The northern part of the landfill is equipped with an underdrain leachate collection system, which drains to a perforated pipe perimeter toe drain. The southern part of the landfill, which is older, was retro-fitted with a perforated pipe perimeter toe drain after the emplacement of refuse.

A monitoring program has been conducted at the landfill since 1978. Currently, monitoring is carried out on behalf of the Regional Municipality of Halton as a requirement of the landfill Certificate of Approval. The current program includes groundwater level measurements, groundwater sampling and analysis, measurement of surface water flows, surface water sampling and analysis, and sampling of leachate from a manhole in the leachate collection toe drain.

1.3 Bayview Park Landfill

The Bayview Park Landfill was operated as a municipal solid waste landfill by the City of Burlington from 1957 until site closure in 1972. A clay soil cover was installed over the landfill

after closure. A leachate collection system, consisting of perforated pipe collectors and french drains, was installed at the perimeter and into the side slopes of the landfill in 1986 and 1987. The site is currently operated as a park facility.

A monitoring program has been conducted at the landfill on behalf of the City of Burlington since 1986, as a requirement of the landfill Certificate of Approval. The current program includes groundwater level measurements, groundwater sampling and analysis, measurement of surface water flows, surface water sampling and analysis, and measurement of leachate levels and sampling of leachate from 6 wells installed into the refuse.

2.0 SITE GEOLOGY AND HYDROGEOLOGY

2.1 Site Geology and Surface Drainage

The following information on site geology has been taken from a number of previously reported studies on the site and the Bayview Park and Halton Regional landfills, (eg. CRA, 1993; Henderson Paddon Environmental, 1993) as well as information gathered during field investigations performed by Golder Associates and CRA as part of this study.

The Jannock development lands are located below the lower slopes of the Niagara Escarpment in an area heavily dissected by gullies and ravines. The site area generally slopes to the southeast, toward Lake Ontario. The site lies within the drainage areas of two creeks which eventually drain to Lake Ontario. Most of the site lies within the Indian Creek watershed, but a small area in the southwest portion of the site lies within the Falcon Creek watershed. The on site tributaries to these watersheds are small, intermittent streams which generally flow in response to surface water runoff. The base flow (groundwater) component of these streams appears to be small.

Much of the Jannock development site is underlain by a reddish brown, clayey silt to clay till. The till is generally several metres thick, and is reported to be up to 8 metres thick at some locations on-site. The till appears to be absent near the western site boundary adjacent to the Halton Regional Landfill. Bedrock underlying the till is a red to green shale of the Queenston formation. The upper portion of this shale is generally soft, and highly weathered and fractured. Under the site, this "mantle" of weathered shale varies in thickness from 0 to over 6 metres. Underlying the weathered shale mantle is a less fractured shale. The fracture patterns within the weathered shale mantle and shale show considerable variation both vertically and laterally over the site area.

2.2 Site Hydrogeology

Previous investigations have identified two primary hydrogeological flow systems in the site area. The shallow or active groundwater flow system occurs primarily in the upper, heavily fractured shale. Groundwater in this system is characterized by relatively low chloride concentrations (generally less than 2,000 mg/L). The pattern of groundwater flow in this system generally follows topography and the overall flow direction is from northwest to southeast, with some local

discharge of groundwater into creeks. Groundwater "mounds" occur within both the former landfills adjacent to the site, causing some shallow groundwater flow to be directed radially outward from the southern portions of both landfills. Thus shallow groundwater flow from both landfills is directed towards the site.

The underlying deep groundwater flow system is characterized by strong downward hydraulic gradients and saline groundwaters. Chloride and hardness levels in this system commonly exceed 10,000 mg/L, and have been reported to be over 50,000 mg/L in some samples. While the permeability of both the upper, fractured shale and the underlying deeper shales is extremely variable, the deeper shales generally have a lower permeability and the average velocity of groundwater in the deep groundwater system is expected to be slower than in the shallow system.

Groundwater in both the shallow and deep systems is expected to flow primarily laterally, following complex flow paths governed by the complex pattern of fracturing in the shale bedrock. Thus, it is generally not possible to determine the exact direction of groundwater flow at any one location in the site area. However, in general under the site area groundwater flows toward the southeast, with a minor component of downward flow.

Groundwater elevations in selected wells over the site area were recorded during the period of late February, 1993 to May, 1993, and are presented in Table 1. The groundwater elevation data indicate that the water table elevation mimics local topography, and the general direction of groundwater flow is from the northwest to the southeast. Vertical hydraulic gradients recorded at well nests were consistently downward.

3.0 RESULTS OF THE GROUNDWATER SAMPLING PROGRAM

3.1 Sampling Program

Two rounds of groundwater sampling were conducted by Golder Associates Ltd, on April 5 to 12, 1993, and May 7, 1993. In total, 11 separate wells were sampled, with 2 wells being included in both sampling rounds. These wells are located east of the former Halton Region Landfill. Groundwater samples from the first round were analyzed for inorganic parameters including metals (cations), anions, and nitrogen compounds, and volatile organic compounds (VOCs); samples from the second round were analyzed for VOCs only. The wells which were sampled in each round and the parameters analyzed are listed in Table 2. All samples were submitted to Barringer Laboratories in Mississauga for analysis. Details of the field procedures are given in Appendix A.

As well, two rounds of groundwater sampling were conducted by CRA, on March 26 and April 6-7, 1993. In total, 15 separate wells were sampled, with 6 wells being included in both sampling rounds. These wells are located downgradient of the former Bayview Park Landfill. Samples from the first round were submitted to Barringer Laboratories for analysis of alkalinity, chloride, sulphate, and VOCs. Samples from the second round were submitted to Mann Testing Laboratories in Mississauga for analysis of VOCs, and the CRA laboratory in Waterloo for analysis of alkalinity, chloride, ammonia, total yeldhal nitrogen, and phenols. Analytical results were provided to Golder Associates by CRA. The wells which were sampled in each round and the parameters analyzed are listed in Table 2.

3.2 General Chemistry Results

The groundwater quality in the site area is strongly influenced by the local geology. Dissolution of minerals from the shale bedrock has caused saline groundwater which is high in total dissolved solids, and which is not of acceptable quality for use as drinking water. This is true of both the shallow and deep groundwater systems, although the mineralization is more pronounced in the deep flow system. As noted in previous studies of the immediate site area (eg. CRA, 1993; Henderson Paddon Environmental, 1993) natural or background concentrations of many inorganic parameters in the local groundwater are above their respective Ontario Drinking Water Objectives. These parameters include chloride, hardness, alkalinity, and many metals including iron, and manganese. Thus, it is not possible to distinguish minor leachate contamination from

the naturally saline, poor quality groundwater present in the shallow and deep groundwater systems using most inorganic parameters.

The analytical results for inorganic parameters in groundwater samples obtained in the Golder Associates and CRA field programs are summarized in Tables 3 and 4. Ontario Drinking Water Objectives (ODWO) are also shown on Tables 3 and 4 for comparison. Table 5 summarizes the field measurements of pH, electrical conductivity, and temperature obtained during sampling by Golder Associates. Laboratory data sheets are presented in Appendix B. The following parameters were found at concentrations greater than ODWO levels in at least one groundwater sample: alkalinity, chloride, sulphate, hardness, aluminum, boron, cadmium, iron, manganese, and sodium. As mentioned above, the observed concentrations of these parameters are representative of the groundwater quality in the area, upgradient and downgradient of the landfills,and therefore do not indicate leachate impacts from the Halton Regional or Bayview Park landfills.

Organic nitrogen was present at concentrations in excess of the ODWO of 0.15 mg/L in many groundwater samples. The source of nitrogen is unclear. However, it is possible that high levels of total dissolved solids in the groundwater samples have caused interferences in the analytical results for nitrogen compounds, resulting in artificially high levels of organic nitrogen to be reported. Alternatively, it is possible that either the shale bedrock, infiltrating spring snow-melt and precipitation, or migrating leachate from the landfills may be the source of nitrogen compounds in the groundwater.

3.3 Volatile Organic Compound Results

The analytical results for VOCs in groundwater samples obtained in the Golder Associates and CRA field programs are summarized in Tables 6 and 7. ODWO levels are given on Tables 6 and 7 for comparison. Laboratory data sheets are presented in Appendix B.

The results of the Golder Associates monitoring program show that trace to low levels of a number of volatile organic compounds were detected in groundwater samples taken from wells located near the west side of the site, downgradient from the Halton Regional Landfill. All compounds were detected at concentrations well below their respective ODWO levels. The detected compounds were:

- benzene, toluene, ethyl benzene, and xylenes (BTEX) at trace to low levels (0.1 to 7.1 μg/L). One or more of these compounds was detected in 7 of the 11 tested wells;

- a trace level of chlorobenzene (0.3 μg/L) detected in one well;

- Dichlorobenzene (one or more isomers) at trace levels (0.1 to 0.3 μg/L) in 4 of the 11 tested wells;

- trace to low levels (0.1 to 2.4 μg/L) of chlorinated aliphatic VOCs, including vinyl chloride, chloroethane, dichloroethane, dichloroethene, trichloroethane, trichloroethene, and tetrachloroethene. At least one of these compounds was detected in 7 of the 11 tested wells. In case of vinyl chloride, which was detected in three wells (HC3-85-3, HC5-85-1, PW-2) at concentrations up to 1.1 μg/L, there is no specified ODWO. However, the United States Environmental Protection Agency has set a Maximum Contaminant Level for vinyl chloride in drinking water of 2 μg/L. The detected levels of vinyl chloride are below this guideline. Please note vinyl chloride was not detected in the wells tested during the second round of sampling. These wells were retested to try and confirm its presence or absence.

The results of the CRA monitoring program show that low levels of three chlorinated VOCs were detected in four wells downgradient of the Bayview Park landfill. Chlorobenzene was detected in two samples from well OW4-93 at concentrations of 63.3 and 11.0 μg/L. These values are below the ODWO level for chlorobenzene of 80 μg/L. Well OW4-93 is located immediately west of the Bayview Park landfill, approximately 120 metres northwest (ie. up-gradient) of the Jannock development lands. 1,4-Dichlorobenzene was detected at trace levels (0.2 μg/L) in one of two samples from well OW2B-93. 1,4-Dichlorobenzene and 1,2-dichlorobenzene were detected at trace levels (1.6 and 0.1 μg/L respectively) in one of two samples from well OW4 93. These concentrations are less than the ODWO levels of 5 μg/L and 200 μg/L, respectively. In both cases dichlorobenzene was detected only in first round samples, however the method detection limit for this compounds increased from 0.2 to 1.0 μg/L from the first to the second sampling rounds, therefore the results of both rounds are consistent. Low levels of 1,1,1-trichloroethane were detected at wells OW2A-93 and OW3-93 (1.5 and 1.1 μg/L respectively) in the second sampling round only.

As shown on Table 7, groundwater samples from all 6 of the wells tested in the first sampling round contained low concentrations (less than 4.0 μg/L) of BTEX. Samples obtained from these wells in the second sampling round did not contain detectable levels of BTEX. These apparently

inconsistent results may be due to one of several factors: contamination of the first round samples by sampling or laboratory activities, a change in analytical laboratories and a corresponding increase in method detection limits from approximately 0.2 to 0.5 μg/L between tbe first and second sampling rounds, or transient low-level concentrations of BTEX in the groundwater down gradient from the Bayview Park landfill. In any case, as discussed below the presence of BTEX in groundwater samples is not necessarily an indication of leachate contamination of groundwater in the immediate area.

In summary, the results of groundwater monitoring for VOCs down-gradient from the Halton Regional and Bayview Park landfills indicate that trace to low concentration of some VOCs are present in some locations in the groundwater underlying the Jannock development lands. However, VOCs were detected at concentrations below established guideline levels. The results of previous monitoring programs at the Halton Regional and Bayview Park landfills indicate that generally, VOCs have been detected only sporadically and at trace to low levels (ie. less than 10 μg/L) in groundwater downgradient of the landfills. This is in general agreement with the results of the groundwater sampling program undertaken for this study.

The results of previous monitoring programs also indicate that benzene, ethyl benzene, and toluene have historically been detected in some background groundwater samples taken from wells upgradient of the Halton Regional Landfill (Henderson Paddon Environmental, 1993). As low levels of non-chlorinated VOCs, specifically benzene, toluene, ethyl benzene, and xylenes (BTEX) may originate from the shale bedrock, the presence of low levels of BTEX in groundwater down-gradient from the landfills does not necessarily indicate leachate impacts. However, the observed presence of trace to low levels of chlorinated VOCs, including chlorobenzene, vinyl chloride and other chlorinated aliphatic compounds, indicates that groundwater underlying the site may have been slightly impacted by leachate from both landfills.

As stated previously, the natural quality of groundwater underlying the site area is unacceptable for drinking water purposes and the proposed site development will not use local groundwater but will rely on municipal services. Therefore the observed quality of groundwater underlying the site, including the presence of low levels of volatile organic compounds, should not pose a problem to future development of the site.

4.0 RESULTS OF THE SURFACE WATER SAMPLING PROGRAM

4.1 Sampling Program

Four surface water sampling stations were established by Golder Associates on the site down stream from the Halton Regional landfill, as shown in Figure 2. Three stations (SW-A, SW-B, SW-C) are located in the Indian Creek watershed. The remaining station (SW-D) is located in the Falcon Creek watershed. One round of surface water sampling was conducted by Golder Associates Ltd, on April 5, 1993. Samples were obtained from all 4 surface water stations. Samples were analyzed for a suite of inorganic parameters including metals (cations), anions, and nitrogen compounds, and volatile organic compounds (VOCs). Details of the sampling program are given in Table 2. All samples were submiKed to Barringer Laboratories in Mississauga for analysis. Details of the field procedures are given in Appendix A.

A number of surface water stations have been established in the vicinity of the Bayview Park landfill as part of ongoing monitoring activities. Surface water sampling at many of these stations was conducted by CRA, on April 6-7, 1993. In total, fifteen samples (one per sample station) were obtained from 15 separate surface water stations. Details of the sampling program are given in Table 2, and surface water station locations are shown on Figure 2. Samples were submitted to Mann Testing Laboratories in Mississauga for analysis of VOCs, the CRA laboratory in Waterloo for analysis of alkalinity, chloride, ammonia, total kjeldhal nitrogen, sulphate, and phenols, and to Standard Biological Laboratories in Mississauga for analysis of fecal and total coliform and fecal streptococcus bacteria. Analytical results were provided to Golder Associates by CRA.

4.2 General Chemistry Results

The analytical results for inorganic parameters in surface water samples obtained in the Golder Associates and CRA field programs are summarized in Tables 8 and 9. Ontario Provincial Water Quality Objectives (PWQO) are also shown on Tables 8 and 9 for comparison. Table 10 summarizes the field measurements of pH, electrical conductivity, and temperature obtained during sampling by Golder Associates. Laboratory data sheets are presented in Appendix B.

Of the stations sampled for this study, Stations SW9-87, SW11-87, and SW12-87 are located upstream of the landfills and are expected to indicate background (un-impacted) surface water

quality (Figure 2). Suspected leachate impacts to downgradient surface water have been determined based on the range of parameter concentrations in samples taken from these background locations. It should be noted that the analyses performed on background samples include only alkalinity, chloride, sulphate, ammonia, TKN, phenols, and bacteria.

Elevated levels of chloride (over the maximum observed background level of approximately 60 mg/L) and elevated levels of alkalinity (over the maximum observed background level of approximately 270 mg/L) were detected at stations SW5-87, SW7-87, and SW14-93. The sample from station SW7-87 also contained relatively high concentrations of sulphate (307 mg/L) and aqueous ammonia (0.90 mg/L). Based on these results, it is likely that surface water at these three locations has been slightly impacted by landfill leachate. Station SW5-87 is located northeast of the Bayview Park landfill and is not on or upstream of the Jannock site. However stations SW7-87 and SW14-93 are located on the same stream southeast of the Bayview Park landfill, at the north and south boundaries of the Jannock site respectively (Figure 2). This indicates that surface water in the eastern part of the site, down-stream of the Bayview Park landfill, may be slightly impacted by leachate from that landfill. This is in general agreement with the results of previous monitoring programs at the landfill. The results of surface water monitoring at stations SW-A TO SW-D, down-stream of the Halton Regional landfill, do not indicate leachate impacts to surface water.

4.3 Volatile Organic Compound Results

The analytical results for VOCs in surface water samples obtained in the Golder Associates field program are summarized in Table 11. No VOC compounds were detected in surface water samples obtained in the CRA field program. Laboratory data sheets are presented in Appendix B.

Trace levels (up to 0.3 μg/L) of VOCs were detected in samples from only three of the stations sampled: SW-A, SW-C, and SW-D. The compounds detected were benzene, toluene, m&p-xylenes, chloroform, and trichloroethene. There are no PWQO levels for these compounds. It is possible that the low concentrations observed (ie. less than 0.5 μg/L) of these compounds may have been caused by contamination during sampling or laboratory procedures. This is supported by the inconsistent results for chloroform, benzene, and m&p-xylenes in the blind duplicate sample from location SW-D (see Table 11).

5.0 RESULTS OF THE GAS MONITORING PROGRAM

5.1 Field Program

Five gas monitoring probes (GA1-93 to GA5-93) were installed along the western site boundary adjacent to the Halton Regional landfill by Golder Associates, on March 29-31, 1993. The gas probes were purposely installed during frozen ground conditions. In addition, one gas monitoring probe (GP2-93) was installed at the western boundary of the Bayview Landfill, northeast of the Jannock development lands, and three probes (GP1-93, GP3-93 and GP4-93) were installed at the southeastern boundary of the proposed Bayview Park landfill buffer/attenuation zone by CRA. Gas probe locations are shown on Figure 2.

The concentration of total combustible gases, including methane, in gas probes has been monitored on regular (approximately weekly) basis by Golder Associates. Details of the Golder Associates field program are given in Appendix A. Gas probe construction details are shown on the Record of Borehole sheets included with this report.

Please note that Golder Associates has been informed that the proposed development plan being prepared by Jannock does not call for development to take place within 30 m of the former landfill sites. We understand that the proposed development will include a peripheral area set back of at least 30 m adjacent to the former Halton Region Landfill. The proposed buffer/attenuation zone adjacent to the former Bayview Park Landfill would provide a peripheral area set back of approximately 140 m. The location of the proposed buffer/attenuation zone boundary would approximate the southern edge of the hickory forest wood lot adjacent to the Bayview Park Landfill.

Both landfills are located within the 500 m distance interval whereby an assessment of potential adverse affects from methane gas may be required, as outlined in MOEE Policy 07-07. Data obtained from CRA indicates that the thickness of unsaturated refuse within the Bayview Park Landfill ranges from about 6.4 m to 16.2 m with an average of about 9.9 m. This data was obtained from borehole logs prepared at the time of leachate sampling well installation at the landfill. The D_{10} distance would therefore be about 100 m. This represents the distance envelope within which potential methane gas should be monitored near to landfill sites as specified within the MOEE Guideline for Assessing Methane Hazards from Landfill Sites, 1987. The Jannock

lands would not fall into this envelope since the proposed buffer/attenuation zone would extend beyond 140 m.

5.2 Results of the Gas Monitoring Program

The results of the gas probe monitoring program are given in Tables 12 and 13. For all monitoring events, including readings obtained on the day of the gas probe installation, concentrations of total combustible gases were non-detectable. It should be noted that after initial drilling and gas probe installation, spring flooding conditions resulted in the groundwater table rising to close to the ground surface until approximately mid-May. As a result, many of the gas probe intake screens were below the water table, which would prevent the entry of soil gases into the probes. During monitoring events in late April and May, 1993, groundwater was pumped from probes until the groundwater levels were below the top of the probe screens, and repeat gas measurements were taken. By mid-May, the water table elevation had fallen and all gas probe screens were above the water table.

The results of gas monitoring to date have not detected measurable levels of combustible gases, including methane, migrating through the subsurface from the Halton Regional and Bayview Park landfills onto the Jannock development lands.

Migration of landfill gases from the Halton Regional Landfill onto the Jannock site is expected to be prevented by the presence of a topographic depression along the western boundary of the Jannock site. As illustrated in the cross-section presented on Figure 3, it is likely that any soil gases will be vented to the atmosphere as they travel laterally eastward from the landfill and intersect the ravine present in the area of gas probe GA1-93. A topographic low (a ravine or a ditch) is present along most of the western boundary of the Halton Region Landfill.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

The following conclusions are made, based on the results of this study:

1. The groundwater in the area of the Jannock development lands is naturally saline and contains high concentrations of dissolved solids due to natural sources. This groundwater is not of acceptable quality as a drinking water supply.

2. Alkalinity, chloride, sulphate, hardness, aluminum, boron, cadmium, iron, manganese, and sodium were found at concentrations greater than ODWO levels in at least one groundwater sample from the site area. However, the observed concentrations of these parameters are representative of groundwater quality both upgradient and downgradient of the landfills and do not indicate the presence of leachate from the Halton Regional or Bayview Park landfills. Organic nitrogen was also present at concentrations over the ODWO in many groundwater samples. The source of nitrogen is unclear, and it is possible that either laboratory inaccuracies, natural sources, or migrating leachate from the landfills may be the source of nitrogen compounds in the groundwater.

3. The results of groundwater monitoring for VOCs down-gradient from the Halton Regional and Bayview Park landfills indicate that trace to low concentrations of some VOCs, including chlorinated VOCs, are present in some locations in the groundwater underlying the Jannock development lands. Based on the results of this study and previous monitoring programs at the landfills, the presence of chlorinated VOCs indicates that the groundwater underlying the Jannock development lands has been slightly impacted by landfill leachate. The concentrations detected are less than the current ODWOs. These impacts should not pose a problem to the proposed development of the site.

4. Based on the results of surface water monitoring performed for this study, it is likely that surface water at some locations down-stream from the Bayview Park landfill, including 2 locations at the north and south boundaries of the Jannock development lands, has been slightly impacted by inorganic compounds in leachate. There is no clear evidence of surface water impacts by VOCs.

5. The results of regular gas monitoring at the site to date indicate that no detectable levels of combustible gases, including methane, have migrated through the subsurface from the Halton Regional and Bayview Park landfills onto the Jannock development lands, during the monitoring period.

6. The proposed Jannock Properties development, consisting of fully serviced, slab-on-grade industrial buildings located a minimum of 30 metres from the former fill areas, should not be affected by landfill gases or leachate migrating through the subsurface, or by leachate migrating in surface waters, from the closed Halton Regional or Bayview Park landfill. The proposed use of the property should not be affected, nor adversely impact existing groundwater or surface water quality provided proper storm-water and surface

water management plans are followed. Existing groundwater and surface water conditions should not impact the proposed development.

6.2 Recommendations

Based on the results of this study, the following recommendations are made for the purpose of minimizing potential environmental liabilities at the Jannock development site:

1. A regular groundwater and surface water monitoring program should be continued at the Halton Regional landfill by the Regional Municipality of Halton. The results and assessment of the program should be forwarded to the Jannock Brick Group on an annual basis. This is a condition of the landfill closure Certificate of Approval. The monitoring program should be revised to incorporate gas monitoring adjacent to the Jannock site, and surface water monitoring at Stations upstream of the Jannock site.

2. A regular groundwater and surface water monitoring program should be continued at the Bayview Park landfill by the City of Burlington. This is a condition of the landfill closure Certificate of Approval which the results and assessment of the program forwarded to the Jannock Brick Group on an annual basis. The monitoring program should be carried out in accordance with the Rationalized Monitoring Program, including gas monitoring proposed by CRA/Golder Associates in January, 1993.

3. A rigorous storm water and surface water management plan be followed for the proposed development, to prevent undesirable impacts to surface water, both during construction phases and during normal operations at the development. Golder Associates understands that this is being undertaken by Aquafor Engineering Limited, on behalf of Jannock. This program also includes set back from all surface water courses.

4. On-site monitoring wells which are not to be used in the above monitoring programs be inspected and fitted with locked caps, or be properly abandoned in accordance with Ontario Regulation 612/84.

We trust this information meets your current requirements. Should you have any questions please feel free to contact us.

GOLDER ASSOCIATES LTD.

ORIGINAL SIGNED BY

T.A. Middleton, M.Sc.
Hydrogeologist

ORIGINAL SIGNED BY

T.A. McIlwain, P.Eng.
Principal
Environmental Division

TAM/TAM/DPB/db

REFERENCES

Golder Associates Ltd., February 1993. Conceptual Work Plan, Jannock Brick Development Lands Adjacent to the Former Halton Regional Landfill, Burlington, Ontario. No. 911-1602.

Conestoga Rovers and Associates Ltd. and Golder Associates Ltd., January, 1993. Concept Proposal, Bayview Park Landfill Buffer Zone. Monitoring Requirements and Development of Lands South of Bayview Park Landfill. CRA ref. No. 1354 (45).

Conestoga Rovers and Associates Ltd., March, 1993. 1992 Monitoring Report, Bayview Park Landfill, Burlington, Ontario. Ref. No. 1354 (46).

Henderson, Paddon Environmental Inc. March, 1993. 1992 Groundwater and Surface Water Monitoring Report for the Closed Burlington Landfill. Ref. No. 592802.

Table 1
Groundwater Elevation Data
Jannock Brick Development Lands, Burlington, Ontario

Well	Elevation of Well Screen (m asl)	Groundwater Elevation (m asl)								
		26-Feb-93	15-Mar-93	14-Apr-93	16-Apr-93	23-Apr-93	30-Apr-93	03-May-93	07-May-93	17-May-93
GP1-93	127.5-128.5				127.59	127.76	127.66		127.66	127.75
GP2-93	141.1-142.0			142.00	142.31	142.08	142.22		141.94	141.93
GP3-93	129.4-131.0			132.54	132.58	132.59		132.57	132.36	131.92
HC2-85-1	165.4-174.0							169.3		
HC4-85-1	106.6-108.1							122.90		
HC4-85-2	119.1-121.5							133.29		
HC4-85-3	125.6-127.7							134.45		
HC4-85-4	131.1-136.7							135.52		
HC5-85-1	95.1-96.6	114.89								
HC5-85-2	107.3-108.8	119.0								
HC5-85-3	116.7-118.2	124.3								
HC5-85-4	120.2-124.8	Frozen								
HC6-85-1	97.0-98.5							117.6		
HC7-85-1	100.4-105.1							113.81		
HC7-85-2	110.8-112.1							123.76		
HC7-85-3	123.0-129.9							128.45		
HC8-85-1	87.1-88.9	110.58								
HC8-85-2	100.9-102.5	116.16								
HC8-85-3	107.3-109.1	117.36								
HC8-85-4	111.6-115.6	117.52								
OW1A-93	103.3-105.6			104.59				106.46		
OW1B-93	117.1-119.4			124.35	124.37	124.44		124.28	124.18	124.31
OW2A-93	117.5-119.7		127.58	124.37				127.55		
OW2B-93	124.1-126.3			128.01				127.78		
OW3-93	126.1-128.4		130.61	132.17				132.15		
OW4-93	138.5-140.7			141.51				142.20		
PW-1	123.6-131.3									
PW-3	121.9-126.9			126.97	126.91	126.99		126.90	126.79	126.67

000080

Table 2
Groundwater and Surface Water Sampling Schedule
Jannock Brick Development Lands, Burlington, Ontario

	Samples	Parameters
Golder Associates Round 1 April 5-12, 1993	Wells: PW-2, HC3-85-3, HC3-85-5, HC5-85-1, HC5-85-2*, HC5-85-4, HC8-85-1, HC8-85-3, HC8-85-4	VOCs, alkalinity, BOD, COD, phenols, total phosphorus, ammonia, TKN, chloride, fluoride, sulphate, TSS, cyanide, mercury, hardness, ICAP metals scan
	Surface Water Stations: SW-A, SW-B, SW-C, SW-D*	VOCs, alkalinity, BOD, COD, phenols, total phosphorus, ammonia, TKN, chloride, fluoride, sulphate, TSS, cyanide, mercury, hardness, ICAP metals scan
Golder Associates Round 2 May 7, 1993	Wells: GA1-93, GA2-93, HC3-85-3*, PW-2	VOCs
CRA Round 1 March 26, 1993	Wells: OW1A-93, OW1B-93, OW2A-93, OW2B-93, OW3-93, OW4-93	alkalinity, chloride, sulphate, VOCs
CRA Round 2 April 6-7, 1993	Wells: OW1A-93, OW1B-93, OW2A-93, OW2B-93, OW3-93, OW4-93 PW-1*, PW-3,	alkalinity, chloride, ammonia, TKN, phenols, VOCs
	HC4-85-2, HC4-85-3, HC4-85-4, HC7-85-1*, HC7-85-2, HC9-85-2, HC9-85-3	alkalinity, chloride, ammonia, TKN, phenols
	Surface Water Stations: SW1-87, SW4-87, SW5-87, SW6-87, SW7-87, SW8-97, SW9-87, SW10-87, SW11-87, SW12-87, SW13-88, SW9A-93, SW13-93, SW14-93, SW15-93	alkalinity, chloride, sulphate, ammonia, TKN, phenols, bacteria

* signifies a blind duplicate sample taken at this location

May 1993 911-1602

TABLE 3
GROUNDWATER INORGANIC CHEMISTRY RESULTS - GOLDER ASSOCIATES FIELD PROGRAM
JANNOCK BRICK DEVELOPMENT LANDS, BURLINGTON, ONTARIO

WELL	Sampling Round	Alkalinity (mg/L as CaCO3)	Chloride (mg/L)	Sulphate (mg/L)	Ammonia (mg/L as N)	TKN* (mg/L)	Organic Nitrogen** (mg/L)	Phenols (ug/L)
PW2	1	408	718	1750	3.30	3.60	0.3	<0.5
HC3-85-3	1	503	397	1080	0.90	1.09	0.2	<0.5
HC3-85-5	1	602	34.8	1090	<0.02	0.20	0.2	<0.5
HC5-85-1	1	124	13800	1830	17.0	16.3	0.0	1.0
HC5-85-2	1	284/280	895/984	1720/1740	3.80/3.80	3.80/3.70	0.0/0.0	<0.5/<0.5
HC5-85-4	1	464	158	937	0.04	0.14	0.1	<0.5
HC8-85-1	1	286	5950	1570	16.0	15.7	0.0	6.5
HC8-85-3	1	52.0	9170	1950	11.2	10.5	0.0	<0.5
HC8-85-4	1	163	6540	1780	4.60	4.70	0.1	<0.5
Ontario Drinking Water Objective		30-500	250	500	-	-	0.15	-

WELL	Sampling Round	BOD (mg/L)	COD (mg/L)	Total Suspended Solids (mg/L)	Hardness (mg/L)	Total Phosphorus (mg/L)	Total Cyanide (mg/L)	Fluoride (mg/L)
PW2	1	0.3	25	9.5	1964	0.014	<0.001	0.2
HC3-85-3	1	1.1	19	2.3	1458	0.010	<0.001	0.2
HC3-85-5	1	0.1	9	814.7	1321	0.250	<0.001	0.2
HC5-85-1	1	1.2	400	17431.4	11840	0.510	<0.001	0.1
HC5-85-2	1	0.4/0.4	28/27	3536/1406	1677/1776	0.560/0.28	<0.001	0.2/0.2
HC5-85-4	1	0.5	16	33158.5	1065	0.200	<0.001	0.3
HC8-85-1	1	0.3	770	219.6	5775	0.300	<0.001	0.2
HC8-85-3	1	0.3	100	4388.6	6112	0.330	<0.001	0.3
HC8-85-4	1	0.1	24	14668.5	2514	0.042	<0.001	0.2
Ontario Drinking Water Objective		-	-	-	80-100	-	0.2	1.5

* Total Kjeldhal Nitrogen

** Organic Nitrogen is calculated as (TKN - Ammonia)

TABLE 3
GROUNDWATER INORGANIC CHEMISTRY RESULTS - GOLDER ASSOCIATES FIELD PROGRAM
JANNOCK BRICK DEVELOPMENT LANDS, BURLINGTON, ONTARIO

WELL	Sampling Round	Mercury (mg/L)	Silver (mg/L)	Aluminum (mg/L)	Arsenic (mg/L)	Boron (mg/L)	Barium (mg/L)	Berillium (mg/L)
PW2	1	<0.00005	0.007	0.08	<0.1	4.76	0.008	<0.0005
HC3-85-3	1	<0.00005	<0.005	<0.05	<0.1	2.82	0.040	<0.0005
HC3-85-5	1	0.00010	<0.005	<0.05	<0.1	0.67	0.013	<0.0005
HC5-85-1	1	<0.00005	<0.005	<0.05	<0.1	4.61	0.053	<0.0005
HC5-85-2	1	<0.00005/ <0.00005	<0.005/ <0.005	0.07/0.13	<0.1/<0.1	5.19/5.53	0.010/0.01	<0.0005
HC5-85-4	1	<0.00005	<0.005	<0.05	<0.1	1.75	0.012	<0.0005
HC8-85-1	1	<0.00005	<0.005	<0.05	<0.1	1.72	0.028	<0.0005
HC8-85-3	1	<0.00005	<0.005	0.17	<0.1	5.38	0.016	<0.0005
HC8-85-4	1	0.00005	<0.005	<0.05	<0.1	2.47	0.013	<0.0005
Ontario Drinking Water Objective		0.001	-	0.1	0.025	5.0	1.0	-

WELL	Sampling Round	Bismuth (mg/L)	Calcium (mg/L)	Cadmium (mg/L)	Cobalt (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)
PW2	1	<0.1	551	<0.005	<0.01	<0.01	<0.01	5.91
HC3-85-3	1	<0.1	357	<0.005	<0.01	<0.01	<0.01	0.65
HC3-85-5	1	<0.1	286	<0.005	<0.01	<0.01	<0.01	0.02
HC5-85-1	1	<0.1	3240	0.009	<0.01	<0.01	<0.01	<0.01
HC5-85-2	1	<0.1/<0.1	449/476	<0.005/ <0.005	<0.01/<0.	<0.01/<0.	<0.01/<0.	4.61/3.41
HC5-85-4	1	<0.1	174	<0.005	<0.01	<0.01	<0.01	0.05
HC8-85-1	1	<0.1	1500	<0.005	<0.01	<0.01	<0.01	<0.01
HC8-85-3	1	<0.1	1620	<0.005	<0.01	<0.01	<0.01	0.84
HC8-85-4	1	<0.1	419	<0.005	<0.01	<0.01	<0.01	0.06
Ontario Drinking Water Objective		-	-	0.005	-	0.05	1.0	0.3

TABLE 3
GROUNDWATER INORGANIC CHEMISTRY RESULTS - GOLDER ASSOCIATES FIELD PROGRAM
JANNOCK BRICK DEVELOPMENT LANDS, BURLINGTON, ONTARIO

WELL	Sampling Round	Potassium (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenu (mg/L)	Sodium (mg/L)	Nickle (mg/L)	Lead (mg/L)	Sulphur (mg/L)
PW2	1	50	142	0.22	<0.05	514	<0.05	<0.05	589
HC3-85-3	1	32	137	0.64	<0.05	271	<0.05	<0.05	347
HC3-85-5	1	20	147	0.47	<0.05	121	<0.05	<0.05	314
HC5-85-1	1	120	906	3.60	<0.05	5810	<0.05	<0.05	443
HC5-85-2	1	42/46	134/141	0.20/0.21	<0.05/<0.	547/591	<0.05/<0.	<0.05/<0.	533/565
HC5-85-4	1	21	152	0.25	<0.05	178	<0.05	<0.05	258
HC8-85-1	1	60	491	0.60	<0.05	2840	<0.05	<0.05	442
HC8-85-3	1	114	499	0.78	<0.05	3880	<0.05	<0.05	699
HC8-85-4	1	40	356	0.25	<0.05	886	<0.05	<0.05	531
Ontario Drinking Water Objective		-	-	0.05	-	200	-	0.01	

WELL	Sampling Round	Antimony (mg/L)	Selenium (mg/L)	Silicon (mg/L)	Tin (mg/L)	Strontium (mg/L)	Titanium (mg/L)	Vanadium (mg/L)	Zinc (mg/L)
PW2	1	<0.1	<0.1	4.60	<0.1	11.9	0.007	0.010	0.01
HC3-85-3	1	<0.1	<0.1	3.55	<0.1	9.80	0.005	<0.005	0.01
HC3-85-5	1	<0.1	<0.1	4.96	<0.1	9.75	0.006	<0.005	<0.01
HC5-85-1	1	<0.1	<0.1	6.84	<0.1	76.8	0.029	<0.005	0.33
HC5-85-2	1	<0.1/<0.1	<0.1/<0.1	4.45/4.58	<0.1/<0.1	10.6/11.3	0.008/0.00	0.006/0.00	0.01/0.02
HC5-85-4	1	<0.1	<0.1	3.89	<0.1	5.48	<0.005	<0.005	0.04
HC8-85-1	1	<0.1	<0.1	7.43	<0.1	30.8	0.012	0.006	<0.01
HC8-85-3	1	<0.1	<0.1	3.73	<0.1	32.8	0.020	0.007	0.01
HC8-85-4	1	<0.1	<0.1	5.72	<0.1	10.3	0.008	<0.005	<0.01
Ontario Drinking Water Objective		-	0.01	-	-	-	-	-	5.0

TABLE 4
GROUNDWATER INORGANIC CHEMISTRY RESULTS - CRA FIELD PROGRAM
JANNOCK BRICK DEVELOPMENT LANDS, BURLINGTON, ONTARIO

WELL	Sampling Round	Alkalinity (mg/L as CaCO3)	Chloride (mg/L)	Sulphate (mg/L)	Ammonia (mg/L as N)	TKN* (mg/L)	Organic Nitrogen** (mg/L)	Phenols (ug/L)
OW1A-93	1	142	5780	2380	-	-	-	-
	2	41.4	5994	-	10.0	10.2	0.2	1.8
OW1B-93	1	187	1150	1770	-	-	-	-
	2	207	936	-	5.80	6.48	0.68	<1.0
OW2A-83	1	289	370	1300	-	-	-	-
	2	320	78.5	-	2.6	2.82	0.22	<1.0
OW2B-93	1	489	96	263	-	-	-	-
	2	466	68.9	-	0.08	1.43	1.35	<1.0
OW3-93	1	429	71	116	-	-	-	-
	2	438	49.8	-	0.74	1.14	0.4	<1.0
OW4-93	1	407	112	1050	-	-	-	-
	2	440	32.6	-	0.18	1.64	1.46	<1.0
PW1	2	93.8/93.4	2095/2536	-	7.00/6.50	7.44/6.63	0.44/0.13	<1.0/<1.0
PW3	2	541	677	-	2.60	2.87	0.27	<1.0
HC4-85-2	2	212	713	-	7.00	7.28	0.28	<1.0
HC4-85-3	2	330	30.6	-	0.14	1.03	0.89	<1.0
HC4-85-4	2	368	36.2	-	0.03	0.60	0.57	<1.0
HC7-85-1	2	88.4/91.4	4992/5148	-	9.50/8.50	10.1/8.62	0.6/0.12	<1.0/<1.0
HC7-85-2	2	370	50.0	-	0.90	1.03	0.13	<1.0
HC9-85-2	2	45.0	15466	-	22.0	23.5	1.5	<1.0
HC9-85-3	2	377	82.6	-	1.80	3.11	1.31	<1.0
Ontario Drinking Water Objective		30-500	250	500	-	-	0.15	-

* Total Kjeldhal Nitrogen

** Organic Nitrogen is calculated as (TKN - Ammonia)

Table 5
Field Chemistry Data - Groundwater Samples
Canada Brick Site, Burlington, Ontario

Well	Date Sampled	Temp. (C)	Cond. (umhos)	pH
HC3-85-3	April 5, 1993	8	2200	7.0
	May 6, 1993	11	2900	6.8
HC3-85-5	April 5, 1993	8	1900	7.1
HC5-85-1	April 12, 1993	-	19900	7.7
HC5-85-2	April 5, 1993	9	3700	7.3
HC5-85-4	April 5, 1993	7	1900	7.6
HC8-85-1	April12, 1993	-	14600	8.0
HC8-85-3	April 6, 1993	7	15800	7.5
HC8-85-4	April 2, 1993	7	38	7.3
PW2	April 2, 1993	8	46	7.0
	May 6, 1993	11	3320	6.5
GA1-93	May 7, 1993	11	950	7.0
GA5-93	May 7, 1993	10	800	6.8

TABLE 6
Groundwater VOC Results – Summary of Detected Compounds – Golder Associates Field Program
Jannock Brick Development Lands, Burlington, Ontario

Well:		HC3–85–3		HC3–85–5	HC5–85–2	HC5–85–4	HC5–85–1	HC8–85–1	HC8–85–3	HC8–85–4	GA1–93	GA5–93	PW–2		Trip Blank	
Round:		1	2	1	1	1	1	1	1	1	2	2	1	2	1	2
Compound (ug/L)	ODWO															
Benzene	5	0.4	0.4/0.3	<0.1	<0.1/<0.1	0.3	<0.1	<0.1	0.1	<0.1	0.1	<0.1	0.2	0.1	<0.1/<0.1	<0.1
Toluene	24	0.1	<0.2/<0.2	<0.2	<0.2/<0.2	0.2	7.1	1.3	0.2	<0.2	<0.2	<0.2	0.1	<0.2	<0.2/0.2	0.1
Ethyl Benzene	2.4	<0.2	<0.2/<0.2	<0.2	<0.2/<0.2	<0.2	0.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2
o–xylene		<0.2	<0.2/<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2
m&p–xylenes		0.1	<0.2/<0.2	<0.2	<0.2/<0.2	0.2	0.2	<0.2	0.1	<0.2	<0.2	<0.2	0.1	<0.2	0.1/0.1	<0.2
Total xylenes*	300	0.1	<0.4/<0.4	<0.4	<0.4/<0.4	0.2	0.2	<0.4	0.1	<0.4	<0.4	<0.4	0.1	<0.4	0.1/0.1	<0.4
Chlorobenzene	80	<0.2	<0.2/<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2
1,4–dichlorobenzene	5	0.2	<0.2/<0.2	<0.2	<0.2/<0.2	<0.2	0.2	0.2	<0.2	<0.2	0.3	<0.2	<0.2	<0.2	0.1/0.1	<0.2
1,3–dichlorobenzene		0.1	<0.2/<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2
1,2–dichlorobenzene	200	0.1	<0.2/<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2
Chloroform		<0.2	<0.2/<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2/0.2	0.2
Vinyl chloride		0.7	<0.1/<0.1	<0.1	<0.1/<0.1	<0.1	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	<0.1	<0.1/<0.1	<0.1
Chloroethane		<0.2	<0.2/<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	<0.2/<0.2	<0.2
1,1–dichloroethane		1.7	2.4/2.2	0.2	<0.2/<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.5	0.1	1.5	0.9	<0.2/<0.2	<0.2
1,1–dichloroethene		<0.5	<0.5/<0.5	<0.5	<0.5/<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.2/0.3	<0.5
cis–1,2–dichloroethene		1.2	1.8/1.6	<0.2	<0.2/<0.2	0.2	<0.2	<0.2	<0.2	<0.2	0.4	<0.2	1.4	0.9	<0.2/<0.2	<0.2
1,1,1–trichloroethane		<0.2	<0.2/<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/0.1	<0.2
Trichloroethene	50	0.6	0.6/0.6	<0.2	<0.2/<0.2	0.1	<0.2	<0.2	<0.2	<0.2	0.2	0.2	0.4	0.2	<0.2/<0.2	<0.2
Tetrachloroethane		0.2	0.2/0.1	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/1.7	0.4
Bromodichloromethane		<0.2	<0.2/<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.1/0.1	0.1
Dibromochloromethane		<0.2	<0.2/<0.2	<0.2	<0.2/<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2/0.1	<0.2

TABLE 7
GROUNDWATER VOC RESULTS - SUMMARY OF DETECTED COMPOUNDS - CRA FIELD PROGRAM
JANNOCK BRICK DEVELOPMENT LANDS, BURLINGTON, ONTARIO

Well:		OW1A-93		OW1B-93		OW2A-9		OW2B-93		OW3-93		OW4-93		PW-1		PW-3	
Sampling Round:		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Compound (ug/L)	ODWO																
Benzene	5	0.4	<0.5	<0.1	<0.5	0.1	<0.5	0.2	<0.5	<0.1	<0.5	1.9	<0.5	-	<0.5	-	<0.5
Toluene	24	3.9	<0.5	0.5	<0.5	1.2	<0.5	0.3	<0.5	0.3	<0.5	1.1	<0.5	-	<0.5	-	<0.5
Ethyl Benzene	2.4	0.4	<0.5	0.2	<0.5	0.2	<0.5	<0.2	<0.5	<0.2	<0.5	<0.2	<0.5	-	<0.5	-	<0.5
o-xylene		0.7	<0.5	0.2	<0.5	0.3	<0.5	0.1	<0.5	0.1	<0.5	0.6	<0.5	-	<0.5	-	<0.5
m&p-xylenes		1.1	<0.5	0.6	<0.5	0.7	<0.5	0.3	<0.5	0.3	<0.5	1.4	<0.5	-	<0.5	-	<0.5
Total xylenes*	300	1.8	<1.0	0.8	<1.0	1.0	<1.0	0.4	<1.0	0.4	<1.0	2.0	<1.0	-	<1.0	-	<1.0
Chlorobenzene	80	<0.2	<0.5	<0.2	<0.5	<0.2	<0.5	<0.2	<0.5	<0.2	<0.5	63.3	11.0	-	<0.5	-	<0.5
1,4-dichlorobenzene	5	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	0.2	<1.0	<0.2	<1.0	1.6	<1.0	-	<1.0	-	<1.0
1,2-dichlorobenzene	200	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	0.1	<1.0	-	<1.0	-	<1.0
1,1,1-trichloroethane		<0.2	<1.0	<0.2	<1.0	<0.2	1.5	<0.2	<1.0	<0.2	1.1	<0.2	<1.0	-	<1.0	-	<1.0

* Total xylenes is a sum of o-xylene and m&p-xylenes
"-" signifies not tested

TABLE 8
SURFACE WATER INORGANIC CHEMISTRY RESULTS - GOLDER ASSOCIATES FIELD PROGRAM
JANNOCK BRICK DEVELOPMENT LANDS, BURLINGTON, ONTARIO

Station	Alkalinity (mg/L as CaCO3)	Chloride (mg/L)	Sulphate (mg/L)	Ammonia (mg/L as N)	TKN* (mg/L)	Phenols (ug/L)	BOD (mg/L)	COD (mg/L)	Total Phophorus (mg/L)
SW-A	239	7.30	63.0	<0.02	0.17	<0.0005	0.2	8	0.025
SW-B	235	10.8	66.3	<0.02	0.18	<0.0005	0.2	9	0.035
SW-C	245	31.4	185	<0.02	0.25	<0.0005	0.3	14	0.028
SW-D	251/250	26.1/26.5	144/148	0.03/<0.02	0.29	<0.0005	0.2/0.5	15/14	0.040/0.03
Provincial Water Quality Objective	**	-	-	***	-	1	-	-	-

Station	Total Suspended Solids (mg/L)	Hardness (mg/L)	Total Cyanide (mg/L)	Fluoride (mg/L)	Mercury (mg/L)	Silver (mg/L)	Aluminum (mg/L)	Arsenic (mg/L)	Boron (mg/L)
SW-A	3.7	283.4	<0.001	0.2	<0.00005	<0.005	<0.05	<0.1	0.15
SW-B	4.6	286.2	<0.001	0.2	<0.00005	<0.005	<0.05	<0.1	0.15
SW-C	5.4	388.1	<0.001	0.2	<0.00005	<0.005	<0.05	<0.1	0.24
SW-D	3.8/3.8	377.9/373.3	<0.001/<0.001	0.2/0.3	<0.00005/<0.00005	<0.005/<0.005	<0.05/<0.05	<0.1/<0.1	0.27/0.26
Provincial Water Quality Objective	-	-	0.005	-	0.0002	0.0001	0.005-1.0 (pH dependent)	0.1	-

Station	Barium (mg/L)	Berillium (mg/L)	Bismuth (mg/L)	Calcium (mg/L)	Cadmium (mg/L)	Cobalt (mg/L)	Chromium (mg/L)	Copper (mg/L)	Iron (mg/L)
SW-A	0.045	<0.0005	<0.1	74.8	<0.005	<0.1	<0.1	<0.1	0.02
SW-B	0.048	<0.0005	<0.1	78.0	<0.005	<0.1	<0.1	<0.1	<0.1
SW-C	0.053	<0.0005	<0.1	107	<0.005	<0.1	<0.1	<0.1	0.02
SW-D	0.064/0.06	<0.0005/<0.0005	<0.1/<0.1	101/99.1	<0.005/<0.005	<0.1/<0.1	<0.1/<0.1	<0.1/<0.1	0.02/<0.01
Provincial Water Quality Objective	-	-	-	-	0.0002	-	0.1	0.005	0.3

TABLE 8
SURFACE WATER INORGANIC CHEMISTRY RESULTS - GOLDER ASSOCIATES FIELD PROGRAM
JANNOCK BRICK DEVELOPMENT LANDS, BURLINGTON, ONTARIO

Station	Potassium (mg/L)	Magnesium (mg/L)	Manganese (mg/L)	Molybdenu (mg/L)	Sodium (mg/L)	Nickle (mg/L)	Lead (mg/L)	Sulphur (mg/L)
SW-A	3	23.3	0.03	<0.05	13.0	<0.05	<0.05	20.6
SW-B	3	22.0	0.01	<0.05	13.5	<0.05	<0.05	21.8
SW-C	3	28.9	0.01	<0.05	38.0	<0.05	<0.05	59.7
SW-D	6/6	30.1/30.4	0.02/<0.01	<0.05/ <0.05	26.3/26.4	<0.05/ <0.05	<0.05/ <0.05	47.4/47.9
Provincial Water Quality Objective	-	-	-	-	-	0.025	0.025	-

Station	Antimony (mg/L)	Selenium (mg/L)	Silicon (mg/L)	Tin (mg/L)	Strontium (mg/L)	Titanium (mg/L)	Vanadium (mg/L)	Zinc (mg/L)
SW-A	<0.1	<0.1	2.25	<0.1	0.740	<0.005	<0.005	<0.01
SW-B	<0.1	<0.1	2.38	<0.1	0.768	<0.005	<0.005	<0.01
SW-C	<0.1	<0.1	2.40	<0.1	0.768	<0.005	<0.005	<0.01
SW-D	<0.1/<0.1	<0.1/<0.1	2.89/2.87	<0.1/<0.1	1.28/1.28	<0.005/ <0.005	0.006/ <0.005	0.01/ <0.01
Provincial Water Quality Objective	-	0.1	-	-	-	-	-	0.030

Notes:
* Total Kjeldhal Nitrogen
** Alkalinity should not be decreased by more than 25% of natural concentrations
*** PWQO for un-ionized ammonia varies with temperature and pH

TABLE 9
SURFACE WATER INORGANIC CHEMISTRY RESULTS - CRA FIELD PROGRAM
JANNOCK BRICK DEVELOPMENT LANDS, BURLINGTON, ONTARIO

STATION	Alkalinity (mg/L as CaCO3)	Chloride (mg/L)	Sulphate (mg/L)	Ammonia (mg/L as N)	TKN* (mg/L)	Phenols (ug/L)	Fecal Coliform (#/50mL)	Total Coliform (#/50mL)	Fecal Streptococcus (#/50mL)
SW1-87	268	24.9	70.2	0.09	0.23	<1.0	<1	<1	<1
SW4-87	240	35.1	85.1	0.12	0.32	<1.0	<1	<1	<1
SW5-87	340	168	90.3	0.14	0.17	<1.0	<1	<1	<1
SW6-87	259	16.2	62.6	<0.02	0.42	<1.0	<1	8	<1
SW7-87	341	296	307	0.90	1.06	<1.0	<1	48	<1
SW8-87	233	31.8	51.9	0.08	0.58	<1.0	<1	8	<1
SW9-87	258	5.02	95.1	<0.02	0.16	<1.0	<1	24	<1
SW10-87	245	19.1	67.2	<0.02	0.49	<1.0	<1	20	<1
SW11-87	156	59.2	46.4	<0.02	0.33	<1.0	<1	50	22
SW12-87	224	7.09	35.5	<0.02	0.28	<1.0	<1	2	<1
SW13-88	265	56.5	86.2	0.18	0.32	<1.0	<1	12	2
SW9A-93	239	6.81	59.1	<0.02	0.96	<1.0	<1	38	<1
SW 13-93	268	22.4	58.9	0.07	0.57	<1.0	<1	8	<1
SW14-93	370	95.4	86.7	2.57	2.80	<1.0	<1	<1	<1
SW15-93	194	18.7	39.5	<0.02	1.68	<1.0	<1	2	<1
Provincial Water Quality Objectiv	**	-	-	***	-	1	100	1000	-

* Total Kjeldhal Nitrogen
** Alkalinity should not be decreased by more than 25% of natural concentrations
*** PWQO for un-ionized ammonia varies with temperature and pH

Table 10
Field Chemistry Data - Surface Water Samples
Canada Brick Site, Burlington, Ontario

Station	Date Sampled	Temp. (C)	Cond. (umhos)	pH
SW-A	April 6, 1993	1	500	8.3
SW-B	April 6, 1993	2	500	9.2
SW-C	April 6, 1993	6	700	9.4
SW-D	April 6, 1993	1	700	8.7

TABLE 11
SURFACE WATER VOC RESULTS - SUMMARY OF DETECTED COMPOUNDS
JANNOCK BRICK DEVELOPMENT LANDS, BURLINGTON, ONTARIO

Compound (ug/L)	SW-A	SW-B	SW-C	SW-D	Trip Blank
Benzene	<0.1	<0.1	<0.1	**<0.1/0.1**	**<0.1/0.1**
Toluene	**0.1**	<0.2	<0.2	**0.1/0.2**	**<0.2/0.2**
Ethyl Benzene	<0.2	<0.2	<0.2	<0.2/<0.2	<0.2/<0.2
m&p-xylenes	**0.1**	<0.2	<0.2	**<0.2/0.1**	**0.1/0.1**
1,1-dichloroethene	<0.2	<0.2	<0.2	<0.2/<0.2	**0.2/0.3**
Trichloroethene	<0.2	<0.2	**0.3**	<0.2/<0.2	<0.2/<0.2
1,1,1-trichloroethane	<0.2	<0.2	<0.2	<0.2/<0.2	**<0.2/0.1**
Tetrachloroethene	<0.2	<0.2	<0.2	<0.2/<0.2	**<0.2/1.7**
Chloroform	<0.2	<0.2	<0.2	**0.2/<0.2**	**0.2/0.2**
Bromodichloromethane	<0.2	<0.2	<0.2	<0.2/<0.2	**0.1/0.1**
Dibromrochloromethane	<0.2	<0.2	<0.2	<0.2/<0.2	**<0.2/0.1**
1,4-dichlorobenzene	<0.2	<0.2	<0.2	<0.2/<0.2	**0.1/0.1**

* Total xylenes is a sum of o-xylene and m&p-xylenes

TABLE 12

JANNOCK BRICK GROUP
LATERAL LANDFILL GAS MONITORING
ADJACENT TO THE HALTON REGION LANDFILL
BURLINGTON, ONTARIO

Gas Probe	Ground Elevation	Top of Screen Elevation	March 30, 1993		March 31, 1993		April 1, 1993		April 5, 1993		April 14, 1993		April 14, 1993[2]		April 16, 1993	
			Gas	Water Level (1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation
GA-1-93	130.89	129.68	N.D.	DRY			N.D.	N.M.	N.D.	129.69	N.D.	129.58	N.D.	129.56	N.D.	129.69
GA-2-93	132.10	130.27	N.D.	DRY			N.D.	N.M.	N.D.	129.89	N.D.	129.20	N.D.	128.90	N.D.	129.56
GA-3A-93	131.45	129.92	N.D.	DRY			N.D.	N.M.	N.D.	N.M.	N.D.	129.25	N.D.	128.65	N.D.	128.79
GA-4-93	131.12	128.83	N.D.	DRY			N.D.	N.M.	N.D.	129.39	N.D.	128.82	N.D.	127.66	N.D.	128.75
GA-5-93	127.60	126.37	N.D.	DRY	N.D.	DRY	N.D.	N.M.	N.D.	126.48	N.D.	126.19	N.D.	125.30	N.D.	126.19

Gas Probe	Ground Elevation	Top of Screen Elevation	April 16, 1993[2]		April 23, 1993		April 23, 1993[2]		April 30, 1993		April 30, 1993[2]	
			Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation
GA-1-93	130.89	129.68	N.D.	129.12	N.D.	129.67	N.D.	129.22	N.D.	129.65	N.D.	129.38
GA-2-93	132.10	130.27		N.P.	N.D.	129.90		N.P.	N.D.	129.99		N.P.
GA-3-93	131.45	129.92		N.P.	N.D.	128.71		N.P.	N.D.	129.60		N.P.
GA-4-93	131.12	128.83	N.D.	127.97	N.D.	129.54		N.P.	N.D.	128.99	N.D.	127.92
GA-5-93	127.60	126.37		N.P.	N.D.	126.44	N.D.	125.16	N.D.	126.32	N.D.	125.16

Notes:
N.D. = Not Detected, using MSA gasscope Model 62S
N.M. = Not Monitored
N.P. = No Pumping required
1 Reference to top of MH 31 Halton Region Landfill Elevation 432.00 ft (131.67 m)
2 After purging water

May, 1993

TABLE 12 (CONT'D)

JANNOCK BRICK GROUP
LATERAL LANDFILL GAS MONITORING
ADJACENT TO THE HALTON REGION LANDFILL
BURLINGTON, ONTARIO

Gas Probe	Ground Elevation	Top of Screen Elevation	May 7, 1993		May 7, 1993[2]		May 14, 1993		May 21, 1993			
			Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation
GA-1-93	130.89	129.68	N.M.	129.46	N.D.	128.99	N.D.	129.35	N.D.	129.10		
GA-2-93	132.10	130.27	N.D.	129.70		N.P.	N.D.	129.45	N.D.	129.10		
GA-3-93	131.45	129.92	N.D.	129.53		N.P.	N.D.	129.40	N.D.	129.31		
GA-4-93	131.12	128.83	N.D.	128.29	N.D.	127.46	N.D.	128.28	N.D.	129.09		
GA-5-93	127.60	126.37	N.D.	126.11	N.D.		N.D.	126.03	N.D.	125.87		

Gas Probe	Ground Elevation	Top of Screen Elevation										
			Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation
GA-1-93	130.89	129.68										
GA-2-93	132.10	130.27										
GA-3A-93	131.45	129.92										
GA-4-93	131.12	128.83										
GA-5-93	127.60	126.37										

Notes:
N.D. = Not Detected, using MSA gasscope Model 62S
N.M. = Not Monitored
N.P. = No Pumping required
1 Reference to top of MH 31 Halton Region Landfill Elevation 432.00 ft (131.67 m)
2 After purging water

May, 1993

TABLE 13

JANNOCK BRICK GROUP
LATERAL LANDFILL GAS MONITORING
ADJACENT TO BAYVIEW PARK LANDFILL
BURLINGTON, ONTARIO

Gas Probe	Ground Elevation	Top of Screen Elevation	March 3, 1993		March 15, 1993		March 19, 1993		March 26, 1993		April 5,1993	
			Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation
GP-1(OW2-93)	129.38	128.47	Not Yet Installed		N.M.	N.M.	N.D.	N.M.	N.D.	N.M.	N.D.	N.M.
GP-2(OW4-93)	142.92	142.01	Not Yet Installed		N.M.	N.M.	N.D.	N.M.	N.D.	N.M.	N.D.	N.M.
GP-3(OW3-93)	132.44	131.02	N.D.	N.M.	N.D.	N.M.	N.D.	N.M.	N.D.	N.M.	N.D.	N.M.
OW1B-93	124.88	118.78	Not Yet Installed		N.M.	N.M.	N.D.	N.M.	N.D.	N.M.	N.D.	N.M.
PW-3	128.43	126.90	N.D.	N.M.	N.M.	N.M.	N.D.	N.M.	N.D.	N.M.	N.D.	N.M.

Gas Probe	Ground Elevation	Top of Screen Elevation	April 14, 1993		April 16, 1993		April 23, 1993		April 30, 1993		April 30, 1993[2]	
			Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation
GP-1(OW2-93)	129.38	128.47	N.D.	DRY to 128.04	N.D.	127.59	N.D.	127.76	N.D.	127.65		N.P.
GP-2(OW4-93)	142.92	142.01	N.D.	141.42	N.D.	142.31	N.D.	142.08	N.D.	142.22		141.52
GP-3(OW3-93)	132.44	131.02	N.D.	132.54	N.D.	132.58	N.D.	N.M.		N.M.	N.D.	N.M.
OW1B-93	124.88	118.78	N.D.	124.35	N.D.	124.37	N.D.	124.44	N.D.	N.M.		N.M.
PW-3	128.43	126.90	N.D.	126.97	N.D.	126.91	N.D.	126.99	N.D.	N.M.		N.M.

Notes:
N.D. = Not Detected, using MSA gasscope Model 62S
N.M. = Not Monitored
N.P. = No Pumping required
1 Geodetic datum referenced to Control Monument 00165307 Elevation 143.828 m a.s.l.
2 After purging water

May, 1993

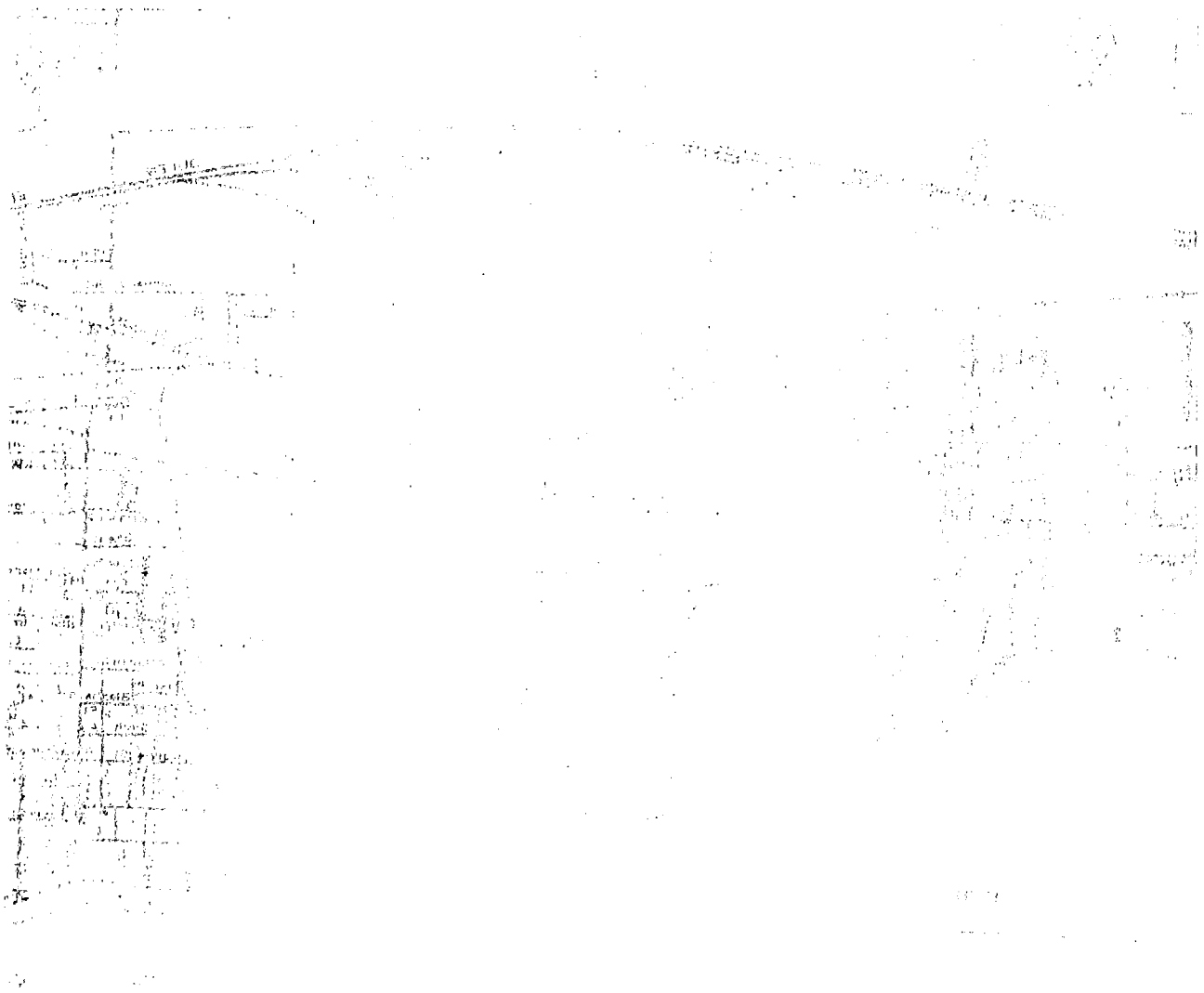
TABLE 13 (CONT'D)

JANNOCK BRICK GROUP
LATERAL LANDFILL GAS MONITORING
ADJACENT TO BAYVIEW PARK LANDFILL
BURLINGTON, ONTARIO

Gas Probe	Ground Elevation	Top of Screen Elevation	May 3, 1993		May 3, 1993[2]		May 7, 1993		May 7, 1993[2]		May 17, 1993	
			Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation
GP-1(OW2-93)	129.38	128.47		N.M.	N.M.		N.D.	127.66		N.P.	N.D.	127.75
GP-2(OW4-93)	142.92	142.01		N.M.	N.M.		N.D.	141.94	N.D.	141.54	N.D.	141.93
GP-3(OW3-93)	132.44	131.02	N.D.	132.57	N.D.	130.08	N.D.	132.36	N.D.	129.90	N.D.	131.92
OW1B-93	124.88	118.78	N.D.	124.28	N.M.		N.D.	124.18		N.P.	N.D.	124.31
PW-3	128.43	126.90	N.D.	126.90	N.M.		N.D.	126.79		N.P.	N.D.	126.67

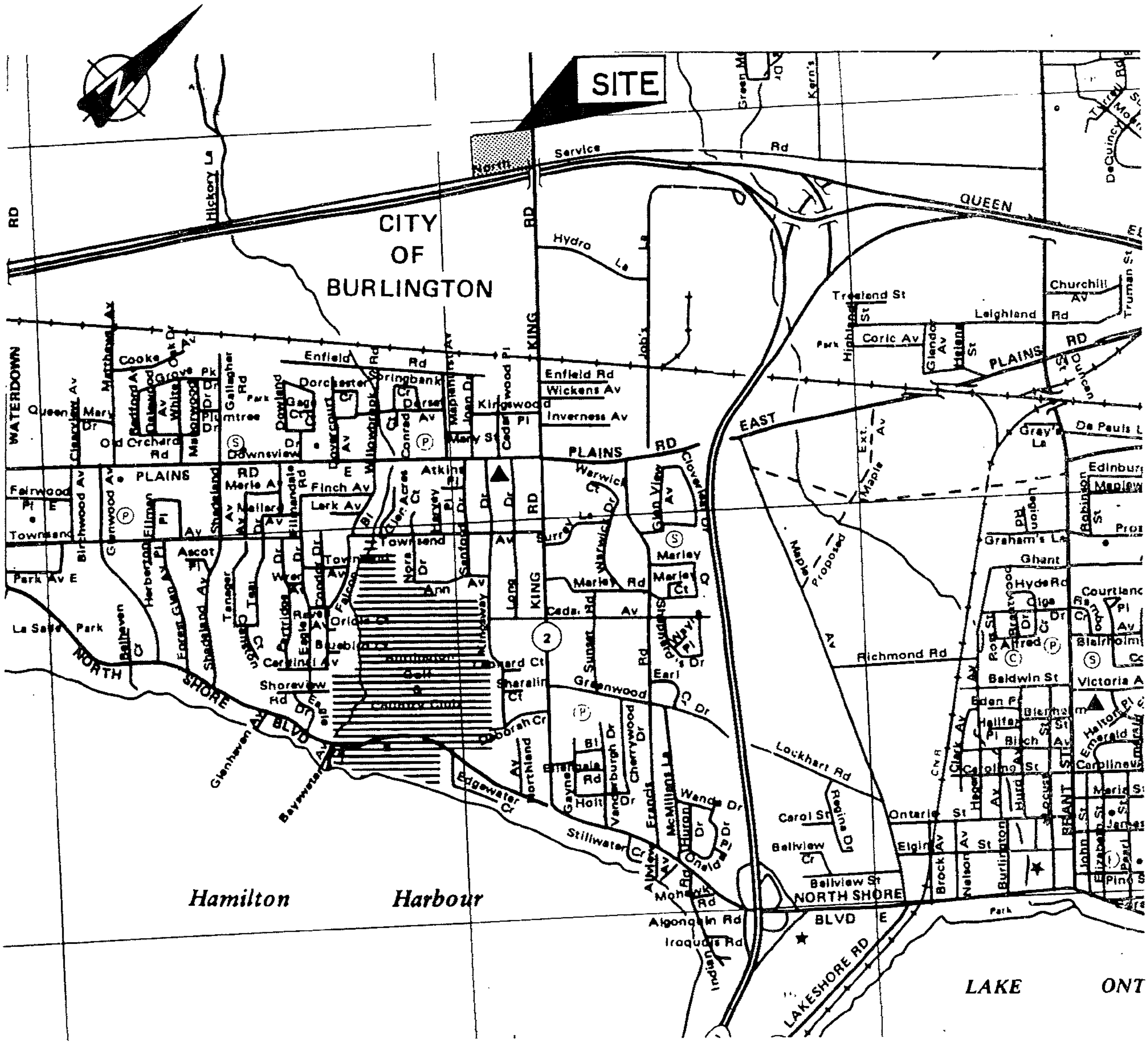
Gas Probe	Ground Elevation	Top of Screen Elevation	May 17, 1993[2]		May 21, 1993		May 21, 1993[2]					
			Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation	Gas	Water Level(1) Elevation
GP-1(OW2-093)	129.38	128.47		N.P.	N.D.	127.72		N.P.				
GP-2(OW4-93)	142.92	142.01	N.D.	141.63	N.D.	141.88		N.P.				
GP-3(OW3-93)	132.44	131.02	N.D.	129.84	N.D.	131.71	N.D.	130.81				
OW1B-93	124.88	118.78		N.P.	N.D.	124.05		N.P.				
PW-3	128.43	126.90		N.P.	N.D.	126.46		N.P.				

Notes:
N.D. = Not Detected, using MSA gasscope Model 62S
N.M. = Not Monitored
N.P. = No Pumping required
1 Geodetic datum referenced to Control Monument 00165307 Elevation 143.828 m a.s.l.1 Reference to top of MH 31 Halton Region Landfill Elevation 432.00 ft (131.67 m)
2 After purging water



SITE LOCATION MAP

FIGURE 1



0 — 2000 ft
0 — SCALE — 500 m

Date FEB / 1993

Project 911-1602

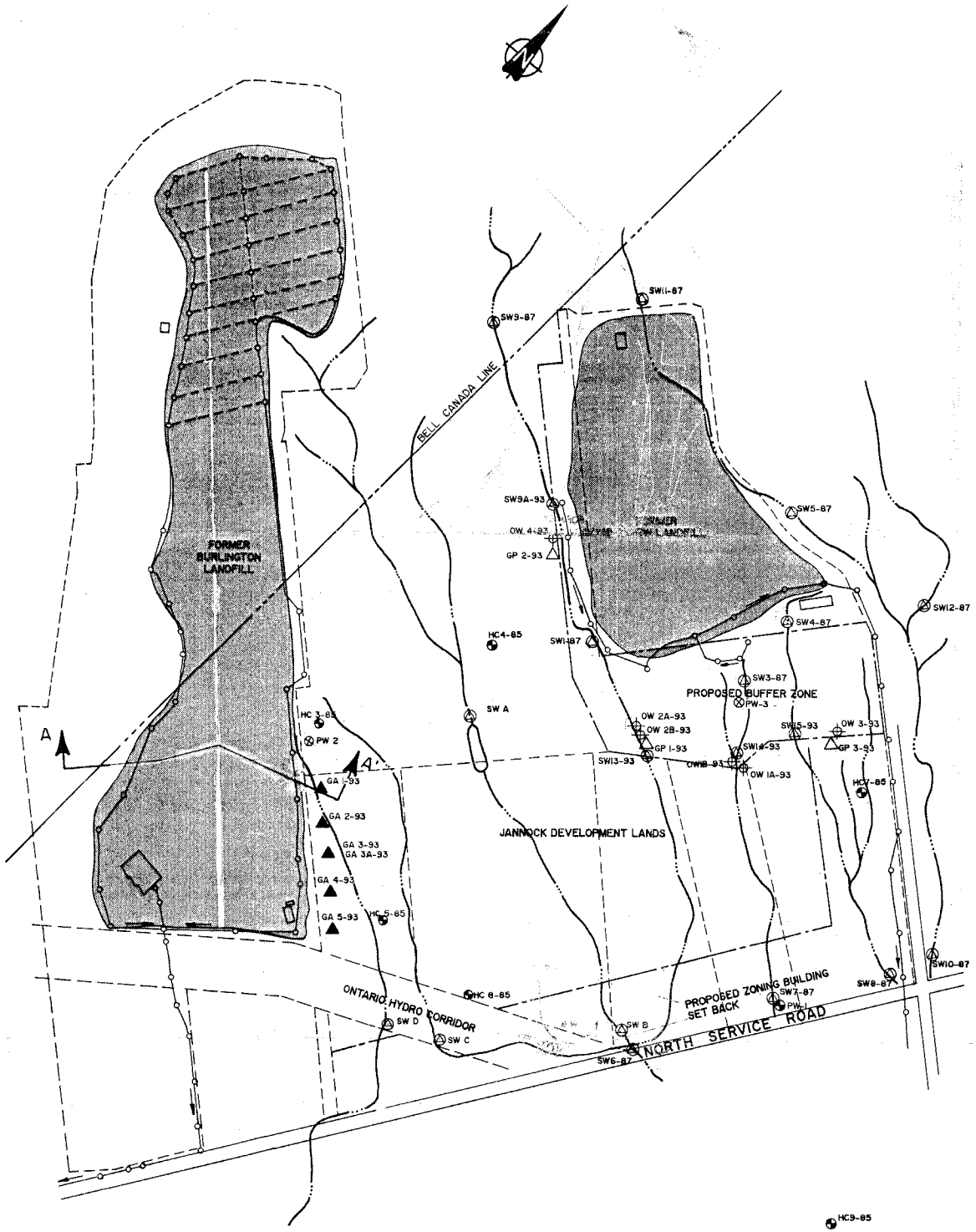
Golder Associates

Drawn DV

Chkd. TAM

JANNOCK BRICK GROUP
MONITORING WELL AND SURFACE WATER SAMPLING LOCATIONS

FIGURE 2



LEGEND

- LIMIT OF LANDFILL MATERIAL
- PROPOSED BUFFER ZONE BOUNDARIES
- PROPERTY OUTLINES
- EXISTING TOE DRAIN SYSTEM (MANHOLES INDICATED)
- LEACHATE UNDERDRAIN SYSTEM (MANHOLES INDICATED)

- PW 2 — PUMPING WELL
- HC 5 — HYDROLOGY CONSULTANTS MONITORING WELL
- MB 5 — MORRISON BEATTY MONITORING WELL
- OW 1-93 — CRA / GOLDER MONITORING WELL
- SW A — SURFACE WATER MONITORING LOCATION
- GA 1-93 — GOLDER GAS PROBE
- GP 2-93 — CRA / GOLDER GAS PROBE

* ALL LOCATIONS ARE APPROXIMATE

SCALE

0 40 80 120 160 200 240 METRES

1 : 4000

Date MAY / 1993
Project 911-1602

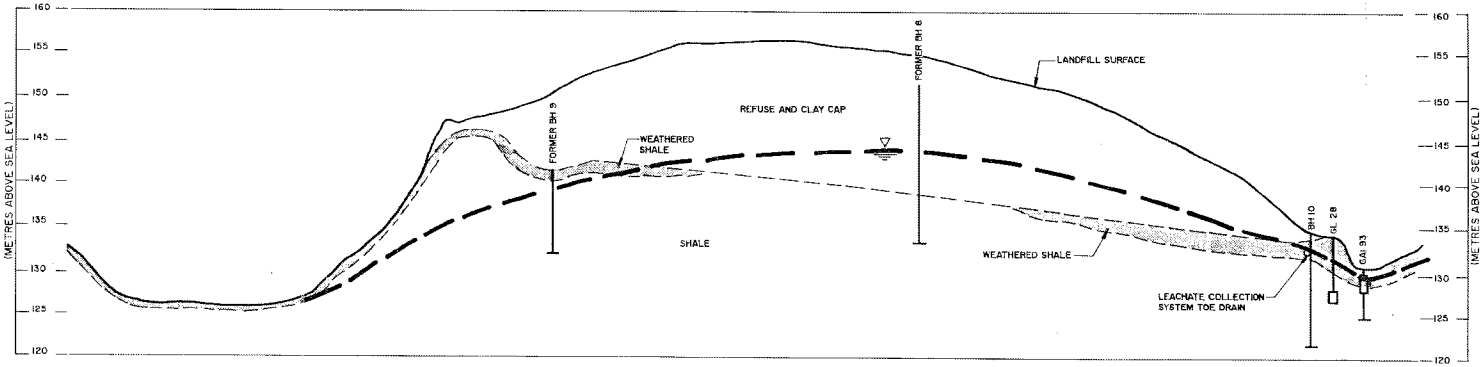
Golder Associates

Drawn BY/KD
Chkd

000100

JANNOCK BRICK GROUP
HALTON REGIONAL LANDFILL
CROSS-SECTION A - A'

FIGURE 3



LEGEND

INFERRED GROUNDWATER TABLE, SPRING 1993

EXISTING MONITORING WELL SHOWING LOCATION OF WELL SCREEN

BOREHOLE LOCATION

NOTES

1. MODIFIED AFTER M.M. DILLON LIMITED, JANUARY 1980 AND GARTNER LEE, MARCH 1992.
2. THIS FIGURE SHOULD BE READ IN CONJUNCTION WITH THE ACCOMPANYING REPORT.

SCALE
HORIZONTAL 1:1000
VERTICAL 1:300

Date MAY / 1993
Project 911-1602

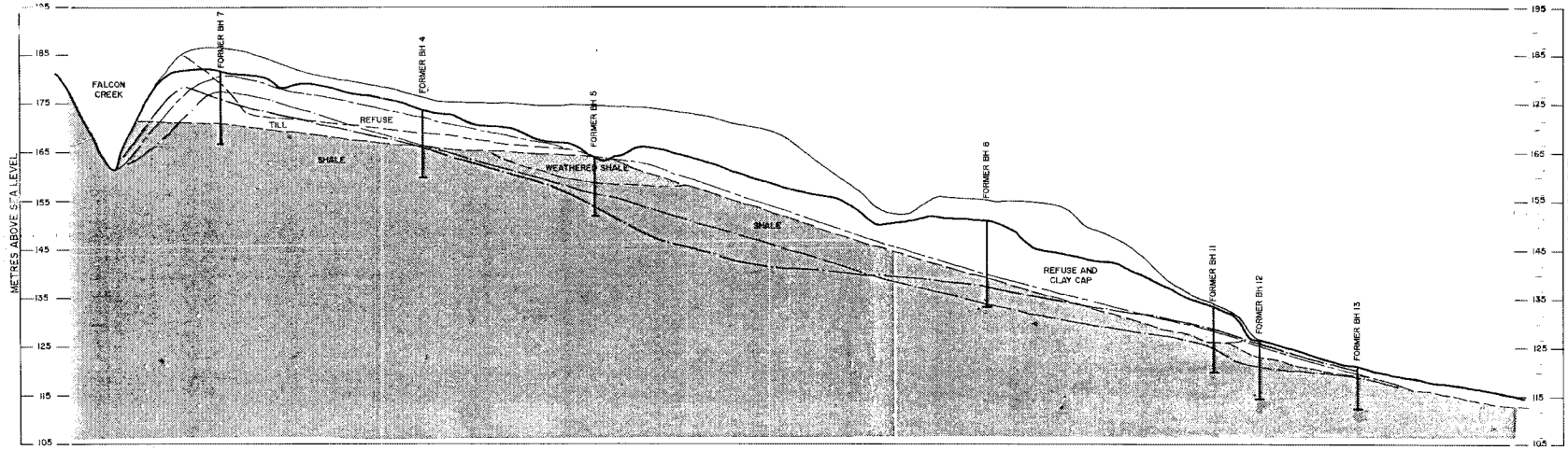
Golder Associates

Drawn DV
Chkd

000101

JANNOCK BRICK GROUP
FORMER BURLINGTON LANDFILL
CROSS SECTION B - B'

FIGURE 4



LEGEND

- LANDFILL SURFACE - SEPTEMBER, 1991
- REFUSE SURFACE - JUNE, 1979
- INFERRED GROUNDWATER TABLE - JUNE, 1979
- INFERRED POTENTIOMETRIC SURFACE - JUNE, 1979
- INFERRED POTENTIOMETRIC SURFACE - SEPTEMBER, 1991

NOTE

MODIFIED AFTER M.M. DILLON LIMITED, JANUARY 1980 AND GARTNER LEE, MARCH 1992.

SCALE

HORIZONTAL 1:3,000
VERTICAL 1:500

Date FEB / 1993
Project 911-1602

Golder Associates

Drawn DV
Chkd RM

000102

APPENDIX A

FIELD PROCEDURES

July, 1993

911-1602

APPENDIX A - FIELD METHODS

A.1 Borehole Drilling and Gas Probe Installation

Gas monitoring probes were installed at 5 locations on the Jannock development site during March 29 to 31, 1993. The location of the probes, GA1-93 to GA5-93, are shown on Figure 2. At one location, GA3-93, two probes were installed at different depths below ground surface. Probe GA3-93 is the deeper probe (approximately 6 metres below ground surface) and probe GA3A-93 is the shallower probe (approximately 3 metres below ground surface). All gas probe locations are shown on Figure 2 of this report.

Borehole drilling was carried out using an Acker AD-II power auger equipped with 108 mm hollow-stem augers, owned and operated by Longyear Canada Inc. Boreholes GA1-93 was advanced through the surficial soils and weathered shale using hollow stem augers, and soil samples were obtained at approximately 0.7 metre intervals using a split-spoon sampler. The deeper portion of the borehole was advanced through shale bedrock using diamond drilling with an HQ size drill bit, advanced through the hollow stem augers. The remainder of the boreholes were advanced using hollow-stem augers only, through unconsolidated soils and weathered shale. Gas probes were installed in each borehole. The probes were constructed of 13 mm diameter, schedule 40 PVC riser pipes and 1.5 metre lengths of hand-slotted, 13 mm diameter, schedule 40 PVC screens wrapped in PVC filter socks. Gas probe screens were surrounded with a silica sand filter pack. A bentonite seal was placed above the sand pack to ground surface. Details of the subsurface stratigraphy and gas probe construction at each location are shown on the Record of Borehole Sheets included with this report.

The ground surface and top of casing elevation at each gas probe was surveyed by Golder Associates field staff. Elevations were referenced to the top of manhole MH31 at the Halton Regional Landfill, with a reported elevation of 432.00 ft asl (131.67 m asl).

A.2 Gas Monitoring

The concentration of total combustible gases, including methane, was monitored by Golder Associates staff on an approximately weekly basis at 10 gas probes/wells: GA1-93, GA2-93, GA3-93, GA4-93, GA5-93, GP1-93, GP2-93, GP3-93, OW1B-93, and PW-3. The locations of these gas probes/wells are shown on Figure 2. Monitoring was conducted with a Gastechtor total

combustible gas monitor calibrated to a 100 ppm hexane gas standard. Readings of total combustible gases are expressed as a percent of the hexane lower explosive limit (LEL) concentration of 11,000 ppm. Therefore, a reading of 100% LEL is equal to 11,000 ppm, hexane-equivalent units.

Following gas monitoring at each location, the depth to water in the gas probe or well was determined with an electronic water level metre. During several monitoring events, if the gas probe screen was below the water table, water was pumped from the probe standpipe using a peristaltic pump, and a repeat gas measurement was taken.

A.3 Groundwater and Surface Water Monitoring

Groundwater sampling of selected monitoring wells was performed by Golder Associates staff in two rounds of sampling, on April 3 to 12, 1993, and on May 7, 1993. The wells which were sampled in each round are shown on Table 2 of this report. Groundwater levels were determined with an electronic water level metre prior to well development and sampling. Wells were developed prior to sampling by removing at least 3 well volumes of water from each well. Purge water pH, temperature and electrical conductivity were monitored to confirm well development. Immediately after well development, groundwater samples were collected using dedicated or pre-cleaned sampling pumps. Well PW-2 was sampled using a submersible Redi-Flo-2 pump. All other wells were sampled using dedicated HDPE tubing and foot-valves (Waterra pumps). Groundwater samples were collected into laboratory-supplied, pre-cleaned sample containers. Samples for metals analysis were filtered and acidified in the field. All samples were transported in refrigerated containers to Barringer Laboratories for analysis.

Surface water sampling was conducted by Golder Associates staff on April 12, 1993. Samples were collected at 4 locations down-stream from the Halton Regional Landfill, at stations SW-A, SW-B, SW-C and SW-D. Station locations are shown on Figure 2. Samples were collected directly into laboratory-supplied, pre-cleaned containers. Temperature, electrical conductivity, and pH were measured in the field at each station. Samples were transported in refrigerated containers to Barringer Laboratories for analysis.

APPENDIX B

LABORATORY ANALYTICAL DATA SHEETS

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

CLIENT: GOLDER ASSOCIATES LTD.
PROJECT REFERENCE: 911-1602
W.O. # 93-5004V
MATRIX:WATER

VOLATILE ORGANIC COMPOUNDS

DATE: 20-Apr-93

UNITS: MICROGRAMS/LITER (UG/L)

	COMPOUND	M.D.L. UG/L	REAGENT BLANK	PW2	PW2 DUP.	HW8-4	HC-3-85-C	HC-3-85-E	HC-5-85-2
1	CHLOROMETHANE	1.0	ND	ND	ND	ND	ND	ND	ND
2	VINYL CHLORIDE	1.0	ND	*0.8	*0.7	ND	*0.7	ND	ND
3	BROMOMETHANE	1.0	ND	ND	ND	ND	ND	ND	ND
4	CHLOROETHANE	1.0	ND	*0.4	*0.4	ND	ND	ND	ND
5	TRICHLOROFLUOROMETHANE	0.5	ND	ND	ND	ND	ND	ND	ND
6	1,1-DICHLOROETHENE	0.5	ND	ND	ND	ND	ND	ND	ND
7	DICHLOROMETHANE	1.0	ND	ND	ND	ND	ND	ND	ND
8	TRANS-1,2-DICHLOROETHENE	0.2	ND	ND	ND	ND	ND	ND	ND
9	1,1-DICHLOROETHANE	0.2	ND	1.5	1.3	ND	1.7	*0.1	ND
10	CIS-1,2-DICHLOROETHENE	0.2	ND	1.4	1.2	ND	1.2	ND	ND
11	CHLOROFORM	0.2	ND	ND	ND	ND	ND	ND	ND
12	1,1,1-TRICHLOROETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
13	CARBON TETRACHLORIDE	0.2	ND	ND	ND	ND	ND	ND	ND
14	BENZENE	0.1	ND	0.2	0.2	ND	0.4	ND	ND
15	1,2-DICHLOROETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
16	TRICHLOROETHENE	0.2	ND	0.4	0.3	ND	0.6	ND	ND
17	1,2-DICHLOROPROPANE	0.2	ND	ND	ND	ND	ND	ND	ND
18	BROMODICHLOROMETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
19	CIS-1,3-DICHLOROPROPENE	0.2	ND	ND	ND	ND	ND	ND	ND
20	TOLUENE	0.2	ND	*0.1	*0.1	ND	*0.1	ND	ND
21	TRANS-1,3-DICHLOROPROPENE	0.2	ND	ND	ND	ND	ND	ND	ND
22	1,1,2-TRICHLOROETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
23	TETRACHLOROETHENE	0.2	ND	ND	ND	ND	0.2	ND	ND
24	DIBROMOCHLOROMETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
25	1,2-DIBROMOETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
26	CHLOROBENZENE	0.2	ND	ND	ND	ND	ND	ND	ND
27	ETHYLBENZENE	0.2	ND	ND	ND	ND	ND	ND	ND
28	M-XYLENE & P-XYLENE	0.2	ND	*0.1	*0.1	ND	*0.1	ND	ND
29	O-XYLENE	0.2	ND	ND	ND	ND	ND	ND	ND
30	STYRENE	0.2	ND	ND	ND	ND	ND	ND	ND
31	BROMOFORM	0.5	ND	ND	ND	ND	ND	ND	ND
32	1,1,2,2-TETRACHLOROETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
33	1,3-DICHLOROBENZENE	0.2	ND	ND	ND	ND	*0.1	ND	ND
34	1,4-DICHLOROBENZENE	0.2	ND	ND	ND	ND	0.2	ND	ND
35	1,2-DICHLOROBENZENE	0.2	ND	ND	ND	ND	*0.1	ND	ND
SURROGATE STANDARD RECOVERIES:		AMOUNT		CONTROL LIMITS 70-130%					
	FLUOROBENZENE	2.3	112%	106%	98%	93%	110%	83%	99%
	4-BROMOFLUOROBENZENE	6.4	95%	96%	94%	96%	94%	95%	97%

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

CLIENT: GOLDER ASSOCIATES LTD. VOLATILE ORGANIC COMPOUNDS DATE: 20-Apr-93
PROJECT REFERENCE: 911-1602
W.O. # 93-5004V UNITS: MICROGRAMS/LITER (UG/L)
MATRIX:WATER

	COMPOUND	M.D.L. UG/L	HC-5-85-4	HC-8-85-3	HC-9-85-1	HC-9-85-2	SWA	SWA DUP.	SWB
1	CHLOROMETHANE	1.0	ND	ND	ND	ND	ND	ND	ND
2	VINYL CHLORIDE	1.0	ND	ND	ND	ND	ND	ND	ND
3	BROMOMETHANE	1.0	ND	ND	ND	ND	ND	ND	ND
4	CHLOROETHANE	1.0	ND	ND	ND	ND	ND	ND	ND
5	TRICHLOROFLUOROMETHANE	0.5	ND	ND	ND	ND	ND	ND	ND
6	1,1-DICHLOROETHENE	0.5	ND	ND	ND	*0.2	ND	ND	ND
7	DICHLOROMETHANE	1.0	ND	ND	ND	ND	ND	ND	ND
8	TRANS-1,2-DICHLOROETHENE	0.2	ND	ND	ND	ND	ND	ND	ND
9	1,1-DICHLOROETHANE	0.2	0.2	ND	ND	ND	ND	ND	ND
10	CIS-1,2-DICHLOROETHENE	0.2	0.2	ND	ND	ND	ND	ND	ND
11	CHLOROFORM	0.2	ND	ND	ND	0.2	ND	ND	ND
12	1,1,1-TRICHLOROETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
13	CARBON TETRACHLORIDE	0.2	ND	ND	ND	ND	ND	ND	ND
14	BENZENE	0.1	0.3	0.1	ND	ND	ND	ND	ND
15	1,2-DICHLOROETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
16	TRICHLOROETHENE	0.2	*0.1	ND	ND	ND	ND	ND	ND
17	1,2-DICHLOROPROPANE	0.2	ND	ND	ND	ND	ND	ND	ND
18	BROMODICHLOROMETHANE	0.2	ND	ND	ND	*0.1	ND	ND	ND
19	CIS-1,3-DICHLOROPROPENE	0.2	ND	ND	ND	ND	ND	ND	ND
20	TOLUENE	0.2	0.2	0.2	ND	ND	*0.1	*0.1	ND
21	TRANS-1,3-DICHLOROPROPENE	0.2	ND	ND	ND	ND	ND	ND	ND
22	1,1,2-TRICHLOROETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
23	TETRACHLOROETHENE	0.2	ND	ND	ND	ND	ND	ND	ND
24	DIBROMOCHLOROMETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
25	1,2-DIBROMOETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
26	CHLOROBENZENE	0.2	ND	ND	ND	ND	ND	ND	ND
27	ETHYLBENZENE	0.2	ND	ND	ND	ND	ND	ND	ND
28	M-XYLENE & P-XYLENE	0.2	0.2	*0.1	ND	*0.1	*0.1	*0.1	ND
29	O-XYLENE	0.2	ND	ND	ND	ND	ND	ND	ND
30	STYRENE	0.2	ND	ND	ND	ND	ND	ND	ND
31	BROMOFORM	0.5	ND	ND	ND	ND	ND	ND	ND
32	1,1,2,2-TETRACHLOROETHANE	0.2	ND	ND	ND	ND	ND	ND	ND
33	1,3-DICHLOROBENZENE	0.2	ND	ND	ND	ND	ND	ND	ND
34	1,4-DICHLOROBENZENE	0.2	ND	ND	ND	*0.1	ND	ND	ND
35	1,2-DICHLOROBENZENE	0.2	ND	ND	ND	ND	ND	ND	ND
SURROGATE STANDARD RECOVERIES:		AMOUNT	CONTROL LIMITS 70-130%						
	FLUOROBENZENE	2.3	112%	87%	97%	99%	102%	102%	98%
	4-BROMOFLUOROBENZENE	6.4	96%	96%	89%	96%	95%	95%	95%

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

CLIENT: GOLDER ASSOCIATES LTD.
PROJECT REFERENCE: 911-1602
W.O. # 93-5004V
MATRIX:WATER

VOLATILE ORGANIC COMPOUNDS

DATE: 20-Apr-93

UNITS: MICROGRAMS/LITER (UG/L)

	COMPOUND	M.D.L. UG/L	SWC	SWD	SWE	SWF
1	CHLOROMETHANE	1.0	ND	ND	ND	ND
2	VINYL CHLORIDE	1.0	ND	ND	ND	ND
3	BROMOMETHANE	1.0	ND	ND	ND	ND
4	CHLOROETHANE	1.0	ND	ND	ND	ND
5	TRICHLOROFLUOROMETHANE	0.5	ND	ND	ND	ND
6	1,1-DICHLOROETHENE	0.5	ND	ND	ND	*0.3
7	DICHLOROMETHANE	1.0	ND	ND	ND	ND
8	TRANS-1,2-DICHLOROETHENE	0.2	ND	ND	ND	ND
9	1,1-DICHLOROETHANE	0.2	ND	ND	ND	ND
10	CIS-1,2-DICHLOROETHENE	0.2	ND	ND	ND	ND
11	CHLOROFORM	0.2	ND	0.2	ND	0.2
12	1,1,1-TRICHLOROETHANE	0.2	ND	ND	ND	*0.1
13	CARBON TETRACHLORIDE	0.2	ND	ND	ND	ND
14	BENZENE	0.1	ND	ND	0.1	ND
15	1,2-DICHLOROETHANE	0.2	ND	ND	ND	ND
16	TRICHLOROETHENE	0.2	0.3	ND	ND	ND
17	1,2-DICHLOROPROPANE	0.2	ND	ND	ND	ND
18	BROMODICHLOROMETHANE	0.2	ND	ND	ND	*0.1
19	CIS-1,3-DICHLOROPROPENE	0.2	ND	ND	ND	ND
20	TOLUENE	0.2	ND	*0.1	0.2	0.2
21	TRANS-1,3-DICHLOROPROPENE	0.2	ND	ND	ND	ND
22	1,1,2-TRICHLOROETHANE	0.2	ND	ND	ND	ND
23	TETRACHLOROETHENE	0.2	ND	ND	ND	1.7
24	DIBROMOCHLOROMETHANE	0.2	ND	ND	ND	*0.1
25	1,2-DIBROMOETHANE	0.2	ND	ND	ND	ND
26	CHLOROBENZENE	0.2	ND	ND	ND	ND
27	ETHYLBENZENE	0.2	ND	ND	ND	ND
28	M-XYLENE & P-XYLENE	0.2	ND	ND	*0.1	*0.1
29	O-XYLENE	0.2	ND	ND	ND	ND
30	STYRENE	0.2	ND	ND	ND	ND
31	BROMOFORM	0.5	ND	ND	ND	ND
32	1,1,2,2-TETRACHLOROETHANE	0.2	ND	ND	ND	ND
33	1,3-DICHLOROBENZENE	0.2	ND	ND	ND	ND
34	1,4-DICHLOROBENZENE	0.2	ND	ND	ND	*0.1
35	1,2-DICHLOROBENZENE	0.2	ND	ND	ND	ND
SURROGATE STANDARD RECOVERIES:		AMOUNT	CONTROL LIMITS 70-130%			
	FLUOROBENZENE	2.3	99%	98%	94%	98%
	4-BROMOFLUOROBENZENE	6.4	98%	98%	99%	98%

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

CLIENT: GOLDER ASSOCIATES LTD.
PROJECT REFERENCE: 911-1602
W.O. # 93-5004V
MATRIX:WATER

VOLATILE ORGANIC COMPOUNDS

QUALITY CONTROL SPIKE PERCENT RECOVERIES

DATE: 20-Apr-93

	COMPOUND	AMOUNT UG/L	REAGENT SPIKE
1	CHLOROMETHANE	8.0	120%
2	VINYL CHLORIDE	8.0	114%
3	BROMOMETHANE	8.0	101%
4	CHLOROETHANE	8.0	105%
5	TRICHLOROFLUOROMETHANE	8.0	120%
6	1,1-DICHLOROETHENE	5.0	98%
7	DICHLOROMETHANE	5.0	107%
8	TRANS-1,2-DICHLOROETHENE	5.0	100%
9	1,1-DICHLOROETHANE	5.0	105%
10	CIS-1,2-DICHLOROETHENE	5.0	96%
11	CHLOROFORM	5.0	96%
12	1,1,1-TRICHLOROETHANE	5.0	103%
13	CARBON TETRACHLORIDE	5.0	104%
14	BENZENE	2.0	94%
15	1,2-DICHLOROETHANE	5.0	99%
16	TRICHLOROETHENE	5.0	97%
17	1,2-DICHLOROPROPANE	5.0	95%
18	BROMODICHLOROMETHANE	5.0	97%
19	CIS-1,3-DICHLOROPROPENE	5.0	104%
20	TOLUENE	2.0	94%
21	TRANS-1,3-DICHLOROPROPENE	5.0	112%
22	1,1,2-TRICHLOROETHANE	5.0	99%
23	TETRACHLOROETHENE	5.0	101%
24	DIBROMOCHLOROMETHANE	5.0	101%
25	1,2-DIBROMOETHANE	5.0	93%
26	CHLOROBENZENE	5.0	99%
27	ETHYLBENZENE	2.0	91%
28	M-XYLENE & P-XYLENE	4.0	90%
29	O-XYLENE	2.0	84%
30	STYRENE	2.0	85%
31	BROMOFORM	5.0	97%
32	1,1,2,2-TETRACHLOROETHANE	5.0	101%
33	1,3-DICHLOROBENZENE	5.0	94%
34	1,4-DICHLOROBENZENE	5.0	104%
35	1,2-DICHLOROBENZENE	5.0	88%

SURROGATE STANDARD RECOVERIES:

CONTROL LIMITS 70-130%

FLUOROBENZENE	2.3	95%
4-BROMOFLUOROBENZENE	6.4	100%

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

CLIENT: GOLDER ASSOCIATES LTD. VOLATILE ORGANIC COMPOUNDS DATE: 20-Apr-93
PROJECT REFERENCE: 911-1602
W.O. # 93-5004V
MATRIX:WATER

LEGEND: M.D.L. = METHOD DETECTION LIMIT
ND = NOT DETECTED
DUP. = DUPLICATE
* = DETECTED BELOW M.D.L. BUT PASSED COMPOUND IDENTIFICATION CRITERIA

ANALYTICAL METHOD:

The samples were analysed by purge & trap gas chromatography/mass spectrometry using the internal standard method of quantitation.

REPORT DISCUSSION:

The surrogate standard recoveries were within the control limits for the analytical method for all samples. The target compound quality control spike recoveries were in the normal range for the analytical method.

JOB APPROVED BY:

SIGNED:

Ron Corkum

RONALD CORKUM, M.Sc., C.Chem.
MANAGER, MASS SPECTROMETRY SECTION

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
Ronald J. Corkum
CHEMIST

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

CLIENT: GOLDER ASSOCIATES LTD.
PROJECT REFERENCE: 911-1602
W.O. # 93-5065V
MATRIX:WATER

VOLATILE ORGANIC COMPOUNDS

DATE: 23-Apr-93

UNITS: MICROGRAMS/LITER (UG/L)

	COMPOUND	M.D.L. UG/L	REAGENT BLANK	HC5-1	HC5-1 DUP.	HC8-1
1	CHLOROMETHANE	1.0	ND	ND	ND	ND
2	VINYL CHLORIDE	1.0	ND	1.1	1.2	ND
3	BROMOMETHANE	1.0	ND	ND	ND	ND
4	CHLOROETHANE	1.0	ND	ND	ND	ND
5	TRICHLOROFLUOROMETHANE	0.5	ND	ND	ND	ND
6	1,1-DICHLOROETHENE	0.5	ND	ND	ND	ND
7	DICHLOROMETHANE	1.0	ND	ND	ND	ND
8	TRANS-1,2-DICHLOROETHENE	0.2	ND	ND	ND	ND
9	1,1-DICHLOROETHANE	0.2	ND	ND	ND	ND
10	CIS-1,2-DICHLOROETHENE	0.2	ND	ND	ND	ND
11	CHLOROFORM	0.2	ND	ND	ND	ND
12	1,1,1-TRICHLOROETHANE	0.2	ND	ND	ND	ND
13	CARBON TETRACHLORIDE	0.2	ND	ND	ND	ND
14	BENZENE	0.1	ND	ND	ND	ND
15	1,2-DICHLOROETHANE	0.2	ND	ND	ND	ND
16	TRICHLOROETHENE	0.2	ND	ND	ND	ND
17	1,2-DICHLOROPROPANE	0.2	ND	ND	ND	ND
18	BROMODICHLOROMETHANE	0.2	ND	ND	ND	ND
19	CIS-1,3-DICHLOROPROPENE	0.2	ND	ND	ND	ND
20	TOLUENE	0.2	ND	7.1	7.7	1.3
21	TRANS-1,3-DICHLOROPROPENE	0.2	ND	ND	ND	ND
22	1,1,2-TRICHLOROETHANE	0.2	ND	ND	ND	ND
23	TETRACHLOROETHENE	0.2	ND	ND	ND	ND
24	DIBROMOCHLOROMETHANE	0.2	ND	ND	ND	ND
25	1,2-DIBROMOETHANE	0.2	ND	ND	ND	ND
26	CHLOROBENZENE	0.2	ND	ND	ND	ND
27	ETHYLBENZENE	0.2	ND	*0.1	*0.1	ND
28	M-XYLENE & P-XYLENE	0.2	ND	0.2	0.2	ND
29	O-XYLENE	0.2	ND	ND	ND	ND
30	STYRENE	0.2	ND	ND	ND	ND
31	BROMOFORM	0.5	ND	ND	ND	ND
32	1,1,2,2-TETRACHLOROETHANE	0.2	ND	ND	ND	ND
33	1,3-DICHLOROBENZENE	0.2	ND	ND	ND	ND
34	1,4-DICHLOROBENZENE	0.2	ND	0.2	0.2	0.2
35	1,2-DICHLOROBENZENE	0.2	ND	ND	ND	ND

SURROGATE STANDARD RECOVERIES:	AMOUNT	CONTROL LIMITS 70-130%			
FLUOROBENZENE	2.3	92%	103%	104%	100%
4-BROMOFLUOROBENZENE	6.4	98%	97%	98%	99%

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

CLIENT: GOLDER ASSOCIATES LTD.
PROJECT REFERENCE: 911-1602
W.O. # 93-5065V
MATRIX:WATER

VOLATILE ORGANIC COMPOUNDS

QUALITY CONTROL SPIKE PERCENT RECOVERIES

DATE: 23-Apr-93

	COMPOUND	AMOUNT UG/L	REAGENT SPIKE
1	CHLOROMETHANE	8.0	84%
2	VINYL CHLORIDE	8.0	86%
3	BROMOMETHANE	8.0	85%
4	CHLOROETHANE	8.0	100%
5	TRICHLOROFLUOROMETHANE	8.0	122%
6	1,1-DICHLOROETHENE	5.0	117%
7	DICHLOROMETHANE	5.0	122%
8	TRANS-1,2-DICHLOROETHENE	5.0	114%
9	1,1-DICHLOROETHANE	5.0	117%
10	CIS-1,2-DICHLOROETHENE	5.0	97%
11	CHLOROFORM	5.0	108%
12	1,1,1-TRICHLOROETHANE	5.0	109%
13	CARBON TETRACHLORIDE	5.0	115%
14	BENZENE	2.0	104%
15	1,2-DICHLOROETHANE	5.0	112%
16	TRICHLOROETHENE	5.0	111%
17	1,2-DICHLOROPROPANE	5.0	110%
18	BROMODICHLOROMETHANE	5.0	110%
19	CIS-1,3-DICHLOROPROPENE	5.0	111%
20	TOLUENE	2.0	105%
21	TRANS-1,3-DICHLOROPROPENE	5.0	122%
22	1,1,2-TRICHLOROETHANE	5.0	111%
23	TETRACHLOROETHENE	5.0	114%
24	DIBROMOCHLOROMETHANE	5.0	111%
25	1,2-DIBROMOETHANE	5.0	95%
26	CHLOROBENZENE	5.0	111%
27	ETHYLBENZENE	2.0	100%
28	M-XYLENE & P-XYLENE	4.0	95%
29	O-XYLENE	2.0	86%
30	STYRENE	2.0	87%
31	BROMOFORM	5.0	107%
32	1,1,2,2-TETRACHLOROETHANE	5.0	115%
33	1,3-DICHLOROBENZENE	5.0	98%
34	1,4-DICHLOROBENZENE	5.0	108%
35	1,2-DICHLOROBENZENE	5.0	91%

SURROGATE STANDARD RECOVERIES: CONTROL LIMITS 70-130%

FLUOROBENZENE	2.3	98%
4-BROMOFLUOROBENZENE	6.4	99%

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

CLIENT: GOLDER ASSOCIATES LTD.
PROJECT REFERENCE: 911-1602
W.O. # 93-5065V
MATRIX:WATER

VOLATILE ORGANIC COMPOUNDS

DATE: 23-Apr-93

LEGEND: M.D.L. = METHOD DETECTION LIMIT
ND = NOT DETECTED
DUP. = DUPLICATE
* = DETECTED BELOW M.D.L. BUT PASSED COMPOUND IDENTIFICATION CRITERIA

ANALYTICAL METHOD:

The samples were analysed by purge & trap gas chromatography/mass spectrometry using the internal standard method of quantitation.

REPORT DISCUSSION:

The surrogate standard recoveries were within the control limits for the analytical method for all samples. The target compound quality control spike recoveries were in the normal range for the analytical method.

JOB APPROVED BY:

SIGNED:

RONALD CORKUM, M.Sc., C.Chem.
MANAGER, MASS SPECTROMETRY SECTION

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
Ronald J. Corkum
CHEMIST

BARRINGER LABORATORIES

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

27-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 6-Apr-93 12:42

Job: 935004

Status: Final

Water Samples

Sample Id	pH pH Elec. pH Units	Alk 4.5 Titr. 1 mg CaCO3/L	Sp. Cond. SS Elec. umhos/cm	BOD (5) DO Elec. mg/L	COD A. Col. mg/L	Phenols 4-AAP mg/L	Total P A. Col. mg/L	NH3-N A. Col. mg/L	TKN A. Col. mg/L
PW2	7.38	408.	5240	0.3	25	<0.0005	0.014	3.30	3.60
HW8-4	7.82	163.	16200	0.1	27	<0.0005	0.042	4.60	4.70
HC-3-85-C	7.53	503.	3580	1.1	19	<0.0005	0.010	0.90	1.09
HC-3-85-E	7.67	602.	2670	0.1	9	<0.0005	0.250	<0.02	0.20
HC-5-85-2	7.55	284.	5440	0.4	28	<0.0005	0.560	3.80	3.80
HC-5-85-4	7.34	464.	2580	0.5	16	<0.0005	0.200	0.04	0.14
HC-9-85-1	7.12	280.	5470	0.4	27	<0.0005	0.280	3.80	3.70
HC-9-85-2	5.72	1.9	2	0.1	<12	<0.0005	0.007	0.10	0.12
SWA	8.13	239.	573	0.2	8	<0.0005	0.025	<0.02	0.17
SWB	8.20	235.	572	0.2	9	<0.0005	0.035	<0.02	0.18
SWC	8.03	245.	855	0.3	14	<0.0005	0.028	<0.02	0.25
SWD	8.31	251.	785	0.2	15	<0.0005	0.040	0.03	0.29
SWE	8.33	250.	784	0.5	14	<0.0005	0.039	<0.02	0.31
SWF	5.99	2.2	2	0.3	<1	<0.0005	0.010	0.12	0.14
HC-8-85-3	7.48	52.0	23800	0.3	100	<0.0005	0.330	11.2	10.5

BARRINGER LABORATORIES

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

27-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 6-Apr-93 12:42

Job: 935004

Status: Final

Water Samples

Sample Id	Cl- IC mg/L	F- IC mg/L	SO4= IC mg/L	TSS Grav. mg/L	Total CN- A. Col. mg/L	Hg CVAAS mg/L	C-Hard. Calc. mg CaCO3/L	Ag ICAP mg/L	Al ICAP mg/L
PW2	718.	0.2	1750.	9.5	<0.001	<0.00005	1964.	0.007	0.08
HW8-4	6540.	0.2	1780.	14668.5	<0.001	0.00005	2514.	<0.005	<0.05
HC-3-85-C	397.	0.2	1080.	2.3	<0.001	0.00010	1458.	<0.005	<0.05
HC-3-85-E	34.8	0.2	1090.	814.7	<0.001	<0.00005	1321.	<0.005	<0.05
HC-5-85-2	895.	0.2	1720.	3535.8	<0.001	<0.00005	1677.	<0.005	0.07
HC-5-85-4	158.	0.3	937.	33158.5	<0.001	<0.00005	1065.	<0.005	<0.05
HC-9-85-1	984.	0.2	1740.	1405.5	<0.001	<0.00005	1776.	<0.005	0.13
HC-9-85-2	0.03	<0.1	<0.05	<0.1	<0.001	<0.00005	0.3	<0.005	<0.05
SWA	7.30	0.2	63.0	3.7	<0.001	<0.00005	283.4	<0.005	<0.05
SWB	10.8	0.2	66.3	4.6	<0.001	<0.00005	286.2	<0.005	<0.05
SWC	31.4	0.2	185.	5.4	<0.001	<0.00005	388.1	<0.005	<0.05
SWD	26.1	0.2	147.	3.8	<0.001	<0.00005	377.9	<0.005	<0.05
SWE	26.5	0.3	148.	3.8	<0.001	<0.00005	373.3	<0.005	<0.05
SWF	0.04	<0.1	<0.05	<0.1	<0.001	<0.00005	0.8	<0.005	<0.05
HC-8-85-3	9170.	0.3	1950.	4388.6	<0.001	<0.00005	6112.	<0.005	0.17

BARRINGER LABORATORIES

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

27-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Page: 3
Copy: 2 of 2
Set : 1

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 6-Apr-93 12:42

Job: 935004

Status: Final

Water Samples

Sample Id	As ICAP mg/L	B ICAP mg/L	Ba ICAP mg/L	Be ICAP mg/L	Bi ICAP mg/L	Ca ICAP mg/L	Cd ICAP mg/L	Co ICAP mg/L	Cr ICAP mg/L
PW2	<0.1	4.76	0.008	<0.0005	<0.1	551.	<0.005	<0.01	<0.01
HW8-4	<0.1	2.47	0.013	<0.0005	<0.1	419.	<0.005	<0.01	<0.01
HC-3-85-C	<0.1	2.82	0.040	<0.0005	<0.1	357.	<0.005	<0.01	<0.01
HC-3-85-E	<0.1	0.67	0.013	<0.0005	<0.1	286.	<0.005	<0.01	<0.01
HC-5-85-2	<0.1	5.19	0.010	<0.0005	<0.1	449.	<0.005	<0.01	<0.01
HC-5-85-4	<0.1	1.75	0.012	<0.0005	<0.1	174.	<0.005	<0.01	<0.01
HC-9-85-1	<0.1	5.53	0.011	<0.0005	<0.1	476.	<0.005	<0.01	<0.01
HC-9-85-2	<0.1	<0.01	<0.005	<0.0005	<0.1	<0.05	<0.005	<0.01	<0.01
SWA	<0.1	0.15	0.045	<0.0005	<0.1	74.8	<0.005	<0.01	<0.01
SWB	<0.1	0.15	0.048	<0.0005	<0.1	78.0	<0.005	<0.01	<0.01
SWC	<0.1	0.24	0.053	<0.0005	<0.1	107.	<0.005	<0.01	<0.01
SWD	<0.1	0.27	0.064	<0.0005	<0.1	101.	<0.005	<0.01	<0.01
SWE	<0.1	0.26	0.063	<0.0005	<0.1	99.1	<0.005	<0.01	<0.01
SWF	<0.1	<0.01	<0.005	<0.0005	<0.1	0.17	<0.005	<0.01	<0.01
HC-8-85-3	<0.1	5.38	0.016	<0.0005	<0.1	1620.	<0.005	<0.01	<0.01

BARRINGER LABORATORIES

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

27-Apr-93

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 6-Apr-93 12:42

Job: 935004

Status: Final

Water Samples

Sample Id	Cu ICAP mg/L	Fe ICAP mg/L	K ICAP mg/L	Mg ICAP mg/L	Mn ICAP mg/L	Mo ICAP mg/L	Na ICAP mg/L	Ni ICAP mg/L	P ICAP mg/L
PW2	<0.01	5.91	50	142.	0.22	<0.05	514.	<0.05	<0.1
HW8-4	<0.01	0.06	40	356.	0.25	<0.05	886.	<0.05	<0.1
HC-3-85-C	<0.01	0.65	32	137.	0.64	<0.05	271.	<0.05	<0.1
HC-3-85-E	<0.01	0.02	20	147.	0.47	<0.05	121.	<0.05	<0.1
HC-5-85-2	<0.01	4.61	42	134.	0.20	<0.05	547.	<0.05	<0.1
HC-5-85-4	<0.01	0.05	21	152.	0.25	<0.05	178.	<0.05	<0.1
HC-9-85-1	<0.01	3.41	46	141.	0.21	<0.05	591.	<0.05	<0.1
HC-9-85-2	<0.01	0.01	<1	<0.05	<0.01	<0.05	<0.1	<0.05	<0.1
SWA	<0.01	0.02	3	23.3	0.03	<0.05	13.0	<0.05	<0.1
SWB	<0.01	<0.01	3	22.0	0.01	<0.05	13.5	<0.05	<0.1
SWC	<0.01	0.02	3	28.9	0.01	<0.05	38.0	<0.05	<0.1
SWD	<0.01	0.02	6	30.1	0.02	<0.05	26.3	<0.05	0.1
SWE	<0.01	<0.01	6	30.4	<0.01	<0.05	26.4	<0.05	<0.1
SWF	<0.01	<0.01	<1	0.09	<0.01	<0.05	0.1	<0.05	<0.1
HC-8-85-3	<0.01	0.84	114	499.	0.78	<0.05	3880.	<0.05	0.1

BARRINGER LABORATORIES

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

27-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602
PO #:
Received: 6-Apr-93 12:42

Job: 935004
Status: Final

Water Samples

Sample Id	Pb ICAP mg/L	S ICAP mg/L	Sb ICAP mg/L	Se ICAP mg/L	Si ICAP mg/L	Sn ICAP mg/L	Sr ICAP mg/L	Ti ICAP mg/L	V ICAP mg/L
PW2	<0.05	589.	<0.1	<0.1	4.60	<0.1	11.9	0.007	0.010
HW8-4	<0.05	531.	<0.1	<0.1	5.72	<0.1	10.3	0.008	<0.005
HC-3-85-C	<0.05	347.	<0.1	<0.1	3.55	<0.1	9.80	0.005	<0.005
HC-3-85-E	<0.05	314.	<0.1	<0.1	4.96	<0.1	9.75	0.006	<0.005
HC-5-85-2	<0.05	533.	<0.1	<0.1	4.45	<0.1	10.6	0.008	0.006
HC-5-85-4	<0.05	258.	<0.1	<0.1	3.89	<0.1	5.48	<0.005	<0.005
HC-9-85-1	<0.05	565.	<0.1	<0.1	4.58	<0.1	11.3	0.009	0.006
HC-9-85-2	<0.05	0.2	<0.1	<0.1	0.15	<0.1	0.005	<0.005	<0.005
SWA	<0.05	20.6	<0.1	<0.1	2.25	<0.1	0.740	<0.005	<0.005
SWB	<0.05	21.8	<0.1	<0.1	2.38	<0.1	0.768	<0.005	<0.005
SWC	<0.05	59.7	<0.1	<0.1	2.40	<0.1	0.768	<0.005	<0.005
SWD	<0.05	47.4	<0.1	<0.1	2.89	<0.1	1.28	<0.005	0.006
SWE	<0.05	47.9	<0.1	<0.1	2.87	<0.1	1.28	<0.005	<0.005
SWF	<0.05	<0.1	<0.1	<0.1	<0.05	<0.1	0.001	<0.005	<0.005
HC-8-85-3	<0.05	699.	<0.1	<0.1	3.73	<0.1	32.8	0.020	0.007

BARRINGER LABORATORIES

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

27-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 6-Apr-93 12:42

Job: 935004

Status: Final

Water Samples

Sample Id	Zn ICAP mg/L	CAB Calc. %
PW2	0.01	1.40
HW8-4	<0.01	42.80
HC-3-85-C	0.01	2.35
HC-3-85-E	<0.01	5.32
HC-5-85-2	<0.01	6.47
HC-5-85-4	0.04	5.83
HC-9-85-1	0.02	5.28
HC-9-85-2	0.01	-4.52
SWA	<0.01	0.01
SWB	<0.01	0.05
SWC	<0.01	0.88
SWD	0.01	-0.14
SWE	<0.01	0.39
SWF	0.01	-9.68
HC-8-85-3	0.01	0.96

BARRINGER LABORATORIES

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

27-Apr-93

Page: 7
Copy: 2 of 2
Set : 2

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 6-Apr-93 12:42

Job: 935004

Status: Final

Water Samples

Sample Id	Ag ICAP mg/L	Al ICAP mg/L	As ICAP mg/L	B ICAP mg/L	Ba ICAP mg/L	Be ICAP mg/L	Bi ICAP mg/L	Ca ICAP mg/L	Cd ICAP mg/L
HW8-4 (gen)	<0.05	<0.5	<1	5.8	<0.05	<0.005	<1	1170.	<0.05

Sample Id	Co ICAP mg/L	Cr ICAP mg/L	Cu ICAP mg/L	Fe ICAP mg/L	K ICAP mg/L	Mg ICAP mg/L	Mn ICAP mg/L	Mo ICAP mg/L	Na ICAP mg/L
HW8-4 (gen)	<0.1	<0.1	<0.1	<0.1	90	551.	0.5	<0.5	2960

Sample Id	Ni ICAP mg/L	P ICAP mg/L	Pb ICAP mg/L	S ICAP mg/L	Sb ICAP mg/L	Se ICAP mg/L	Si ICAP mg/L	Sn ICAP mg/L	Sr ICAP mg/L
HW8-4 (gen)	<0.5	<1	<0.5	701	<1	<1	5.9	<1	29.2

BARRINGER LABORATORIES

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

27-Apr-93

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 6-Apr-93 12:42

Job: 935004

Status: Final

Water Samples

Sample Id	Ti ICAP mg/L	V ICAP mg/L	Zn ICAP mg/L
HW8-4 (gen)	<0.05	<0.05	<0.1

BARRINGER LABORATORIES

5735 McADAM ROAD
MISSISSAUGA, ONTARIO
CANADA L4Z 1N9
PHONE: (416) 890-8566
FAX: (416) 890-8575

27-Apr-93

Page: 9
Copy: 2 of 2

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 6-Apr-93 12:42

Job: 935004

Status: Final

For sample HW8-4 an aliquot from the "general" bottle was analyzed by ICAP. Results are listed in Set 2.

Job approved by:

Signed:

.....

Agnes Love, B.Sc.
Manager, Environmental Inorganic Services

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

27-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 6-Apr-93 12:42

Job: 935004

Status: Final

Water Samples

Sample Id	pH pH Elec. pH Units	Alk 4.5 Titr. 1 mg CaCO3/L	Sp. Cond. SS Elec. umhos/cm	BOD (5) DO Elec. mg/L	COD A. Col. mg/L	Phenols 4-AAP mg/L	Total P A. Col. mg/L	NH3-N A. Col. mg/L
Blank	5.46	1.8	1	<0.1	<1	<0.0005	<0.002	<0.02
QC Standard (actual)	4.46	251.	723	2.0	38	0.0100	0.142	1.52
QC Standard (expected)	4.45	250.	718	2.0	40	0.0100	0.140	1.50
Repeat PW2	7.37	408.	5240	0.3	27	<0.0005	0.019	3.30
Blank	5.28	1.7	1	<0.1	<1	<0.0005	<0.002	<0.02
QC Standard (actual)	4.45	251.	723	2.0	38	0.0100	0.142	0.28
QC Standard (expected)	4.45	250.	718	2.0	40	0.0100	0.140	0.30
Repeat SWA	8.14	241.	573	0.3	<1	<0.0005	0.022	<0.02

Sample Id	TKN A. Col. mg/L	Cl- IC mg/L	F- IC mg/L	SO4= IC mg/L	TSS Grav. mg/L	Total CN- A. Col. mg/L	Hg CVAAS mg/L	C-Hard. Calc. mg CaCO3/L
Blank	<0.02	<0.01	<0.1	<0.50	<0.1	<0.001	<0.00005	0.3
QC Standard (actual)	1.36	252.	0.6	594.	40.3	0.010	0.00100	156.4
QC Standard (expected)	1.40	250.	0.6	600.	50.0	0.010	0.00100	157.9
Repeat PW2	3.60	723.	0.2	1820.	10.7	<0.001	<0.00005	2020.
Blank	<0.02	<0.01	<0.1	<0.50	<0.1	<0.001	<0.00005	0.3
QC Standard (actual)	0.83	20.7	0.4	601.	40.3	0.010	0.00100	159.3
QC Standard (expected)	0.84	20.0	0.5	600.	50.0	0.010	0.00100	157.9
Repeat SWA	0.18	7.60	0.2	64.8	3.5	<0.001	<0.00005	275.6

BARRINGER

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

27-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 6-Apr-93 12:42

Job: 935004

Status: Final

Water Samples

Sample Id	Ag ICAP mg/L	Al ICAP mg/L	As ICAP mg/L	B ICAP mg/L	Ba ICAP mg/L	Be ICAP mg/L	Bi ICAP mg/L	Ca ICAP mg/L
Blank	<0.005	<0.05	<0.1	<0.01	<0.005	<0.0005	<0.1	<0.05
QC Standard (actual)	0.034	9.76	1.0	0.21	0.944	0.0195	0.9	49.6
QC Standard (expected)	0.030	10.0	1.0	0.20	1.00	0.0200	1.0	50.0
Repeat PW2	<0.005	<0.05	<0.1	4.68	0.007	<0.0005	<0.1	571.
Blank	<0.005	<0.05	<0.1	<0.01	<0.005	<0.0005	<0.1	<0.05
QC Standard (actual)	0.034	9.92	1.0	0.21	0.965	0.0199	1.0	50.5
QC Standard (expected)	0.030	10.0	1.0	0.20	1.00	0.0200	1.0	50.0
Repeat SWA	<0.005	<0.05	<0.1	0.15	0.044	<0.0005	<0.1	73.4

Sample Id	Cd ICAP mg/L	Co ICAP mg/L	Cr ICAP mg/L	Cu ICAP mg/L	Fe ICAP mg/L	K ICAP mg/L	Mg ICAP mg/L	Mn ICAP mg/L
Blank	<0.005	<0.01	<0.01	<0.01	<0.01	<1	<0.05	<0.01
QC Standard (actual)	0.195	0.19	0.19	0.19	9.88	9	7.86	0.19
QC Standard (expected)	0.200	0.20	0.20	0.20	10.0	10	8.00	0.20
Repeat PW2	<0.005	<0.01	<0.01	<0.01	5.95	51	143.	0.22
Blank	<0.005	<0.01	<0.01	<0.01	<0.01	<1	<0.05	<0.01
QC Standard (actual)	0.198	0.20	0.20	0.20	9.90	10	7.99	0.20
QC Standard (expected)	0.200	0.20	0.20	0.20	10.0	10	8.00	0.20
Repeat SWA	0.005	<0.01	<0.01	<0.01	0.02	3	22.3	0.04

BARRINGER

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

27-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 6-Apr-93 12:42

Job: 935004

Status: Final

Water Samples

Sample Id	Mo ICAP mg/L	Na ICAP mg/L	Ni ICAP mg/L	P ICAP mg/L	Pb ICAP mg/L	S ICAP mg/L	Sb ICAP mg/L	Se ICAP mg/L
Blank	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.1	<0.1
QC Standard (actual)	0.47	47.5	0.20	9.6	0.21	10.0	1.0	1.0
QC Standard (expected)	0.50	50.0	0.20	10.0	0.20	10.0	1.0	1.0
Repeat PW2	<0.05	506.	<0.05	<0.1	<0.05	590.	<0.1	<0.1
Blank	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.1	<0.1
QC Standard (actual)	0.47	48.5	0.20	9.8	0.18	10.4	1.0	0.9
QC Standard (expected)	0.50	50.0	0.20	10.0	0.20	10.0	1.0	1.0
Repeat SWA	<0.05	12.8	<0.05	<0.1	<0.05	19.6	<0.1	<0.1

Sample Id	Si ICAP mg/L	Sn ICAP mg/L	Sr ICAP mg/L	Ti ICAP mg/L	V ICAP mg/L	Zn ICAP mg/L	CAB Calc. %
Blank	<0.05	<0.1	<0.001	<0.005	<0.005	<0.01	10.28
QC Standard (actual)	10.0	1.0	0.192	0.195	0.198	0.19	63.12
QC Standard (expected)	10.0	1.0	0.200	0.200	0.200	0.20	62.34
Repeat PW2	4.65	<0.1	11.7	0.010	<0.005	0.01	2.02
Blank	<0.05	<0.1	<0.001	<0.005	<0.005	<0.01	8.11
QC Standard (actual)	10.1	1.0	0.199	0.200	0.201	0.20	53.05
QC Standard (expected)	10.0	1.0	0.200	0.200	0.200	0.20	52.59
Repeat SWA	2.13	<0.1	0.700	<0.005	<0.005	<0.01	1.95

BARRINGER

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

27-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602

Received: 6-Apr-93 12:42
PO #:

Job: 935004

Status: Final

For sample HW8-4 an aliquot from the "general" bottle was analyzed by ICAP. Results are listed in Set 2.

Job approved by:

Signed:

.....

Agnes Love, B.Sc.
Manager, Environmental Inorganic Services

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

30-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 12-Apr-93 17:24

Job: 935065

Status: Final

Water Samples

Sample Id	pH pH Elec. pH Units	Alk 4.5 Titr. 1 mg CaCO3/L	Sp. Cond. SS Elec. umhos/cm	BOD (5) DO Elec. mg/L	COD A. Col. mg/L	Phenols 4-AAP mg/L	Total P A. Col. mg/L	NH3-N A. Col. mg/L
HC5-1	7.23	124.	36300	1.2	400	0.0010	0.510	17.0
HC8-1	7.26	286.	6020	0.3	770	0.0065	0.300	16.0
Blank	5.72	1.9	1	0.1	<1	<0.0005	<0.002	<0.02
QC Standard (actual)	4.45	249.	719	1.8	41	0.0100	0.131	1.52
QC Standard (expected)	4.45	250.	718	2.0	40	0.0100	0.140	1.50
Repeat HC5-1	7.21	124.	36200	1.1	380	0.0010	0.550	17.0

Sample Id	TKN A. Col. mg/L	Cl- IC mg/L	F- IC mg/L	SO4= IC mg/L	TSS Grav. mg/L	Total CN- A. Col. mg/L	Hg CVAAS mg/L	C-Hard. Calc. mg CaCO3/L
HC5-1	16.3	13800	0.1	1830.	17431.4	<0.001	<0.00005	11840.
HC8-1	15.7	5950	0.2	1570.	219.6	<0.001	<0.00005	5775.
Blank	<0.02	<1	<0.1	<0.5	<0.1	<0.001	<0.00005	0.5
QC Standard (actual)	1.39	2550	0.6	1540.	44.5	0.010	0.00110	155.7
QC Standard (expected)	1.40	2500	0.6	1500.	50.0	0.010	0.00100	157.9
Repeat HC5-1	15.9	13800	0.1	1820.	17367.2	<0.001	<0.00005	11770.

A PHILIP ENVIRONMENTAL COMPANY

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

30-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 12-Apr-93 17:24

Job: 935065

Status: Final

Water Samples

Sample Id	Ag ICAP mg/L	Al ICAP mg/L	As ICAP mg/L	B ICAP mg/L	Ba ICAP mg/L	Be ICAP mg/L	Bi ICAP mg/L	Ca ICAP mg/L
HC5-1	<0.005	<0.05	<0.1	4.61	0.053	<0.0005	<0.1	3240.
HC8-1	<0.005	<0.05	<0.1	1.72	0.028	<0.0005	<0.1	1500.
Blank	<0.005	<0.05	<0.1	<0.01	<0.005	<0.0005	<0.1	0.10
QC Standard (actual)	0.026	10.0	1.0	0.21	0.981	0.0195	0.8	49.3
QC Standard (expected)	0.030	10.0	1.0	0.20	1.00	0.0200	1.0	50.0
Repeat HC5-1	<0.005	<0.05	<0.1	4.87	0.055	<0.0005	<0.1	3220.

Sample Id	Cd ICAP mg/L	Co ICAP mg/L	Cr ICAP mg/L	Cu ICAP mg/L	Fe ICAP mg/L	K ICAP mg/L	Mg ICAP mg/L	Mn ICAP mg/L
HC5-1	0.009	<0.01	<0.01	<0.01	<0.01	120	906.	3.60
HC8-1	<0.005	<0.01	<0.01	<0.01	<0.01	60	491.	0.60
Blank	<0.005	<0.01	<0.01	<0.01	<0.01	<1	<0.05	<0.01
QC Standard (actual)	0.196	0.20	0.19	0.20	9.88	10	7.87	0.20
QC Standard (expected)	0.200	0.20	0.20	0.20	10.0	10	8.00	0.20
Repeat HC5-1	0.014	<0.01	<0.01	<0.01	<0.01	120	902.	3.78

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

30-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Attn: Mr. Dan Bunner
Project: 911-1602

PO #:

Received: 12-Apr-93 17:24

Job: 935065

Status: Final

Water Samples

Sample Id	Mo ICAP mg/L	Na ICAP mg/L	Ni ICAP mg/L	P ICAP mg/L	Pb ICAP mg/L	S ICAP mg/L	Sb ICAP mg/L	Se ICAP mg/L
HC5-1	<0.05	5810.	<0.05	<0.1	<0.05	443.	<0.1	<0.1
HC8-1	<0.05	2840.	<0.05	<0.1	<0.05	442.	<0.1	<0.1
Blank	<0.05	<0.1	<0.05	<0.1	<0.05	<0.1	<0.1	<0.1
QC Standard (actual)	0.48	49.8	0.20	10.2	0.20	10.5	1.0	0.9
QC Standard (expected)	0.50	50.0	0.20	10.0	0.20	10.0	1.0	1.0
Repeat HC5-1	<0.05	5780.	<0.05	0.2	<0.05	440.	<0.1	<0.1

Sample Id	Si ICAP mg/L	Sn ICAP mg/L	Sr ICAP mg/L	Ti ICAP mg/L	V ICAP mg/L	Zn ICAP mg/L	CAB Calc. %
HC5-1	6.84	<0.1	76.8	0.029	<0.005	0.33	-5.29
HC8-1	7.43	<0.1	30.8	0.012	0.006	<0.01	-5.14
Blank	<0.05	<0.1	0.001	<0.005	<0.005	<0.01	32.77
QC Standard (actual)	10.2	0.9	0.196	0.192	0.200	0.20	91.03
QC Standard (expected)	10.0	1.0	0.200	0.200	0.200	0.20	90.78
Repeat HC5-1	7.16	<0.1	80.8	0.032	0.009	0.35	-5.08

BARRINGER
LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

30-Apr-93

GOLDER ASSOCIATES
2180 Meadowvale Boulevard
Mississauga, ON
L5N 5S3

Page: 4
Copy: 1 of 2

Attn: Mr. Dan Bunner
Project: 911-1602

Received: 12-Apr-93 17:24
PO #:

Job: 935065

Status: Final

Job approved by:

Signed:

.....

Agnes Love, B.Sc.
Manager, Environmental Inorganic Services

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

CLIENT: GOLDER ASSOCIATES LTD.
PROJECT REFERENCE: 911-1602
W.O. # 93-5379V
MATRIX:WATER

VOLATILE ORGANIC COMPOUNDS

DATE: 20-May-93

UNITS: MICROGRAMS/LITER (UG/L)

	COMPOUND	M.D.L. UG/L	REAGENT BLANK	GA1-93	GA1-93 DUP.	GA5-93	GA6-93
1	CHLOROMETHANE	1.0	ND	ND	ND	ND	ND
2	VINYL CHLORIDE	1.0	ND	ND	ND	ND	ND
3	BROMOMETHANE	1.0	ND	ND	ND	ND	ND
4	CHLOROETHANE	1.0	ND	ND	ND	ND	ND
5	TRICHLOROFLUOROMETHANE	0.5	ND	ND	ND	ND	ND
6	1,1-DICHLOROETHENE	0.5	ND	ND	ND	ND	ND
7	DICHLOROMETHANE	1.0	ND	ND	ND	ND	ND
8	TRANS-1,2-DICHLOROETHENE	0.2	ND	ND	ND	ND	ND
9	1,1-DICHLOROETHANE	0.2	ND	0.5	0.5	*0.1	ND
10	CIS-1,2-DICHLOROETHENE	0.2	ND	0.4	0.4	ND	ND
11	CHLOROFORM	0.2	ND	ND	ND	ND	0.2
12	1,1,1-TRICHLOROETHANE	0.2	ND	ND	ND	ND	ND
13	CARBON TETRACHLORIDE	0.2	ND	ND	ND	ND	ND
14	BENZENE	0.1	ND	0.1	0.1	ND	ND
15	1,2-DICHLOROETHANE	0.2	ND	ND	ND	ND	ND
16	TRICHLOROETHENE	0.2	ND	0.2	0.2	0.2	ND
17	1,2-DICHLOROPROPANE	0.2	ND	ND	ND	ND	ND
18	BROMODICHLOROMETHANE	0.2	ND	ND	ND	ND	*0.1
19	CIS-1,3-DICHLOROPROPENE	0.2	ND	ND	ND	ND	ND
20	TOLUENE	0.2	ND	ND	ND	ND	*0.1
21	TRANS-1,3-DICHLOROPROPENE	0.2	ND	ND	ND	ND	ND
22	1,1,2-TRICHLOROETHANE	0.2	ND	ND	ND	ND	ND
23	TETRACHLOROETHENE	0.2	ND	ND	ND	ND	0.4
24	DIBROMOCHLOROMETHANE	0.2	ND	ND	ND	ND	ND
25	1,2-DIBROMOETHANE	0.2	ND	ND	ND	ND	ND
26	CHLOROBENZENE	0.2	ND	0.3	0.2	ND	ND
27	ETHYLBENZENE	0.2	ND	ND	ND	ND	ND
28	M-XYLENE & P-XYLENE	0.2	ND	ND	ND	ND	ND
29	O-XYLENE	0.2	ND	ND	ND	ND	ND
30	STYRENE	0.2	ND	ND	ND	ND	ND
31	BROMOFORM	0.5	ND	ND	ND	ND	ND
32	1,1,2,2-TETRACHLOROETHANE	0.2	ND	ND	ND	ND	ND
33	1,3-DICHLOROBENZENE	0.2	ND	ND	ND	ND	ND
34	1,4-DICHLOROBENZENE	0.2	ND	0.3	0.3	ND	ND
35	1,2-DICHLOROBENZENE	0.2	ND	ND	ND	ND	ND

SURROGATE STANDARD RECOVERIES:	AMOUNT	CONTROL LIMITS 70-130%				
TOLUENE-D8	3.0	97%	102%	103%	96%	96%
4-BROMOFLUOROBENZENE	6.2	96%	85%	84%	98%	104%

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

CLIENT: GOLDER ASSOCIATES LTD.
PROJECT REFERENCE: 911-1602
W.O. # 93-5379V
MATRIX:WATER

VOLATILE ORGANIC COMPOUNDS

DATE: 20-May-93

UNITS: MICROGRAMS/LITER (UG/L)

	COMPOUND	M.D.L. UG/L	HC-85-3-C	HC-85-3-F	PW2
1	CHLOROMETHANE	1.0	ND	ND	ND
2	VINYL CHLORIDE	1.0	ND	ND	ND
3	BROMOMETHANE	1.0	ND	ND	ND
4	CHLOROETHANE	1.0	ND	ND	ND
5	TRICHLOROFLUOROMETHANE	0.5	ND	ND	ND
6	1,1-DICHLOROETHENE	0.5	ND	ND	ND
7	DICHLOROMETHANE	1.0	ND	ND	ND
8	TRANS-1,2-DICHLOROETHENE	0.2	ND	ND	ND
9	1,1-DICHLOROETHANE	0.2	2.4	2.2	0.9
10	CIS-1,2-DICHLOROETHENE	0.2	1.8	1.6	0.9
11	CHLOROFORM	0.2	ND	ND	ND
12	1,1,1-TRICHLOROETHANE	0.2	ND	ND	ND
13	CARBON TETRACHLORIDE	0.2	ND	ND	ND
14	BENZENE	0.1	0.4	0.3	0.1
15	1,2-DICHLOROETHANE	0.2	ND	ND	ND
16	TRICHLOROETHENE	0.2	0.6	0.6	0.2
17	1,2-DICHLOROPROPANE	0.2	ND	ND	ND
18	BROMODICHLOROMETHANE	0.2	ND	ND	ND
19	CIS-1,3-DICHLOROPROPENE	0.2	ND	ND	ND
20	TOLUENE	0.2	ND	ND	ND
21	TRANS-1,3-DICHLOROPROPENE	0.2	ND	ND	ND
22	1,1,2-TRICHLOROETHANE	0.2	ND	ND	ND
23	TETRACHLOROETHENE	0.2	0.2	*0.1	ND
24	DIBROMOCHLOROMETHANE	0.2	ND	ND	ND
25	1,2-DIBROMOETHANE	0.2	ND	ND	ND
26	CHLOROBENZENE	0.2	ND	ND	ND
27	ETHYLBENZENE	0.2	ND	ND	ND
28	M-XYLENE & P-XYLENE	0.2	ND	ND	ND
29	O-XYLENE	0.2	ND	ND	ND
30	STYRENE	0.2	ND	ND	ND
31	BROMOFORM	0.5	ND	ND	ND
32	1,1,2,2-TETRACHLOROETHANE	0.2	ND	ND	ND
33	1,3-DICHLOROBENZENE	0.2	ND	ND	ND
34	1,4-DICHLOROBENZENE	0.2	ND	ND	ND
35	1,2-DICHLOROBENZENE	0.2	ND	ND	ND

SURROGATE STANDARD RECOVERIES:	AMOUNT	CONTROL LIMITS 70-130%		
TOLUENE-D8	3.0	98%	99%	100%
4-BROMOFLUOROBENZENE	6.2	92%	93%	95%

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

CLIENT: GOLDER ASSOCIATES LTD.
PROJECT REFERENCE: 911-1602
W.O. # 93-5379V
MATRIX:WATER

VOLATILE ORGANIC COMPOUNDS

QUALITY CONTROL SPIKE PERCENT RECOVERIES

DATE: 20-May-93

	COMPOUND	AMOUNT UG/L	REAGENT SPIKE
1	CHLOROMETHANE	8.0	124%
2	VINYL CHLORIDE	8.0	107%
3	BROMOMETHANE	8.0	117%
4	CHLOROETHANE	8.0	106%
5	TRICHLOROFLUOROMETHANE	8.0	85%
6	1,1-DICHLOROETHENE	5.0	76%
7	DICHLOROMETHANE	5.0	89%
8	TRANS-1,2-DICHLOROETHENE	5.0	82%
9	1,1-DICHLOROETHANE	5.0	84%
10	CIS-1,2-DICHLOROETHENE	5.0	86%
11	CHLOROFORM	5.0	85%
12	1,1,1-TRICHLOROETHANE	5.0	75%
13	CARBON TETRACHLORIDE	5.0	71%
14	BENZENE	2.0	89%
15	1,2-DICHLOROETHANE	5.0	88%
16	TRICHLOROETHENE	5.0	78%
17	1,2-DICHLOROPROPANE	5.0	86%
18	BROMODICHLOROMETHANE	5.0	86%
19	CIS-1,3-DICHLOROPROPENE	5.0	90%
20	TOLUENE	2.0	90%
21	TRANS-1,3-DICHLOROPROPENE	5.0	90%
22	1,1,2-TRICHLOROETHANE	5.0	90%
23	TETRACHLOROETHENE	5.0	78%
24	DIBROMOCHLOROMETHANE	5.0	89%
25	1,2-DIBROMOETHANE	5.0	90%
26	CHLOROBENZENE	5.0	88%
27	ETHYLBENZENE	2.0	86%
28	M-XYLENE & P-XYLENE	4.0	87%
29	O-XYLENE	2.0	90%
30	STYRENE	2.0	92%
31	BROMOFORM	5.0	89%
32	1,1,2,2-TETRACHLOROETHANE	5.0	89%
33	1,3-DICHLOROBENZENE	5.0	88%
34	1,4-DICHLOROBENZENE	5.0	88%
35	1,2-DICHLOROBENZENE	5.0	88%

SURROGATE STANDARD RECOVERIES:

CONTROL LIMITS 70-130%

TOLUENE-D8	3.0	102%
4-BROMOFLUOROBENZENE	6.2	99%

BARRINGER LABORATORIES

5735 McAdam Road
Mississauga, Ontario
L4Z 1N9
Tel: (416) 890-8566
Fax: (416) 890-8575
Wats: 1-800-263-9040

CLIENT: GOLDER ASSOCIATES LTD. VOLATILE ORGANIC COMPOUNDS DATE: 20-May-93
PROJECT REFERENCE: 911-1602
W.O. # 93-5379V
MATRIX:WATER

LEGEND: M.D.L. = METHOD DETECTION LIMIT
ND = NOT DETECTED
DUP. = DUPLICATE
* = DETECTED BELOW M.D.L. BUT PASSED COMPOUND IDENTIFICATION CRITERIA

ANALYTICAL METHOD:

The samples were analysed by purge & trap gas chromatography/mass spectrometry using the internal standard method of quantitation.

REPORT DISCUSSION:

The surrogate standard recoveries were within the control limits for the analytical method for all samples. The target compound quality control spike recoveries were in the normal range for the analytical method.

JOB APPROVED BY:

SIGNED: .....

RONALD CORKUM, M.Sc., C.Chem.
MANAGER, MASS SPECTROMETRY SECTION

ASSOCIATION OF THE CHEMICAL PROFESSION OF ONTARIO
CHARTERED
Ronald J. Corkum
CHEMIST

PROJECT: 911-1602

RECORD OF BOREHOLE GA-1-93

SHEET 1 OF 2

LOCATION: SEE FIGURE 2

BORING DATE: MAR.29-30, 1993

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m	HYDRAULIC CONDUCTIVITY, k, cm/s	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	ACKER AD-II POWER AUGER BORING, 108mm I.D. HOLLOW STEM AUGERS	GROUND SURFACE		130.89				SHEAR STRENGTH Cu, kPa: nat.V. + Q ● rem.V. ⊕ U ○	WATER CONTENT, PERCENT: Wp W Wl		
		TOPSOIL		0.05							
		FILL		130.59							
				0.30							BENTONITE SEAL
1		Very stiff, dry, red brown SILTY CLAY and completely weathered SHALE, vertical fractures, rootlets and root fibres.			1	50 DO	23				
					2	50 DO	50				SILICA SAND
2				128.61							
		SHALE and MUDSTONE.		2.28	3	50 DO	50/ .05				
				128.31							
				2.56							
		BOREHOLE CONTINUED. FOR BEDROCK CORING DETAILS, SEE SHEET 2.									
3											
4											
5											
6											
7											
8											
9											
10											

DATA INPUT: SK APR.27/93

DEPTH SCALE
1 to 50

Golder Associates

LOGGED: JR
CHECKED: JR

000136

PROJECT: 911-1602

RECORD OF DRILLHOLE: GA-1-93

SHEET 2 OF 2

LOCATION: SEE FIGURE 2

DRILLING DATE: MAR. 30, 1993

DATUM: GEODETIC

INCLINATION: AZIMUTH:

DRILL RIG: ACKER AD-II ROTARY DRILLING

DRILLING CONTRACTOR: LONGYEAR

DEPTH SCALE METRES	DRILLING RECORD	DESCRIPTION	SYMBOLIC LOG	ELEV. / DEPTH (m)	RUN No.	PENETRATION RATE (m/min)	FLUSH / COLOUR / % RETURN	RECOVERY: TOTAL CORE %	RECOVERY: SOLID CORE %	R.Q.D. %	FRACT. INDEX PER 3m	DISCONTINUITY DATA: DIP w.r.t. CORE AXIS	DISCONTINUITY DATA: TYPE AND SURFACE DESCRIPTION	HYDRAULIC CONDUCTIVITY k, cm/sec	DIAMETRAL POINT LOAD INDEX (MPa)	NOTES WATER LEVELS INSTRUMENTATION
								80 60 40 20	80 60 40 20	80 60 20	5 10 15 20	0 30 60 90				
0																
1		CONTINUED FROM SHEET 1														
2				128.61												
3	HQ ROCK CORE	Fresh to moderately weathered along horizontal bedding fractures, reddish brown, very fine to fine grained, very thinly bedded to laminated SHALE and MUDSTONE with occ. thin greenish grey siltstone laminae. Elev. 128.26-127.66m; highly weathered.		2.28	4								Highly weathered Broken Core			SILICA SAND
4					5											SAND BACKFILL
5					8											
6	MAR. 30/93			124.77												
		END OF BOREHOLE		6.12												
7		NOTE: No gas detected while advancing borehole.														BOREHOLE PUMPED DRY PRIOR TO INSTALLATION. WATER RISING IN HOLE AND SURFACE. WATER ENTERING HOLE AT 0.3m. MEASURED WATER ELEV. 128.69m PRIOR TO EVACUATING WATER.
8																
9																
10																

FR-FRACTURE CL-CLEAVAGE SH-SHEAR VN-VEIN

F-FAULT J-JOINT P-POLISHED S-SLICKENSIDED

SM-SMOOTH R-ROUGH ST-STEPPED PL-PLANAR

FL-FLEXURED UE-UNEVEN W-WAVY C-CURVED

DATA INPUT: SK APR.27/93

DEPTH SCALE:

1 to 50

Golder Associates

LOGGED: JR

DATE: MAR. 30/93

CHECKED: JR

000137

PROJECT: 911-1602

RECORD OF BOREHOLE GA-2-93

SHEET 1 OF 1

LOCATION: SEE FIGURE 2

BORING DATE: MAR. 30, 1993

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m	HYDRAULIC CONDUCTIVITY, k, cm/s	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	ACKER AD-II POWER AUGER BORING, 108mm I.D. HOLLOW STEM AUGERS	GROUND SURFACE		132.10				SHEAR STRENGTH Cu, kPa; nat.V. + Q. ●; rem.V. ⊕ U. ○	WATER CONTENT, PERCENT Wp — W — Wl		BENTONITE SEAL
		ORGANICS		0.05							
1		Fresh to slightly weathered, reddish brown, very fine to fine grained, very thinly bedded to laminated SHALE and MUDSTONE with occ. thin greenish grey siltstone laminae.									
2											
3											SILICA SAND
4				127.53							DRILL CUTTINGS
		END OF BOREHOLE		4.57							
5		NOTE: Borehole not sampled. Stratigraphy derived from visual inspection of drill cuttings. No gas detected while advancing borehole.									BOREHOLE DRY ON COMPLETION OF DRILLING.
6											
7											
8											
9											
10											

DATA INPUT: SK APR.27/93

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: JR

CHECKED: JR

PROJECT: 911-1602

RECORD OF BOREHOLE GA-3-93

SHEET 1 OF 1

LOCATION: SEE FIGURE 2

BORING DATE: MAR. 30, 1993

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m	SHEAR STRENGTH Cu, kPa (nat.V - +, rem.V - ⊕, Q - ●, U - ○)	HYDRAULIC CONDUCTIVITY, k, cm/s	WATER CONTENT, PERCENT Wp, W, Wl	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	ACKER AD-II POWER AUGER BORING 108mm I.D. HOLLOW STEM AUGERS	GROUND SURFACE		131.54 / 0.00									
1		Fresh to slightly weathered, reddish brown, very fine to fine grained, very thinly bedded to laminated SHALE and MUDSTONE with occ. thin greenish grey siltstone laminae.											BENTONITE SEAL
2													DRILL CUTTINGS
3													
4													BENTONITE SEAL / DRILL CUTTINGS / BENTONITE SEAL
5													SILICA SAND
6				125.53 / 6.01									
		END OF BOREHOLE											BOREHOLE DRY ON COMPLETION OF DRILLING.
7		NOTE: Borehole not sampled. Stratigraphy derived from visual inspection of drill cuttings. No gas detected while advancing borehole.											
8													
9													
10													

DATA INPUT: SK APR.27/93

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: JR

CHECKED: JR

PROJECT: 911-1602

RECORD OF BOREHOLE GA-3A-93

SHEET 1 OF 1

LOCATION: SEE FIGURE 2

BORING DATE: MAR. 30, 1993

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m	SHEAR STRENGTH Cu, kPa (natV. + Q. ● rem.V. ⊕ U. ○)	HYDRAULIC CONDUCTIVITY, k, cm/s	WATER CONTENT, PERCENT Wp W Wl	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	ACKER AD-II POWER AUGER BORING 108mm I.D. HOLLOW STEM AUGERS	GROUND SURFACE		131.45 / 0.00									BENTONITE SEAL
1		Refer to Record of Borehole GA-3-93 for stratigraphy.											
2													SILICA SAND
3				128.40									
		END OF BOREHOLE NOTE: No gas detected while advancing borehole.		3.05									BOREHOLE DRY ON COMPLETION OF DRILLING.
4													
5													
6													
7													
8													
9													
10													

DATA INPUT: SK APR.27/93

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: JR

CHECKED: JR

000140

PROJECT: 911-1602

RECORD OF BOREHOLE GA-4-93

SHEET 1 OF 1

LOCATION: SEE FIGURE 2

BORING DATE: MAR. 30, 1993

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m	HYDRAULIC CONDUCTIVITY, k, cm/s	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	ACKER AD-II POWER AUGER BORING 108mm I.D. HOLLOW STEM AUGERS	GROUND SURFACE		131.12 / 0.00				SHEAR STRENGTH Cu, kPa: nat.V. + Q ● rem.V. ⊕ U ○	WATER CONTENT, PERCENT: Wp W Wl		BENTONITE SEAL
1		Fresh to slightly weathered, reddish brown, very fine to fine grained, very thinly bedded to laminated SHALE and MUDSTONE with occ. thin greenish grey siltstone laminae.									
2											
3				127.31							SILICA SAND
4		END OF BOREHOLE		3.81							BOREHOLE DRY ON COMPLETION OF DRILLING.
5		NOTE: Borehole not sampled. Stratigraphy derived from visual inspection of drill cuttings. No gas detected while advancing borehole.									
6											
7											
8											
9											
10											

DATA INPUT: SK APR.26/93

DEPTH SCALE
1 to 50

Golder Associates

LOGGED: JR
CHECKED: JR

PROJECT: 911-1602

RECORD OF BOREHOLE GA-5-93

SHEET 1 OF 1

LOCATION: SEE FIGURE 2

BORING DATE: MAR. 31, 1993

DATUM: GEODETIC

SAMPLER HAMMER, 63.5kg; DROP, 760mm

PENETRATION TEST HAMMER, 63.5kg; DROP, 760mm

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	ELEV. / DEPTH (m)	SAMPLES: NUMBER	SAMPLES: TYPE	SAMPLES: BLOWS/0.3m	DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m	SHEAR STRENGTH Cu, kPa (natV. + Q. ● / remV. ⊕ U. O)	HYDRAULIC CONDUCTIVITY, k, cm/s	WATER CONTENT, PERCENT Wp — W — Wl	ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
0	ACKER AD-II POWER AUGER BORING 108mm I.D. HOLLOW STEM AUGERS	GROUND SURFACE		127.30 / 0.00									
1		Fresh to slightly weathered, reddish brown, very fine to fine grained, very thinly bedded to laminated SHALE and MUDSTONE with occ. thin greenish grey siltstone laminae.											BENTONITE SEAL
2													SILICA SAND
3		END OF BOREHOLE		124.56 / 2.74									BOREHOLE DRY ON COMPLETION OF DRILLING.
4		NOTE: Borehole not sampled. Stratigraphy derived from visual inspection of drill cuttings. No gas detected while advancing borehole.											
5													
6													
7													
8													
9													
10													

DATA INPUT: SK APR.26/93

DEPTH SCALE

1 to 50

Golder Associates

LOGGED: JR

CHECKED: JR

000142

ENVIRONMENTAL PERFORMANCE REPORT

Bayview Park Landfill
Burlington, Ontario

NOVEMBER 1994
REF. NO. 1354 (47)
This report is printed on recycled paper.

CONESTOGA-ROVERS & ASSOCIATES

TABLE OF CONTENTS

Page

1.0 INTRODUCTION 1
1.1 CURRENT LAND USE SITUATION 2

2.0 HISTORICAL SITE PERSPECTIVE 5
2.1 SUMMARY 11

3.0 FIELD INVESTIGATION 13
3.1 GENERAL 13
3.2 OBSERVATION WELL INSTALLATION 14
3.2.1 General 14
3.2.2 Drilling Activities 14
3.2.3 Packer Testing Activities 16
3.2.4 Observation Well Installation 18
3.2.5 Gas Probe Installation 19
3.2.6 Groundwater Elevation Measurement 19
3.2.7 Gas Probe Measurement 20
3.2.8 Well Development 20
3.2.9 Sampling Program 21
3.2.10 Sampling Event Quality Assurance and Quality Control 21

4.0 SITE HYDROGEOLOGY AND GEOCHEMISTRY 22
4.1 HYDROGEOLOGIC BACKGROUND 22
4.2 SURFACE WATER QUALITY BACKGROUND 23
4.3 LEACHATE SOURCE CHARACTERIZATION 23
4.4 HISTORICAL AND CURRENT Results Comparison 25
4.4.1 Hydrogeology 25
4.4.2 Geochemistry 26
4.4.2.1 Groundwater 26
4.4.2.2 Surface Water 28
4.5 SUMMARY 30

5.0 CURRENT AND ANTICIPATED SITE ENVIRONMENTAL IMPACT 31
5.1 GROUNDWATER 31
5.2 SURFACE WATER 31

TABLE OF CONTENTS

Page

6.0 CONTINGENCY MEASURES 33
6.1 LEACHATE COLLECTION SYSTEM MAINTENANCE 33
6.2 CONTINGENCY OPTIONS 33

7.0 BUFFER/ATTENUATION ZONE REQUIREMENTS 34

8.0 RATIONALIZED MONITORING PROGRAM 36

9.0 SUMMARY 39

REFERENCES 40

LIST OF FIGURES

		Following Page
FIGURE 1.1	SITE LOCATION	
FIGURE 3.1	SITE BUFFER ZONE AND MONITORING LOCATIONS	
FIGURE 3.2	PACKER TEST ASSEMBLY SCHEMATIC	

LIST OF TABLES

		Following Page
TABLE 3.1	SUMMARY OF PACKER TEST RESULTS	
TABLE 3.2	WELL COMPLETION DETAILS	
TABLE 3.3	GAS PROBE INSTALLATION DETAILS	
TABLE 3.4	GROUNDWATER ELEVATIONS	
TABLE 3.5	GAS PROBE MONITORING RESULTS	
TABLE 3.6	WELL DEVELOPMENT SUMMARY	
TABLE 3.7A	SUMMARY OF 1993 GENERAL CHEMISTRY ANALYTICAL RESULTS - GROUNDWATER	
TABLE 3.7B	SUMMARY OF 1993 VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS - GROUNDWATER	
TABLE 3.8A	SUMMARY OF 1993 GENERAL CHEMISTRY ANALYTICAL RESULTS - SURFACE WATER	
TABLE 3.8B	SUMMARY OF 1993 VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS - SURFACE WATER	
TABLE 4.1	SITE LEACHATE CHARACTERIZATION (PERSISTENTLY DETECTED ANALYTES TO JANUARY 1993)	
TABLE 4.2	SURFACE WATER QUALITY COMPARISON (APRIL 1993)	
TABLE 8.1	RATIONALIZED MONITORING PROGRAM	

LIST OF DRAWINGS

DRAWING 1	CURRENT AND PROPOSED SITE MONITORING LOCATIONS AND PROPOSED BUFFER/ATTENUATION ZONE - BAYVIEW PARK LANDFILL

LIST OF APPENDICES

APPENDIX A	CERTIFICATE OF APPROVAL NO. 210103 LEACHATE COLLECTION SYSTEM CERTIFICATE OF APPROVAL NO. 3-0819-86-007
APPENDIX B	CURRENT 1994 MONITORING PROGRAM BAYVIEW PARK LANDFILL SITE
APPENDIX C	PACKER TEST FIELD NOTES
APPENDIX D	STRATIGRAPHIC AND INSTRUMENTATION LOGS
APPENDIX E	ANALYTICAL RESULTS DATABASE
APPENDIX F	ANALYTICAL ASSESSMENT AND VALIDATION REPORTS
APPENDIX G	EXCERPTS FROM REASONS FOR DECISION AND DECISION DATED FEBRUARY 24, 1989 (PAGES 83 TO 107) - REGIONAL MUNICIPALITY OF HALTON HEARING

1.0 INTRODUCTION

The City of Burlington and Jannock Ltd. have undertaken a joint technical review of the performance and impacts of the Bayview Park Landfill. This review allows the City of Burlington to determine the most appropriate buffer/attenuation zone, monitoring requirements, and contingency measures for this closed landfill site. The results of this review also allows Jannock Ltd. to evaluate the suitability of development of its adjacent lands south of the landfill in accordance with the provisions the Ministry of Environment Policy 07-07.

A joint City of Burlington/Jannock Ltd. report entitled, "Concept Proposal, Bayview Park Landfill Buffer Zone/Monitoring Requirements and Development of Lands South of Bayview Park Landfill" dated January 1993, was prepared by CRA/Golder and was subsequently presented to the Ministry of Environment and Energy (MOEE) on February 8, 1993.

The Technical review as outlined within the Concept Proposal consisted of the following components:

i) definition of the limits of a proposed Buffer Zone;
ii) installation and initial sampling of six monitoring wells at four locations along the proposed buffer zone boundary;
iii) installation and monitoring of three shallow gas probe installations;
iv) the synoptic sampling of all historically monitored and proposed buffer boundary surface water and groundwater monitoring locations;
v) technical evaluation of existing and anticipated Site environmental impact which also includes an evaluation of leachate collection system performance;
vi) rationalization of the current monitoring program which will include leachate collection system monitoring and maintenance requirements;
vii) evaluation of contingency options if unacceptable impacts are occurring; and

viii) address all issues (in a companion report) that are associated with MOEE Policy 07-07 with respect to land use development adjacent to landfill sites.

In a February 23, 1993 letter to Doug Brown (COB) the MOEE advised that they agree in principle with the above-noted Concept Proposal technical review. However, MOEE asked that the following be taken into consideration:

i) the ministry stated concern that proposed surface water monitoring well SW9A-92 is representative of true background surface water quality; and

ii) that once the proposed program is completed and further information presented on drilling in the general area, the Ministry will have an opportunity to require some specific input if required.

The purpose of this report is to present, based on the technical review as outlined in the Concept Proposal, an environmental performance evaluation and rationalized monitoring program for the closed Bayview Park Landfill Site, based on the proposed buffer zones, recognition of the proposed adjacent land use developments and the above noted MOEE considerations.

1.1 CURRENT LAND USE SITUATION

The Bayview Park Landfill Site is located on the west side of King Road north of Highway 403 within the City of Burlington (COB) (see Figure 1.1). The Site was operated as a landfill by the Town of Flamborough, and then the COB from 1957 to 1972. In 1972, the Site was closed under MOE Provisional Certificate No. 210103 and subsequently amended in May 1986. The Site is currently operated as a Park facility. A copy of the amended Certificate of Approval No. 210103 is provided in Appendix A. A leachate collection system was also installed in 1986, to control observed leachate seepage into adjacent tributary of Indian Creek. The Certificate of Approval

No. 3-0819-86-007 for the construction and operation of the leachate collection system is also provided in Appendix A. All collected leachate/groundwater is directed via gravity forcemain to the Regional Municipality of Halton, Skyway Waste Water Treatment Plant.

The property adjacent to the Bayview Park Landfill was formerly owned by National Sewer Pipe (NSP). These lands were designated as Site "F" and were subject to an exhaustive environmental assessment in the matter of an application by The Regional Municipality of Halton for landfilling at this locality. A lengthy hearing before the Joint Board as mandated by The Consolidated Hearings Act 1981, was held to evaluate Site "F" suitability for landfilling. The outcome of this hearing resulted in Site "F" not being selected for the Regional Landfill.

The NSP property has since been purchased by Jannock Ltd. through its subsidiary 873805 Ontario Inc. Jannock is planning to continue to quarry within the licensed portion of the property and is also pursuing the development of prestige industrial land fronting along the North Service Road. As such, given the above land use developments, several issues have arisen which necessitate the development of a rationalized landfill site buffer zone and monitoring program in order to effectively monitor the performance of the site and to allow for the implementation of remedial measures as, and if, required. These outstanding issues are summarized below:

i) A number of the off-Site observation wells currently utilized for monitoring are located on lands slated for development.

ii) There is a need to acquire buffer lands in order that the City of Burlington has access to repair the Leachate Collection System as needed and to allow for a contaminant attenuation zone downgradient of the Bayview Park Landfill. This contaminant attenuation zone would be utilized to attenuate any landfill derived contaminants and provide boundary impact monitoring capabilities in order to evaluate site compliance as outlined within relevant MOEE policies.

iii) There is a need to verify that downgradient groundwater and surface water quality at the proposed buffer zone boundary is consistent with historical downgradient water quality.

iv) Furthermore, as previously stated, there is need to verify that the lands proposed for development by Jannock comply with all provisions of MOE policy 07-07 regarding development adjacent to former waste disposal sites. A report which in part will utilize the results of this technical review has been prepared, under separate cover, by Golder Associates for Jannock to address the above Policy 07-07 provisions.

2.0 HISTORICAL SITE PERSPECTIVE

Between 1979 to 1985, the MOE conducted site inspections which included the collection of samples for chemical analysis of both leachate seeps around the landfill and upper reaches of Indian Creek. These MOE results indicated levels greater than surface water objectives of coliform and heavy metal levels, and low level chlorinated organics. The results also illustrated that the leachate seeps had impacted the water quality in the adjacent creek.

In a letter dated May 24, 1985, the MOE requested that the COB respond to the observed leachate seeps and apparent creek contamination. On May 30, 1985, the COB requested that Conestoga-Rovers & Associates (CRA) undertake a review of this issue. The results of this investigation were summarized in a report entitled "Bayview Park Landfill/Indian Creek Contamination Investigation, City of Burlington" dated July 1985. This investigation verified the presence of leachate seeps and contaminated groundwater emanating from the landfill and impacting surface water. The report identified a need for the implementation of leachate control measures, and a monitoring program that would evaluate the impact of any control measures installed at the Bayview Park Landfill Site.

In a letter to the COB dated October 2, 1985 from B.A. Singh, P. Eng., the MOE requested:

> *"A comprehensive monitoring program assessing the impacts and recommending controls for gas and leachate both off site and on site is required. We ask that you submit terms of reference for this program for approval on or before November 15, 1985."*

On behalf of the COB, CRA prepared a draft "Terms of Reference 1986 Monitoring Program". In November 1985, this report was submitted to the MOE for comment. CRA subsequently revised and implemented the 1986 monitoring program to reflect the general intent of the MOE comments.

In response to Ministry of Environmental (MOE) concerns regarding surface water contamination of the creek adjacent to the Site, the City of Burlington commenced the design of a leachate control system in 1985. The purpose of the leachate control system was to prevent surface water contamination of a tributary of Indian Creek adjacent to the Site as a result of overland leachate seepage, and control shallow off-Site groundwater contamination. A review of possible remediation techniques was presented in the report entitled "Remedial Alternatives, Bayview Park Landfill Leachate Controls" (CRA, July 1985).

The design of the selected remedial alternative was described in the report entitled "Conceptual Design Report, Leachate Collection System, Bayview Landfill Site" (CRA, January 1986). The leachate control system consists of a west side gravity toe drain collection system, and three gravity collection drains located in ravines along the south side of the Site. The west side toe drain and south side ravine drains consist of perforated PVC pipe in a clear stone bedding which drain to two pump stations located in the south side ravines.

The two pump stations discharge to a gravity sewer located along the south side of the Site and the west side of King Road. The gravity sewer was connected to an existing sanitary sewer located along King Road south of Highway No. 403.

Construction of the leachate control system was undertaken in 1986 under City of Burlington Contract No. 86-16. The leachate collection system was approved under MOE Certificate of Approval No. 3-0819-86-007 (Appendix A) dated July 16, 1986.

On July 16, 1986, the MOE revoked condition No. 1 of the Provisional Certificate of Approval No. 210103 dated October 11, 1973 and replaced it with four new conditions. Conditions 1 to 3 dealt specifically with the construction of the LCS. Condition 4 reads as follows:

"The City shall carry out the monitoring and inspection program as approved by the Regional Director with such modification as may be approved from time to time by the Regional Director. On or before March 1st of each year, the City shall file a report with the Regional Director containing an analysis and evaluation of the monitoring and inspection program for the previous year."

Monitoring has been undertaken since 1986 and eight annual monitoring reports have been submitted to the Director as per Condition 4. A complete Reference listing of previously submitted annual monitoring reports is provided with this report.

The 1986 program was prepared to evaluate the present environmental impact of the Bayview Landfill on surface water, and to provide a basis for evaluating on the effectiveness of the LCS which was installed during the latter part of 1986. The program included: landfill gas monitoring, leachate levels, leachate seep inspections and the sampling of 10 surface water locations on a quarterly basis. In addition, 10 surface water and sediment sample locations were sampled on an annual basis for priority pollutant analysis.

Groundwater monitoring was not conducted in 1986 in order that a comprehensive review could be undertaken of the significant groundwater data base that had been developed for the adjacent National Sewer Pipe lands (NSP) (which was then designated as the proposed Halton Regional Landfill Site F). This comprehensive review of the groundwater database was undertaken as part of the 1986 monitoring program.

Generally speaking because of the nature of the underlying near surface fractured shale bedrock and the natural poor groundwater quality (i.e. very high chlorides, sulphate, total dissolved solids) it was stated that it may not be possible to delineate the extent of groundwater contamination.

The 1986 monitoring Report largely concluded the following:

1) Prior to the construction of the leachate collection system, surface leachate discharge from the landfill had exerted a measurable impact on surface water quality downstream of Bayview Park. However, it cannot be attributed to leachate seepage alone.

2) No PCBs were detected in any of the leachate water or sediment samples

3) Groundwater impact, based primarily on an evaluation of organic nitrogen data, may extend downgradient to and possibly beyond Highway 403.

Based on the 1986 review, a groundwater component to the annual monitoring program was implemented as part of 1987 monitoring event which involved the collection of nitrate, nitrite, TKN and free ammonia from selected well nests. In addition a limited suite of volatile organic compounds (VOC) were analyzed at selected groundwater locations on an annual basis.

The 1987 monitoring program concluded amongst other considerations that the installation of the LCS has resulted in the reduction of the impact on the surface water quality, however more data was required to further quantify this reduction. Impaired surface water quality was noted at background upstream locations as well as downstream of the site. No PCBs were detected at any surface water locations. Furthermore, all major seeps identified in 1986 and outbreaks noted in 1987 have been contained. It was also determined that organic nitrogen is not, as was previously believed, a diagnostic indicator of groundwater contamination at this site and that the source of detected toluene concentrations within the groundwater needed to be further documented. The recommended 1988 monitoring program included a re-evaluation of groundwater monitoring locations so as to ensure that the wells are screened within the active groundwater flow zones originating from the landfill. In addition, those wells completed with suspect well construction materials (i.e. glued joints) were deleted from the program.

The 1988 report generally reiterates similar conclusions as was previously outlined in the 1987 report. Salient conclusions included that, the installation of the LCS has resulted in the reduction of impact on the surface water quality however more data would be required to fully evaluate the effects of the installation of the collection system. The report further concludes that bacteriological parameters are not a useful indicator of groundwater contamination. Also off-site groundwater appears to be characterized by the sporadic occurrence of volatile organics at trace levels which were largely attributed to a natural source. No PCBs were detected with the surface water and further evaluation of background surface water quality was also required. It was also recommended that a refinement in the groundwater monitoring network was required in order to conduct widespread sampling of the shallow or active groundwater flow zone.

The conclusions presented within the 1989 report are generally consistent with that presented as part of previous reports. Comments from the MOE regarding the draft copy of the 1989 Monitoring Report were received on March 3, 1992. The following summarizes MOE comments:

- Sampling of volatile organic compounds (VOCs) be continued in order to establish concentration profiles and confirm that the presence of VOCs are possibly derived from the shale bedrock.

- 1989 monitoring program be continued in 1990 along with additional sampling on off-Site groundwater monitoring wells at HC6 and HC7, the shallow well at HC4 and deep well at HC9 so as to properly assess the affects of landfill leachate.

- Reasons for elevated leachate levels at LW4 should be determined.

The above comments, where appropriate, were incorporated with the 1990 monitoring report. Conclusions from the 1990 and 1991 monitoring program are consistent with previous reports.

The MOE provided comments on the 1990 and 1991 Monitoring Reports on November 5, 1992. The primary MOE comments are presented below:

1) It is very difficult to determine the impacts of leachate on the groundwater system at this Site because of poor background water quality and complex fracture characteristics of the underlying shales. The monitoring program conducted in 1990 and 1991 needs to be continued in order to expand the existing groundwater database. This will enable a more confident interpretation of the groundwater system in the future.

2) "It is acceptable to measure leachate levels twice per year instead of four times per year provided there are no noticeable changes to leachate levels in the future."

The 1992 Monitoring Progress Report (CRA March 1993) concluded that there is minor impact on general chemistry surface water quality immediately downstream of the Bayview Park landfill. Reduced pumping of the leachate collection system, coupled with unusually high amounts of precipitation during 1992 may in part have contributed to observed surface water impact. However, this impact is not deleterious as Provincial Water Quality Objectives for the parameters analyzed were met downstream. Furthermore, surface water quality downstream of the Site along the North Service Road is comparable to background quality. The 1992 report also concluded that the detected occurrence of volatile organic compounds in leachate and groundwater is generally seen to be sporadic and characterized by low or trace levels only. The persistent low level occurrences of chlorobenzene in groundwater (2.6 to 3.3 µg/L) of PW3 are interpreted to be landfill derived.

The 1993 monitoring program (CRA March 1994) report concluded that there is a minor surface water quality impact as a result of shallow impacted groundwater discharge with respect to increased chloride and unionized ammonia concentrations at landfill vicinity surface water monitoring locations as compared with upstream and downstream surface

water monitoring locations. Bacteria levels were detected above PWQO's at surface water monitoring locations SW6-87, SW7-87, SW8-87 and SW13-88. These levels are attributed to an upgradient (of the landfill) surface water/groundwater source.

The occurrence of volatile organics in leachate and groundwater continued to be seen to be sporadic and characterized by low or trace levels only.

It was further recommended in the above noted 1992 and 1993 Monitoring Reports that the current monitoring program (not including the proposed 1993 groundwater and surface water monitoring locations) be continued in 1994 until the revised program is formally proposed and agreed to by all parties as part of this technical review.

In summary, the overall effectiveness of the leachate collector in controlling leachate seepage has been demonstrated. The impact on groundwater has been difficult to assess due to the naturally poor groundwater quality and lack of effective inorganic indicator parameters of leachate contamination. It has been determined that the presence of chlorinated volatile compounds may be considered as diagnostic indicators of landfill derived groundwater and surface water impact.

2.1 SUMMARY

In keeping with the above historical perspective, it is appropriate that a landfill site performance re-evaluation be undertaken given recognition of the proposed adjacent land use developments and the documented historical surface water impacts and the subsequent effective control measures. This performance re-evaluation would involve the need for unrestricted access to the engineered leachate collection system, to ensure that surface water impact to the adjacent creek is prevented. This would take the form of a formalized Buffer/Attenuation zone. Furthermore a rationalized groundwater monitoring program is required in order that the

groundwater flow system continue to be monitored in recognition of the proposed downgradient development.

The current (1994) monitoring program consists of the following components:

i) surface water monitoring;
ii) leachate well monitoring;
iii) leachate collection system monitoring;
iv) off-site groundwater monitoring - utilizing selected pumping wells and observation wells installed on behalf of the Region of Halton by Trow Hydrology Consultants; and
v) leachate seep inspections.

The detailed current monitoring specifications are provided in Table B.1 (Appendix B), where as the current 1994 surface water, leachate well and groundwater monitoring locations are provided on Drawing 1.

3.0 FIELD INVESTIGATION

3.1 GENERAL

The field activities, were generally conducted in accordance with the CRA/Golder (January 1993) protocols outlined in Appendix C of the Concept Proposal Report. The only substantive variance with the previously outlined protocols was that the gas probes were installed in separate boreholes in the unsaturated overburden rather than in the same boreholes as the shallow observation wells.

The field activities were conducted by CRA from February 25, 1993 to March 26, 1993 and consisted of the following:

i) the drilling of two deep boreholes and four shallow boreholes in the bedrock at the locations for subsequent observation well installation;

ii) the drilling of three separate boreholes in the unsaturated overburden at the locations for subsequent gas probe installation;

iii) the performance of packer tests at selected intervals in all the coreholes (including sampling and testing of the water discharged during the packer tests for conductivity, salinity and temperature) to determine an optimum location for screen placement;

iv) the installation of four shallow (OW1B-93, OW2B-93, OW3-93 and OW4-93) and two deep (OW1A-93 and OW2A-93) observation wells in each respective borehole as shown on both Figure 3.1 and Drawing 1;

v) the installation and gas level measurement of three gas probes (GP1-93, GP2-93 and GP3-93) at the locations shown on Figure 3.1 and Drawing 1;

vi) the establishment of horizontal and vertical control of the above noted gas probes and observation wells including PW3-86 which was

installed previously in 1986, and the proposed buffer zone boundary surface water monitoring locations;

vii) the March 26, 1993 well development and collection of groundwater samples from each of the newly installed observation well; and

viii) the April 6 and 7, 1993 collection of one synoptic round of groundwater and surface water samples at all Site, historic and proposed, surface water, leachate, and groundwater monitoring locations. This synoptic sampling was to demonstrate the comparative effectiveness of the proposed groundwater and surface water monitoring locations with historically monitored locations; and

ix) the analysis of the above-noted groundwater and surface water samples for selected general chemistry and VOC parameters.

3.2 OBSERVATION WELL INSTALLATION

3.2.1 General

Marathon Drilling Co. Ltd. of Ottawa, Ontario was retained by CRA to perform all the drilling activities and packer tests under the supervision of a CRA hydrogeologist. A technical representative of Golder Associates was also present during the majority of the drilling and packer testing activities. All field decisions with respect to screen placement were made jointly.

3.2.2 Drilling Activities

Boreholes were advanced utilizing a CME 55 track-mounted drill. It should be noted that access to the drilling locations was difficult due to the sharp changes in topographic relief as depicted on Drawing 1.

At the nested observation well locations (OW1A/OW1B-93 and OW2A/OW2B-93), the deeper bedrock borehole was advanced and cored first.

The overburden portion of each borehole was completed utilizing 95 mm (3 3/4-inch) inside diameter (ID) hollow-stem augers. Soil samples were retrieved every 1.5 m (5 feet) as the borehole was advanced utilizing 0.6 m (2 feet) long, split-spoon sampling techniques. All of the collected soil samples were inspected for the olfactory presence/absence of landfill impact. Following this inspection, the soil samples were described according to the Modified Unified Soil Classification System by the on-Site hydrogeologist and recorded on standard stratigraphic log forms. The stratigraphic logs for the individual boreholes are provided in Appendix C. The soil samples were then placed in mason jars labeled to indicate the job number, borehole number, sample number and date. All the mason jars were kept for geologic record and are currently stored at the City of Burlington geotechnical testing laboratory.

Following refusal, the augers were removed and a temporary 102 mm (4-inch) casing was set to refusal.

At each location, the bedrock was cored continuously utilizing diamond drilling techniques in 1.5 m (5 feet) intervals using an HQ size corebarrel to produce a 96.5 mm (3.78-inch) diameter hole. Air was used as the circulating medium during the coring activities. Each core run was placed in a core box and was visually inspected by the on-Site hydrogeologist in the field. Each core run was described to indicate lithology and structure. Close attention was given to the presence and nature of any fractures. Fracture distribution, orientation and spacing were recorded in standard stratigraphic log forms. Measurement of fracture aperture was not technically valid as core drilling and retrieval operations disturbed the fracture.

Rock quality designation (RQD) measurements were also conducted over the length of each core. The RQD measurements were performed by summing the total length of core recovered by counting only those pieces of hard and sound core which were 10 cm (4 inches) or greater in

length and dividing the sum by the total length of that run. A high RQD implies little fracturing while a low RQD implies a higher degree of predominately horizontal fracturing. It should be noted that during advancement of borehole OW2A-93 air bubbles were noted in the adjacent creek to a borehole depth of 9 m (30 ft). This indicates a degree of interconnectivity between the upper bedrock and the adjacent creek.

All core boxes were clearly labeled to indicate the following: job name, job number, borehole number, run number, and depth interval. All core boxes were temporarily covered with plastic sheeting and placed in a temporary storage on-site area. The core boxes are now stored in the City of Burlington geotechnical testing laboratory.

Based on the examination of the core, preferred zones were selected for the performance of packer tests.

3.2.3 Packer Testing Activities

Following the coring activities, preferred fractured zones were selected for the performance of packer tests. Packer tests were conducted by pumping water from the test interval.

A schematic diagram of the packer test assembly is illustrated on Figure 3.2. As shown on this figure the assembly consisted of two pneumatic rubber packers connected with an inflation line. The packers were inflated with compressed nitrogen. A submersible pump (Grunfos) was attached to the inflation line immediately above the lower packer. The length of the inflatable portion of each packer was 0.98 m (3.2 feet). The length of the submersible pump was 0.29 m (11.3 inches). The assembly was capable of isolating 1.5 m (5 feet) of corehole.

The packer test were conducted according to the following procedures:

1) All the coring tools were removed from the corehole;

2) The packer test assembly was lowered down the corehole and packer tests were performed at predetermined zones commencing at the bottom of the corehole. Packer tests at the lowermost part of the corehole were performed using one packer-assembly while the remaining packer tests were performed using a two packer (straddle) assembly.

3) Once the target zone was reached, the packers were inflated with nitrogen to a pressure ranging between 2758 and 3103 kPa (400 and 450 psi). A 1.5 m (5 ft) long zone was isolated during each packer test;

4) Once the packers were inflated to the desired pressure, the water level above the isolated zone was measured and recorded using an electronic (Solinst) water level indicator.

5) The packer tests were initiated by turning the Grunfos pump on to a frequency of approximately 220 Hz.

6) If the isolated interval was unable to produce water during the packer test, the packers were deflated to detect any malfunctions in the pump. In all cases water was discharged while the packers were deflated, thus indicating that the pump was operating correctly.

7) During each packer test, the water level above the isolated interval was measured periodically to detect leakage in the upper packer, if any. If leakage was detected (i.e.. continued decrease in water level), the packers were re-set and re-inflated.

8) Any resultant flow rate was measured using a calibrated 2-imperial gallon bucket and a stop watch.

9) The water discharged from the isolated interval was tested in the field by collecting a sample and measuring its conductivity, salinity and temperature with an electronic portable conductivity meter (Fisher Model 152).

10) Following the completion of a packer test, the packers were deflated and the assembly was placed opposite the next pre-determined interval. The packers were then inflated and procedure outlined above was repeated.

The results of the packer tests are summarized in Table 3.1 and the individual packer test field notes are provided in Appendix C.

3.2.4 Observation Well Installation

Following the selection of a monitoring zone based on the results of the packer tests, an observation well was installed in the borehole. The criteria for the selection of a monitoring zone also included the perceived ability of a fracture zone identified during logging of the core to produce water at a measurable rate. In addition to a recognition of depth, the selection of shallow and deep monitoring intervals was based on the observed conductivity and salinity contrast of the water discharged during the packer test. That lower portion of the corehole not instrumented was backfilled with bentonite pellets and overlain with silica sand prior to screen placement.

Each observation well consisted of a 50 mm (2-inch) diameter pre-cleaned, stainless steel screen 1.5 m (5 foot) in length threaded to stainless steel casing. Following placement of the screen and casing, the borehole was backfilled with an inert silica sand pack to a depth of 0.6 m (2 ft) above the top of the screen. For the shallow installations, the remainder of the borehole was filled with bentonite pellets to 0.6 m (2 feet) below ground surface. For the deep installations, a 0.6 m (2 feet) thick bentonite pellet seal was placed on top of the sand pack and bentonite grout was placed with a tremie pipe to 0.6 (2 feet) below ground surface.

A lockable steel protective casing was installed at each location in at least 0.6 m (2 feet) of concrete. Each observation well was labeled with a unique well number. The specific observation well installation

details are summarized in Table 3.2 and the individual stratigraphic and instrumentation logs are provided in Appendix D.

3.2.5 Gas Probe Installation

Following the installation of the groundwater observation wells, gas probes GP1-93, GP2-93 and GP3-93, were installed adjacent to observation well OW2A/OW2B-93, OW4-93 and OW3-93, respectively. The gas probes were installed in the unsaturated overburden in separate boreholes.

Each borehole was advanced in the overburden to the target depth utilizing 95 mm (3 3/4-inch) ID hollow-stem augers.

Each gas probe consisted of 12.7 mm (1/2-inch) diameter perforated PVC pipe 1.2 m (4 feet) or 0.9 m (3 feet) coupled to PVC pipe. Each gas probe was completed with a stopcock mechanism to facilitate methane gas monitoring. An inert silica sand pack was placed around the perforated section of the gas probe. A bentonite pellet seal at least 0.6 m (2 feet) thick was then placed on top of the sand pack.

A lockable steel protective casing was installed at each gas probe location in at least 0.6 m (2 feet) of concrete. Each gas probe was labeled with a unique identification number.

The specific gas probe installation details are summarized in Table 3.3 and the individual instrumentation logs are provided in Appendix D.

3.2.6 Groundwater Elevation Measurement

All newly installed observation well locations were surveyed by CRA personnel with reference to a City of Burlington geodetic survey monuments 001653088 (Elevation 171.487 m) and 001653087 (Elevation

143.828 m) to establish horizontal and vertical control. Groundwater elevations have subsequently been measured on four occasions and are presented in Table 3.4.

3.2.7 Gas Probe Measurement

Gas probe methane gas measurements were collected by CRA on two occasions, March 25 and April 7, 1993. These results are summarized in Table 3.5. Groundwater levels within the gas probes were not monitored as part of these two events. Golder Associates reported that flooding of the gas probes occurred during the spring melt period. It should further be noted that Golder Associates has conducted a more frequent measurement of these gas probe locations as part of the Jannock study to address MOEE Policy 07-07 provisions.

3.2.8 Well Development

Prior to the initial sampling event each newly installed observation well was developed. Where possible, a minimum of ten well casing volumes were removed on March 25, 1993 prior to the next days sampling event. Generally, temperature, pH and conductivity were measured after removal of two well casing volumes to demonstrate hydraulic and chemical stability. Observation well OW4-93 was slow to recharge, as such, only four casing well volumes were removed. Furthermore, observation well OW1A-93 went dry after approximately one casing volume was removed. Again where possible, a further 3 well casing volumes was removed just prior to the March 26th sampling event.

On April 6, 1993 prior to the second sampling event all newly installed observation wells were again further developed. One to ten well casing volumes were removed. Field temperature, pH and conductivity were recorded after the last volume was purged. A complete well development summary is presented in Table 3.6.

3.2.9 Sampling Program

On March 26, 1993 groundwater samples were collected from each newly observation wells (OW1A/1B-93, OW2A/2B-93, OW3-93 and OW4-93). On April 6 and April 7, 1993 one synoptic round of groundwater, leachate and surface water samples were collected, at all current (1993) and proposed, site surface water, groundwater and leachate monitoring locations.

The analysis of the above noted surface water, leachate and groundwater samples was conducted for selected general chemistry, volatile organic compounds (VOC) consistent with the current 1993/1994 site monitoring specifications. The general chemistry and VOC results for all newly installed proposed groundwater, and proposed surface water locations are provided in Tables 3.7A, 3.7B, 3.8A and 3.8B. Whereas the historical and current 1993 site monitoring results are provided in Appendix E.

3.2.10 Sampling Event Quality Assurance and Quality Control

The March 26th, 1993 and April 6th/7th, 1993 sampling event as well as July and October 1993 sampling event Analytical Assessment and Validation Reports are provided in Appendix F. The validation reports indicate that five analytical results required qualifications in 1993: one qualification for April data, no qualifications for July results and four qualifications for October. In April, the trace amount of bis-2-ethyl hexyl phthalate detected at MH15 was qualified. In October, aluminum and vanadium results for MH15 were qualified based on field blank contamination, while iron and zinc results for the field blank were qualified based on lab blank contamination. No substantive data qualifications are required based on the review of above assessment and validation reports, as such the analytical data generated is deemed acceptable for use.

4.0 SITE HYDROGEOLOGY AND GEOCHEMISTRY

4.1 HYDROGEOLOGIC BACKGROUND

As previously outlined, the Bayview Landfill Site lies adjacent to lands formerly owned by National Sewer Pipe (NSP) which were designated as "Site F" by the Region of Halton for the purpose of the landfill site selection process. To the west of Bayview Landfill lies the closed Region of Halton Burlington Landfill Site (BLF). A number of hydrogeological reports addressing Site F, the adjacent BLF, and the Bayview Landfill were presented as part of the Hearing for a proposed regional landfill site (Morrison Beatty 1980, Dillon 1982, Hewetson 1985, Trow 1986, Geocon 1987, CRA 1988a, Feenstra 1988 and Gartner Lee 1988). The University of Waterloo (Hewetson), Trow Hydrology Consultants and Morrison Beatty have all previously conducted hydrogeologic investigations on Site F. The approximate location of each respective previous investigative observation well is shown on Drawing 1.

A discussion of the hydrogeologic regime within Site F is summarized on pages 83 to 107 within the Reasons for Decision and Decision, dated February 24, 1989, in the matter of an application by the Regional Municipality of Halton for, amongst other considerations, landfilling at Site F within the City of Burlington. A copy of this portion of the decision is included in Appendix G.

In summarizing the above noted reports and decision, the site hydrogeology was characterized by a weathered and fractured shale mantle overlying a less fractured and relatively lower permeable shale bedrock. The fracture pattern within this shale mantle displays considerable variation both vertically and laterally across the site. The pattern of groundwater flow within this fractured shale mantle was expected to be complex. The active flow system was characterized by relatively low chloride concentrations (<2,000 mg/L) found at the Site. The active flow system varies from as much as 20 m thick at monitoring well nests HC4-85 to 0 m at HC8-85. In general however, this system varies from 0 to 5 m in thickness downgradient (south) from the Site. Groundwater in this shallow relatively

active system generally flows laterally through a complex network of interconnected fractures.

The underlying deep groundwater flow system was characterized by strong downward gradients and saline groundwaters. Chloride levels commonly exceed 10,000 mg/L in this system.

A number of well nests and pumping wells were installed on behalf of the Region of Halton by Trow (1986) during the course of the hydrogeologic investigations on Site F. Of these Trow monitoring wells, HC4-85, HC9-85, PW1 and PW3 lie generally downgradient of the Site and were incorporated into the 1988 and subsequent Site Monitoring Programs. In addition, well nests HC6-85 and HC7-85, which also lie generally downgradient of the Site, were incorporated into the 1989 and subsequent Monitoring Programs. It should be noted that well nest HC6 was reported to be damaged and unuseable in 1990 where as HC4-3 was reported as being damaged and unuseable in April 1994.

4.2 SURFACE WATER QUALITY BACKGROUND

Historical leachate seepage has been controlled through the installation of a leachate collection system resulting in a noticeable improvement of surface water quality since 1986.

The upstream surface water quality as demonstrated through review of the historical results of the monitoring program since 1986, indicates the occurrence of generally poor surface water quality within Indian Creek. The poor upstream surface water quality is currently reflected in relatively high levels of fecal and total coliform bacteria.

4.3 LEACHATE SOURCE CHARACTERIZATION

The current and historical Site monitoring program has involved the comprehensive characterization of leachate quality. All

leachate quality analytical results are provided in Appendix E. Leachate samples have been variously collected and analyzed from the six on-site leachate well locations and from Leachate Collection System Manhole 13 and Manhole 15 on at least 26 occasions as of January 1993. Collected leachate samples have been analyzed for General Chemistry, Bacteriological, Metals, Volatile Organic Compounds (VOCs), Base Neutral Acid Extractables (BNAEs), Pesticides and Polychlorinated Biphenyls (PCBs), analytes.

A site leachate source characterization of persistently detected analytes is provided on Table 4.1.

Review of Table 4.1 indicates that leachate quality may be characterized as a low strength leachate typical of a closed (20 plus years) municipal landfill. The average detected chloride concentration ranges from 612 to 1219 mg/L. The 612 mg/L chloride concentration is a representative average of both available leachate well quality and leachate collection system quality. This value (612 mg/L) may also be partially representative of the effects of groundwater dilution of the collected leachate. The 1219 mg/L chloride concentration is a representative average of available leachate well quality from 1986 to 1988.

The representative average concentration of the following compounds is also presented on Table 4.1;

Ammonia Nitrogen	49 mg/L
Kjeldahl Nitrogen	73 mg/L
Phenols	6.6 mg/L

Of particular note are the representative average concentrations of detected volatile organic compounds which have been used as indicator parameters in order to quantify historical groundwater and surface water impacts. These representative volatile organic compound average leachate concentrations are as follows:

Chlorobenzene	21.6 µg/L
1,4 - Dichlorobenzene	6.0 µg/L
Benzene	18.2 µg/L
Toluene	5.0 µg/L

It should also be noted that as of January 1993 while leachate samples have been variously collected on twenty-six occasions, toluene and benzene were detected on only six and eight occasions respectively. Chlorobenzene and 1,4 Dichlorobenzene were detected on 14 and 18 occasions respectively. The above leachate characterization demonstrates that any potential leachate impacts on groundwater and surface water are expected to be relatively minor given the apparent low strength "weak", leachate characteristics.

4.4 HISTORICAL AND CURRENT RESULTS COMPARISON

4.4.1 Hydrogeology

The hydrogeologic system as defined by the hydraulic and geologic information gathered as part of the monitoring and installation of observation wells OW1A, B-93 through to OW4-93 is generally consistent with the previous understanding of the aerial hydrogeologic regime.

Active shallow groundwater flow is predominantly topographically controlled within the upper 6 to 9 m of the underlying weathered/fractured bedrock. Horizontal hydraulic gradients within the shallow active bedrock flow system, as measured between OW4-93 and OW2B-93, are in the order of 0.03 to 0.04. This contrasts with the measured relatively strong downward vertical gradients between the shallow active bedrock flow system and the relatively deeper inactive flow system. These strong downward vertical gradients range between 1.30 and 1.45 as determined at observation well nest OW1A and OW1B-93.

These calculated strong downward vertical hydraulic gradients, between the shallow active and the relatively deep inactive flow

system, inturn contrast with measured downward vertical gradients of 0.04 to 0.11 at shallow active flow system well nest OW2A-93 and OW2B-93. The calculated vertical gradients within the shallow system are similar to the calculated horizontal gradient of 0.03 to 0.04.

While vertical gradients between the deep and shallow system are much greater as compared with those observed shallow system horizontal gradients, it is expected that the majority of groundwater flow through fractures will be lateral with local discharge to surface water, at topographic lows. The majority of groundwater flows occurs horizontally through fractures due to the higher horizontal permeability in the shale as compared to the vertical permeability.

This premise is supported by the observed presence of groundwater seeps along the incised channels of Indian Creek and the degree of fracture interconnectivity observed during the drilling of OW2A-93. The relatively high sustained packer test flow rates, as presented on Table 3.3, in the order of 7 L/min (1.5 igpm) for the shallow active system, further support the principal of predominantly horizontal groundwater flux. No measurable sustained groundwater flows were recorded during the packer testing of the deeper relatively inactive flow system.

The above flow system discussion supports the need for and effectiveness of the existing leachate collection system in controlling leachate migration.

4.4.2 Geochemistry

4.4.2.1 Groundwater

A summary of the two rounds of general chemistry results for each newly installed observation well is provided on Table 3.7A.

Review of this table, coupled with the knowledge that each well has been positioned within the intersected fracture zones of

comparatively higher measured groundwater flow, suggests that these wells are screened appropriately and are therefore capable of monitoring the performance of the Bayview Park Landfill Site.

As demonstrated by the measured chloride concentration of in most cases <100 mg/L, the following observation wells monitor the shallow active flow system.

	Chloride Concentration (mg/L)	
Observation Well	*March*	*April*
OW1B-93	1150	936
OW2A-93	370	78.5
OW2B-93	96	68.9
OW3-93	71/73	49.8
OW4-93	112	32.6

These initial, relatively low levels of chloride suggest that there is no deleterious groundwater impact downgradient of the Bayview Park landfill and that the leachate collection system is effective in controlling off Site leachate migration within groundwater. It is noted that chloride trends as well as trends in other selected parameters will be used to evaluate the performance of the landfill and the leachate collection system.

The relatively lower concentrations measured for samples collected in April likely reflect snow melt contributions which occurred between the March and April sampling events. These relatively low chloride concentrations are indicative of the meteorological contributions and reflect the relatively short residence time within the shallow bedrock.

The measured chloride concentrations of 5780 to 5994 mg/L at observation well OW1A-93 are indicative of the relatively inactive deeper bedrock flow system.

It is anticipated that then once the above shallow flow system chloride trends are further confirmed, chloride changes within these shallow downgradient observation wells may be demonstrated to be of

landfill origin. If this occurs, this impact would likely be as a result of leachate collection system failure. It is however, recommended that sodium and potassium be added to the proposed rationalized monitoring program analytical list so that major ions ratio plots may be constructed to help verify any apparent mixing of leachate with groundwater and surface water.

Review of Table 3.7B, which presents a summary of Volatile Organic Compound Results for each the newly installed observation wells, indicates the persistent presence of chlorobenzene for samples collected OW4-93 which is therefore interpreted to be landfill derived. These detected occurrences range from 63.3 µg/L in March to 11 µg/L in April. The current January 1994 MOEE ODWO for chlorobenzene (monochlorobenzene) is 80 µg/l. Trace levels (0.2 to 1.6 µg/l) of 1,4 dichlorobenzene were detected at OW2B-93 and OW4-93 respectively as part of the March sampling event. Levels of less than <1.0 µg/l of 1,4 dichlorobenzene were detected as part of April sampling event at these same locations.

The relatively low level detected benzene, ethyl benzene, xylene and toluene within both the inactive and active flow system observation wells as part of the March sampling event are likely to be representative of natural bedrock quality. The significance of these BTEX detections will be further evaluated with the aid of additional water quality collected during any future monitoring events.

4.4.2.2 Surface Water

The surface water General Chemistry April 1993 results for representative surface water monitoring locations are presented in Table 4.2. The surface water locations are presented on Figure 3.1 and Drawing No. 1. Historical surface water monitoring locations and 1993 synoptic surface with monitoring results are presented in Appendix E.

As depicted in Table 4.2 the following similar comparison of measured surface water quality at SW9-87 and SW9A-93 indicate that they are both representative of background quality.

Parameter	*April 1993 Results (mg/L) SW9-87*	*SW9A-93*
Field Temperature	7°C	8°C
Field pH	7.99	8.29
Field Conductivity (µmhos/cm)	460	360
Alkalinity	258	239
Chloride	5.02	6.81
Sulphate	95.1	59.1
Ammonia	<0.03	<0.03
Un-ionized Ammonia	0.00054	0.0017
TKN	0.16	0.96
Phenols (µg/L)	<1.0	<1.0

A comparison of upstream and downstream and proposed surface water sampling locations is presented in Table 4.2. Un-ionized ammonia concentrations were calculated utilizing Table 1 of the Water Management Goals, Policies and Objectives and Implementation Procedures of the Ministry of the Environment (revised May 1984). The field measured pH and temperature values were rounded up to allow for a direct and conservative utilization of Table 1.

A review of Table 4.2 indicates that the landfill is not a measureable source of total or fecal coliforms in surface water as landfill vicinity concentrations are less than upstream and downstream levels.

The leachate collection system is performing as designed and there were no observed lechate seeps in 1993..

Natural groundwater discharge into surface water may cause elevated levels of inorganic parameters including chloride, therefore, landfill impacts would be difficult to determine based only on inorganic parameters. As shown in Table 3.8B and in Appendix E no persistent levels of VOCs have been detected at any proposed or current surface water monitoring location since installation of the leachate collection system.

However, as shown on Table 4.2 the landfill appears having a minor effect on surface water quality with respect to increased chloride and to a similar extent ammonia (including un-ionized ammonia) or TKN concentrations at landfill vicinity surface water monitoring locations as compared to upstream and downstream monitoring points. Un-ionized ammonia concentrations are below Provincial Water Quality Objectives of 0.020 mg/L, at all surface water locations with the exception of SW14-93 and SW7-87 for the April sampling event. The unionized ammonia concentration measured at SW7-87 as part of the July 1993 monitoring event is calculated to be 0.0033 utilizing a field temperature of 20°C, a field pH of 8.5 and an ammonia nitrogen concentration of <0.03 mg/l.

Proposed surface water monitoring locations SW9A-93, SW13-93, SW14-93 and SW15-93 effectively demonstrate the appropriateness of these locations as compared with their upstream or downstream counterparts as they show both show similar levels of measured parameters.

4.5 SUMMARY

The above discussions demonstrate that recently installed observation wells are appropriately screened, and the proposed surface water locations are positioned effectively, to monitor with time the environmental performance of the Bayview Park Landfill.

5.0 CURRENT AND ANTICIPATED SITE ENVIRONMENTAL IMPACT

The previously documented occurrence of the relatively "weak" leachate at Bayview Park coupled with the proven performance of the leachate collection system suggest that potential groundwater and surface water impacts will be minimal. The groundwater and surface water resource is not a public or private water supply. The surface water quality, while it has been minimally impacted, is already of poor quality and as discussed below, analyzed Provincial Water Quality Objectives are largely met for samples collected at the proposed Buffer Zone boundary.

5.1 GROUNDWATER

Only trace to low levels of chlorinated volatile organic compounds at concentrations less than the Ontario Drinking Water Objectives were detected within downgradient monitoring wells during this work program. Consequently, it is considered that there is no current defined groundwater impact downgradient of the Bayview Park Landfill. It is anticipated that the continued operation of the leachate collection system will mitigate any landfill derived groundwater contamination. As previously stated, once shallow flow system chloride trends are further confirmed, significant increased chloride concentrations within these shallow downgradient observation wells would likely signify landfill derived impact (barring any other sources). The presence of chlorinated volatile organic compounds are also considered as diagnostic indicators of landfill derived groundwater impact.

5.2 SURFACE WATER

The leachate collection system has been effective in the control of overland leachate seepage. No persistent chlorinated volatile organic compounds have been detected within the surface water monitoring locations since the installation of the leachate collection system. As presented on Table 4.2, there is currently minor surface water quality impact

downstream of the Bayview Park Landfill Site as shown by increased concentrations of ammonia nitrogen, chloride, and/or TKN between upstream and downstream monitoring locations (SW9A-93 and SW13-93, SW11-87 through SW5-87 and SW10-87, SW14-93 through SW7-87 and SW15-83 through SW8-87). The un-ionized ammonia concentration at SW13-93 for the specified pH and temperature at the time of sampling is calculated as 0.0039 which is less that the Provincial Water Quality Objective for un-ionized ammonia of 0.02 mg/L. There is no surface water criteria for chloride. It should be further noted that natural groundwater discharge to surface water may cause elevated levels of inorganic parameters including chloride.

Un-ionized ammonia concentration in excess of the provincial water quality objective were detected at both SW14-93 and SW7-89 as part of the April 1993 sampling event. Un-ionized ammonia concentrations at SW7 were below the provincial water quality objective as part of the July sampling event. Upstream concentrations of total and fecal collifom at SW11-87, SW9-87 and SW9A-93 are the result of an upgradient source of these parameters. It is recommended that E.coli bacteria be analyzed in order to further define the source fecal pollution. E. coli is normally found in the intestines of warm blooded animals and its detection provides a definite evidence of fecal pollution. Fecal coliforms can be found in environmental samples such as food wastes which have not been contaminated by fecal pollution.

The continued operation and maintenance of the leachate collection system should be continued control historical leachate seepage and prevent adverse surface water quality impairment.

6.0 CONTINGENCY MEASURES

6.1 LEACHATE COLLECTION SYSTEM MAINTENANCE

It is anticipated that an access road will be constructed to facilitate leachate collection system maintenance and repair. A formalized leachate collection system and leachate seep inspection program will be also implemented as part of the site monitoring plan discussed in Section 8.0.

6.2 CONTINGENCY OPTIONS

If unacceptable groundwater/surface water impact is occurring from leachate egress the following contingency options are available:

i) upgrade of the leachate collection system to control the presence of persistent, previously unobserved, leachate seepage; and/or
ii) installation of a shallow purge well(s) located within the Buffer Zone.

This contingency option would likely involve the discharge of collected groundwater to the sanitary sewer system which would allow for ultimate treatment at the Skyway Wastewater Treatment Plant.

7.0 BUFFER/ATTENUATION ZONE REQUIREMENTS

The COB and Jannock have reviewed the current and anticipated site conditions and have agreed in concept that the appropriate Buffer/Attenuation Zone land requirements are as shown on Drawing 1 and Figure 3.1. The Buffer/Attenuation Zone would be used for the following purposes:

1) surface water and groundwater monitoring, landfill gas monitoring, adjacent to the landfill and at Buffer Zone boundaries;

2) sufficient room to implement contingency measures for remediation of any unacceptable impact to surface water and groundwater as measured at the boundary of the Buffer Zone; and

3) Ease of access for COB to the landfill leachate collection system for maintenance/inspection purposes.

It is proposed that nested observation wells (shallow and deep) installed at locations OW1A,1B-93 and OW2A,2B-93 to monitor the performance of the landfill at the edge of the proposed Buffer/Attenuation Zone. In addition it is also proposed that three shallow observation wells (OW3-93, PW-3 and OW4-93) also be used to monitor the active groundwater flow zone along the buffer zone boundary. It should be noted that pumping well PW-3 was previously installed by Hydrogeology Consultants and has been part of the Site annual monitoring program since 1988. Surface water monitoring will also be undertaken within the Buffer Zone and along existing perimeter Road allowances.

The Buffer/Attenuation Zone will allow for the attenuation of landfill-derived contaminants and would provide boundary impact monitoring capabilities. As previously stated, this downgradient Buffer Zone would also allow the COB to repair the Leachate Collection System and implement contingency measures as, and if, required.

It is anticipated that the COB would own the subject buffer lands. In large part, the southern boundary approximates the limit of a regionally recognized Oak-Hickory forest complex. This portion of the forest would therefore be preserved.

8.0 RATIONALIZED MONITORING PROGRAM

The Rationalized Monitoring Program's Primary Purpose will be to monitor the effectiveness of the leachate collection system, especially in regard to monitoring the magnitude (if any) of leachate seep derived surface water impacts and ensure no unacceptable groundwater impacts are occurring at the proposed buffer zone boundary. It will also confirm that landfill derived impacts have not and will not occur off property.

The rationalized groundwater program provides an indication of shallow active and deep flow system groundwater quality downgradient of the landfill site. As such, it provides verification that the site is performing as expected and that no unacceptable groundwater impacts are occurring. Upstream, landfill vicinity and downstream surface water quality are also to be monitored to document the presence, if any, of landfill derived contamination.

It is anticipated that all future groundwater and surface water monitoring will be undertaken within the Buffer Zone and along the adjacent road allowances, twice annually (March and July).

The rationalized Monitoring Program is presented on Table 8.1.

The Rationalized Monitoring Program is proposed at this time to be similar to that previously undertaken at the Site with the following exceptions:

i) background surface water monitoring locations SW9-87 and SW12-87 will be deleted from the annual monitoring program as they are located on lands not owned by the COB;

ii) As shown on Drawing 1 and Figure 3.1, surface water location SW9-87 will be replaced by SW9A-93 which will then approximate background surface water quality entering the Buffer Zone;

iii) Downstream surface water locations SW4-87, SW6-87, SW7-87, SW8-87, SW10-87; and SW13-87 will also be deleted from the annual monitoring program. Proposed downstream boundary surface water monitoring locations SW13-92, SW14-92 and SW15-92 will effectively monitor and replace these locations. Flow measurements will be conducted at locations SW9A-93, SW13-93 and SW14-94;

iv) Three shallow monitors (OW3-93, OW4-93 and PW3) as shown on Drawing 1 and Figure 3.1 will be utilized to monitor shallow active groundwater quality downgradient of the leachate collection system;

v) The downgradient water quality in both the shallow and deep bedrock systems will be monitored at observation well nests OW1A/1B-93 and OW2A/2B-93;

vi) A review of the appropriateness of the current analytical parameter list has been undertaken as part of this rationalized monitoring program given the significant historical database, especially in regards to leachate quality given that the site is a closed facility. As such, it is recommended that pesticide and PCB leachate analysis be deleted from the site monitoring program. Pesticides and PCBs have never been detected within the leachate. Continued monitoring of leachate quality for metals, selected VOCs, oil and grease, and Bis-2-ethylhexyl phthalate on an annual basis is largely necessary to demonstrate both compliance with Region of Halton Sewer Use Bylaw and to enhance site leachate characterization;

vii) It is proposed that phenols and sulphate be deleted from the surface water and groundwater analytical lists. Potassium and sodium have been added to these analytical lists so that a major ion ratio plots may be constructed to verify if significant mixing of leachate and groundwater has occurred. Persistently detected elevated chloride and chlorinated organic compounds at shallow active monitoring locations will be primarily utilized to gauge site impacts.

viii) It is recommended that surface water samples also be analyzed for E-coli bacteria as it is a more definitive, MOEE recognized test for, fecal pollution.

ix) Leachate well monitoring in the form of liquid levels and leachate collection system quality determinations is to be conducted to monitor leachate collection system performance and to characterize the source of potential contamination;

x) Leachate seep inspections will also be conducted at all historical leachate seep locations in order that the satisfactory performance of the leachate collection system is demonstrated;

xi) Landfill gas monitoring will be conducted two times annually at each of the three gas probe (GP1-93, GP2-93 and GP3-93) monitoring locations;

xii) It is anticipated that all previously existing observation wells on C of B property be abandoned in a manner consistent with Ontario Regulation 903 s21; and

The results of the above annual monitoring program will be reported on March 1st of the following year as per condition 4 of Provisional Certificate of Approval No. 210103.

9.0 SUMMARY

This report documents the need for a rationalized monitoring program and proposed buffer/attenuation zone for the Bayview Park Landfill. This technical review has been developed jointly between the COB and Jannock such that the COB will have responsibility, and effective control of the landfill and adjacent Buffer Zone lands and Jannock can proceed independent of landfill issues with the possible development of these adjacent lands beyond the Buffer Zone.

The MOEE is asked to approve the rationalized monitoring program and proposed Buffer Zone before the rationalized program can be implemented. Discussions should also be initiated to discuss any amendments to the C of A which may be appropriate to reflect the legal definition of the site given the addition of downgradient buffer/attenuation lands.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Hayes, B.Sc..

Anthony J. Crutcher, P. Eng.

REFERENCES

1) Conestoga-Rovers & Associates (1985), Bayview Park Landfill, Indian Creek Contamination Investigation Report. Prepared for the City of Burlington (July 1985).

2) Conestoga-Rovers & Associates (1986), Addendum No. 1, Detailed Design Report, Leachate Collection System and Surface Drainage Improvements, Bayview Landfill Site. Prepared for the City of Burlington (July 1986).

3) Conestoga-Rovers & Associates (1987), Updated 1986 Monitoring Report, Bayview Landfill Site Report. Prepared for City of Burlington (March 1987).

4) Conestoga-Rovers & Associates (1988a). Evaluation of Halton Region, Landfill Technical Studies, Site F-Burlington, Hydrogeologic Report. Prepared for the City of Burlington.

5) Conestoga-Rovers & Associates Ltd. (1988b). 1987 Surface Water and Groundwater Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

6) Conestoga-Rovers & Associates Ltd. (1989). 1988 Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

7) Conestoga-Rovers & Associates Ltd. (1990). 1989 Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

8) Conestoga-Rovers & Associates Ltd. (1991). 1990 Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

9) Conestoga-Rovers & Associates Ltd. (1992). 1991 Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

10) Conestoga-Rovers & Associates Ltd. (1993). 1992 Monitoring Report, Bayview Park Landfill Site. Prepared for the City of Burlington.

11) Conestoga-Rovers & Associates Ltd. (1994). 1993 Monitoring Report, Bayview Park Landfill Site. Prepared for the City of Burlington.

12) Dillon (1982) Bayview Park Landfill Site, Leachate Discharge Investigation Phase 1. Prepared for the City of Burlington.

13) Feenstra, Stanley (1988). Witness Statement for Reply Evidence. In the Matter of the Consolidated Hearing for the Environmental Assessment of the Proposed Halton Landfill.

14) Gartner Lee Ltd. (1988). Halton Regional Landfill-Burlington, 1987 Monitoring Report. Prepared for the Regional Municipality of Halton.

15) Geocon Inc., (1987). Review of Hydrological Report on Site F - Burlington, Proposed Landfill Region of Halton. Prepared for the Town of Milton.

16) Hewetson J.P. 1985 An Investigation of the Groundwater Zone in Fractured Shale at a Landfill- - MSc Thesis University of Waterloo.

17) Morrison Beatty Ltd. (1980) Phase II Hydrogeologic Investigation National Sewer Pipe Landfill Site Burlington. Prepared for Proctor and Redfern.

18) Trow Hydrology Consultants Ltd. (1986). Halton Region Landfill Technical Report, Site F - Burlington. Prepared for the Regional Municipality of Halton.

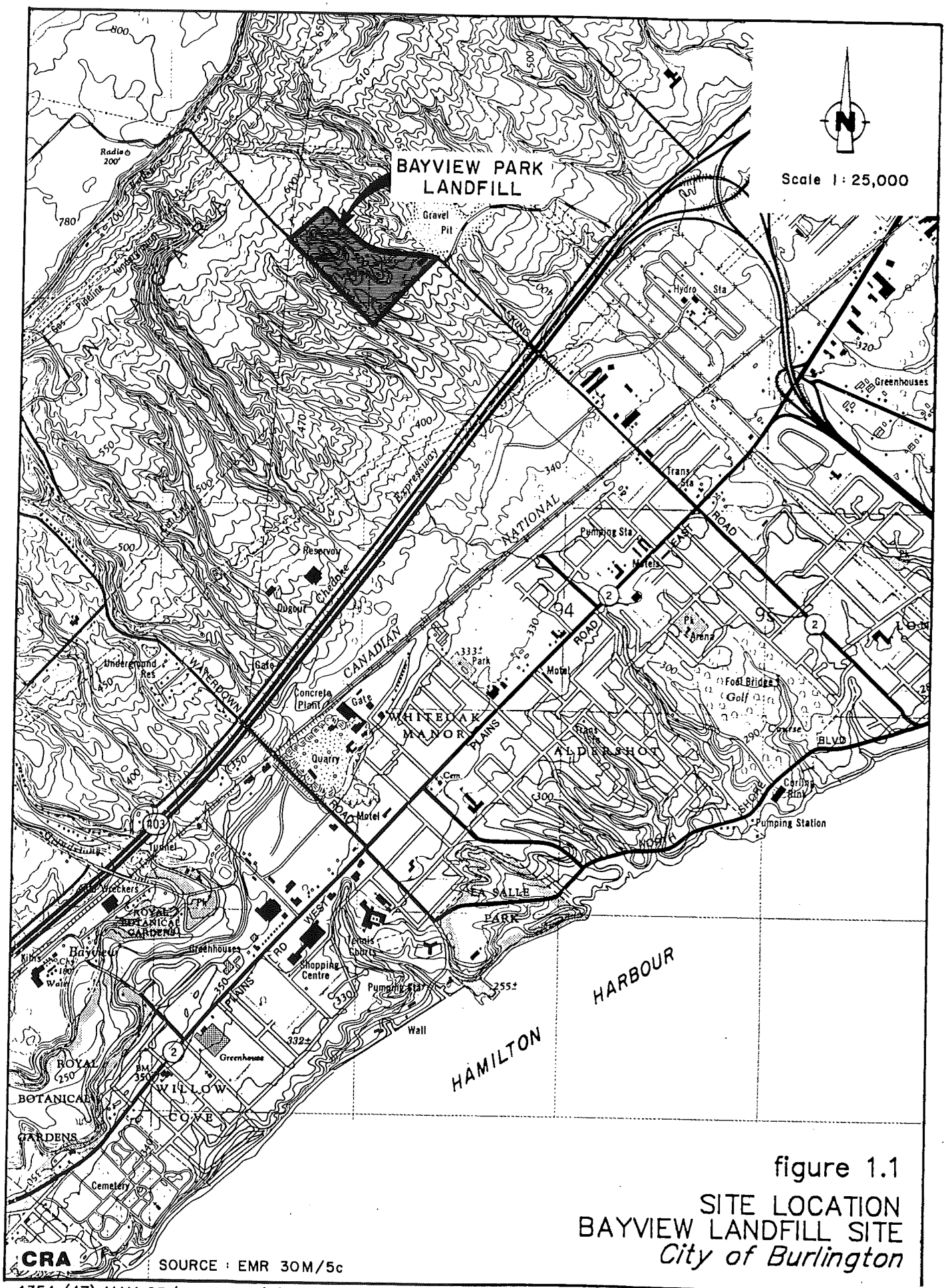


figure 1.1

SITE LOCATION
BAYVIEW LANDFILL SITE
City of Burlington

CRA

SOURCE : EMR 30M/5c

1354 (47) MAY 25/93 REV.0 (W)

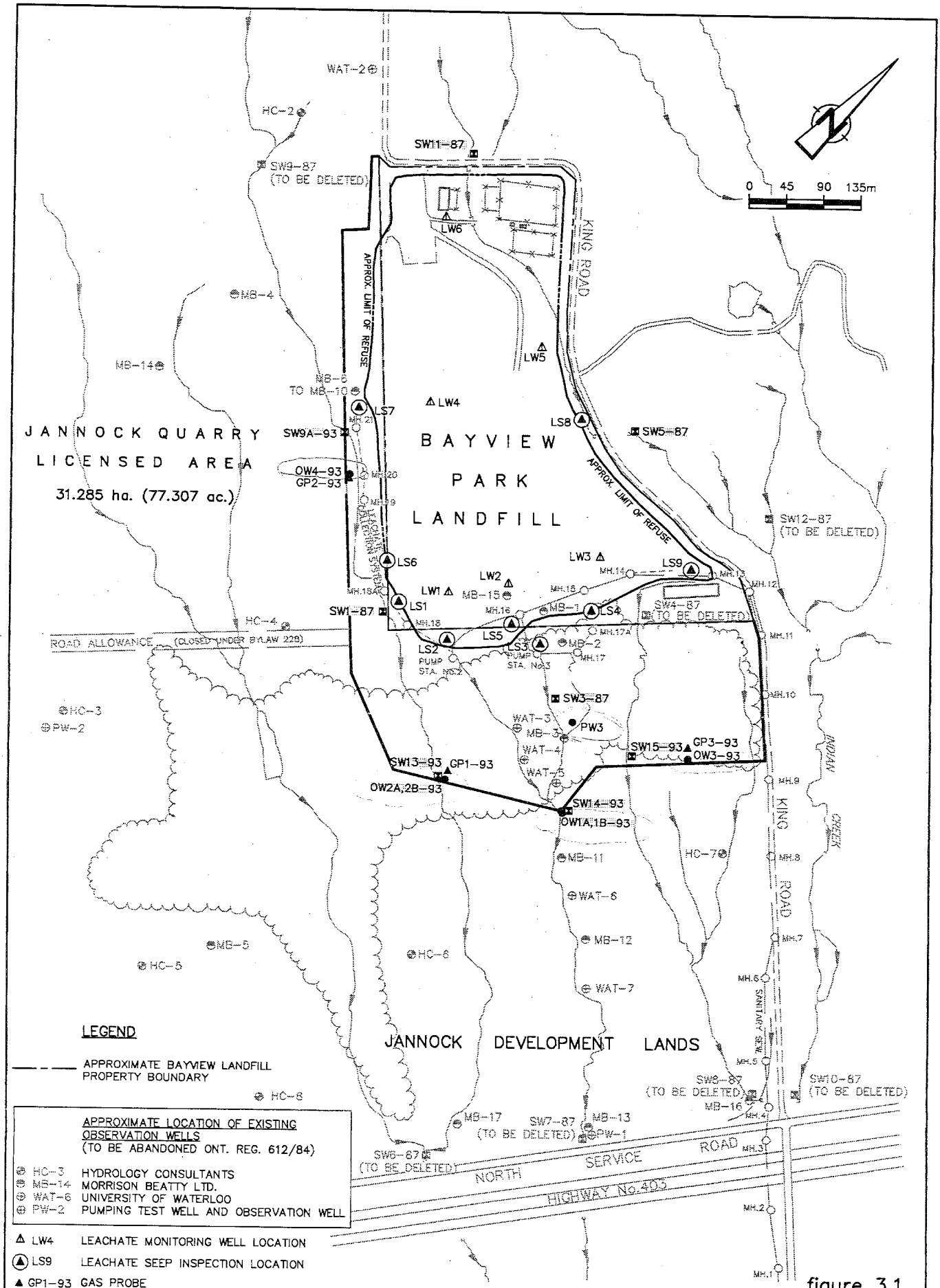


figure 3.1

PROPOSED BUFFER/ATTENUATION ZONE AND MONITORING LOCATIONS BAYVIEW PARK LANDFILL
City of Burlington

1354 (47) JUNE 23/94(W) REV.1 (P-03)

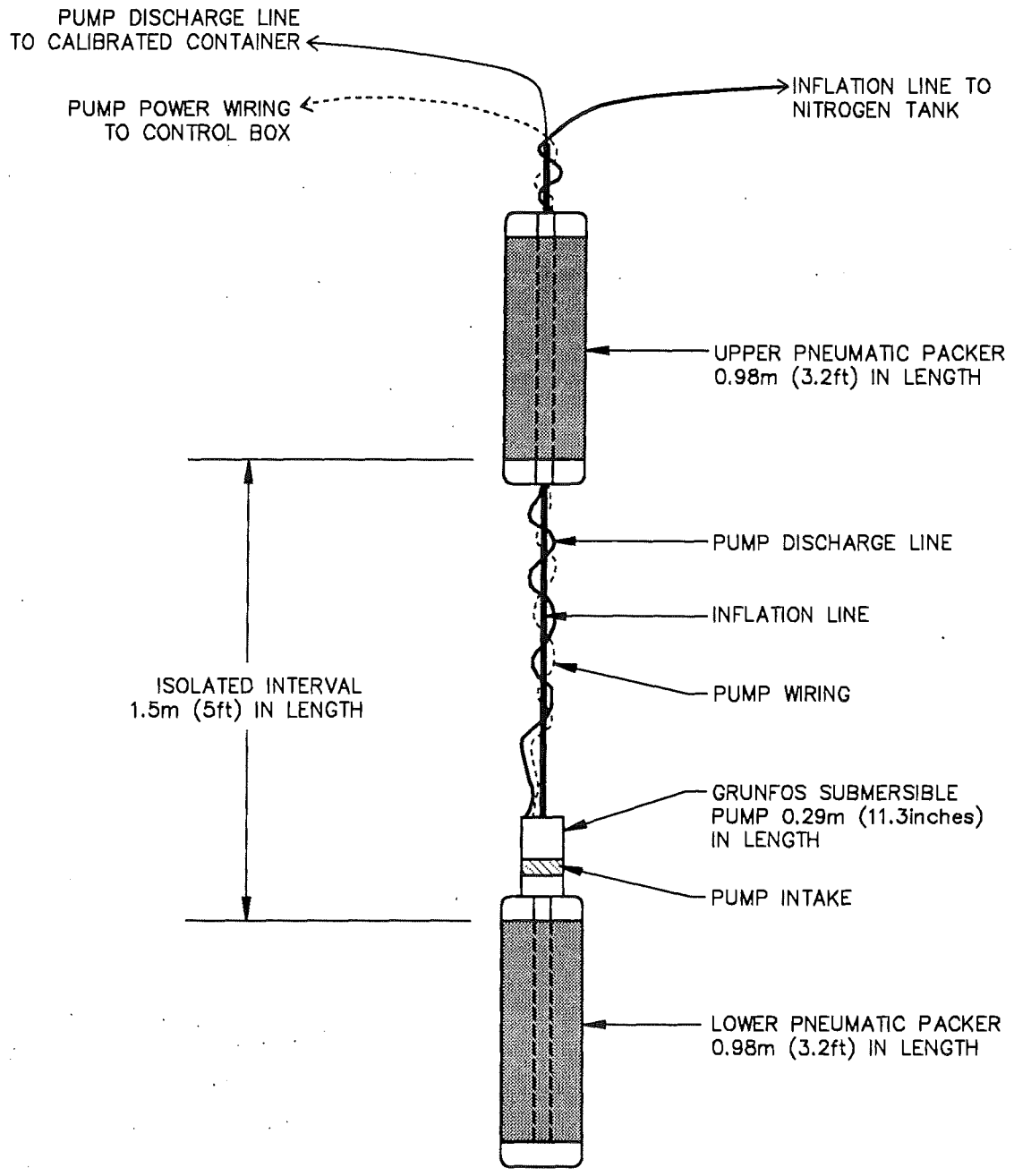


figure 3.2

SCHEMATIC DIAGRAM OF PACKER TEST ASSEMBLY
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL
Burlington, Ontario

CRA

1354 (47) MAY 21/93(W) REV.0 (D-01)

TABLE 3.1

SUMMARY OF PACKER TEST RESULTS
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL
BURLINGTON, ONTARIO

Well No.	*Packer Test No.*	*Depth (ft bgs)*	*Depth (mbgs)*	*Flow (Igpm)*	*Conductivity (µmhos)*	*Salinity (ppt)*	*Temperature (°C)*
OW1A-93	1(1)	75-80	22.9-24.4	None	NA	NA	NA
	1(re-run)	75-80	22.9-24.4	None	NA	NA	NA
	2	65-70	19.8-21.3	None	NA	NA	NA
	2(re-run)	67-72	20.4-22.0	None	NA	NA	NA
	3	56-61	17.1-18.6	None	NA	NA	NA
	4	50-55	15.2-16.8	None	NA	NA	NA
	5	29-34	8.8-10.4	1.5	7,600	5.0	6°
	5(re-run)	29-34	8.8-10.4	1.5	7,700	5.0	5°
	6	14.8-19.8	4.5-6.0	0.4(non-sustainable)	6,400	3.8	5°
OW1B-93	1(1)	30-35	9.1-10.7	0.2(non-sustainable)	7,600	5.0	7°
	2	20-25	6.1-7.6	1.2(non-sustainable)	6,000	3.9	6°
	3	15-20	4.6-6.1	1.5(non-sustainable)	5,600	3.9	5°
OW2A-93	1(1)	74.8-79.8	22.8-24.3	none	NA	NA	NA
	2	68-73	20.7-22.3	none	NA	NA	NA
	3	63-68	19.2-20.7	none	NA	NA	NA
	4	58-63	17.6-19.2	none	NA	NA	NA
	5	53-58	16.2-17.7	none	NA	NA	NA
	6	48-53	14.6-16.2	none	NA	NA	NA
	7	43-48	13.1-14.6	none	NA	NA	NA
	8	38-43	11.6-13.1	none	NA	NA	NA
	9	33-38	10.1-11.6	0.4	3,200	2	6°
	10	28-33	8.5-10.1	0.7	2,000	1	6°
	11	13-18	4.0-5.5	0.7	1,800	1	5°

TABLE 3.1

SUMMARY OF PACKER TEST RESULTS
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL
BURLINGTON, ONTARIO

Well No.	*Packer Test No.*	*Depth (ft bgs)*	*Depth (mbgs)*	*Flow (Igpm)*	*Conductivity (µmhos)*	*Salinity (ppt)*	*Temperature (°C)*
OW2B-93	1	8.3-14.0	2.5-4.3	0.9	700	0.5	6°
OW3-93	1	15-20	4.6-6.1	2.0(non-sustainable)	950	0.5	5°
	1(reset)	18-23	5.5-7.0	2.0(non-sustainable)	1,100	0.3	5°
	1	15-20	4.6-6.1	1.5	980	0.2	5°
	2	11.3-16.3	3.4-5.0	1.5 (non-sustainable)	6,000	0.5	5°
	3	25-30	7.6-9.1	none	NA	NA	NA
OW4-93	1	19.3-24.3	5.9-7.4	NA	4,800	3.0	4°
	2	13-18	4.0-5.5	1.0(non-sustainable)	4,200	3.0	4°
	3(2)	6.6-13	2.0-4.0	1.0(non-sustainable)	2,200	0.5	5°

Notes:

ft bgs - feet below ground surface
m bgs - metres below ground surface
Igpm - Imperial gallons per minute
NA - not applicable due to inability of isolated interval to produce water
1) Packer test performed with only upper packer inflated. Assembly was set at the bottom of the corehole.
2) Packer test performed with only lower packer inflated. Upper part could not be isolated due to the presence of the temporary casing.
[ ] - includes screened interval

TABLE 3.2

OBSERVATION WELL INSTALLATION DETAILS
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL
BURLINGTON, ONTARIO

Well No.	*Ground Surface Elevation (m AMSL)*	*Reference Elevation (m AMSL)*	*Borehole Depth (mbgs)*	*Screened Interval Depth (mbgs)*	*Screen and Sandpack Interval Elevation (m AMSL)*	*Lithology Screened*	*Relative Bedrock Flow System*
OW1A-93	124.84	125.685	24.46	19.81 - 21.34	105.64 - 103.35	shale (Queenston Formation)	deep inactive
OW1B-93	124.88	125.536	10.67	6.10 - 7.62	119.39 - 117.11	shale (Queenston Formation)	shallow active
OW2A-93	129.19	130.126	24.33	10.06 - 11.58	119.74 - 117.46	shale (Queenston Formation)	shallow active
OW2B-93	129.35	130.231	5.28	3.66 - 5.18	126.30 - 124.07	shale (Queenston Formation)	shallow active
OW3-93	132.34	133.205	9.3	4.63 - 6.15	128.38 - 126.09	shale (Queenston Formation)	shallow active
OW4-93	143.19	144.092	7.42	3.05 - 4.57	140.75 - 138.47	shale (Queenston Formation)	shallow active

Notes:

The locations of the above-noted observation wells are shown on Figure 3.1.

mAMSL - metres above mean sea level
mbgs - metres below ground surface

TABLE 3.3

GAS PROBE INSTALLATION DETAILS
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL
BURLINGTON, ONTARIO

Gas Probe No.	*Location*	*Ground Surface Elevation (m AMSL)*	*Screened Interval Depth (m bgs)*	*Screened Interval Elevation (m AMSL)*	*Lithology (1) Screened*
GP1-93	Installed adjacent to OW2A-93	129.4	0.91 - 1.83	128.47 - 127.55	Overburden (ML-Silt)
GP2-93	Installed adjacent to OW4-93	142.9	0.91 - 1.83	142.01 - 141.09	Overburden (ML-Silt)
GP3-93	Installed adjacent to OW3-93	132.4	1.83 - 3.05	130.61 - 129.39	Overburden (ML-Silt)

Notes:

The locations of the above-noted gas probes are shown on Figure 3.1.

m AMSL - metres above mean sea level
mbgs - metres below ground surface

(1) Description according to the Unified Soil Classification System

TABLE 3.4

GROUNDWATER ELEVATIONS
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL SITE
BURLINGTON, ONTARIO

Well Designation	*Reference Elevation (mAMSL)*	*Groundwater Elevation (mAMSL)*				
		March 25/93 (1)	*March 26/93*	*April 6/93*	*April 14/93 (2)*	*May 3/93 (2)*
OW1A-93	125.685	121.35	103.82	104.46	104.59	106.46
OW1B-93	125.536	124.25	124.27	124.41	124.34	124.28
OW2A-93	130.126	127.14	127.16	127.87	127.59	127.56
OW2B-93	130.231	127.84	127.90	128.16	128.02	127.79
OW3-93	133.205	131.61	131.81	132.29	132.19	132.15
OW4-93	144.092	141.32	141.19	141.46	141.50	142.19

Notes:

(1) water levels measured prior to well development.
(2) water levels measured by Golder Associates.

TABLE 3.5

GAS PROBE MONITORING RESULTS (1)
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL SITE
BURLINGTON, ONTARIO

Gas Probe Location	*Date*	
	March 25, 1993	*April 7, 1993*
GP1-93	0.15	0.0
GP2-93	0.0	0.0
GP3-93	0.0	0.0

Note:

(1) Percent combustible gas (calibrated to methane), zero pressure, 5% scale.
(2) MSA Combustible Gas Indicator Utility Model 60
Calibration Check Gas Cylinder (2% methane)

TABLE 3.6

WELL DEVELOPMENT SUMMARY
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL SITE

Well Number	*Date of Development (mm/dd/yy)*	*Casing Well Volume (L)*	*Approximate Well Casing Volume Purged*	*Temperature (°C)*	*pH*	*Conductivity (µm/cm)*	*Clarity*	*Development Method*
OW1A-93	04/06/93	1.9	1	12.0	9.3	12,000	high turbidity	Waterra
	03/25/93	36.0	1	8.0	7.7	10,300	turbid	Waterra
OW1B-93	04/06/93	14.6	10	11.0	6.7	3,800	low turbidity	Waterra
	03/26/93		3	8.0	7.2	4,100	low turbidity	Waterra
	03/25/93	14.1	2	9.0	7.1	3,780	turbid	Waterra
			4	8.5	7.1	3,900	turbid	Waterra
			6	8.5	7.5	3,900	turbid	Waterra
			8	8.0	7.3	4,000	turbid	Waterra
			10	8.5	7.2	4,300	turbid	Waterra
OW2A-93	04/06/93	20.6	5	11.0	6.9	2,050	turbid	Waterra
	03/26/93		3	8.0	6.9	2,100	low turbidity	Waterra
	03/25/93	18.9	2	8.0	6.9	2,000	low turbidity	Waterra
			4	9.0	6.9	2,200	low turbidity	Waterra
			6	9.0	6.9	2,200	low turbidity	Waterra
			8	9.0	6.9	2,200	low turbidity	Waterra
			10	9.0	6.9	2,200	low turbidity	Waterra
OW2B-93	04/06/93	8.2	10	10.0	6.9	925	turbid	Waterra
	03/26/93		3.5	8.0	6.9	1,000	turbid	Waterra
	03/25/93	7.5	2	8.0	6.9	970	turbid	Waterra
			4	8.0	6.9	1,000	turbid	Waterra
			6	8.0	6.9	1,000	turbid	Waterra
			8	8.0	6.9	1,000	turbid	Waterra
			10	7.5	6.9	1,000	turbid	Waterra

TABLE 3.6

WELL DEVELOPMENT SUMMARY
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL SITE

Well Number	*Date of Development (mm/dd/yy)*	*Casing Well Volume (L)*	*Approximate Well Casing Volume Purged*	*Temperature (°C)*	*pH*	*Conductivity (µm/cm)*	*Clarity*	*Development Method*
OW3-93	04/06/93	18.9	10	10.0	7.0	820	low turbidity	Waterra
	03/26/93		3	8.0	7.0	1,340	low turbidity	Waterra
	03/25/93	10.5	2	8.0	7.0	900	low turbidity	Waterra
			4	8.0	7.0	780	low turbidity	Waterra
			6	8.0	7.0	780	low turbidity	Waterra
			8	8.0	7.0	790	low turbidity	Waterra
			10	8.0	7.0	785	low turbidity	Waterra
OW4-93	04/06/93	5.8	2	12.0	7.1	1,200	turbid	Waterra
	03/26/93		3	8.0	7.1	1,340	turbid	Waterra
	03/25/93	5.5	2	8.0	7.0	1,350	turbid	Waterra
			3	8.0	7.1	1,340	turbid	Waterra
			4	9.0	7.1	1,340	turbid	Waterra

TABLE 3.7A

SUMMARY OF 1993 GENERAL CHEMISTRY ANALYTICAL RESULTS FOR THE CONCEPT PROPOSAL OBSERVATION WELLS
(MARCH 26 AND APRIL 7, 1993)
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL SITE

Parameter	*PQL*	*Location*													
		OW1A-93		*OW1B-93*		*OW2A-93*		*OW2B-93*		*OW3-93*		*OW4-93*		*Lab Blank*	
		March	*April*	*March*	*April*	*March*	*April*	*March*	*April*	*March*	*April*	*March*	*April*	*March*	*April*
Field pH		7.65	9.3	7.15	6.7	6.85	6.9	6.90	6.9	7.02	7.0	7.05	7.1	–	–
Field Conductivity		10,300	12,000	4,100	3,800	2,100	2,050	1,000	925	790	820	1,340	1,200	–	–
Field Temperature (°C)		8	12	8.5	11	9.0	11	8.0	10	8	10	8	12	–	–
Alkalinity	0.1	142	41.4	187	207	289	320	489	466	429/428	438	407	440	1.9	–
Chloride	1	5,780	5,994	1,150	936	370	78.5	96	68.9	71/73	49.8	112	32.6	<1	–
Sulphate	0.5	2,380	–	1,770	–	1,300	–	263	–	116/117	–	1,050	–	<0.5	–
Ammonia	0.02	–	10	–	5.8	–	2.6	–	0.08	–	0.74	–	0.18	–	–
TKN	0.06	–	10.2	–	6.48	–	2.82	–	1.43	–	1.14	–	1.64	–	–
Phenols (ug/l)	1.0	–	1.8	–	<1.0	–	<1.0	–	<1.0	–	<1.0	–	<1.0	–	–

Notes:

Concentrations in mg/L unless noted otherwise.
429/428 = Duplicate Analysis
PQL = Practical Quantation Limit
– = Not Analyzed

TABLE 3.7B

SUMMARY OF 1993 VOLATILE ORGANIC COMPOUND ANALYTICAL RESULTS FOR THE CONCEPT PROPOSAL OBSERVATION WELLS
(MARCH 26 AND APRIL 7, 1993)
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL SITE

Parameter	MDL		Location											
			OW1A-93		OW1B-93		OW2A-93		OW2B-93		OW3-93		OW4-93	
	March	April	March	April	March	April	March	April	March	April	March	April	March	April
Chloromethane	2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 /<2.0	<2.0	<2.0	<2.0
Vinyl Chloride	2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 /<2.0	<2.0	<2.0	<2.0
Bromomethane	2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 /<2.0	<2.0	<2.0	<2.0
Chloroethane	2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 /<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane	1.0	2.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0	<1.0 /<1.0	<2.0	<1.0	<2.0
1,1-Dichloroethene	0.5	1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5 /<0.5	<1.0	<0.5	<1.0
Dichloromethane	1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 /<1.0	<1.0	<1.0	<1.0
Trans-1,2-Dichloroethene	0.2	1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2 /<0.2	<1.0	<0.2	<1.0
1,1-Dichloroethane	0.2	1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2 /<0.2	<1.0	<0.2	<1.0
Cis-1,2-Dichloroethene	0.2	1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2 /<0.2	<1.0	<0.2	<1.0
Chloroform	0.2	1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2 /<0.2	<1.0	<0.2	<1.0
1,1,1-Trichloroethane	0.2	1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2 /<0.2	<1.0	<0.2	<1.0
Carbon Tetrachloride	0.2	1.0	<0.2	<1.0	<0.2	<1.0	<0.2	1.5	<0.2	<1.0	<0.2 /<0.2	1.1	<0.2	<1.0
Benzene	0.1	0.5	0.4	<0.5	<0.1	<0.5	<0.2	<1.0	<0.2	<1.0	<0.2 /<0.2	<1.0	<0.2	<1.0
1,2-Dichloroethane	0.2	1.0	<0.2	<1.0	<0.2	<1.0	0.1	<0.5	0.2	<0.5	<0.1 /<0.1	<0.5	1.9	<0.5
Trichloroethene	0.2	1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2 /<0.2	<1.0	<0.2	<1.0
1,2-Dichloropropane	0.2	1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2 /<0.2	<1.0	<0.2	<1.0
Bromodichloromethane	0.2	2.0	<0.2	<2.0	<0.2	<2.0	<0.2	<2.0	<0.2	<2.0	<0.2 /<0.2	<2.0	<0.2	<2.0
cis-1,3-Dichloropropene	0.5	1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5 /<0.5	<1.0	<0.5	<1.0
Toluene	0.2	0.5	3.9	<0.5	0.5	<0.5	1.2	<0.5	0.3	<0.5	0.3 /<0.2	<0.5	1.1	<0.5
Trans-1,3-Dichloropropene	0.5	1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5 /<0.5	<1.0	<0.5	<1.0
1,1,2-Trichloroethane	0.5	2.0	<0.5	<2.0	<0.5	<2.0	<0.5	<2.0	<0.5	<2.0	<0.5 /<0.5	<2.0	<0.5	<2.0
Tetrachloroethene	0.5	1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5	<1.0	<0.5 /<0.5	<1.0	<0.5	<1.0
Dibromochloromethane	1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 /<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	1.0	–	<1.0	–	<1.0	–	<1.0	–	<1.0	–	<1.0 /<1.0	–	<1.0	–
Chlorobenzene	0.2	0.5	<0.2	<0.5	<0.2	<0.5	<0.2	<0.5	<0.2	<0.5	<0.2 /<0.2	<0.5	63.3	11
Ethylbenzene	0.2	0.5	0.4	<0.5	0.2	<0.5	0.2	<0.5	<0.2	<0.5	<0.2 /<0.2	<0.5	<0.2	<0.5
m & p-xylenes	0.2	0.5	1.1	<0.5	0.6	<0.5	0.7	<0.5	0.3	<0.5	0.3 /0.2	<0.5	1.4	<0.5
o-xylene	0.2	0.5	0.7	<0.5	0.2	<0.5	0.3	<0.5	<0.2	<0.5	<0.2 /<0.2	<0.5	0.6	<0.5
Styrene	0.2	–	<0.2	–	<0.2	–	<0.2	–	<0.2	–	<0.2 /<0.2	–	<0.2	–
Bromoform	2.0	2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0 /<2.0	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	1.0	2.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0	<1.0 /<1.0	<2.0	<1.0	<2.0
1,3-Dichlorobenzene	0.2	1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2 /<0.2	<1.0	<0.2	<1.0
1,4-Dichlorobenzene	0.2	1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	0.2	<1.0	<0.2 /<0.2	<1.0	1.6	<1.0
1,2-Dichlorobenzene	0.2	1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2	<1.0	<0.2 /<0.2	<1.0	<0.2	<1.0
2-chloroethylvinylether	–	1.0	–	<1.0	–	<1.0	–	<1.0	–	<1.0	– –	<1.0	–	<1.0

Notes:

Concentrations in µg/L
MDL - Method Detection Limit
March analysis conducted by Barringer Laboratories
April analysis conducted by Mann Laboratories
– not analyzed
☐ detected compounds

CRA 1206 (67)

TABLE 3.8A

GENERAL CHEMISTRY ANALYTICAL RESULTS SUMMARY
FOR PROPOSED SURFACE WATER MONITORING LOCATIONS
(APRIL 7, 1993)
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL SITE

Parameter	*PQL*	*SW9A-93*	*SW13-93*	*SW14-93*	*SW15-93*
Field Temperature		7°C	7°C	8°C	10°C
Field pH		8.29	8.37	7.85	7.88
Field Conductivity		360	440	700	400
Alkalinity	1.0	239	268	370	194
Chloride	0.10	6.81	22.4	95.4	18.7
Sulphate	0.1	59.1	58.9	86.7	39.5
Ammonia	0.02	<0.03	0.07	2.57	<0.03
Un-ionized Ammonia		<0.0017	0.0039	0.0463	<0.0005
TKN	0.06	0.96	0.57	2.8	1.68
Phenols (µg/L)	1.0	<1.0	<1.0	<1.0	<1.0

Notes:

Concentrations in mg/L unless noted otherwise.
PQL = Practical Quantation Limit
-- = Not Analyzed

TABLE 3.8B

VOLATILE ORGANIC COMPOUNDS
ANALYTICAL RESULTS SUMMARY FOR PROPOSED SURFACE WATER MONITORING LOCATIONS
(APRIL 7, 1993)
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL SITE

Parameter	*MDL*	*SW9A-93*	*SW13-93*	*SW14-93*	*SW15-93*
Chloromethane	2.0	<2.0	<2.0	<2.0	<2.0
Vinyl Chloride	2.0	<2.0	<2.0	<2.0	<2.0
Bromomethane	2.0	<2.0	<2.0	<2.0	<2.0
Chloroethane	2.0	<2.0	<2.0	<2.0	<2.0
Trichlorofluoromethane	2.0	<2.0	<2.0	<2.0	<2.0
1,1-Dichloroethylene	1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane	1.0	<1.0	<1.0	<1.0	<1.0
T-1,2-Dichloroethylene	1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	1.0	<1.0	<1.0	<1.0	<1.0
Benzene	0.5	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride	1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	2.0	<2.0	<2.0	<2.0	<2.0
Trichloroethylene	1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropene (Z)	1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropene (E)	1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	2.0	<2.0	<2.0	<2.0	<2.0
Toluene	0.5	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	0.5	<0.5	<0.5	<0.5	<0.5
Ethyl Benzene	0.5	<0.5	<0.5	<0.5	<0.5
Bromoform	2.0	<2.0	<2.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane	2.0	<2.0	<2.0	<2.0	<2.0
1,3-Dichlorobenzene	1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	1.0	<1.0	<1.0	<1.0	<1.0
2-Chloroethylvinyl ether	10	<10	<10	<10	<10
m-p/Xylene	0.5	<0.5	<0.5	<0.5	<0.5
o-Xylene	0.5	<0.5	<0.5	<0.5	<0.5

Notes:

Concentrations in µg/L
MDL = method detetection limit.
Analysis conducted by Mann Laboratories.
[ ] detected compounds

TABLE 4.1

LEACHATE SOURCE CHARACTERIZATION
(PERSISTENTLY DETECTED ANALYTES TO JANUARY 1993)
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL SITE

	Concentration Range (mg/L) (4)	Selected Parameter Average Detected Concentration (1) (mg/L)
General Chemistry Parameters		
Alkalinity	193 - 3370*	
Ammonia Nitrogen	<0.2 - 400*	49
BOD	<2.0 - 58	
Chloride	90 - 3230*	612/1219 (2)
COD	96 - 248	
Field Conductivity (umhos/cm)	1080 - 12300*	
Fluoride	<0.1 - 2.5	
Hardness	760 - 3030	
Kjeldahl Nitrogen	1.03 - 790*	73
Field pH	5.75 - 7.57	
Phenols (ug/L)	<2.0 - 154	6.6
Sulfate	<5 - 1192	
Total Suspended Solids	4.2 - 102	
Organic Nitrogen	0.71 - 0.95	
DOC	3 - 340	
Metals Parameters		
Aluminum	0.02 - 0.46	
Arsenic	<0.0005 - 3*	
Barium	<0.1 - 0.550	
Calcium	181 - 217	
Copper	0.010 - 0.056	
Iron	.04 - 13.5	
Lead	<0.005 - 0.10	
Magnesium	107 - 152	
Manganese	<0.01 - 0.95	
Potassium	62.6 - 137	
Sodium	148 - 371	
Strontium	3.86 - 7.22	
Total Phosphorous	<0.01 - 0.19	
Cadmium	<0.001 - 0.0049	
Chromium	<0.01 - 17*	
Tin	<0.002 - 0.50	
Zinc	0.014 - 0.22	
	<0.02 - 0.051	

TABLE 4.1

LEACHATE SOURCE CHARACTERIZATION
(PERSISTENTLY DETECTED ANALYTES TO JANUARY 1993)
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL SITE

Volatile Organic Compounds	*Concentration Range (µg/L)*	*Selected Parameter Average Detected Concentration(1) (mg/L)*
Chlorobenzene	<0.5 - 299*	21.6
1,4-Dichlorobenzene	<1.0 - 58.2	6.0
Benzene	<0.5 - 48.4	18.2
Toluene	<0.5 - 12.4	5.0
Pesticide and PCBs		
No pesticide or PCB analytes have been persistently detected	--/--	
Base Neutral and Acid Extractables		
Bis (2-ethylhexyl) Phthalate	<0.5 - 137 (3)	
Bacteriological Testing	***Concentration Range (100 ml)***	
Fecal Coliform	<1 - 800	
Fecal Streptococci	<1 - 650	
Total Coliform	<1 --63000*	

Notes:

(1) - Average concentration with anomalously high values not accounted for in average.
* - Anomalously high value.

(2) - 612 mg/L chloride is representative average of both leachate well quality (1986 to 1988) and leachate collection system quality (1986 to 1993).
- 1219 mg/L chloride is representative average of available leachate well quality (1986 to 1988),

(3) - <0.5 µg/L is representative of recently detected concentrations of Bis (2 ethylhexyl) Phthalate.

(4) - General Chemistry and metals Analytical results are presented in mg/L unless noted otherwise.

TABLE 4.2

SURFACE WATER QUALITY COMPARISON (APRIL 1993)
BAYVIEW PARK LANDFILL SITE

Parameter (mg/L)(1)	*Upstream SW9-87*	*Buffer Zone SW9A-93*	*Landfill Vicinity SW1-87*	*Buffer Zone SW13-93*	*Downstream SW6-87*
pH	7.99	8.29	8.3	8.37	8.06
Temperature (°C)	8	7	8	7	13
Conductivity (umhos/cm)	460	360	450	440	460
Alkalinity	253	239	268	268	259
Phenols (µg/L)	<1.0	<1.0	<1.0	<1.0	<1.0
Chloride	5.02	6.81	24.9	22.4	16.2
Sulphates	95.1	59.1	70.2	58.9	62.6
TKN	0.16	0.96	0.23	0.57	0.42
Ammonia	<0.03	<0.03	0.09	0.07	<0.03
Un-ionized Ammonia	<0.0005	<0.0017	0.0050	0.0039	<0.0024
Fecal Coliform (per 100 mL)	<2	<1	<2	--	<2
Total Coliform (per 100 mL)	48	38	<2	--	16
Fecal Streptococci (per 100 mL)	<2	<1	<2	--	<2

Notes:

(1) Concentrations are expressed in mg/L unless noted otherwise.
– Not analyzed.
▒▒ Exceeds Provincial Water Quality Objective.

TABLE 4.2

SURFACE WATER QUALITY COMPARISON (APRIL 1993)
BAYVIEW PARK LANDFILL SITE

Parameter (mg/L)(1)	*Upstream SW11-87*	*Landfill Vicinity SW5-87*	*Downstream SW10-87*
pH	7.40	8.05	8.24
Temperature (°C)	9	8	8
Conductivity (umhos/cm)	380	865	425
Alkalinity	156	340	245
Phenols (µg/L)	<1.0	<1.0	<1.0
Chloride	59.2	168	51.6
Sulphates	46.4	90.3	67.2
TKN	0.33	0.17	0.49
Ammonia	<0.03	0.14	<0.03
Un-ionized Ammonia	<0.0002	0.0078	<0.0017
Fecal Coliform (per 100 mL)	<2	<2	<2
Total Coliform (per 100 mL)	100	<2	40
Fecal Streptococci (per 100 mL)	44	<2	<2

Notes:

(1) Concentrations are expressed in mg/L unless noted otherwise.
– Not analyzed.
▒▒ Exceeds Provincial Water Quality Objective.

TABLE 4.2

SURFACE WATER QUALITY COMPARISON (APRIL 1993)
BAYVIEW PARK LANDFILL SITE

Parameter (mg/L)(1)	*Buffer Zone SW14-93*	*Downstream SW7-87*	*Buffer Zone SW15-93*	*Downstream SW8-84*
pH	7.85	8.35	7.98	7.92
Temperature (°C)	8	9	10	9
Conductivity (umhos/cm)	700	670	400	420
Alkalinity	370	341	194	233
Phenols (µg/L)	<1.0	<1.0	<1.0	<1.0
Chloride	95.4	296	18.7	31.8
Sulphates	86.7	307	39.5	51.9
TKN	2.80	1.06	1.68	0.58
Ammonia	2.57	0.90	<0.03	0.08
Un-ionized Ammonia	0.0463	0.0504	<0.0005	0.0014
Fecal Coliform (per 100 mL)	<1	<1	<1	<1
Total Coliform (per 100 mL)	<1	48	2	8
Fecal Streptococci (per 100 mL)	<1	<1	<1	<1

Notes:

(1) Concentrations are expressed in mg/L unless noted otherwise.
– Not analyzed.
Exceeds Provincial Water Quality Objective.

TABLE 8.1

PROPOSED SITE MONITORING SPECIFICATION
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL

1.0 SURFACE WATER MONITORING

1.1 Locations: 8 Surface water;

Upstream:	SW9A-93, SW11-87
Landfill Vicinity:	SW1-87, SW3-87, SW5-87
Downstream:	SW13-93, SW14-93, SW15-93

1.2 Monitoring Frequency:

Semiannually: March, (wet weather sampling)
July (dry weather sampling)

1.3 Types of Monitoring

1. measure flow rate accurately at SW9A-93, SW13-93, SW14-93 and SW15 -93 location using flow meter and record as L/sec or gpm

2. sampling:

VOCs	EPA List 624 + xylenes
General Chemistry	field pH, field conductivity, field temperature, alkalinity, chloride, sodium, potassium, TKN, ammonia-N,
Bacteria	total coliforms, fecal coliforms, fecal streptococci and E.coli

TABLE 8.1

PROPOSED SITE MONITORING SPECIFICATION
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL

2.0 GROUNDWATER MONITORING

2.1 LOCATIONS

7 Buffer Zone Observation Wells	PW3, OW1A-93, OW1B-93, OW2A-93, OW2B-93, OW3-93, OW4-93

2.2 Monitoring Frequency:

March and **July**

2.3 Types of Monitoring

i) measure well depth and water level at each well

ii) all observations well locations purged at least 10 well casing volumes or dry prior to sampling.

- sample PW3, OW1B-93, OW2A-93, OW2B-93, OW3-93 and OW4-93, after purging, for both VOCs and general chemistry

iii) Sampling: General Chemistry — field pH, field conductivity, alkalinity, TKN, ammonia-N, chloride, sodium, potassium

VOCs — EPA List 624 + xylenes (above six locations only)

2.4

TABLE 8.1

PROPOSED SITE MONITORING SPECIFICATION
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL

3.0 LEACHATE WELL MONITORING

3.1 Location: 6 Leachate Wells LW1, LW2, LW3, LW4, LW5, LW6

3.2 Monitoring Frequency:

Twice per year: **March** and **July**

3.3 Types of Monitoring

1. measure depth with plopper (sound) each leachate well
2. monitor and record leachate level in each well

4.0 LEACHATE COLLECTION SYSTEM MONITORING

4.1 Location: 1 Manhole MH15

4.2 Monitoring Frequency:

Once per year for **leachate quality at MH15**: March

4.3 Types of Monitoring

i) Sampling (at MH15):

General chemistry	see attached parameter list, includes Field pH, Field Conductivity, Field Temperature
Metals & Cyanide	
VOCs	
BNAEs	
Oil and Grease	

6.0 from the next page should be here

TABLE 8.1

PROPOSED SITE MONITORING SPECIFICATION
ENVIRONMENTAL PERFORMANCE REPORT
BAYVIEW PARK LANDFILL

5.0 LANDFILL GAS MONITORING

5.1 Locations: GP1-93, GP2-93 and GP3-93

5.1.1 Monitoring Frequency

Twice per year: **March** and **July**

5.1.2 Types of Monitoring

Measure and record gas levels. If groundwater is present within gas probes measure and record groundwater level prior to recording gas levels the next day.

6.0 LEACHATE SEEP AND LEACHATE COLLECTION SYSTEM INSPECTION

6.1 Locations: 9 Leachate Seeps LS1, LS2, LS3, LS4, LS5, LS6, LS7, LS8, LS9

6.2 Monitoring Frequency:

Twice per year: **March** and **July**

6.3 Types of Monitoring:

i) Identify and photograph any leachate seep that has re-occurred
ii) Estimate flow rate at the seep and report as L/sec or gpm
iii) Complete leachate seep inspection sheets
iv) Report any occurrences of leachate seeps or failure of leachate collection system.
v) It is noted that regular leachate inspections will also be conducted by City of Burlington staff. These reports will be documented and discussed in the annual monitoring report.

APPENDIX A

CERTIFICATE OF APPROVAL NO. 210103

LEACHATE COLLECTION SYSTEM

CERTIFICATE OF APPROVAL NO. 3-0819-86-007

Ontario Environment

NOTICE

ONTARIO MINISTRY OF THE ENVIRONMENT

JUL 17 1986

CENTRAL REGION
OAKVILLE OFFICE

TO: The Corporation of the
City of Burlington
P.O. Box 5013
426 Brant Street
Burlington, Ontario L7R 3Z6

ATTENTION: MS. HELEN MACRAE, CLERK

Take Notice that condition no. 1 of Provisional Certificate of Approval No. A 210103, dated October 11, 1973, is hereby revoked and replaced with the following conditions:

1. Prior to the excavation of any waste in connection with the construction of a leachate collection system approved under Certificate of Approval No. 3-0819-86-007, the City shall file with the Director of Central Region of the Ministry of the Environment (the Regional Director) plans and design details for the relocating and covering of the excavated waste and the recontouring of the site. No waste may be excavated or relocated without the approval of the Regional Director and except in accordance with such plans and design details.

2. All excavated waste shall be handled in accordance with the "Health and Safety Protocol" described in a letter from Greg Ferraro, P. Eng. of Conestoga-Rovers & Associates Limited, to Lyle Parsons of the Ministry dated July 14, 1986.

3. Surface improvements shall be completed in accordance with Section 8.0 of the "Detailed Design Report, Leachate Collection System and Surface Drainage Improvements" dated June 1986 and the "Contract Documents for Surface Drainage Improvements" and associated Plans 1 to 4 issued June 20, 1986.

4. The City shall carry out the monitoring and inspection program as approved by the Regional Director with such modifications as may be approved from time to time by the Regional Director. On or before March 1st of each year, the City shall file a report with the Regional Director containing an analysis and evaluation of the monitoring and inspection program for the previous year.

The reasons for the imposition of these conditions are as follows:

1. The reason for condition 1 is to ensure that the relocation of the waste is carried out in accordance with a defined protocol. Not doing so may create a nuisance and would not be in the public interest.

2. The reason for condition 2 is to protect the health and safety of persons involved in the relocation of the waste.

3. The reason for condition 3 is to reduce infiltration of surface water into the site, to eliminate exposed refuse which is creating a nuisance and to ensure proper control of the site.

4. The reason for condition 4 is to provide for the investigation of groundwater contamination in the area of the site and to ensure that the existing surface water contamination problem is abated by the installation of the leachate collection system.

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board.

This Notice should be served upon:

The Secretary
Environmental Appeal Board
1 St. Clair Avenue West
5th Floor
Toronto, Ontario M4V 1K7

AND

The Director
Section 38, E.P.A.
Ministry of the Environment
135 St. Clair Ave. W.,
Toronto, Ontario M4V 1P5

Dated at Toronto this 16th day of July, 1986.

Director,
Section 38, E.P.A.,
Ministry of the Environment

Ministry of the Environment / Ministère de l'Environnement
Ontario

Certificate of Approval (Sewage)
Certificat d'autorisation (eaux usées)

Number / *Numéro* 3-0819-86-007

Whereas / *Attendu que*

THE CORPORATION OF THE CITY OF BURLINGTON

of / d

has applied in accordance with Section 24 of the Ontario Water Resources Act for approval of;
a fait, conformément à l'article 24 de la loi sur les ressources en eau de l'Ontario, une demande d'autorisation:

A new leachate collection, pumping and transmission system to collect and dispose of (into the City of Burlington's municipal sanitary sewer system) surface leachate and contaminated shallow groundwater from the closed Bayview Park sanitay landfill site bounded by King Road to the northeast and the upper reaches of Indian Creek to the southwest in the City of Burlington, consisting of a toe drain system located at the base of a ravine to the west of the landfill area running approximately 250 metres north of the landfill south property line, two pre-fabricated leachate collection sumps having twin (one duty and 1 standby), 1.5 and 2.0 KW explosion proof submersible type pumps, each pump being rated at:

Pump	Rated Head (m)	Rated Capacity (L/min)
3	17.4	225
3	19.9	200

together with all associated pump level controls, access hatch, electrical control panel internal sump piping, fittings and appurtenances as well as a 200 mm buried perforated PVC leachate collector header at each sump location and 50-75 mm diameter high density polyethylene collected leachate forcemains located along the south edge of the landfill fill area discharging to a 200 mm diameter leachate collection sewer and forcemain, the forcemain section of the sewer being located within the fill area of the landfill (southern edge) for a distance of 120 metres to a height of land with the gravity section of the leachate collection sewer continuing along the south side of the landfill to King Road a distance of 470 m. The sewer then turns south following the west ditch of King Road down to the North Service Road, a distance of approximately 590 metres. The gravity sewer then changes diameter to 450 mm and crosses under the North Service Road and Highway 403 at a point 20 m west of the King Road Overpass. The sewer crosses Highway 403 (a distance of 80 m) and then continues south for 127 metres on the west side of King Road to an existing 450 mm municipal sanitary sewer located on King Road, all in accordance with the documents listed in Schedule "A" (attached) at a total estimated cost, including engineering and contingencies, of EIGHT HUNDRED AND FIFTY THOUSAND DOLLARS ($850,000.00), subject to the following special terms and conditions considered necessary by the undersigned:

....2

Now therefore this is to certify that after due enquiry the said proposed works have been approved under Section 24 of the Ontario Water Resources Act.

Le présent document certifie qu'après vérification en bonne et due forme la construction dudit projet d'ouvrages a été approuvée aux termes de l'article 24 de la loi sur les ressources en eau de l'Ontario.

This Certificate supercedes Certificate of Approval No. 3-0819-86-006 issued at Toronto, on June 27, 1986.

DATED AT TORONTO this 16th day of July, 1986
DATÉ À TORONTO ce *jour d*

Attn: Ms. H. MacRae, Clerk, City of Burlington
cc: M. Keavoets, Dir. of Works
M.H. Boggs, Chief Admin. Officer
D.J. Varley, Clerk, R.M. of Halton
J. Tidball, MOE Legal Services Br.
D. Mierzynski, MOE Reg. Dir.
Conestoga-Rovers & Assoc. Ltd.

cc: G. Nelson, MOE Halton Peel Dist. Office
R.W.J. Moore, Reg. Engr.
B.S. Christensen, National Sewer Pipe

Director / *Directeur*

0/31 05 84

Ministry of the Environment / Ministère de l'Environnement
Ontario

Certificate of Approval (Sewage)
Certificat d'autorisation (eaux usées)

Number / *Numéro* 3-0819-86-007

Whereas / *Attendu que*

of / d'

has applied in accordance with Section 24 of the Ontario Water Resources Act for approval of:
a fait, conformément à l'article 24 de la loi sur les ressources en eau de l'Ontario, une demande d'autorisation:

SPECIAL TERMS AND CONDITIONS

1. Upon completion of the sewage works the Corporation of the City of Burlington shall supply the Ministry of the Environment, Environmental Approvals and Land Use Planning Branch with as-constructed drawings for the on-site works namely those works between Manhole No. 12 and Manhole No. 21, including all works located within the Bayview Park Landfill site boundary as shown on the engineering drawing entitled Bayview Park Landfill Leachate Collection System, General Layout, Drawing No. 06, Sheet 1 of 15, prepared by Conestoga-Rovers & Associates Limited dated April, 1986 revised as per addendum No. 1 and Change Order No. 1.

2. All liquids which require dewatering for any reason during construction of all on-site works between Manhole No. 12 and Manhole No. 21 as described in Condition No. 1 shall be discharged to a sanitary sewer. Written records of volumes of liquids dewatered shall be supplied to the MOE inspector upon request.

Now therefore this is to certify that after due enquiry the said proposed works have been approved under Section 24 of the Ontario Water Resources Act.
Le présent document certifie qu'après vérification en bonne et due forme la construction dudit projet d'ouvrages a été approuvée aux termes de l'article 24 de la loi sur les ressources en eau de l'Ontario.

DATED AT TORONTO this 16th day of July, 1986
DATÉ À TORONTO ce jour d

/ec

.....
Director / Directeur

ONTARIO MINISTRY OF THE ENVIRONMENT
JUL 17 1986
CENTRAL REGION
OAKVILLE OFFICE

Ministry of the Environment
Ontario

NOTICE

TO: The Corporation of the City of Burlington
Box 5013
426 Brant Street
Burlington, Ontario
L7R 3Z6

You are hereby notified that a Conditional Certificate of Approval No. 3-0819-86-007 has been issued to you subject to the conditions outlined therein.

The reasons for the imposition of these conditions are as follows:

1. The filing of as-constructed drawings with the Ministry of the Environment, Environmental Approvals and Land Use Planning Branch is necessary to show that the sewage works were built in conformity with the approved documents listed as Schedule "A" in Certificate of Approval No. 3-0819-86-007 if any questions arise as to what was actually constructed.

2. Liquids from this site contain contaminants which may impair the quality of water in Indian Creek if discharged, contrary to Section 16 of the Act.

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board.

This Notice should be served upon:

The Secretary,
Environmental Appeal Board,
1 St. Clair Ave. West,
5th Floor,
Toronto, Ontario.
M4V 1K7

AND

The Director,
Section, 24, OWR Act,
Ministry of the Environment,
135 St. Clair Ave. West,
Toronto, Ontario.
M4V 1P5.

DATED at Toronto this 16th day of July , 19 86 .

Director,
Section,
Ministry of the Environment.

1771 (09/84)

SCHEDULE "A"

This Schedule "A" forms part of Certificate of Approval No. 3-0819-86-007 issued on July 16, 1986.

1. Detailed design drawings prepared by Conestoga-Rovers and Associates Limited, Consulting Engineers, issued June 23, 1986 and date stamped July 8, 1986 Environmental Approvals and Land Use Planning Branch entitled Bayview Park Landfill, Leachate Collection System, Contract No. 86-16.

2. Contract Specifications dated June, 1986 entitled City of Burlington, Bayview Landfill Site Leachate Collection System and Surface Drainage Improvements, Contract 86-16, File 760.04-2 (noted by MOE as a second submission).

3. A letter dated June 17, 1986 to Mr. Lyle Parsons from Greg Ferraro, P.Eng. entitled Addendum No. 1, Bayview Park Landfill, Leachate Collection System detailing changes to the Leachate Collection System, Contract 86-16.

4. A letter dated June 23, 1986 to Lyle Parsons, B.E.S. Systems Co-ordinator from Alan Ramsay, Environmental Management Co-ordinator, The Corporation of the City of Burlington, with attached Addendum No. 2, Bayview Park Landfill, Leachate Collection System detailing changes to the leachate pumping system, Contract 86-16.

5. Change Order No. 1 dated June 25, 1986 entitled Corporation of City of Burlington, Bayview Park Landfill, Leachate Collection System Contract 86-16, unsigned.

6. A letter dated June 26, 1986 to Mr. Lyle F. Parsons, B.E.S. Systems Co-ordinator from Greg Ferraro, P.Eng., entitled Change Order No. 1, City of Burlington, Bayview Park Landfill Leachate Collection Systems with attached Appendix A entitled PVC and HDPE Pipe Strength Calculations.

7. A letter dated July 4, 1986 to Mr. T. Armstrong, Acting Director Environmental Approvals and Land Use Planning Branch from Michael N. Boggs, Chief Administrative Officer entitled Bayview Park Landfill Site, Ontario Water Resources Act Application.

APPENDIX B

CURRENT 1994 MONITORING PROGRAM

BAYVIEW PARK LANDFILL SITE

CONESTOGA-ROVERS & ASSOCIATES
1994 SITE MONITORING SPECIFICATIONS

PROJECT: Bayview Park Landfill Site

PROJECT NO.: 1354-30

PROJECT MANAGER: Greg Ferraro

PROJECT COORDINATOR: Peter Hayes

MONITORING STAFF:		RESPONSIBILITY
	Roger Waller	Field Technician
	John Duda	Field Technician
	Rob Toth	Coordinator/Chemist QA/QC

LABORATORY USED: CAS, Novamann (Ontario) Ltd. (Mann)

AUTHORIZATION:	MONITORING EVENT	SIGNATURE	DATE
	April	_____	_____
	July	_____	_____
	October	_____	_____

MONITORING PROGRAM DESCRIPTION
- surface water monitoring Section 1.0
- leachate level monitoring Section 2.0
- leachate collection monitoring Section 3.0
- off-Site groundwater monitoring Section 4.0
- leachate seep inspection Section 5.0

SPECIAL INSTRUCTION
- January event: water levels only
- **April event:**
- July event:
- October event:

REVISION:	DATE	REVISION
	March 2, 1994	review April '94 for monitoring event

1.0 SURFACE WATER MONITORING

1.1 Locations: 12 surface water: SW1-87, SW3-87, SW4-87, SW5-87, SW6-87, SW7-87, SW8-87, SW9-87, SW10-87, SW11-87, SW12-87, SW13-88

sample locations	12
duplicates	1
field Blank	1
Total	14

(additional trip blank for VOCs)

1.2 Monitoring Frequency:

Semiannually: April, after significant rainfall (wet weather sampling) July (dry weather sampling), if July sampling event is dry then surface water samples will be collected in October

1.3 Types of Monitoring

1. measure flow rate accurately at each location using flow meter and record as L/sec or gpm

2. sampling:

VOCs	see Table A.1
General Chemistry	field pH, field conductivity, alkalinity, chloride, sulfate, TKN, ammonia-N,
	phenols
Bacteria	total coliforms, fecal coliforms, fecal streptococci

3. laboratory detection limit for ammonia must be less than 0.02mg/l

2.0 LEACHATE WELL MONITORING

2.1 Location: 6 Leachate Wells LW1, LW2, LW3, LW4, LW5, LW6

2.2 Monitoring Frequency:

Twice per year: April and July

2.3 Types of Monitoring

1. measure depth with plopper (sound) of each leachate well
2. monitor leachate level in each well

3.0 LEACHATE COLLECTION SYSTEM MONITORING

3.1 Location: 2 Manholes MH15 and MH14

Sample location	1 (MH15 only)
Field blank	1

(additional trip blank for VOCs in October only)

3.2 Monitoring Frequency:

Two times per year for leachate quality at MH15: April and October

3.3 Types of Monitoring

1. Sampling (at MH15):

General chemistry	see Table A.1, includes Field pH and Field Conductivity
Metals & Cyanide	see Table A.1
VOCs	see Table A.1
BNAEs	see Table A.1
Pesticides & PCBs	see Table A.1

NOTE: Attached parameter list (Table A.1) must be followed with no emissions.

4.0 OFF-SITE GROUNDWATER MONITORING

4.1 APRIL - WET WEATHER MONITORING EVENT

4.1.1 Locations:

11 Groundwater	PW1, PW3, HC4-2, HC4-3, HC4-4, HC6-2, HC6-3, HC7-1,HC7-2 HC9-2, HC9-3

General chemistry	
Sample locations	11
Duplicates	2 (one each of PW series and HC series)
Field Blank	1
Total	14
VOCs	
Sample locations	2 (PW1, PW3)
Duplicate	1
Total	3

4.1.2 Monitoring Frequency:

APRIL, after significant rainfall

4.1.3 Types of Monitoring

1. measure well depth and water level at each well

2. pump PW1 and PW3 for a minimum of 5 (five) hours (keck pump or well wizard purge pump may be used)

- sample PW1 and PW3, after pumping

3.	Sampling:	General Chemistry	field pH, field conductivity, alkalinity, TKN, ammonia-N, chloride
			phenol
		VOCs	see Table A.1 for VOC analyses

4.2 JULY - DRY WEATHER MONITORING EVENT

4.2.1 Locations:

11 Groundwater	PW1, PW3, HC4-2, HC4-3, HC4-4, HC6-2, HC6-3, HC7-1, HC7-2, HC9-2, HC9-3

General chemistry	
Sample locations	11
Duplicates	2 (one each of PW series and HC series)
Field Blank	1
Total	14

VOCs	
Sample locations	6 (2 PW series and 4 HC series wells)
Duplicate	2 (one each of PW series and HC series)
Field Blank	1
Total	9

4.2.2 Monitoring Frequency:

JULY, after significant dry period

4.2.3 Types of Monitoring

1. measure well depth and water level at each well

2. pump PW1 and PW3 for a minimum of 5 (five) hours (Keck pump or Well Wizard purge pump may be used)
   - sample PW1 and PW3 after pumping for VOCs and general chemistry

3. sample select HC series for VOCs, one well at each HC nest, wells to be sampled will be verified by Peter H. prior to monitoring event

4.	Sampling:	General Chemistry	field pH, field conductivity, alkalinity, TKN, ammonia-N, chloride
			phenol
		VOCs	see Table A.1 for VOC analyses

5.0 LEACHATE SEEP INSPECTION

5.1	Locations:	9 Leachate Seeps	LS1, LS2, LS3, LS4, LS5, LS6, LS7, LS8, LS9

5.2 Monitoring Frequency:

Four times per year: January, April, July and October

5.3 Types of Monitoring:

1. Identify and photograph any leachate seep that has re-occured
2. Estimate flow rate at the seep and report as L/sec or gpm
3. Complete leachate seep inspection sheets
4. Report any occurrences of leachate seeps immediately to Greg Ferraro or Peter Hayes.

6.0 BOTTLE REQUIREMENTS

Analytical Destination	Samples Analyzed	Test Parameters
a) April		
CAS	**30 X 1000 mL**	**General Chemistry**
	30 x 500 ml	**Phenols**
Mann	**15 x bacteria kits**	**Bacteria**
Mann	**20 x 2 x 40 ml (+ 2 trip blanks)**	**VOCs**
	2 x 500 ml	**metals**
	2 x 250 ml	**mercury**
	2 x 250 ml	**cyanide**
	2 x 1000 ml	**BNAEs**
	2 x 1000 ml	**Pesticides & PCBs**
b) July		
CAS	30 X 1000 mL	General Chemistry
	30 x 500 ml	Phenols
Mann	15 x bacteria kits	Bacteria
Mann	25 x 2 x 40 ml (+ 2 trip blanks)	VOCs
c) October		
CAS	2 x 1000 ml	General Chemistry
	2 x 500 ml	Phenols
Mann	3 x 2 x 40 ml	VOCs
	2 x 500 ml	metals
	2 x 250 ml	mercury
	2 x 250 ml	cyanide
	2 x 1000 ml	BNAEs
	2 x 1000 ml	Pesticides & PCBs

TABLE A.1
LEACHATE PARAMETER LIST
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

GENERAL CHEMISTRY (CAS)

Hardness	Alkalinity	Fluoride
Chloride	Sulfate	Phosphorous (total)
TKN	Ammonia-N	Phenols
BOD	COD	Suspended Solids

METALS & CYANIDE (Mann)

Aluminum (total)	Antimony (total)	Arsenic (total)
Barium (total)	Bismuth (total)	Cadmium (total)
Chromium (total)	Cobalt (total)	Copper (total)
Iron (total)	Lead (total)	Manganese (total)
Mercury (total)	Molybdenum (total)	Nickel (total)
Selenium (total)	Silver (total)	Tin (total)
Titanium (total)	Vanadium (total)	Zinc (total)
Cyanide (total)		

VOCs (Mann)

1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane
Benzene	Trichloroethylene	Toluene
Tetrachloroethylene	Ethylbenzene	Chlorobenzene
1,3-Dichlorobenzene	1,4-Dichlorobenzene	m + p-Xylene
o-Xylene		

BNAEs (Mann)

bis(2-ethylhexyl)Phthalate

PESTICIDES & PCBs (Mann)

Aldrin	Carbaryl	Chlordane (Alpha and Gamma)
DDT	Diazinon	Dieldrin
Endrin	Heptachlor	Heptachlor Epoxide
Lindane (Gamma BHC)	Methoxychlor	Methyl Parathion
Parathion (Ethyl Parathion)	Toxaphene	PCBs

APPENDIX C

PACKER TEST FIELD NOTES

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: 1354
PROJECT NAME: B.P.L.
DATE: March 03/93

DESIGNED BY: G.L.
CHECKED BY:
PAGE 1 OF 8

POW # 1 Deep (OW1A-93)

1354
FIELD FILE

Packer Test #1

Depth : 75 - 80 Ft bgs
Inflation pressure : 400 psi
Note : performed test with only one packer (upper)

Pumped for 2 minutes and noticed dropped in water level of 2.88m btoc to 3.01m btoc. Packer was leaking. Removed 2 gallons.

Packer Test #1 re-run.
same depth
same inflation pressure

Pumped for approximately 2 minutes. No water was pumped out of this interval. Water level did not change (2.89m btoc). Deflated the packers and pumped water out. Pump is working (about 220-240 Hz working range).

POW #1 Deep. (OW1A-93)

Packer Test #2

Depth: 65 - 70 ft bgs.
Inflation pressure: 400 psi

Pumped for 2 minutes twice. No water was pumped out of this interval. Water level did not change (3.51 m btoc). Deflated packers on both occasions and pumped water out. Pump is working.

Packer Test #2 re-adjusted packers

Depth: 67 - 72 ft bgs
Inflation pressure: 400 psi

Pumped for 2½ minutes. No water was pumped out of this interval. Water level (1.90 m btoc did not change). Deflated packers. Pumped water out so the pump was noted to be working.

POW # 1 Deep. (OW2A-93)

Packer Test #3

Depth: 56 - 61 Ft bgs
Inflation pressure: 400 psi

Pumped for 2 minutes. Water was not pumped from this interval. Water level at 1.90 m btoc did not change. Deflated packers and pumped water out. The pump was working.

Packer Test #4

Depth: 50 - 55 Ft bgs
Inflation pressure: 400 psi

Pumped for 2 minutes. No water was pumped out of this interval. Water level at 1.90 m btoc did not change. Packers were deflated. Pump was working.

POW 1 Deep (OW1A-93)

Packer Test # 5 : At the request of Jim Robinson (Golder's

Depth : 29- 34 ft bgs.
Inflation pressure : 400 psi

Sample # 1

12 gallons
cond. 6,000 mmhos/cm
sal. 5 ppt
T 4°C

Sample # 2

16 gallons

cond. 7,200
sal. 5 ppt.
T 4°C

Sample # 3

20 gallons

cond. 7,400
sal. 5 ppt
T 5°C

Packer Test # 5 continued

POW 1 Deep
(OW2A-93)

Sample # 4

28 gallons
cond. 7,600
salinity 5ppt
T 5°C

Sample # 5

32 gallons

cond. 7,400
sal. 5 ppt
T 6°C

Sample # 6

36 gallons

cond. 7,600
sal. 5ppt
T 6°C

Noted slight leaking of packers water level at beginning of test was 2.07 m btoc and at end of test. was 2.26 m btoc Pumped 40 gallons (I) for 26 minutes. Pumping ate approximately 1.5 Igpm. Individual measurements indicated that it took approximately 1 minute and 20 seconds to discharge 2 gallons out of this interval.

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: _____
PROJECT NAME: _____
DATE: _____

DESIGNED BY: _____
CHECKED BY: _____
PAGE 6 OF 8

POW 1 Deep. (OW1A-93)

Packer Test # 5 Re-tested due to minor leakage observed during previous test of 29-34ft bgs.

Depth : 29-34ft bgs
Inflation pressure : 400 psi

Sample #1
6 gallons
cond. 8,000
sal. 5ppt
T 4°C

Sample #2

12 gallons
cond. 8,200
sal. 5ppt
T 4°C

Sample #3
24 gallons

cond. 8,400
sal. 5ppt
T 5°C

Sample # 4
30 gallons
cond. 8,000
sal. 5ppt
T 5°C.

(OWSA-93)

Sample # 5 34 gallons
Cond. 8,000
Sal. 5ppt
T 5°C

Sample # 6

40 gallons

Cond. 7,700
Sal. 5ppt
T 5°C

Pumped at a rate between 1.5 - 1.7 Igpm. Slight leakage. Initial level 2.73m btoc. Level at the end 2.94m btoc. Sharp drop in water level at end likely caused decrease in conductivity from 8,000 to 7,700 umhos/cm.

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: _____
PROJECT NAME: _____
DATE: March 03/93

DESIGNED BY: _____
CHECKED BY: _____
PAGE 8 OF 8

POW # 1 Deep. (OW1A-93)

Packer Test # 6 At request of Jim Robinson (Golder's)

Depth : 19'10" – 14'10" (upper packer in 4 inch ø casing 14'10" corresponds to top of more competent bedrock.
Inflation pressure : 450 psi

Pumped 3 gallons in approximately 7 minutes (0.45 gpm) and pumped dry.

sample # 1.

cond. 6400
T 5° C
Sal. 3.8 ppt.

Allowed to recover for 7 minutes then pumped dry after withdrawal of approximately 1 liter. Same conductivity, salinity and temperature.

Allowed to recover for about 2 minutes then pumped dry again after approximately 0.25 liter. Same conductivity, salinity and temperature.

Terminated ~~test~~.

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: 1354
PROJECT NAME: B.P.L.
DATE:

DESIGNED BY: G.L.
CHECKED BY:
PAGE ____ OF ____

POW # 1 Deep.

Based on visual examination of the core to select the deep screened interval at POW 1 location the following were noted:

50 - 55 ft. → no water-bearing fractures
55 - 60 ft → fracture zone 58.9 - 59.3 ft.
60 - 65 ft → no water-bearing fractures
65 - 70 ft → 68.3 - 68.5 ft fracture zone
70 - 75 ft → no water-bearing fractures
75 - 80 ft → no water-bearing fractures
35 - 50 ft → no major water-bearing fractures
30 - 35 ft → major water-bearing fracture
25 - 30 ft → water-bearing fracture

Note 20 - 25 ft → made water.

Based on above selected: 55 - 60 ft interval } to perform
65 - 70 " " } packer tests.

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: 1354
PROJECT NAME: B. P. L.
DATE: March 6/93

DESIGNED BY:
CHECKED BY:
PAGE 1 OF 3

POW 1 Shallow (0018-93)

Note: Jim Robinson (Golder's) requested that the upper weathered zone from approximately 14'10" to about 10 ft bgs be tested. Due to problems with air coring (causing swelling of protective casing in the deep well (5 feet) away could not test weathered section. Set casing (4 inch ø) at 15 ft, then cored to 35 ft bgs.

Packer Test # 1 (one packer)

1354 FIELD FILE

Depth : 30 - 35 ft bgs
Inflation pressure : 400 psi

Pumped 2 gallons in 14 minutes (0.2 Igpm)
2 gallons
Sample # 1
cond. 7,600 mmhos /cm
sal. 5 ppt
T 5° C

Pumped 0.25 gallons and couldn't get any more water (dry). Packers not leaking

Allowed water to recover.

Pumped 1 gallon in 2 minutes (0.5 Igpm) then pumped dry

3 gallons (OW18-93)
Sample #2

cond. 7,600 u mhos /cm
sal. 5 ppt.
T 7° C.

Packer Test #2

Depth : 20-25 ft
Inflation pressure : 400 psi

Pumped 2 gallons in 2 minutes (1 gpm) then pumped dry.

Sample #1 3 gallons
cond. 6,000
sal. 4 ppt
T 6° C

Allowed to recover for 5 minutes. Pumped 1 gallon in 2 minutes (0.5 Igpm) and then pumped dry.

Sample #2 4 gallons
cond. 6,000
sal. 4 ppt
T 6° C

Allowed to recover for 5 minutes. Pumped 2 gallons in 1 minute 40 seconds (1.2 Igpm.) Pumped dry

sample #3 (OW13-93)
6 gallons
cond. 6,000
sal. 3.9 ppt.
T 6°C

Packer Test #3

Depth : 15-20 ft.
Inflation pressure : 400 psi

Pumped 4.5 gallons in 3 minutes (1.5 Igpm). Pumped dry. Allowed to recover for 5 minutes and did not pump dry water out.

4.5 gallons

cond. 5,600
sal. 3.9 ppt
T 5°C.

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: 1354
PROJECT NAME: B.P.L
DATE: March 10/93

DESIGNED BY: G.L.
CHECKED BY:
PAGE 1 OF 9

POW 2 Deep (ow2A-93)

1354 FIELD FILE

Packer Test # 1

Depth: 74'10" - 79'10" (one packer)
Inflation depth: 400 psi

Pumped for 2 minutes and did not produce any water. Deflated packer and pumped water. Pump is working. (220 - 240 Hz).

Packer Test # 1 re-set at 78'10"
Depth: 73'10" - 78'10"
Inflation pressure: 400psi

Pumped for 2 minutes and did not produce any water. Deflated packer and pumped water. Pump is working

Packer Test # 2

Depth: 68 - 73ft
Inflation pressure: 400 psi

Pumped for 2 minutes and did not produce any water Deflated packers and pumped water. Pump is working.

POW2 Deep. (OW24-93)

Packer Test # 3

Depth: 63- 68 ft
Inflation pressure: 400 psi

Pumped for 2 minutes and did not produce any water. Deflated packers and pumped water. Pump is working

Packer Test # 4

Depth: 58- 63 ft
Inflation pressure: 400 psi

Pumped for 2 minutes and did not produce any water. Deflated packers and pumped water. Pump is working.

Packer Test # 5

Depth: 53- 58 ft.
Inflation pressure: 400 psi

Pumped for 2 minutes and did not produce any water. Deflated packers and pumped water. Pump is working.

Packer Test #6 (OW2A-93)

Depth : 48 - 53 ft.
Inflation pressure : 400 psi

Pumped for 2 minutes and did not produce any water. Deflated packers and pumped water. Pump is working

Packer Test #7

Depth : 43-48 ft.
Inflation pressure : 400 psi

Pumped for 2 minutes and did not produce any water. Deflated packers and pumped water. Pump is working

Packer Test #8.

Depth : 38-43ft
Inflation pressure : 400 psi

Pumped for 2 minutes and did not produce any water. Deflated packers and pumped water. Pump is working

POW 2 Deep. (OW2A-93)

Packer Test # 9

Depth: 33-38 ft.
Inflation pressure: 400 psi

Sample # 1
1 gallon
cond. 2,000
sal. 1 ppt
T 6°C.

Sample # 2

3 gallons
cond. 2,000
sal. 1 ppt
T 6°C

Sample # 3
4 gallons
cond. 2200
sal. 1.5 ppt
T 6°C

Sample #4
5 gallons
cond. 2,300
sal. 1.5 ppt
T 6°C

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: _____
PROJECT NAME: _____
DATE: _____

DESIGNED BY: _____
CHECKED BY: _____
PAGE 5 OF 9

POW2 Deep. (OW2A-93)

Sample #5
6 gallons
cond. 2,600
sal. 2.0 ppt
T 6° C

Sample #6
9 gallons
cond. 2,900
sal. 2.0 ppt
T 6° C

Sample #7
11 gallons
cond. 3,000
sal. 2 ppt
T 6° C

Sample #8
13 gallons
cond. 3,000
sal. 2.0 ppt
T 6° C

Sample #9
15 gallons
cond. 3,100
sal. 2 ppt
T 6° C

POW 2 Deep. (OW2A-13)

Sample # 10
16 gallons
cond. 3,200
sal. 2 ppt
T 6°C

Pumped 16 gallons in 40 minutes (0.4 Igpm) Re-checked and
Pumped 2 gallons every 5 minutes (0.4 Igpm)

Packer Test # 10

Depth : 28 - 33 ft.
Inflation pressure : 400 psi

Sample # 1
1 gallon

cond. 1,900
sal. 1 ppt
T 5°C

Sample # 2
3 gallons
cond 1900
sal. 1 ppt
T 6°C

Sample # 3
5 gallons
cond 1,900
sal. 1 ppt
T 6°C

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: _____
PROJECT NAME: _____
DATE: _____

DESIGNED BY: _____
CHECKED BY: _____
PAGE 7 OF 9

(002A-93)

Sample # 4
7 gallons
cond. 1900
sal. 1 ppt
T 6°C

Sample # 5
9 gallons
cond. 2,000
sal. 1 ppt
T 6°C

Sample #6
11 gallons
cond. 2,000
sal. 1 ppt
T 6°C

Sample #7
13 gallons
Cond. 2,000
sal. 1 ppt
T 6°C

Sample # 8 15 gallons
cond. 2,000
sal. 1 ppt
T 6°C

Sample # 9 16 gallons
cond. 2,000
sal. 1 ppt
T 6°C

Pumped 16 gallons in 22 minutes (0.7 lgpm)
Approximately 2.8 minutes to remove 2 gallons

POW 2 Deep (OW24-93)

Packer Test # 11

Depth : 13-18ft. packers leaked re-set 12-17ft. packers leaked again
Inflation pressure: 400 psi

Sample #1
1 gallon
cond. 1,900
sal. 1ppt
T 3.5°C

Sample #2
3 gallons
cond. 1,900
sal. 1ppt
T 4°C

Sample #3
5 gallons
cond. 1,900
sal 1ppt
T 5°C

Sample #4
7 gallons

cond. 1,800
sal. 1ppt
T 5°C

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: _____
PROJECT NAME: _____
DATE: _____

DESIGNED BY: _____
CHECKED BY: _____
PAGE 9 OF 9

POW2 Deep. (OW2A-93)

Sample #5
9 gallons
Cond. 1,800
Sal. 1ppt
T 5°C

Sample #6
11 gallons
Cond. 1,800
Sal. 1ppt
T 5°C

Sample #7
13 gallons
Cond. 1,800
Sal. 1ppt.
T 5°C

Pumped 13 gallons in 20 minutes (0.7 Igpm).

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: 1354
PROJECT NAME: B.P.L.
DATE: March 11/93

DESIGNED BY: G.L
CHECKED BY:
PAGE 1 OF 3

POW 2 Shallow (owdb-93)

Packer Test #1 (performed after coring from 8'4" to 14 ft bgs.

Note: Hydraulic connection to creek at approximately 13 ft bgs.

Depth: 8'4" to 14 Ft bgs (one packer not inflated basically lowered pump).
Inflation pressure: 400 psi

Sample #1
4 gallons
cond. 1600
sal. 0.5 ppt
T 6°C.

1354
FIELD FILE

Sample #2
6 gallons
cond. 1,600
sal. 0.5 ppt
T 6°C

Sample #3
8 gallons
cond. 1800
sal. 0.5 ppt
T 5°C

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: _____
PROJECT NAME: _____
DATE: _____

DESIGNED BY: _____
CHECKED BY: _____
PAGE 2 OF 3

Row 2 Shallow (MW2B-93)

Sample #4
10 gallons
Cond. 1,700
Sal. 0.5 ppt
T 5°C

Sample #5
12 gallons
cond. 1,700
sal. 0.5 ppt
T 5°C

Sample #6
14 gallons
cond. 1,700
sal. 0.5 ppt
T 5°C

Sample #7
16 gallons
cond. 1,700
sal. 0.5 ppt
T 6°C

Pumped 18 gallons in 20 minutes
0.9 gpm

Sample #8
18 gallons
cond. 1,700
sal. 0.5 ppt
T 6°C

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: _____
PROJECT NAME: _____
DATE: _____

DESIGNED BY: _____
CHECKED BY: _____
PAGE 3 OF 3

Note — Row 25 (aw28-93)

Took sample from the Creek about 50 ft upstream from the drilling location:

cond. 320 mmhos/cm
sal. 0.5 ppt.
T° 1° C.

Recovery in water levels after pump off.

Time	Water level (m btoc
11:28:30 ← pump off	4.43
11:29:20	4.20
11:29:30	3.95
11:29:58	3.78
11:30:00	3.66
11:30:25	3.60
11:30:48	3.51
11:30:52	3.48
11:31:11	3.42
11:31:24	3.35
11:31:35	3.31
11:31:50	3.28
11:32:06	3.22
11:32:30	3.18
11:32:53	3.11
11:33:10	3.08

CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: 1354
PROJECT NAME: B.P.L.
DATE: March 13/93

DESIGNED BY: G.L.
CHECKED BY:
PAGE 1 OF 3

POW 5 (OW4-93)

Packer Test #1
Depth: 19'4" - 24'4" (bottom of hole - one packer)
Inflation pressure: 400 psi

Sample # 1
4 gallons
cond. 4,700
sal. 3ppt
T 4°C

1354
FIELD FILE

Sample #2
6 gallons
cond. 4,600
sal. 3ppt
T 4°C

Sample #3
8 gallons
cond. 4,800
sal. 3ppt
T 4°C

Sample # 4
10 gallons
Cond. 4,800
sal. 3ppt
T 4°C.

POW #5 (0004-93)

Packer Test # 2
Depth : 13 - 18ft
Inflation pressure :

Pumped 2 gallons in 2 minutes and then pumped dry
sample # 1 2 gallons
cond. 4,200
sal. 3ppt
T 4°C

Allowed to recover for 3 minutes

Pumped 0.5 gallon in about 2 minutes . Pumped dry

con. 4,200
sal. 3ppt
T 4°C

Packer Test #3
Depth : 13- to casing (6'7")

Pumped 2 gallons in 2 minutes. Pumped dry

sample # 1
2 gallons
cond. 4400
sal. 3ppt
T 4°C

Allowed to recover for 4 minutes

Pumped about 1.5 gallons in 5 minutes

Sample # 2.
4 gallons
Cond. 2,200
Sal. 0.5
T 5°C

Checked bucket. Took sample → same readings.
Definite conductivity contrast between this interval and depth below interval. Installation at 15 Ft.

APPENDIX D

STRATIGRAPHIC AND INSTRUMENTATION LOGS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-13)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: GP1-93
DATE COMPLETED: MARCH 11, 1993
DRILLING METHOD: HSA
CRA SUPERVISOR: G. LAGOS

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION m AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	129.38				
0.5	For stratigraphy see OW2A-93		CONCRETE SEAL 12.7mmø PVC PIPE BENTONITE PELLET SEAL 152.4mmø BOREHOLE SAND PACK WELL SCREEN			
1.0						
1.5						
2.0	END OF HOLE @ 1.83 m BGS.	127.55				
2.5	NOTES: 1. No gas odour noted during drilling in the unsaturated zone.		SCREEN DETAILS: Screened interval: 0.91 to 1.83m BGS Length -0.91m Diameter -12.7mm Slot # Perforated Material -PVC Sand pack interval: 0.91 to 1.83m BGS Material -Silica Sand			
3.0						
3.5						
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-15)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: GP2-93
DATE COMPLETED: MARCH 13, 1993
DRILLING METHOD: HSA
CRA SUPERVISOR: G. LAGOS

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION m AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	142.92				
0.5	For stratigraphy see OW4-93		CONCRETE SEAL 12.7mmø PVC PIPE BENTONITE PELLET SEAL 152.4mmø BOREHOLE SAND PACK WELL SCREEN			
1.0						
1.5						
2.0	END OF HOLE @ 1.83 m BGS.	141.09				
2.5	NOTES: 1. No gas odour noted during drilling in the unsaturated zone.		SCREEN DETAILS: Screened interval: 0.91 to 1.83m BGS Length -0.91m Diameter -12.7mm Slot # Perforated Material -PVC Sand pack interval: 0.91 to 1.83m BGS Material -Silica Sand			
3.0						
3.5						
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

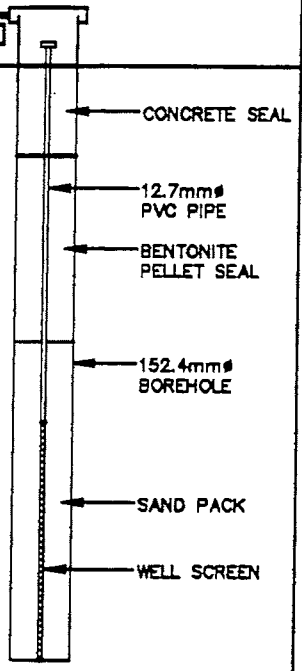
(L-14)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: GP3-93
DATE COMPLETED: FEBRUARY 27, 1993
DRILLING METHOD: HSA
CRA SUPERVISOR: G. LAGOS

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION m AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	GROUND SURFACE	132.44				
	For stratigraphy see OW3-93					
3.0	END OF HOLE @ 3.05 m BGS.	129.39				

NOTES:
1. No gas odour noted during drilling in the unsaturated zone.



SCREEN DETAILS:
Screened interval:
1.83 to 3.05m BGS
Length -1.22m
Diameter -12.7mm
Slot # Perforated
Material -PVC
Sand pack interval:
1.42 to 3.05m BGS
Material -Silica Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-01)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW1A-93 (Page 1 of 5)
DATE COMPLETED: MARCH 4, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION m AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	REFERENCE POINT (Top of Riser)	125.685				
	GROUND SURFACE	124.84				
0.5	ML-SILT, some clay, trace very fine sand, trace gravel, soft, dark brown, moist, layer of fine grained organic material in upper 15cm		CONCRETE SEAL			
1.0						
1.5						
2.0			152.4mmø BOREHOLE	1SS		4
2.5			BENTONITE GROUT			
3.0	HIGHLY WEATHERED SHALE, very soft, green with dark brown spots	121.79				
3.5			50.8mmø WELL PIPE	2SS		70
4.0						
4.5	END OF OVERBURDEN HOLE @ 4.52m BGS	120.32		4SS		50
5.0			96.5mmø COREHOLE			
5.5						
6.0						
6.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-02)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW1A-93 (Page 2 of 5)
DATE COMPLETED: MARCH 4, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIT/ENDRCVKAL	RUNNUMBER	CORE RECOVERY	RQD	WATER RETURN
m BGS		m AMSL				%	%	%
	Overburden		152.4mmø BOREHOLE					
4.5		120.32						
	SHALE(Queenston Formation): highly weathered – soft (4.52 to 5.13m BGS)		96.5mmø COREHOLE		1	100	31	
5.0	– bedding plane fracture, no infilling, non water bearing (@ 5.01m BGS) – more competent (5.13 to 5.31m BGS)							
	– bedding plane fractures, no infilling, non water bearing (@ 5.19 and 5.28m BGS)	119.53						
5.5	– more competent – non water bearing fracture (@ 5.40m BGS)				2	100	54	
	– white patches (5.43 to 6.17m BGS) – non water bearing subvertical fracture (@ 5.49m BGS)							
6.0	– non water bearing bedding plane fractures (@ 5.58, 5.70, 5.86, 6.10 and 6.13m BGS)	118.67						
6.5	– more competent – becomes green, 5cm water bearing and weathered fracture zone (@ 6.36m BGS)		BENTONITE GROUT		3	100	65	
	– non water bearing fracture (@ 6.54 and 6.72m BGS) – 5cm water bearing and weathered fractured zone (@ 6.84m BGS)							
7.0	– bedding plane fractures (@ 6.99, 7.09 7.21 and 7.30m BGS)							
7.5	– slightly weathered water bearing fracture zone (7.48 to 7.76m BGS)	117.22	50.8mmø WELL PIPE					
	– more competent – fractured zone with 7.5cm weathered fragments (7.62 to 7.93m BGS)							
8.0	– more weathered (7.77 to 7.93m BGS) – gypsum filled bedding plane fracture (@ 8.23m BGS)				4	100	74	
8.5	– bedding plane fractures (@ 8.41, 8.53 and 8.66m BGS)							
9.0	– weathered bedding plane fracture, water bearing, infilled with green soft clayey material	115.62						
	– more fractured and weathered – weathered and having coarser grained material along bedding plane fractures (@ 9.22 to 9.31m BGS)							
9.5	– non water bearing fracture (@ 9.31m BGS) – slightly weathered water bearing fracture (@ 9.40m BGS)				5	100	51	
10.0	– heavily weathered water bearing fracture zone consisting of 2.5cm fragments (9.46 to 9.59m BGS)							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-02)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW1A-93 (Page 3 of 5)
DATE COMPLETED: MARCH 4, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIENDTRERORCVKAL	RNUUNMBER	CRORCCOVERY	RQD	WRATTEURRN
m BGS		m AMSL				%	%	%
10.5	– heavily weathered water bearing fracture zone consisting fragments cut by vertical fractures (9.65 to 9.80m BGS) – weathered water bearing fracture (@ 9.86m BGS) – weathered water bearing fracture zone (9.92 to 9.98m BGS) – gypsum filled bedding plane fracture (@ 10.35m BGS) – more competent (10.13 to 10.74m BGS)	114.10	96.5mmø COREHOLE		5	100	51	
11.0								
11.5	– highly competent, mainly red with occasional green sections – gypsum filled non water bearing fractures (@ 11.08, 11.17 and 11.78m BGS)				6	100	100	
12.0								
12.5	– highly competent, mainly red with alternating green sections – non water bearing bedding plane fractures (@ 12.60, 12.84, 13.03 and 13.27m BGS)	112.57	BENTONITE GROUT					
13.0					7	100	97	
13.5	– gypsum filled non water bearing fracture (@ 13.49m BGS)		50.8mmø WELL PIPE					
14.0	– highly competent, mainly red with alternating green sections – bedding plane fractures (@ 13.91, 14.31, 14.52, 14.62 and 14.75m BGS) – water bearing bedding plane fracture (@ 14.07m BGS)	111.05						
14.5					8	100	95	
15.0	– gypsum filled bedding plane fracture (@ 14.83m BGS) – partially gypsum filled bedding plane fracture (@ 15.04 and 15.19m BGS)							
15.5	– more fractured, red – bedding plane fractures (@ 15.41 and 15.44m BGS) – slightly weathered with slight sign of water bearing properties (15.53 to 15.59m BGS) – fractured zone with 5cm rock fragments intersected by subvertical to subhorizontal fractures (15.53 to 15.69m BGS)	109.52						
16.0					9	100	68	

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-02)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW1A-93 (Page 4 of 5)
DATE COMPLETED: MARCH 4, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIENDTRERORCVKAL	RUNUNMBER	CORECOVERY	RQD	WATERETURN
m BGS		m AMSL				%	%	%
16.5	– mechanical fracturing (15.78 to 15.81m BGS) – non water bearing fractures (@ 15.96, 16.02, 16.08, 16.20, 16.36 and 16.48m BGS) – colour changes from red to green (@ 16.14m BGS)		SAND PACK		9	100	68	
17.0	– slightly weathered non water bearing fracture (@ 16.66m BGS) – non water bearing fractures (@ 16.78 and 16.83m BGS)	108.00	50.8mmø WELL PIPE					
17.5	– slightly weathered water bearing fracture zone (16.84 to 16.90m BGS) – bedding plane fractures (@ 17.02, 17.05, 17.15 and 17.18m BGS)				10	100	74	
18.0	– bedding plane fractures (@ 17.69, 17.72 and 17.88m BGS) – weathered water bearing fracture zone (17.94 to 18.06m BGS)							
18.5	– clay lined water bearing bedding plane fracture (@ 18.56m BGS) – bedding plane fractures (@ 18.76, 18.97, 19.07, 19.22, 19.28 and 19.31m BGS)	106.48	96.5mmø COREHOLE					
19.0					11	100	80	
19.5	– bedding plane fractures (@ 19.40, 19.55, 19.61, 19.80 and 19.86m BGS)							
20.0	– bedding plane fractures (@ 19.93, 20.30 and 20.51m BGS)	105.03						
20.5	– clay filled water bearing bedding plane fracture (@ 20.60m BGS) – weathered water bearing fracture zone (20.82 to 20.88m BGS)		WELL SCREEN		12	100	96	
21.0	– clay infilled water bearing bedding plane fracture (@ 21.24m BGS)							
21.5		103.43						
22.0	– non water bearing bedding plane fracture (@ 22.02m BGS)		BENTONITE PELLET SEAL		13	100	100	

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-02)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW1A-93 (Page 5 of 5)
DATE COMPLETED: MARCH 4, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIT/CORE/KAL	RUN NUMBER	CORE RECOVERY	RQD	WATER RETURN
m BGS		m AMSL				%	%	%
22.5	– slightly weathered bedding plane fracture (@ 22.51m BGS)		96.5mmø COREHOLE		13	100	100	
23.0		101.90						
23.5	– non water bearing gypsum lined bedding plane fractures (@ 23.18, 23.45, 24.09 and 24.40m BGS)		BENTONITE PELLET SEAL		14	100	100	
24.0								
24.5	END OF HOLE @ 24.46 m BGS.	100.38	SCREEN DETAILS: Screened Interval: 19.81 to 21.34m BGS Length –1.52m Diameter –50.8mm Slot # 10 Material –Stainless Steel Sand pack interval: 19.20 to 21.49m BGS Material –Silica Sand					
25.0								
25.5								
26.0								
26.5								
27.0								
27.5								
28.0								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG
(OVERBURDEN)

(L-03)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW1B-93
(Page 1 of 3)
DATE COMPLETED: MARCH 6, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH m. BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION m AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	REFERENCE POINT (Top of Riser) GROUND SURFACE	*125.536* *124.88*				
0.5	OL—ORGANICS, silt, some clay, firm, brown to dark brown, moist	*124.58*	CONCRETE SEAL			
	ML—SILT, some clay, trace very fine sand, trace gravel, firm, reddish brown, moist					
1.0						
			152.4mmø BOREHOLE			
1.5				1SS		3
2.0						
2.5			BENTONITE GROUT			
3.0		*121.83*				
	HIGHLY WEATHERED BEDROCK, rock fragments less than 2.5cm long, angular, clay and silt matrix with little sand, non-cohesive, green, moist to wet			2SS		35
3.5			50.8mmø WELL PIPE			
4.0						
4.5	BEDROCK — augered to 4.57m BGS	*120.36* *120.31*				
	END OF OVERBURDEN HOLE @ 4.57m BGS		96.5mmø COREHOLE			
5.0						
5.5						
6.0						
6.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG
(BEDROCK)

(L-04)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW1B-93

DATE COMPLETED: MARCH 6, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIENDTRREORCVKAL	RNUUNMBBEER	CRCOEREC OVERY	RQD	WRAETTUERRN
m BGS		m AMSL				%	%	%
	Overburden		BENTONITE GROUT; 152.4mmø BOREHOLE					
4.5		*120.31*	SAND PACK					
5.0	SHALE(Queenston Formation): highly weathered – highly weathered 5cm long disintegrated fragments (4.57 to 4.72m BGS) – 45° subhorizontal fracture (@ 4.79m BGS)		50.8mmø WELL PIPE					
5.5	– bedding plane fractures (@ 4.85 and 4.91m BGS) – highly weathered zone with 5cm fragments cut by horizontal and sub-horizontal fractures (4.97 to 5.06m BGS)		96.5mmø COREHOLE		1	100	50	
6.0	– bedding plane fracture (@ 5.15m BGS) – 45° subhorizontal fractures (@ 5.24, 5.27, 5.30 and 5.36m BGS)	*118.84*						
6.5	– slightly weathered fracture zone cut by 30° subhorizontal fracture (5.58 to 5.70m BGS) – bedding plane fracture (@ 5.82m BGS) – slightly weathered 30° to 45° sub-horizontal fracture (@ 5.88m BGS)							
7.0	– bedding plane fractures (@ 6.29 and 6.38m BGS) – weathered water bearing fractures (6.47 to 6.50m BGS)		WELL SCREEN		2	100	75	
7.5	– bedding plane fractures (@ 6.65 and 6.81m BGS)	*117.26*						
8.0	– highly weathered water bearing fracture zone, some clay (6.96 to 7.17m BGS) – slightly weathered water bearing fracture (@ 7.23m BGS) – bedding plane fractures (@ 7.36 and 7.45m BGS)		BENTONITE PELLET SEAL					
8.5	– non water bearing slightly weathered fractured zone (7.77 to 7.83m BGS) – 30° subhorizontal fracture (@ 7.92m BGS)				3	100	82	
9.0	– non water bearing bedding plane fractures (@ 8.11, 8.23, 8.41, 8.66 and 8.81m BGS)	*115.74*						
9.5	– 30° subhorizontal non water bearing fracture (@ 8.87m BGS) – non water bearing bedding plane fractures (@ 8.93 and 8.99m BGS)							
10.0	– bedding plane fractures (@ 9.33 and 9.48m BGS) – 20° subhorizontal fracture (@ 9.63m BGS) – water bearing bedding plane fracture (@ 9.78m BGS)				4	100	70	

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-04)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW1B-93
(Page 3 of 3)
DATE COMPLETED: MARCH 6, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIENDTRERORCVKAL	RNUUNMBEER	CRORECOVERY	RQD	WRAETTEURRN
m BGS		m AMSL				%	%	%
10.5	– highly weathered water bearing fracture, some clay (@ 9.91 to 10.12m BGS) – non water bearing bedding plane fractures (@ 10.18, 10.39, 10.49, 10.52 and 10.58m BGS)	114.21	96.5mmø COREHOLE BENTONITE PELLET SEAL		4	100	70	
	END OF HOLE @ 10.67 m BGS.		SCREEN DETAILS: Screened interval: 6.10 to 7.62m BGS Length –1.52m Diameter –50.8mm Slot # 10 Material –Stainless Steel Sand pack interval: 5.49 to 7.77m BGS Material –Silica Sand					
11.0								
11.5								
12.0								
12.5								
13.0								
13.5								
14.0								
14.5								
15.0								
15.5								
16.0								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-05)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW2A-93

DATE COMPLETED: MARCH 10, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION m AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	REFERENCE POINT (Top of Riser) GROUND SURFACE	*130.126* *129.19*				
0.5	OL–ORGANICS, silt, some clay, firm, brown to dark brown, moist	*129.04*	CONCRETE SEAL			
	ML–SILT, some clay, trace very fine sand, trace gravel, firm, reddish brown, moist					
1.0						
1.5			152.4mmø BOREHOLE			
			BENTONITE GROUT	1SS		9
2.0						
2.5	BEDROCK	*126.75* *126.70*				
	END OF OVERBURDEN HOLE @ 2.62m BGS					
3.0			96.5mmø COREHOLE			
3.5			50.8mmø WELL PIPE			
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ◯ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-06)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW2A-93 (Page 2 of 5)
DATE COMPLETED: MARCH 11, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIENDTRERORCVKAL	RUNNUMBER	CORE RECOVERY	RQD	WATER RETURN
m BGS		m AMSL				%	%	%
2.0	Overburden		152.4mmø BOREHOLE; BENTONITE GROUT					
2.5	SHALE(Queenston Formation): – green (2.49 to 2.79m BGS) – red, heavily fractured and weathered, clay and sand, 5cm long rock fragments (2.79 to 3.00m BGS)	126.70			1	80	0	
3.0		126.19	50.8mmø WELL PIPE					
3.5	– heavily fractured and weathered (3.00 to 3.15m BGS) – non water bearing fracture (@ 3.21, 3.30, 3.37, 3.40 and 3.43m BGS) – 30° subhorizontal fracture (@ 3.61m BGS) – slightly weathered water bearing fracture (3.70 to 3.76m BGS)		96.5mmø COREHOLE		2	100	36	
4.0	– bedding plane fractures (@ 3.85, 4.01 and 4.04m BGS) – heavily weathered and fractured, very soft, water bearing (4.13 to 4.52m BGS)							
4.5	– heavily weathered and fractured, very soft, water bearing (4.52 to 4.86m BGS)	124.67						
5.0	– soft, weathered and water bearing fracture zone (4.98 to 5.13m BGS)				3	100	36	
5.5	– bedding plane fractures (@ 5.28 and 5.31m BGS) – soft, heavily weathered water bearing fracture zone (5.31 to 5.50m BGS) – competent (5.50 to 5.74m BGS) – slightly weathered water bearing bedding plane fracture (@ 5.74m BGS)							
6.0	– non water bearing subharizontal fracture (@ 5.80 and 5.83m BGS)	123.14						
6.5	– very competent (6.05 to 6.48m BGS) – heavily weathered water bearing fracture zone (6.48 to 6.63m BGS) – heavily weathered water bearing fracture zone (6.72 to 6.84m BGS)				4	100	80	
7.0	– non water bearing 30° subhorizontal fracture (@ 6.99m BGS) – non water bearing bedding plane fractures (@ 7.06 and 7.21m BGS)							
7.5	– slightly weathered water bearing bedding plane fractures (@ 7.33 and 7.39m BGS) – non water bearing bedding plane fracture (@ 7.45m BGS)				5	100	71	

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-08)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW2A-93 (Page 3 of 5)
DATE COMPLETED: MARCH 11, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIENDTRREORCVKAL	RUUNMBER	CRCOREOVERY	RQD	WRAETTURRN
m BGS		m AMSL				%	%	%
	– slightly weathered water bearing fractures (@ 7.51 and 7.54m BGS)	121.62	SAND PACK					
8.0	– non water bearing bedding plane fractures (@ 7.66 and 7.75m BGS) – slightly weathered non water bearing bedding plane fractures (@ 7.87, 7.97 and 8.06m BGS)		50.8mmø WELL PIPE		5	100	71	
8.5	– weathered water bearing fracture (@ 8.24m BGS) – soft, heavily weathered water bearing fracture zone (8.36 to 8.48m BGS)							
9.0	– non water bearing bedding plane fractures (@ 8.55 and 8.85m BGS) – weathered and water bearing fracture zone (8.91 to 9.00m BGS)	120.10	BENTONITE PELLET SEAL					
9.5	– highly fractured and weathered – slightly weathered fracture zone (9.21 to 9.27m BGS)							
10.0	– heavily waethered fracture zone, water bearing, solution vugs (9.27 to 9.61m BGS) – heavily weathered fracture zone, solution vugs, eliptical shale, water bearing, very soft (9.70 to 10.62m BGS)		96.5mmø COREHOLE		6	100	16	
10.5	– clay (9.85 to 9.94m BGS) – clay (10.22 to 10.40m BGS) – clay (10.46 to 10.55m BGS)	118.57						
11.0	– more competent – heavily weathered fracture zone, soft, water bearing (10.62 to 10.71m BGS)		WELL SCREEN					
11.5	– heavily weathered fracture zone, soft, water bearing (10.83 to 10.92m BGS) – heavily weathered fracture zone, soft, water bearing (11.21 to 11.26m BGS) – weathered zone, soft, water bearing (11.38 to 11.44m BGS)				7	100	88	
12.0	– gypsum filled bedding plane fracture (@ 11.53m BGS) – gypsum nodules (@ 11.72m BGS)	117.05						
12.5	– non water bearing bedding plane fracture (@ 11.78m BGS) – gypsum filled bedding plane fracture (@ 11.93m BGS)		BENTONITE PELLET SEAL					
13.0	– slightly weathered bedding plane fractures, little water (@ 11.96, 11.99 and 12.11m BGS)				8	100	94	
	– extremely competent – slightly weathered water bearing bedding plane fracture (@ 12.23m BGS)							
13.5	– solid with occasional mechanical break along bedding planes (12.23 to 13.67m BGS)							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-08)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW2A-93 (Page 4 of 5)
DATE COMPLETED: MARCH 11, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIENDTRERORCVKAL	RUNNUMBER	CORE RECOVERY	RQD	WATER RETURN
m BGS		m AMSL				%	%	%
		115.52			8	100	94	
14.0	– highly competent – non water bearing bedding plane fractures (@ 13.70 and 13.79m BGS) – slightly weathered bedding plane fractures, little water (@ 14.04 and 14.05m BGS)							
14.5	– non water bearing bedding plane fractures (@ 14.34, 14.70 and 15.01m BGS)				9	100	98	
15.0		114.00	96.5mmø COREHOLE					
15.5	– competent – bedding plane fractures, little clay, little water (@ 15.53, 15.65, 15.80, 15.95 and 16.07m BGS)							
16.0			BENTONITE PELLET SEAL		10	100	91	
16.5	– slightly weathered bedding plane fracture, little clay, little water (@ 16.13m BGS) – non water bearing fractures (@ 16.23, 16.38 and 16.53m BGS)	112.48						
17.0	– competent – gypsum filled bedding plane fracture, dry (@ 16.80m BGS) – non water bearing bedding plane fractures (@ 17.14, 17.35, 17.41, 17.50, 17.56, 17.62 and 17.84m BGS)							
17.5					11	100	82	
18.0	– non water bearing bedding plane fracture (@ 17.99, 18.11 and 18.17m BGS)							
18.5	– competent – water bearing bedding plane fracture, clay infilling (@ 18.48m BGS) – non water bearing bedding plane fractures (@ 18.51, 18.58 and 18.67m BGS)	110.95						
19.0	– non water bearing bedding plane fractures (@ 19.00, 19.67 and 19.73m BGS)				12	100	81	
19.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-06)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW2A-93 (Page 5 of 5)
DATE COMPLETED: MARCH 11, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH m BGS	DESCRIPTION OF STRATA	ELEVATION m AMSL	MONITOR INSTALLATION	BIENDTRERORCVKAL	RUNNUMBER	CORE RECOVERY %	RQD %	WATER RETURN %
		109.43			12	100	81	
20.0	– competent – non water bearing plane fracture (@ 19.79m BGS) – weathered fracture zone, water bearing, clay and sand infilling (19.88 to 19.91m BGS) – 30° subhorizontal fracture, little water, some clay (@ 19.97m BGS) – non water bearing bedding plane fracture (@ 20.03, 20.10, 20.22 and 20.31m BGS) – gypsum filled bedding plane fracture (@ 20.43m BGS) – non water bearing bedding plane fracture (@ 20.65m BGS) – 2.5cm gypsum nodules, irregular shape (20.80 to 20.89m BGS) – slightly weathered bedding plane fracture zone (21.19 to 21.28m BGS)	107.90	96.5mmø COREHOLE		13	100	88	
22.0	– competent – slightly weathered fracture zone (21.29 to 21.56m BGS) – non water bearing bedding plane fracture, some gypsum (@ 21.63 m BGS) – non water bearing bedding plane fracture (@ 21.75m BGS) – 30° subhorizontal fracture (@ 22.14m BGS) – non water bearing bedding plane fractures (@ 22.23, 22.39 and 22.63m BGS)	106.38	BENTONITE PELLET SEAL		14	100	68	
23.5	– highly competent – non water bearing bedding plane fractures (@ 23.11, 23.32, 23.42, 23.60, 23.69 and 23.88m BGS) – non water bearing bedding plane fracture, gypsum filled (@ 24.09m BGS)				15	100	100	
24.5	END OF HOLE @ 24.33 m BGS.	104.86	SCREEN DETAILS: Screened Interval: 10.06 to 11.58m BGS Length –1.52m Diameter –50.8mm Slot # 10 Material –Stainless Steel Sand pack interval: 9.45 to 11.73m BGS Material –Silica Sand					
25.0								
25.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

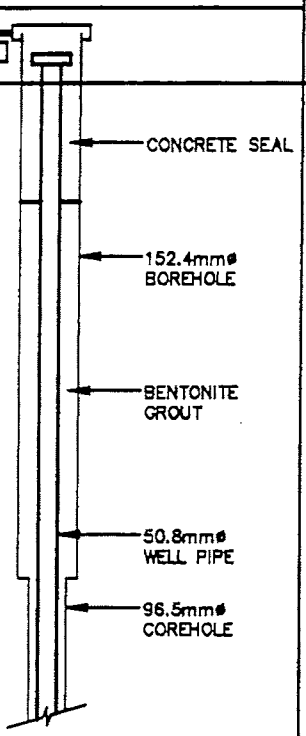
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-07)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW2B-93 (Page 1 of 2)
DATE COMPLETED: MARCH 11, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION m AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	REFERENCE POINT (Top of Riser) GROUND SURFACE	*130.231* *129.35*				
	For overburden stratigraphy see OW2A-93					
2.5	BEDROCK	*126.81*				
	END OF OVERBURDEN HOLE @ 2.44m BGS					



0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-08)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW2B-93 (Page 2 of 2)
DATE COMPLETED: MARCH 11, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIENDTRERORCVKAL	RNUUNMBER	CRCOREERECOVERY	RQD	WRAETTUERRN
m BGS		m AMSL				%	%	%
2.5	Overburden		BENTONITE GROUT; 152.4mmø BOREHOLE					
	SHALE(Queenston Formation): highly fractured and weathered, green, < 5cm rock fragments with clay and sand material, wet	126.81			1	71	0	
3.0		126.40	50.8mmø WELL PIPE; 96.5mmø COREHOLE					
	– highly fractured and weathered, fractures very soft, water bearing		SAND PACK		2	100	8	
3.5								
4.0	– hydraulically connected to creek (@ 3.96m BGS)							
	– highly weathered and fractured, very soft – hydraulically connected to creek	125.08	WELL SCREEN		3	100	15	
4.5								
5.0	– competent (5.13 to 5.28m BGS)							
	END OF HOLE @ 5.28 m BGS.	124.07						
5.5			SCREEN DETAILS: Screened interval: 3.66 to 5.18m BGS Length –1.52m Diameter –50.8mm Slot # 10 Material –Stainless Steel Sand pack interval: 3.05 to 5.28m BGS Material –Silica Sand					
6.0								
6.5								
7.0								
7.5								
8.0								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-09)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW3-93 (Page 1 of 3)
DATE COMPLETED: FEBRUARY 27, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION m AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	REFERENCE POINT (Top of Riser)	133.205				
	GROUND SURFACE	132.34				
0.5	OL—ORGANICS, silt, some clay, trace gravel, dark brown, dry to moist	132.19	CONCRETE SEAL			
	ML—SILT, little clay, little very fine sand, trace gravel, reddish brown, moist					
1.0			152.4mmø BOREHOLE			
1.5						
				1SS		42
2.0			BENTONITE GROUT			
2.5						
3.0			50.8mmø WELL PIPE			
				2SS		100
3.5	BEDROCK	128.91				
	END OF OVERBURDEN HOLE @ 3.43m BGS					
4.0			96.5mmø COREHOLE			
			SAND PACK			
4.5						
5.0						
5.5						
6.0						
6.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-10)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW3-93 (Page 2 of 3)
DATE COMPLETED: FEBRUARY 27, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIT TYPE	RUN NUMBER	CORE RECOVERY	RQD	WATER RETURN
m BGS		m AMSL				%	%	%
	Overburden		152.4mmø BOREHOLE; BENTONITE GROUT; 50.8mmø WELL PIPE					
3.0								
3.5	SHALE(Queenston Formation): highly weathered and fractured, red – vertical fracture (3.43 to 3.56m BGS) – wet (@ 3.73m BGS)	*128.91*	96.5mmø COREHOLE		1	87	0	
4.0	– solid (4.11 to 4.19m BGS)							
	– green gray (4.31 to 4.62m BGS) – bedding plane fractures (@ 4.53 and 4.59m BGS) – water bearing, horizontal to subhorizontal bedding plane fractures (@ 4.62, 4.68 and 4.80m BGS)	*128.15*	SAND PACK		2	100	50	
4.5								
5.0	– red (4.08 to 4.78m BGS) – red, highly weathered, water bearing fractures (4.62 to 4.68m BGS)	*127.15*						
5.5	– red – water bearing and clay lined bedding plane fracture (@ 4.85m BGS) – bedding plane fractures (@ 4.95, 4.98 and 5.26m BGS)		WELL SCREEN		3	100	76	
6.0	– water bearing and clay lined bedding plane fracture (@ 5.35m BGS) – bedding plane fracture (@ 5.41m BGS)							
6.5	– gray section (5.41 to 5.47m BGS) – gray section (5.62 to 5.78m BGS) – highly weathered water bearing fracture zone (5.78 to 5.93m BGS) – weathered water bearing bedding plane fracture (@ 5.90m BGS)	*126.06*	BENTONITE PELLET SEAL		4	94	96	
7.0	– gray section (5.93 to 5.99m BGS) – more competent (6.02 to 6.32m BGS)							
7.5	– red, more competent, occasional calcite or gypsum nodule – non water bearing bedding plane fractures (@ 6.56, 6.69, 6.87 and 7.02m BGS)							
8.0	– non water bearing bedding plane fractures (@ 7.14, 7.30, 7.33, 7.48 and 7.63m BGS) – calcite or gypsum nodules throughout – water bearing bedding plane fractures (@ 8.00, 8.19 and 8.28m BGS)	*124.49*			5	100	72	
8.5	– non water bearing bedding plane fractures (@ 8.43, 8.61, 8.70 and 8.86m BGS)							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-10)

PROJECT NAME: BAYVIEW PARK LANDFILL
HOLE DESIGNATION: OW3-93 (Page 3 of 3)
PROJECT NO.: 1354
DATE COMPLETED: FEBRUARY 27, 1993
CLIENT: CITY OF BURLINGTON
DRILLING METHOD: HSA / HQ
LOCATION: AS PER PLAN
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIT TYPE	RUN NUMBER	CORE RECOVERY	RQD	WATER RETURN
m BGS		m AMSL				%	%	%
9.0	– non water bearing bedding plane fractures (@ 9.07, 9.16 and 9.31m BGS)		96.5mmø COREHOLE; BENTONITE PELLET SEAL		5	100	72	
9.5	END OF HOLE @ 9.30 m BGS.	123.04	SCREEN DETAILS: Screened Interval: 4.63 to 6.15m BGS; Length –1.52m; Diameter –50.8mm; Slot # 10; Material –Stainless Steel; Sand pack interval: 3.96 to 6.25m BGS; Material –Silica Sand					
10.0								
10.5								
11.0								
11.5								
12.0								
12.5								
13.0								
13.5								
14.0								
14.5								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

(L-11)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW4-93 (Page 1 of 3)
DATE COMPLETED: MARCH 13, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH m BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEVATION m AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE STATE	SAMPLE 'N' VALUE
	REFERENCE POINT (Top of Riser) GROUND SURFACE	*144.092* *143.19*				
0.5	ML-SILT, little clay, little very fine grained sand, trace to little gravel (boulders), reddish brown, dry to moist, no odour		CONCRETE SEAL			
1.0			152.4mmø BOREHOLE			
1.5			BENTONITE GROUT			
	BEDROCK	*141.49*				
2.0	END OF OVERBURDEN HOLE @ 1.70m BGS		50.8mmø STEEL CASING			
2.5			SAND PACK			
3.0						
3.5						
4.0						
4.5						
5.0						
5.5						
6.0						
6.5						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭ WATER FOUND ▽ STATIC WATER LEVEL ▼

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-12)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW4-93 (Page 2 of 3)
DATE COMPLETED: MARCH 13, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIENDTRERORCVKAL	RUNUNMBEER	CORECOVERY	RQD	WAETTEURRN
m BGS		m AMSL				%	%	%
1.5	(Overburden)		152.4mmø BOREHOLE; BENTONITE GROUT					
	SHALE(Queenston Formation): highly fractured and weathered, soft, wet, more competent with depth – 2.5 to 5cm rock fragments (1.70 to 2.01m BGS)	141.49	50.8mmø WELL PIPE; SAND PACK		1	100	21	
2.5								
3.0	– more competent – non water bearing bedding plane fracture (@ 2.87m BGS) – 30° subhorizontal fracture (@ 2.93m BGS) – vertical fracture, non water bearing, slightly weathered, lined with gray material (3.02 to 3.18m BGS) – non water bearing bedding plane fracture (@ 3.27 and 3.36m BGS) – highly weathered water bearing fracture, soft (3.45 to 3.48m BGS) – vugs (3.48 to 4.37m BGS) – weathered water bearing bedding plane fracture (@ 3.82m BGS) – weathered water bearing fracture zone, soft, (4.06 to 4.37m BGS)	140.35						
3.5			WELL SCREEN		2	100	64	
4.0								
4.5		138.82	96.5mmø COREHOLE					
5.0	– weathered water bearing fracture zone, soft (4.37 to 4.95m BGS) – highly weathered water bearing fracture zone soft (5.19 to 5.35m BGS)				3	100	50	
5.5	– 30° subhorizontal fractures, water bearing (@ 5.56 and 5.62m BGS) – non water bearing bedding plane fracture (@ 5.77m BGS)		BENTONITE PELLET SEAL					
6.0		137.30						
6.5	– highly fractured and weathered, vugs throughout – weathered water bearing fracture zone, soft (6.26 to 6.32m BGS) – weathered water bearing fracture zone, soft (6.62 to 6.65m BGS)				4	100	52	
7.0	– weathered water bearing fracture zone, soft (6.93 to 7.05m BGS)							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

(L-12)

PROJECT NAME: BAYVIEW PARK LANDFILL
PROJECT NO.: 1354
CLIENT: CITY OF BURLINGTON
LOCATION: AS PER PLAN

HOLE DESIGNATION: OW4-93 (Page 3 of 3)
DATE COMPLETED: MARCH 13, 1993
DRILLING METHOD: HSA / HQ
CRA SUPERVISOR: G. LAGOS

DEPTH	DESCRIPTION OF STRATA	ELEVATION	MONITOR INSTALLATION	BIT TYPE	RUN NUMBER	CORE RECOVERY	RQD	WATER RETURN
m BGS		m AMSL				%	%	%
	– more competent (7.27 to 7.42m BGS)		96.5mm⌀ COREHOLE		4	100	52	
7.5	END OF HOLE @ 7.42 m BGS.	135.77	BENTONITE PELLET SEAL					
8.0			SCREEN DETAILS: Screened interval: 3.05 to 4.57m BGS Length –1.52m Diameter –50.8mm Slot # 10 Material –Stainless Steel Sand pack interval: 2.44 to 4.72m BGS Material –Silica Sand					
8.5								
9.0								
9.5								
10.0								
10.5								
11.0								
11.5								
12.0								
12.5								
13.0								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▽ WATER FOUND ▼ STATIC WATER LEVEL NM – NOT MEASURED

APPENDIX E

ANALYTICAL RESULTS DATABASE

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 1(a)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Apr.'90
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DINITROPHENOL	-	ug/l	--	< 3.0	--	--	--	--	--	--	--
2-CHLOROPHENOL	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
2-NITROPHENOL	0.5p	ug/l	--	< 5.0	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	< 5.0	--	--	--	--	--	--	--
4-NITROPHENOL	48p	ug/l	--	< 5.0	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
PENTACHLOROPHENOL	0.5	ug/l	--	< 2.0	--	--	--	--	--	--	--
PHENOL	5p	ug/l	--	< 3.0	--	--	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	4p	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,6-DINITROTOLUENE	3p	ug/l	--	< 2.0	--	--	--	--	--	--	--
2-CHLORONAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
9H-FLUORENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ACENAPHTHENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ACENAPHTHYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ANTHRACENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 1(b)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Apr.'90
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(A)PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	14.2	--	--	--	--	--	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	3.4	--	--	--	--	--	--	--
CHRYSENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	14.3	--	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIETHYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
FLUORANTHENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
ISOPHORONE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	< 3.0	--	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	< 4.0	--	--	--	--	--	--	--
NAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
NITROBENZENE	0.02p	ug/l	--	< 1.0	--	--	--	--	--	--	--
PHENANTHRENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 1(c)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Apr.'90
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
METALS											
IRON	0.300	mg/l	0.70	0.05	0.13	0.10	< 0.02	0.04	--	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	58	6	930	400	< 1	< 1	500	440	10
FAECAL STREPTOCOCCI	-	/100ml	4	600	4,900	1,100	10	60	82	1440	43
TOTAL COLIFORMS	-	/100ml	2100	27000	800,000	11,000	1100	210	1300	740	144
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	351	580	786	367	338	362	322	133	267
AMMONIA NITROGEN	0.020	mg/l	4.20	14.50	35.00	5.03	0.04	0.03	< 0.02	< 0.02	< 0.03
CHLORIDE	-	mg/l	--	220	497	54	12	8.95	14.0	20.0 J	7.0
CONDUCTIVITY	-	umhos/cm	--	1386	2900	581	840	810	650	380	586
DOC	-	mg/l	39.0	25.0	38.0	12.0	3.0	2.0	--	--	--
HARDNESS	-	mg/l	535	845	962	518	434	493	--	--	--
KJELDAHL NITROGEN	-	mg/l	4.60	15.20	41.00	3.60	0.44	0.29	0.07	0.36 J	< 0.06
NITRATE	-	mg/l	2.40	1.31	70.00	< 0.01	0.07	0.02	--	--	--
NITRITE	-	mg/l	0.010	0.166	0.480	0.004	0.017	0.003	--	--	--
PH	6.5-8.5		--	8.10	7.42	7.95	6.35	6.48	7.53	7.56	7.90
PHENOLS	1	ug/l	< 2.0	< 2.0	19.0	< 2.0	< 2.0	< 2.0	5	< 1	< 1
SULFATE	-	mg/l	128	145	195	130	140	125	112	22.4 J	130
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	< 0.020	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 1(d)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Apr.'90
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
4,4-DDE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
4,4-DDT	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
ALDRIN	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
BETA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
BETA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
DELTA-BHC	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
DIELDRIN	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
ENDRIN	0.002	ug/l	--	< 0.010	--	--	--	--	--	--	--
GAMMA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
GAMMA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
HEPTACHLOR	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	< 0.020	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 0.010	--	--	--	--	--	--	--
METHOXYCHLOR	0.04	ug/l	--	< 0.020	--	--	--	--	--	--	--
MIREX	0.001	ug/l	--	< 0.020	--	--	--	--	--	--	--
OXYCHLORDANE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
TOTAL PCB	-	ug/l	--	< 0.050	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 2	--	--
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	< 1.0	--	--	--	< 1.0	< 2	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
1,1-DICHLOROETHANE	200	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 1(e)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Apr.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
1,2-DICHLOROETHANE	100	ug/l	--	< 1.0	--	--	--	< 1.0	< 2	--	--
1,2-DICHLOROPROPANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	TR	--	--	--	< 1.0	< 1	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	--	< 10	--	--
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	--	< 1	--	--
BENZENE	100p	ug/l	--	< 0.5	--	--	--	< 0.5	< 1	--	--
BROMOFORM	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 2	--	--
BROMOMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	< 16	--	--
CARBON TETRACHLORIDE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 2	--	--
CHLOROBENZENE	15	ug/l	--	< 0.5	--	--	--	< 0.5	< 1	--	--
CHLOROETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	< 10	--	--
CHLOROFORM	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1.0	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
ETHYLBENZENE	8p	ug/l	--	2.4	--	--	--	--	< 1	--	--
M&P-XYLENE	-	ug/l	--	8.7	--	--	--	< 0.5	< 2	--	--
MESITYLENE	-	ug/l	--	--	--	--	--	--	< 1	--	--
METHYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	--	< 50	--	--
METHYLENE CHLORIDE	-	ug/l	--	2.3	--	--	--	--	11	--	27 UJ
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	--	< 1	--	--
O-XYLENE	40p	ug/l	--	4.4	--	--	--	< 0.5	< 1	--	--
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	--	< 1	--	--
TETRACHLOROETHYLENE	50	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 1(f)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Apr.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TOLUENE	0.8p	ug/l	--	14.3	--	--	--	< 0.5	< 2	--	--
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1.0	--	--
TRICHLOROETHYLENE	20	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	< 2	--	--
VINYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	< 2.0	< 12	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 2(a)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Apr.'91	Apr.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	SW2-87 Mar.'86	May.'86	Aug.'86	Nov.'86
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	--	--	--	--	--	< 2.0	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	--	--	--	--	--	< 2.0	--	--
2,4-DIMETHYL PHENOL	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
2,4-DINITROPHENOL	-	ug/l	--	--	--	--	--	--	< 3.0	--	--
2-CHLOROPHENOL	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
2-NITROPHENOL	0.5p	ug/l	--	--	--	--	--	--	< 5.0	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	--	--	--	--	--	< 5.0	--	--
4-NITROPHENOL	48p	ug/l	--	--	--	--	--	--	< 5.0	--	--
P-CHLORO-M-CRESOL	-	ug/l	--	--	--	--	--	--	< 5.0	--	--
PENTACHLOROPHENOL	0.5	ug/l	--	--	--	--	--	--	< 2.0	--	--
PHENOL	5p	ug/l	--	--	--	--	--	--	< 3.0	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	--	< 1.0	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	--	--	< 1.0	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	--	--	--	--	--	< 5.0	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	--	--	< 1.0	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	--	--	--	31.0	--	--
2,4-DINITROTOLUENE	4p	ug/l	--	--	--	--	--	--	< 2.0	--	--
2,6-DINITROTOLUENE	3p	ug/l	--	--	--	--	--	--	< 2.0	--	--
2-CHLORONAPHTHALENE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	--	--	--	--	--	< 5.0	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
9H-FLUORENE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
ACENAPHTHENE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
ACENAPHTHYLENE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
ANTHRACENE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 2(b)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Apr.'91	Apr.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	SW2-87 Mar.'86	May.'86	Aug.'86	Nov.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	--	--	--	--	--	< 5.0	--	--
BENZO(A)ANTHRACENE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
BENZO(A)PYRENE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
BENZO(B)FLUORANTHENE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
BENZO(GHI)PERYLENE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
BENZO(K)FLUORANTHENE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	--	--	--	--	--	17.7	--	--
CHRYSENE	-	ug/l	--	--	--	--	--	--	6.4	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	--	--	--	--	--	13.8	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
DIETHYL PHTHALATE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
DIMETHYL PHTHALATE	-	ug/l	--	--	--	--	--	--	13.4	--	--
FLUORANTHENE	-	ug/l	--	--	--	--	--	--	5.4	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	--	--	--	< 1.0	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	--	--	--	--	--	< 1.0	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
HEXACHLOROETHANE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
ISOPHORONE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	--	--	--	--	--	< 3.0	--	--
NAPHTHALENE	-	ug/l	--	--	--	--	--	--	< 4.0	--	--
NITROBENZENE	0.02p	ug/l	--	--	--	--	--	--	4.0	--	--
PHENANTHRENE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
									< 1.0	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 2(c)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Apr.'91	Apr.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	SW2-87 Mar.'86	May.'86	Aug.'86	Nov.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
METALS											
IRON	0.300	mg/l	--	--	--	--	--	53.00	11.30	6.60	13.00
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	90	--	6 (a)	< 1	< 1	4	< 1	< 1	< 1
FAECAL STREPTOCOCCI	-	/100ml	384	--	37 (a)	320	< 1	< 1	24	< 1	60
TOTAL COLIFORMS	-	/100ml	180	--	6 (a)	14	< 1	300	20	16000	29000
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	219	--	192	342	268	1560	2080	1710	1570
AMMONIA NITROGEN	0.020	mg/l	< 0.03	--	0.06	0.03	0.09	81.00	138.00	180.00	221.00
CHLORIDE	-	mg/l	14.4	--	18.1	17.4	24.9	--	849	797	660
CONDUCTIVITY	-	umhos/cm	453	--	377	1500	450	--	4200	4800	2340
DOC	-	mg/l	--	--	--	--	--	80.0	110.0	68.0	70.0
HARDNESS	-	mg/l	--	--	--	--	--	1160	1320	890	1120
KJELDAHL NITROGEN	-	mg/l	< 0.06	--	0.15	0.42	0.23	137.00	150.00	183.00	148.00
NITRATE	-	mg/l	--	--	--	--	--	0.02	< 0.01	0.88	< 0.01
NITRITE	-	mg/l	--	--	--	--	--	< 0.002	< 0.002	< 0.002	< 0.002
PH	6.5-8.5		7.5	--	7.70	8.05	8.38	--	6.94	6.77	6.79
PHENOLS	1	ug/l	< 1	--	< 1	< 1.0	< 1.0	< 2.0	17.9	24.3	< 2.0
SULFATE	-	mg/l	51.1	--	64.7	91.9	70.2	< 5	< 5	< 5	< 5
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	--	--	--	--	--	< 0.020	--	

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 2(d)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Apr.'91	Apr.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	SW2-87 Mar.'86	May.'86	Aug.'86	Nov.'86
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	--	--	--	--	--	< 0.020	--	--
4,4-DDE	-	ug/l	--	--	--	--	--	--	< 0.020	--	--
4,4-DDT	-	ug/l	--	--	--	--	--	--	< 0.020	--	--
ALDRIN	0.001	ug/l	--	--	--	--	--	--	< 0.010	--	--
ALPHA-BHC	-	ug/l	--	--	--	--	--	--	< 0.010	--	--
ALPHA-CHLORDANE	-	ug/l	--	--	--	--	--	--	< 0.010	--	--
ALPHA-ENDOSULFAN	-	ug/l	--	--	--	--	--	--	< 0.020	--	--
BETA-BHC	-	ug/l	--	--	--	--	--	--	< 0.010	--	--
BETA-ENDOSULFAN	-	ug/l	--	--	--	--	--	--	< 0.020	--	--
DELTA-BHC	-	ug/l	--	--	--	--	--	--	< 0.020	--	--
DIELDRIN	0.001	ug/l	--	--	--	--	--	--	< 0.010	--	--
ENDOSULFAN SULFATE	-	ug/l	--	--	--	--	--	--	< 0.020	--	--
ENDRIN	0.002	ug/l	--	--	--	--	--	--	< 0.010	--	--
GAMMA-BHC	-	ug/l	--	--	--	--	--	--	< 0.010	--	--
GAMMA-CHLORDANE	-	ug/l	--	--	--	--	--	--	< 0.010	--	--
HEPTACHLOR	0.001	ug/l	--	--	--	--	--	--	< 0.020	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	--	--	--	--	--	< 0.020	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	--	--	< 0.010	--	--	--
METHOXYCHLOR	0.04	ug/l	--	--	--	--	--	--	< 0.020	--	--
MIREX	0.001	ug/l	--	--	--	--	--	--	< 0.020	--	--
OXYCHLORDANE	-	ug/l	--	--	--	--	--	--	< 0.020	--	--
TOTAL PCB	-	ug/l	--	--	--	--	--	--	< 0.050	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	--	< 2.0	--	< 1.0	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	--	< 2.0	--	< 1.0	--	--
1,1-DICHLOROETHANE	200	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 2(e)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Apr.'91	Apr.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	SW2-87 Mar.'86	May.'86	Aug.'86	Nov.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	--	< 1.0	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	< 1.0	--	1.0	--	--
1,2-DICHLOROETHANE	100	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	--	48.3	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	< 10	--	--	--	--
BENZENE	100p	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.5	--	16.1	--	--
BROMOFORM	-	ug/l	--	--	--	--	< 2.0	--	< 1.0	--	--
BROMOMETHANE	-	ug/l	--	--	--	--	< 2.0	--	< 2.0	--	--
CARBON TETRACHLORIDE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
CHLOROBENZENE	15	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.5	--	124.5	--	--
CHLOROETHANE	-	ug/l	--	--	--	--	< 2.0	--	< 2.0	--	--
CHLOROFORM	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	< 2.0	--	< 1.0	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
ETHYLBENZENE	8p	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.5	--	1.1	--	--
M&P-XYLENE	-	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.5	--	9.9	--	--
METHYL CHLORIDE	-	ug/l	--	--	--	--	< 2.0	--	< 2.0	--	--
METHYLENE CHLORIDE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
O-XYLENE	40p	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.5	--	2.4	--	--
TETRACHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--
TOLUENE	0.8p	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.5	--	6.1	--	--
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
TRICHLOROETHYLENE	20	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 2(f)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Apr.'91	Apr.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	SW2-87 Mar.'86	May.'86	Aug.'86	Nov.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	< 2.0	--	< 2.0	--	--
VINYL CHLORIDE	-	ug/l	--	--	--	--	< 2.0	--	< 2.0	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 3(a)

COMPOUND (by Class)	MOE Obj.	Units	SW3-87 Mar.'86	SW3-87 May.'86	SW3-87 Aug.'86	SW3-87 Nov.'86	SW4-87 Mar.'86	SW4-87 May.'86	SW4-87 Aug.'86	SW4-87 Nov.'86	SW4-87 Apr.'93
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
2,4-DIMETHYL PHENOL	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
2,4-DINITROPHENOL	-	ug/l	--	< 3.0	--	--	--	< 3.0	--	--	--
2-CHLOROPHENOL	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
2-NITROPHENOL	0.5p	ug/l	--	< 5.0	--	--	--	< 5.0	--	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	< 5.0	--	--	--	< 5.0	--	--	--
4-NITROPHENOL	48p	ug/l	--	< 5.0	--	--	--	< 5.0	--	--	--
P-CHLORO-M-CRESOL	-	ug/l	--	< 5.0	--	--	--	< 5.0	--	--	--
PENTACHLOROPHENOL	0.5	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
PHENOL	5p	ug/l	--	< 3.0	--	--	--	< 3.0	--	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	< 5.0	--	--	--	< 5.0	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	--	--	--	1.1	--	--	--
2,4-DINITROTOLUENE	4p	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
2,6-DINITROTOLUENE	3p	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
2-CHLORONAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	< 5.0	--	--	--	< 5.0	--	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
9H-FLUORENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
ACENAPHTHENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
ACENAPHTHYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
ANTHRACENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 3(b)

COMPOUND (by Class)	MOE Obj.	Units	SW3-87 Mar.'86	May.'86	Aug.'86	Nov.'86	SW4-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Apr.'93
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	< 5.0	--	--	--	< 5.0	--	--	--
BENZO(A)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
BENZO(A)PYRENE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
BENZO(B)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
BENZO(GHI)PERYLENE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
BENZO(K)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	25.3	--	--	--	25.8	--	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	8.6	--	--	--	8.1	--	--	--
CHRYSENE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	26.8	--	--	--	16.1	--	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
DIETHYL PHTHALATE	-	ug/l	--	16.3	--	--	--	15.3	--	--	--
DIMETHYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	6.2	--	--	--
FLUORANTHENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
HEXACHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
ISOPHORONE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	< 3.0	--	--	--	< 3.0	--	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	< 4.0	--	--	--	< 4.0	--	--	--
NAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
NITROBENZENE	0.02p	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
PHENANTHRENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 3(c)

COMPOUND (by Class)	MOE Obj.	Units	SW3-87 Mar.'86	SW3-87 May.'86	SW3-87 Aug.'86	SW3-87 Nov.'86	SW4-87 Mar.'86	SW4-87 May.'86	SW4-87 Aug.'86	SW4-87 Nov.'86	SW4-87 Apr.'93
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
METALS											
IRON	0.300	mg/l	3.10	0.15	0.65	0.17	2.1	0.71	0.25	0.14	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	2	< 1	50	< 1	< 1	< 1	90	70	< 1
FAECAL STREPTOCOCCI	-	/100ml	2	52	610	490	2	110	1200	60	< 1
TOTAL COLIFORMS	-	/100ml	3600	7000	600000	15000	42000	2100	180000	5500	< 1
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	965	866	1770	1220	1800	1830	1890	1580	240
AMMONIA NITROGEN	0.020	mg/l	50.00	105.00	170.00	160.00	98.00	83.00	170.00	174.00	0.12
CHLORIDE	-	mg/l	--	841	471	596	--	834	769	485	35.1
CONDUCTIVITY	-	umhos/cm	--	3920	6000	2100	--	4420	5150	2100	490
DOC	-	mg/l	27.0	90.0	70.0	35.0	40.0	75.0	46.0	65.0	--
HARDNESS	-	mg/l	1070	1220	1170	989	1540	1420	1140	1280	--
KJELDAHL NITROGEN	-	mg/l	51.00	108.00	174.00	77.00	129.00	130.00	179.00	101.00	0.32
NITRATE	-	mg/l	1.60	1.04	0.68	< 0.01	0.07	0.92	1.66	< 0.01	--
NITRITE	-	mg/l	0.014	< 0.002	< 0.002	< 0.002	0.004	< 0.002	0.002	< 0.002	--
PH	6.5-8.5		--	7.58	7.48	7.44	--	7.50	7.26	7.11	7.92
PHENOLS	1	ug/l	< 2.0	< 2.0	21.1	< 2.0	< 2.0	< 2.0	35.2	< 2.0	< 1.0
SULFATE	-	mg/l	95	135	100	125	< 5	< 5	65	< 5	85.1
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	< 0.020	--	--	--	< 0.020	--	--	

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 3(d)

COMPOUND (by Class)	MOE Obj.	Units	SW3-87 Mar.'86	SW3-87 May.'86	SW3-87 Aug.'86	SW3-87 Nov.'86	SW4-87 Mar.'86	SW4-87 May.'86	SW4-87 Aug.'86	SW4-87 Nov.'86	SW4-87 Apr.'93
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	< 0.020	--	--	--	< 0.020	--	--	--
4,4-DDE	-	ug/l	--	< 0.020	--	--	--	< 0.020	--	--	--
4,4-DDT	-	ug/l	--	< 0.020	--	--	--	< 0.020	--	--	--
ALDRIN	0.001	ug/l	--	< 0.010	--	--	--	< 0.010	--	--	--
ALPHA-BHC	-	ug/l	--	< 0.010	--	--	--	< 0.010	--	--	--
ALPHA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	< 0.010	--	--	--
ALPHA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	< 0.020	--	--	--
BETA-BHC	-	ug/l	--	< 0.010	--	--	--	< 0.010	--	--	--
BETA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	< 0.020	--	--	--
DELTA-BHC	-	ug/l	--	< 0.020	--	--	--	< 0.020	--	--	--
DIELDRIN	0.001	ug/l	--	< 0.010	--	--	--	< 0.010	--	--	--
ENDOSULFAN SULFATE	-	ug/l	--	< 0.020	--	--	--	< 0.020	--	--	--
ENDRIN	0.002	ug/l	--	< 0.010	--	--	--	< 0.010	--	--	--
GAMMA-BHC	-	ug/l	--	< 0.010	--	--	--	< 0.010	--	--	--
GAMMA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	< 0.010	--	--	--
HEPTACHLOR	0.001	ug/l	--	< 0.010	--	--	--	< 0.010	--	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	< 0.020	--	--	--	< 0.020	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 0.010	--	--	--	< 0.010	--	--	--
METHOXYCHLOR	0.04	ug/l	--	< 0.020	--	--	--	< 0.020	--	--	--
MIREX	0.001	ug/l	--	< 0.020	--	--	--	< 0.020	--	--	--
OXYCHLORDANE	-	ug/l	--	< 0.020	--	--	--	< 0.020	--	--	--
TOTAL PCB	-	ug/l	--	< 0.050	--	--	--	< 0.050	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 2.0
1,1,2-TRICHLOROETHANE	800	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 2.0
1,1-DICHLOROETHANE	200	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 3(e)

COMPOUND (by Class)	MOE Obj.	Units	SW3-87 Mar.'86	SW3-87 May.'86	SW3-87 Aug.'86	SW3-87 Nov.'86	SW4-87 Mar.'86	SW4-87 May.'86	SW4-87 Aug.'86	SW4-87 Nov.'86	SW4-87 Apr.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
1,2-DICHLOROETHANE	100	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	--	--	--	1.0	--	--	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	--	--	--	< 10
BENZENE	100p	ug/l	--	< 0.5	--	--	--	< 0.5	--	--	< 0.5
BROMOFORM	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 2.0
BROMOMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	< 2.0
CARBON TETRACHLORIDE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
CHLOROBENZENE	15	ug/l	--	< 0.5	--	--	--	< 0.5	--	--	< 0.5
CHLOROETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	< 2.0
CHLOROFORM	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 2.0
DICHLORODIFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
ETHYLBENZENE	8p	ug/l	--	0.5	--	--	--	TR	--	--	< 0.5
M&P-XYLENE	-	ug/l	--	1.8	--	--	--	1.3	--	--	< 0.5
METHYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	< 2.0
METHYLENE CHLORIDE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
O-XYLENE	40p	ug/l	--	1.1	--	--	--	0.7	--	--	< 0.5
TETRACHLOROETHYLENE	50	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
TOLUENE	0.8p	ug/l	--	3.0	--	--	--	2.1	--	--	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0
TRICHLOROETHYLENE	20	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 3(f)

COMPOUND (by Class)	MOE Obj.	Units	SW3-87 Mar.'86	SW3-87 May.'86	SW3-87 Aug.'86	SW3-87 Nov.'86	SW4-87 Mar.'86	SW4-87 May.'86	SW4-87 Aug.'86	SW4-87 Nov.'86	SW4-87 Apr.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	< 2.0
VINYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 4(a)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'88	Aug.'88	Nov.'89	Apr.'90
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DINITROPHENOL	-	ug/l	--	< 3.0	--	--	--	--	--	--	--
2-CHLOROPHENOL	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
2-NITROPHENOL	0.5p	ug/l	--	< 5.0	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	< 5.0	--	--	--	--	--	--	--
4-NITROPHENOL	48p	ug/l	--	< 5.0	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
PENTACHLOROPHENOL	0.5	ug/l	--	< 2.0	--	--	--	--	--	--	--
PHENOL	5p	ug/l	--	< 3.0	--	--	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	4p	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,6-DINITROTOLUENE	3p	ug/l	--	< 2.0	--	--	--	--	--	--	--
2-CHLORONAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
9H-FLUORENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ACENAPHTHENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ACENAPHTHYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ANTHRACENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 4(b)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'88	Aug.'88	Nov.'89	Apr.'90
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(A)PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	19.0	--	--	--	--	--	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	2.8	--	--	--	--	--	--	--
CHRYSENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIETHYL PHTHALATE	-	ug/l	--	8.2	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	-	ug/l	--	4.6	--	--	--	--	--	--	--
FLUORANTHENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
ISOPHORONE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	< 3.0	--	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	< 4.0	--	--	--	--	--	--	--
NAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
NITROBENZENE	0.02p	ug/l	--	< 1.0	--	--	--	--	--	--	--
PHENANTHRENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 4(c)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'88	Aug.'88	Nov.'89	Apr.'90
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
METALS											
IRON	0.300	mg/l	1.35	0.11	0.14	0.03	< 0.02	--	--	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	14	14	98	60	< 1	60	1300	512	4
FAECAL STREPTOCOCCI	-	/100ml	8	180	340	90	10	< 1	370	1440	128
TOTAL COLIFORMS	-	/100ml	4700	2200	83000	500	830	440	3900	980	20
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	397	677	657	428	566	637	448	135	371
AMMONIA NITROGEN	0.020	mg/l	0.63	1.25	0.64	1.81	0.99	< 0.02	< 0.02	< 0.02	0.52
CHLORIDE	-	mg/l	--	242	228	90	157	560	130	32.0 J	249
CONDUCTIVITY	-	umhos/cm	--	1670	1880	668	1585	2050	1245	495	1378
DOC	-	mg/l	7.5	14.0	12.5	5.0	8.0	--	--	--	--
HARDNESS	-	mg/l	550	840	688	610	664	--	--	--	--
KJELDAHL NITROGEN	-	mg/l	1.45	1.64	1.05	0.97	1.69	0.70	0.40	0.37 J	0.65
NITRATE	-	mg/l	0.52	0.40	0.76	< 0.01	0.43	--	--	--	--
NITRITE	-	mg/l	0.012	0.130	0.030	0.016	0.030	--	--	--	--
PH	6.5-8.5		--	7.63	7.11	7.45	6.38	7.30	7.35	7.53	7.52
PHENOLS	1	ug/l	11.5	17.9	12.1	< 2.0	24.6	7	< 1	< 1	< 1
SULFATE	-	mg/l	110	100	80	125	110	93.8	87.8	103 J	134
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	< 0.020	--	--	--	--	--	--	

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 4(d)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'88	Aug.'88	Nov.'89	Apr.'90
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
4,4-DDE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
4,4-DDT	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
ALDRIN	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
BETA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
BETA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
DELTA-BHC	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
DIELDRIN	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
ENDRIN	0.002	ug/l	--	< 0.010	--	--	--	--	--	--	--
GAMMA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
GAMMA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
HEPTACHLOR	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	< 0.020	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 0.010	--	--	--	--	--	--	--
METHOXYCHLOR	0.04	ug/l	--	< 0.020	--	--	--	--	--	--	--
MIREX	0.001	ug/l	--	< 0.020	--	--	--	--	--	--	--
OXYCHLORDANE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
TOTAL PCB	-	ug/l	--	< 0.050	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	< 2	< 1.0	< 0.50	--
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	< 1.0	--	--	--	< 2	< 1.0	< 0.33	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	< 1.0	--	--	--	< 1	< 1.0	< 0.21	--
1,1-DICHLOROETHANE	200	ug/l	--	< 1.0	--	--	--	< 1	< 1.0	< 0.20	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 4(e)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'88	Aug.'88	Nov.'89	Apr.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	< 1.0	--	--	--	< 1	< 1.0	< 0.32	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	--	--	< 0.50	--
1,2-DIBROMOETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.18	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1	< 1.0	< 0.24	--
1,2-DICHLOROETHANE	100	ug/l	--	< 1.0	--	--	--	< 2	< 1.0	< 0.82	--
1,2-DICHLOROPROPANE	-	ug/l	--	< 1.0	--	--	--	< 1	< 1.0	< 0.20	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1	< 1.0	< 0.23	--
1,4-DICHLOROBENZENE	4	ug/l	--	3.4	--	--	--	< 1	< 1.0	< 0.22	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	< 10	--	--	--
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	< 1	--	--	--
BENZENE	100p	ug/l	--	< 0.5	--	--	--	< 1	< 0.5	0.19 U	--
BROMOFORM	-	ug/l	--	< 1.0	--	--	--	< 2	< 1.0	< 0.49	--
BROMOMETHANE	-	ug/l	--	< 2.0	--	--	--	< 16	< 2.0	< 0.83	--
CARBON TETRACHLORIDE	-	ug/l	--	< 1.0	--	--	--	< 2	< 1.0	< 0.93	--
CHLOROBENZENE	15	ug/l	--	< 0.5	--	--	--	< 1	< 0.5	< 0.27	--
CHLOROETHANE	-	ug/l	--	< 2.0	--	--	--	< 10	< 2.0	< 0.50	--
CHLOROFORM	-	ug/l	--	< 1.0	--	--	--	< 1	< 1.0	3.6 U	12.0 UJ
CIS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	--	--	< 1.0	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1.0	< 0.27	--
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1.0	--	--	--	< 1	< 1.0	< 0.24	--
DICHLOROBROMOMETHANE	-	ug/l	--	< 1.0	--	--	--	< 1	< 1.0	< 0.50	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.50	--
ETHYLBENZENE	8p	ug/l	--	1.2	--	--	--	< 1	< 0.5	< 0.24	--
M&P-XYLENE	-	ug/l	--	5.2	--	--	--	< 2	< 0.5	0.21 U	--
MESITYLENE	-	ug/l	--	--	--	--	--	< 1	--	--	--
METHYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	< 50	< 2.0	0.72 U	--
METHYLENE CHLORIDE	-	ug/l	--	< 1.0	--	--	--	11	< 1.0	19.4 U	39.0 UJ
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	< 1	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 4(f)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'88	Aug.'88	Nov.'89	Apr.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)											
O-XYLENE	40p	ug/l	--	2.9	--	--	--	< 1	< 0.5	< 0.19	--
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	< 1	--	--	--
TETRACHLOROETHYLENE	50	ug/l	--	< 1.0	--	--	--	< 1	< 1.0	0.21 U	--
TOLUENE	0.8p	ug/l	--	2.6	--	--	--	2.6	< 0.5	0.34 U	--
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	< 1.0	--	--	--	< 1	< 1.0	< 0.20	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1.0	< 1.0	--
TRICHLOROETHYLENE	20	ug/l	--	< 1.0	--	--	--	< 1	< 1.0	< 0.92	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2	< 2.0	0.26 U	--
VINYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	< 12	< 2.0	< 0.74	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 5(a)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Apr.'91	Apr.'92	Jul.'92	Apr.'93	SW6-87 Mar.'86	May.'86	Nov.'86	Mar.'87	May.'87
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	--	--	--	--	< 2.0	--	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	--	--	--	--	< 2.0	--	--	--
2,4-DIMETHYL PHENOL	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
2,4-DINITROPHENOL	-	ug/l	--	--	--	--	--	< 3.0	--	--	--
2-CHLOROPHENOL	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
2-NITROPHENOL	0.5p	ug/l	--	--	--	--	--	< 5.0	--	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	--	--	--	--	< 5.0	--	--	--
4-NITROPHENOL	48p	ug/l	--	--	--	--	--	< 5.0	--	--	--
P-CHLORO-M-CRESOL	-	ug/l	--	--	--	--	--	< 5.0	--	--	--
PENTACHLOROPHENOL	0.5	ug/l	--	--	--	--	--	< 2.0	--	--	--
PHENOL	5p	ug/l	--	--	--	--	--	< 3.0	--	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	< 1.0	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	--	< 1.0	--	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	--	--	--	--	< 5.0	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	--	< 1.0	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	--	--	< 1.0	--	--	--
2,4-DINITROTOLUENE	4p	ug/l	--	--	--	--	--	< 2.0	--	--	--
2,6-DINITROTOLUENE	3p	ug/l	--	--	--	--	--	< 2.0	--	--	--
2-CHLORONAPHTHALENE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	--	--	--	--	< 5.0	--	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
9H-FLUORENE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
ACENAPHTHENE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
ACENAPHTHYLENE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
ANTHRACENE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 5(b)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Apr.'91	Apr.'92	Jul.'92	Apr.'93	SW6-87 Mar.'86	May.'86	Nov.'86	Mar.'87	May.'87
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	--	--	--	--	< 5.0	--	--	--
BENZO(A)ANTHRACENE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
BENZO(A)PYRENE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
BENZO(B)FLUORANTHENE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
BENZO(GHI)PERYLENE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
BENZO(K)FLUORANTHENE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	--	--	--	--	16.4	--	--	--
CHRYSENE	-	ug/l	--	--	--	--	--	9.2	--	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	--	--	--	--	19.7	--	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
DIETHYL PHTHALATE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
DIMETHYL PHTHALATE	-	ug/l	--	--	--	--	--	17.0	--	--	--
FLUORANTHENE	-	ug/l	--	--	--	--	--	7.8	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	--	--	< 1.0	--	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	--	--	--	--	< 1.0	--	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
HEXACHLOROETHANE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
ISOPHORONE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	--	--	--	--	< 3.0	--	--	--
NAPHTHALENE	-	ug/l	--	--	--	--	--	< 4.0	--	--	--
NITROBENZENE	0.02p	ug/l	--	--	--	--	--	< 1.0	--	--	--
PHENANTHRENE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 5(c)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Apr.'91	Apr.'92	Jul.'92	Apr.'93	SW6-87 Mar.'86	May.'86	Nov.'86	Mar.'87	May.'87
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
METALS											
IRON	0.300	mg/l	--	--	--	--	0.30	0.02	< 0.02	< 0.02	0.06
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	400	--	10	< 1	18	1700	790	< 1	< 1
FAECAL STREPTOCOCCI	-	/100ml	102	--	240	< 1	12	1400	1600	10	270
TOTAL COLIFORMS	-	/100ml	580	--	< 1	< 1	940	33000	1600	1400	1600
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	223	204	568	340	255	358	357	318	367
AMMONIA NITROGEN	0.020	mg/l	< 0.03	< 0.03	0.03	0.14	0.47	0.10	1.40	0.04	0.02
CHLORIDE	-	mg/l	120	84.3	301	168	--	73	46	28	32.8
CONDUCTIVITY	-	umhos/cm	716	593	3300	865	--	933	510	800	870
DOC	-	mg/l	--	--	--	--	7.0	11.0	5.0	3.0	6.0
HARDNESS	-	mg/l	--	--	--	--	425	540	532	412	461
KJELDAHL NITROGEN	-	mg/l	< 0.06	< 0.06	0.95	0.17	0.79	0.71	0.55	0.45	0.53
NITRATE	-	mg/l	--	--	--	--	0.48	1.10	< 0.01	0.10	< 0.01
NITRITE	-	mg/l	--	--	--	--	0.016	0.010	0.003	0.007	0.001
PH	6.5-8.5		7.5	7.52	7.66	8.05	--	8.15	8.17	6.42	6.41
PHENOLS	1	ug/l	< 1	< 1	< 1.0	< 1.0	30.2	79.3	< 2.0	4.24	< 2.0
SULFATE	-	mg/l	451	106	108	90.3	118	105	150	145	134
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	--	--	--	--	< 0.020	--	--	

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 5(d)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Apr.'91	Apr.'92	Jul.'92	Apr.'93	SW6-87 Mar.'86	May.'86	Nov.'86	Mar.'87	May.'87
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	--	--	--	--	< 0.020	--	--	--
4,4-DDE	-	ug/l	--	--	--	--	--	< 0.020	--	--	--
4,4-DDT	-	ug/l	--	--	--	--	--	< 0.020	--	--	--
ALDRIN	0.001	ug/l	--	--	--	--	--	< 0.010	--	--	--
ALPHA-BHC	-	ug/l	--	--	--	--	--	< 0.010	--	--	--
ALPHA-CHLORDANE	-	ug/l	--	--	--	--	--	< 0.010	--	--	--
ALPHA-ENDOSULFAN	-	ug/l	--	--	--	--	--	< 0.020	--	--	--
BETA-BHC	-	ug/l	--	--	--	--	--	< 0.010	--	--	--
BETA-ENDOSULFAN	-	ug/l	--	--	--	--	--	< 0.020	--	--	--
DELTA-BHC	-	ug/l	--	--	--	--	--	< 0.020	--	--	--
DIELDRIN	0.001	ug/l	--	--	--	--	--	< 0.010	--	--	--
ENDOSULFAN SULFATE	-	ug/l	--	--	--	--	--	< 0.020	--	--	--
ENDRIN	0.002	ug/l	--	--	--	--	--	< 0.010	--	--	--
GAMMA-BHC	-	ug/l	--	--	--	--	--	< 0.010	--	--	--
GAMMA-CHLORDANE	-	ug/l	--	--	--	--	--	< 0.010	--	--	--
HEPTACHLOR	0.001	ug/l	--	--	--	--	--	< 0.010	--	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	--	--	--	--	< 0.020	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	--	--	< 0.010	--	--	--
METHOXYCHLOR	0.04	ug/l	--	--	--	--	--	< 0.020	--	--	--
MIREX	0.001	ug/l	--	--	--	--	--	< 0.020	--	--	--
OXYCHLORDANE	-	ug/l	--	--	--	--	--	< 0.020	--	--	--
TOTAL PCB	-	ug/l	--	--	--	--	--	< 0.050	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	< 2.0	--	< 1.0	--	--	< 1.0
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	< 2.0	--	< 1.0	--	--	< 1.0
1,1-DICHLOROETHANE	200	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 5(e)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Apr.'91	Apr.'92	Jul.'92	Apr.'93	SW6-87 Mar.'86	May.'86	Nov.'86	Mar.'87	May.'87
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	< 1.0	--	< 1.0	--	--	< 1.0
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	< 1.0	--	--	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	--	< 1.0	--	--	< 1.0
1,2-DICHLOROETHANE	100	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	< 1.0	--	< 1.0	--	--	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	< 10	--	--	--	--	--
BENZENE	100p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	--	--	< 0.5
BROMOFORM	-	ug/l	--	--	--	< 2.0	--	< 1.0	--	--	< 1.0
BROMOMETHANE	-	ug/l	--	--	--	< 2.0	--	< 2.0	--	--	< 2.0
CARBON TETRACHLORIDE	-	ug/l	--	--	--	< 1.0	--	< 1.0	--	--	< 1.0
CHLOROBENZENE	15	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	--	--	< 0.5
CHLOROETHANE	-	ug/l	--	--	--	< 2.0	--	< 2.0	--	--	< 2.0
CHLOROFORM	-	ug/l	--	--	--	< 1.0	--	< 1.0	--	--	TR
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	--	< 1.0	--	--	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	< 1.0	--	< 1.0	--	--	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	< 2.0	--	< 1.0	--	--	< 1.0
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	< 2.0	--	--	< 2.0
ETHYLBENZENE	8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	--	TR	--	--	--
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	--	1.0	--	--	< 0.5
METHYL CHLORIDE	-	ug/l	--	--	--	< 2.0	--	< 2.0	--	--	--
METHYLENE CHLORIDE	-	ug/l	--	--	--	< 1.0	--	< 1.0	--	--	--
O-XYLENE	40p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	--	0.5	--	--	< 0.5
TETRACHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--	TR
TOLUENE	0.8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	--	2.4	--	--	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	< 1.0	--	< 1.0	--	--	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	--	< 1.0	--	--	< 1.0
TRICHLOROETHYLENE	20	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 5(f)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Apr.'91	Apr.'92	Jul.'92	Apr.'93	SW6-87 Mar.'86	May.'86	Nov.'86	Mar.'87	May.'87
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	--	< 2.0	--	--	< 2.0
VINYL CHLORIDE	-	ug/l	--	--	--	< 2.0	--	< 2.0	--	--	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 6(a)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 May.'88	Aug.'88	Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Jul.'92 (Dupl)	Apr.'93
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	290	2000	940	140	110	--	< 1	< 1	< 1
FAECAL STREPTOCOCCI	-	/100ml	400	590	720	91	184	--	250	200	< 1
TOTAL COLIFORMS	-	/100ml	5700	18000	1260	336	180	--	2	< 1	8
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	364	230	156	273	218	210	334	334	259
AMMONIA NITROGEN	0.020	mg/l	< 0.02	< 0.02	< 0.02	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
CHLORIDE	-	mg/l	34.0	22.7	15.0 J	17.0	12.4	12.7	30.3	34.7	16.2
CONDUCTIVITY	-	umhos/cm	840	680	470	637	475	418	1730	1730	460
KJELDAHL NITROGEN	-	mg/l	< 0.02	0.48	0.42 J	< 0.06	< 0.06	0.14	0.23	0.19	0.42
PH	6.5-8.5		7.04	7.05	7.55	7.95	7.5	7.94	8.06	8.06	8.06
PHENOLS	1	ug/l	1	0.014	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0
SULFATE	-	mg/l	163	67.1	89.4 J	142	82.2	79.7	122	122	62.6
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 2	< 1.0	< 0.50	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	< 2	< 1.0	< 0.33	--	--	--	--	--	< 2.0
1,1,2-TRICHLOROETHANE	800	ug/l	< 1	< 1.0	< 0.21	--	--	--	--	--	< 2.0
1,1-DICHLOROETHANE	200	ug/l	< 1	< 1.0	< 0.20	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	40	ug/l	< 1	< 1.0	< 0.32	--	--	--	--	--	< 1.0
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	< 0.50	--	--	--	--	--	--
1,2-DIBROMOETHANE	-	ug/l	--	--	< 0.18	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	< 1	< 1.0	< 0.24	--	--	--	--	--	< 1.0
1,2-DICHLOROETHANE	100	ug/l	< 2	< 1.0	< 0.82	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 1	< 1.0	< 0.20	--	--	--	--	--	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	< 1	< 1.0	< 0.23	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 1	< 1.0	< 0.22	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 6(b)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 May.'88	Aug.'88	Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Jul.'92 (Dupl)	Apr.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
2-CHLOROETHYLVINYLETHER	-	ug/l	< 10	--	--	--	--	--	--	--	< 10
A-METHYLSTYRENE	-	ug/l	< 1	--	--	--	--	--	--	--	--
BENZENE	100p	ug/l	< 1	< 0.5	0.19 U	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	-	ug/l	< 2	< 1.0	< 0.49	--	--	--	--	--	< 2.0
BROMOMETHANE	-	ug/l	< 16	< 2.0	< 0.83	--	--	--	--	--	< 2.0
CARBON TETRACHLORIDE	-	ug/l	< 2	< 1.0	< 0.93	--	--	--	--	--	< 1.0
CHLOROBENZENE	15	ug/l	< 1	< 0.5	< 0.27	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	< 10	< 2.0	< 0.50	--	--	--	--	--	< 2.0
CHLOROFORM	-	ug/l	< 1	< 1.0	2.4 U	1.25 UJ	--	--	--	--	< 1.0
CIS-1,2-DICHLOROETHYLENE	200	ug/l	--	< 1.0	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	< 1.0	< 0.27	--	--	--	--	--	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	< 1	< 1.0	< 0.24	--	--	--	--	--	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	< 1	< 1.0	< 0.50	--	--	--	--	--	< 2.0
DICHLORODIFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	< 0.50	--	--	--	--	--	--
ETHYLBENZENE	8p	ug/l	< 1	< 0.5	< 0.24	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	< 2	< 0.5	0.21 U	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
MESITYLENE	-	ug/l	< 1	--	--	--	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	< 50	< 2.0	0.65 U	--	--	--	--	--	< 2.0
METHYLENE CHLORIDE	-	ug/l	11	< 1.0	16.8 U	18.3 UJ	--	--	--	--	< 1.0
METHYLSTYRENE ISOMERS	-	ug/l	< 1	--	--	--	--	--	--	--	--
O-XYLENE	40p	ug/l	< 1	< 0.5	< 0.19	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	< 1	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	50	ug/l	< 1	< 1.0	0.21 U	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TOLUENE	0.8p	ug/l	< 2	< 0.5	0.36 U	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	< 1	< 1.0	< 0.20	--	--	--	--	--	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	< 1.0	--	--	--	--	--	--	< 1.0
TRICHLOROETHYLENE	20	ug/l	< 1	< 1.0	< 0.92	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	< 2	< 2.0	0.65 U	--	--	--	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 6(c)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 May.'88	Aug.'88	Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Jul.'92 (Dupl)	Apr.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
VINYL CHLORIDE	-	ug/l	< 12	< 2.0	< 0.74	--	--	--	--	--	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 7(a)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 Jul.'93	SW7-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	--	< 2.0	--	--	--	--	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	--	< 2.0	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
2,4-DINITROPHENOL	-	ug/l	--	--	< 3.0	--	--	--	--	--	--
2-CHLOROPHENOL	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
2-NITROPHENOL	0.5p	ug/l	--	--	< 5.0	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	--	< 5.0	--	--	--	--	--	--
4-NITROPHENOL	48p	ug/l	--	--	< 5.0	--	--	--	--	--	--
P-CHLORO-M-CRESOL	-	ug/l	--	--	< 5.0	--	--	--	--	--	--
PENTACHLOROPHENOL	0.5	ug/l	--	--	< 2.0	--	--	--	--	--	--
PHENOL	5p	ug/l	--	--	< 3.0	--	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	< 1.0	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	< 1.0	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	--	< 5.0	--	--	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	< 1.0	--	--	--	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	--	< 1.0	--	--	--	--	--	--
2,4-DINITROTOLUENE	4p	ug/l	--	--	< 2.0	--	--	--	--	--	--
2,6-DINITROTOLUENE	3p	ug/l	--	--	< 2.0	--	--	--	--	--	--
2-CHLORONAPHTHALENE	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	--	< 5.0	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
9H-FLUORENE	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
ACENAPHTHENE	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
ACENAPHTHYLENE	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
ANTHRACENE	-	ug/l	--	--	< 1.0	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 7(b)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 Jul.'93	SW7-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	--	< 5.0	--	--	--	--	--	--
BENZO(A)ANTHRACENE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
BENZO(A)PYRENE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
BENZO(GHI)PERYLENE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	--	8.3	--	--	--	--	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	--	2.8	--	--	--	--	--	--
CHRYSENE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	--	5.6	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
DIETHYL PHTHALATE	-	ug/l	--	--	5.4	--	--	--	--	--	--
DIMETHYL PHTHALATE	-	ug/l	--	--	TR	--	--	--	--	--	--
FLUORANTHENE	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	< 1.0	--	--	--	--	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	--	< 1.0	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
HEXACHLOROETHANE	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
ISOPHORONE	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	--	< 3.0	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	--	< 4.0	--	--	--	--	--	--
NAPHTHALENE	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
NITROBENZENE	0.02p	ug/l	--	--	< 1.0	--	--	--	--	--	--
PHENANTHRENE	-	ug/l	--	--	< 1.0	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 7(c)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 Jul.'93	SW7-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
METALS											
IRON	0.300	mg/l	--	0.75	0.04	0.06	0.03	< 0.02	0.02	0.04	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	290	66	60	380	170	< 1	10	< 1	12
FAECAL STREPTOCOCCI	-	/100ml	250	2	1000	4600	820	120	140	58	120
TOTAL COLIFORMS	-	/100ml	1000	2900	6200	520000	1000	700	900	480	900
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	304	573	582	637	632	414	447	410	412
AMMONIA NITROGEN	0.020	mg/l	< 0.03	20.00	0.10	0.05	9.13	0.04	0.02	0.11	< 0.02
CHLORIDE	-	mg/l	18.6	--	537	646	475	1192	183	--	200
CONDUCTIVITY	-	umhos/cm	--	--	2260	3060	1150	1525	1545	2120	1400
DOC	-	mg/l	--	22.0	32.0	12.0	15.0	7.5	8.0	13.0	--
HARDNESS	-	mg/l	--	703	800	736	851	540	548	788	--
KJELDAHL NITROGEN	-	mg/l	0.52	23.00	1.64	192.00	0.19	0.83	0.68	0.19	0.18
NITRATE	-	mg/l	--	3.00	14.00	77.00	< 0.01	1.20	0.16	< 1.0	--
NITRITE	-	mg/l	--	0.062	0.020	0.192	0.200	0.011	0.011	< 0.001	--
PH	6.5-8.5		--	--	8.26	8.28	7.97	7.03	6.89	7.67	6.80
PHENOLS	1	ug/l	< 1.0	< 2.0	2.4	10.4	< 2.0	15.1	< 2.0	8.6	4
SULFATE	-	mg/l	102	93	90	10	120	130	120	300	202
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	--	< 0.020	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 7(d)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 Jul.'93	SW7-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	--	< 0.020	--	--	--	--	--	--
4,4-DDE	-	ug/l	--	--	< 0.020	--	--	--	--	--	--
4,4-DDT	-	ug/l	--	--	< 0.020	--	--	--	--	--	--
ALDRIN	0.001	ug/l	--	--	< 0.010	--	--	--	--	--	--
ALPHA-BHC	-	ug/l	--	--	< 0.010	--	--	--	--	--	--
ALPHA-CHLORDANE	-	ug/l	--	--	< 0.010	--	--	--	--	--	--
ALPHA-ENDOSULFAN	-	ug/l	--	--	< 0.020	--	--	--	--	--	--
BETA-BHC	-	ug/l	--	--	< 0.010	--	--	--	--	--	--
BETA-ENDOSULFAN	-	ug/l	--	--	< 0.020	--	--	--	--	--	--
DELTA-BHC	-	ug/l	--	--	< 0.020	--	--	--	--	--	--
DIELDRIN	0.001	ug/l	--	--	< 0.010	--	--	--	--	--	--
ENDOSULFAN SULFATE	-	ug/l	--	--	< 0.020	--	--	--	--	--	--
ENDRIN	0.002	ug/l	--	--	< 0.010	--	--	--	--	--	--
GAMMA-BHC	-	ug/l	--	--	< 0.010	--	--	--	--	--	--
GAMMA-CHLORDANE	-	ug/l	--	--	< 0.010	--	--	--	--	--	--
HEPTACHLOR	0.001	ug/l	--	--	< 0.010	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	--	< 0.020	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	< 0.010	--	--	--	--	--	--
METHOXYCHLOR	0.04	ug/l	--	--	< 0.020	--	--	--	--	--	--
MIREX	0.001	ug/l	--	--	< 0.020	--	--	--	--	--	--
OXYCHLORDANE	-	ug/l	--	--	< 0.020	--	--	--	--	--	--
TOTAL PCB	-	ug/l	--	--	< 0.050	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	--	< 1.0	--	--	--	< 1.0	--	< 2
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 2
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 1
1,1-DICHLOROETHANE	200	ug/l	< 1.0	--	< 1.0	--	--	--	< 1.0	--	< 1

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 7(e)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 Jul.'93	SW7-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 1
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 1
1,2-DICHLOROETHANE	100	ug/l	< 1.0	--	< 1.0	--	--	--	< 1.0	--	< 2
1,2-DICHLOROPROPANE	-	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 1
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	--	< 1.0	--	--	--	< 1.0	--	< 1
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	--	< 1.0	--	--	--	< 1.0	--	< 1
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	--	--	--	< 10
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 1
BENZENE	100p	ug/l	< 0.5	--	< 0.5	--	--	--	< 0.5	--	< 1
BROMOFORM	-	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 2
BROMOMETHANE	-	ug/l	--	--	< 2.0	--	--	--	< 2.0	--	< 16
CARBON TETRACHLORIDE	-	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 2
CHLOROBENZENE	15	ug/l	< 0.5	--	< 0.5	--	--	--	< 0.5	--	< 1
CHLOROETHANE	-	ug/l	--	--	< 2.0	--	--	--	< 2.0	--	< 10
CHLOROFORM	-	ug/l	--	--	< 1.0	--	--	--	TR	--	< 1
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 1
DICHLOROBROMOMETHANE	-	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 1
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	< 2.0	--	--	--	< 2.0	--	--
ETHYLBENZENE	8p	ug/l	< 0.5	--	< 0.5	--	--	--	--	--	< 1
M&P-XYLENE	-	ug/l	< 0.5	--	1.0	--	--	--	< 0.5	--	< 2
MESITYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 1
METHYL CHLORIDE	-	ug/l	--	--	< 2.0	--	--	--	--	--	< 50
METHYLENE CHLORIDE	-	ug/l	--	--	< 1.0	--	--	--	--	--	< 10
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	--	--	--	< 1
O-XYLENE	40p	ug/l	< 0.5	--	0.5	--	--	--	< 0.5	--	< 1
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	--	--	--	< 1
TETRACHLOROETHYLENE	50	ug/l	< 1.0	--	< 1.0	--	--	--	< 1.0	--	< 1

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 7(f)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 Jul.'93	SW7-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TOLUENE	0.8p	ug/l	< 0.5	--	2.7	--	--	--	< 0.5	--	< 2
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 1
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 1.0
TRICHLOROETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	20	ug/l	--	--	< 1.0	--	--	--	< 1.0	--	< 1
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	< 2.0	--	--	--	< 2.0	--	< 2
VINYL CHLORIDE	-	ug/l	--	--	< 2.0	--	--	--	< 2.0	--	< 12

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 8(a)

COMPOUND (by Class)	MOE Obj.	Units	SW7-87 Aug.'88	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	1600	246	--	8	104	14 (a)	< 1	< 1	2800
FAECAL STREPTOCOCCI	-	/100ml	400	330	--	11	292	34 (a)	500	< 1	290
TOTAL COLIFORMS	-	/100ml	6800	820	--	100	150	16 (a)	< 1	48	13000
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	380	281	--	348	282	324	414	341	412
AMMONIA NITROGEN	0.020	mg/l	< 0.02	< 0.02	--	< 0.03	< 0.03	< 0.03	0.03	0.90	< 0.03
CHLORIDE	-	mg/l	293	266 J	--	117	83.7	118	166	296	93.2
CONDUCTIVITY	-	umhos/cm	20100	1573	--	1060	725	710	2800	670	--
KJELDAHL NITROGEN	-	mg/l	0.77	0.62 J	--	< 0.06	< 0.06	0.20	0.32	1.06	0.90
PH	6.5-8.5		7.45	7.69	--	7.95	7.5	7.98	7.92	8.35	--
PHENOLS	1	ug/l	< 1	< 1	--	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0
SULFATE	-	mg/l	367	400 J	--	176	86.2	115	161	307	80.9
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 0.50	< 0.50	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	< 1.0	< 0.33	< 0.33	--	--	--	--	< 2.0	--
1,1,2-TRICHLOROETHANE	800	ug/l	< 1.0	< 0.21	< 0.21	--	--	--	--	< 2.0	--
1,1-DICHLOROETHANE	200	ug/l	< 1.0	< 0.20	< 0.20	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	40	ug/l	< 1.0	< 0.32	< 0.32	--	--	--	--	< 1.0	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 0.50	< 0.50	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 0.24	< 0.24	--	--	--	--	< 1.0	--
1,2-DICHLOROETHANE	100	ug/l	< 1.0	< 0.82	< 0.82	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 1.0	< 0.20	< 0.20	--	--	--	--	< 1.0	--
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 0.23	< 0.23	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	< 0.22	< 0.22	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	< 0.50	< 0.50	--	--	--	--	< 10	

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 8(b)

COMPOUND (by Class)	MOE Obj.	Units	SW7-87 Aug.'88	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
BENZENE	100p	ug/l	< 0.5	< 0.19	< 0.19	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	-	ug/l	< 1.0	< 0.49	< 0.49	--	--	--	--	< 2.0	--
BROMOMETHANE	-	ug/l	< 2.0	< 0.83	< 0.83	--	--	--	--	< 2.0	--
CARBON TETRACHLORIDE	-	ug/l	< 1.0	< 0.93	< 0.93	--	--	--	--	< 1.0	--
CHLOROBENZENE	15	ug/l	< 0.5	< 0.27	< 0.27	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	< 2.0	< 0.50	< 0.50	--	--	--	--	< 2.0	--
CHLOROFORM	-	ug/l	< 1.0	0.51 U	0.51	--	--	--	--	< 1.0	--
CIS-1,2-DICHLOROETHYLENE	200	ug/l	< 1.0	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	< 0.27	< 0.27	--	--	--	--	< 1.0	--
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	< 0.24	< 0.24	--	--	--	--	< 1.0	--
DICHLOROBROMOMETHANE	-	ug/l	< 1.0	< 0.50	< 0.50	--	--	--	--	< 2.0	--
DICHLORODIFLUOROMETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	< 0.50	< 0.50	--	--	--	--	--	--
ETHYLBENZENE	8p	ug/l	< 0.5	< 0.24	< 0.24	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	0.21 U	0.21 U	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYL CHLORIDE	-	ug/l	< 2.0	< 0.65	< 0.65	--	--	--	--	< 2.0	--
METHYLENE CHLORIDE	-	ug/l	< 1.0	0.92 U	0.92 U	11.0 UJ	--	--	--	< 1.0	--
O-XYLENE	40p	ug/l	< 0.5	< 0.19	< 0.19	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	50	ug/l	< 1.0	< 0.21	< 0.21	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TOLUENE	0.8p	ug/l	< 0.5	< 0.24	< 0.24	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	< 1.0	< 0.20	< 0.20	--	--	--	--	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	< 1.0	< 1.0	--	--	--	--	< 1.0	--
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
TRICHLOROETHYLENE	20	ug/l	< 1.0	< 0.92	< 0.92	--	< 1.0	< 1.0	< 1.0	< 1.0	--
TRICHLOROFLUOROMETHANE	-	ug/l	< 2.0	< 0.26	< 0.26	--	--	--	--	< 2.0	--
VINYL CHLORIDE	-	ug/l	< 2.0	< 0.74	< 0.74	--	--	--	--	< 2.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 9(a)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DINITROPHENOL	-	ug/l	--	< 3.0	--	--	--	--	--	--	--
2-CHLOROPHENOL	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
2-NITROPHENOL	0.5p	ug/l	--	< 5.0	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	< 5.0	--	--	--	--	--	--	--
4-NITROPHENOL	48p	ug/l	--	< 5.0	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
PENTACHLOROPHENOL	0.5	ug/l	--	< 2.0	--	--	--	--	--	--	--
PHENOL	5p	ug/l	--	< 3.0	--	--	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	4p	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,6-DINITROTOLUENE	3p	ug/l	--	< 2.0	--	--	--	--	--	--	--
2-CHLORONAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
9H-FLUORENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ACENAPHTHENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ACENAPHTHYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ANTHRACENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 9(b)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(A)PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	11.0	--	--	--	--	--	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	5.7	--	--	--	--	--	--	--
CHRYSENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIETHYL PHTHALATE	-	ug/l	--	5.7	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	-	ug/l	--	TR	--	--	--	--	--	--	--
FLUORANTHENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
ISOPHORONE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	< 3.0	--	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	< 4.0	--	--	--	--	--	--	--
NAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
NITROBENZENE	0.02p	ug/l	--	< 1.0	--	--	--	--	--	--	--
PHENANTHRENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 9(c)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
METALS											
IRON	0.300	mg/l	0.75	0.02	0.48	< 0.02	--	0.02	0.04	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	12	50	3500	550	< 1	< 1	< 1	34	5000
FAECAL STREPTOCOCCI	-	/100ml	2	280	3600	390	60	30	10	220	1400
TOTAL COLIFORMS	-	/100ml	2900	6300	400000	2100	1300	110	620	370	120000
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	225	358	488	342	283	342	350	336	382
AMMONIA NITROGEN	0.020	mg/l	0.04	0.17	0.06	0.32	0.09	0.01	0.09	< 0.02	< 0.02
CHLORIDE	-	mg/l	--	48	171	39	30	31.8	--	40.0	37.8
CONDUCTIVITY	-	umhos/cm	--	776	1590	374	815	820	1040	730	1094
DOC	-	mg/l	9.5	6.0	5.0	5.0	3.0	5.0	5.5	--	--
HARDNESS	-	mg/l	343	490	1030	486	358	416	538	--	--
KJELDAHL NITROGEN	-	mg/l	0.51	1.04	0.78	0.40	0.61	0.25	0.15	< 0.02	6.29
NITRATE	-	mg/l	0.29	0.25	0.09	< 0.01	0.50	0.01	< 1.0	--	--
NITRITE	-	mg/l	0.008	0.020	0.005	0.004	0.053	0.002	< 0.001	--	--
PH	6.5-8.5		--	8.16	7.10	7.91	6.38	6.26	7.31	7.52	7.34
PHENOLS	1	ug/l	< 2.0	106.0	65.2	< 2.0	< 2.0	< 2.0	16.5	< 1	7
SULFATE	-	mg/l	72	54	137	90	85	85	170	62.7	226
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	< 0.020	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 9(d)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
4,4-DDE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
4,4-DDT	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
ALDRIN	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
BETA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
BETA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
DELTA-BHC	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
DIELDRIN	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
ENDRIN	0.002	ug/l	--	< 0.010	--	--	--	--	--	--	--
GAMMA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
GAMMA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
HEPTACHLOR	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	< 0.020	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 0.010	--	--	--	--	--	--	--
METHOXYCHLOR	0.04	ug/l	--	< 0.020	--	--	--	--	--	--	--
MIREX	0.001	ug/l	--	< 0.020	--	--	--	--	--	--	--
OXYCHLORDANE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
TOTAL PCB	-	ug/l	--	< 0.050	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 2	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 2	< 1.0
1,1,2-TRICHLOROETHANE	800	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
1,1-DICHLOROETHANE	200	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 9(e)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
1,2-DICHLOROETHANE	100	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 2	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	--	--	< 10	--
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	--	--	< 1	--
BENZENE	100p	ug/l	--	< 0.5	--	--	--	< 0.5	--	< 1	< 0.5
BROMOFORM	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 2	< 1.0
BROMOMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	< 16	< 2.0
CARBON TETRACHLORIDE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 2	< 1.0
CHLOROBENZENE	15	ug/l	--	< 0.5	--	--	--	< 0.5	--	< 1	< 0.5
CHLOROETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	< 10	< 2.0
CHLOROFORM	-	ug/l	--	< 1.0	--	--	--	1.0	--	< 1	< 1.0
CIS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	--	--	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
DICHLORODIFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	< 2.0
ETHYLBENZENE	8p	ug/l	--	< 0.5	--	--	--	--	--	< 1	< 0.5
M&P-XYLENE	-	ug/l	--	0.7	--	--	--	< 0.5	--	< 2	< 0.5
MESITYLENE	-	ug/l	--	--	--	--	--	--	--	< 1	--
METHYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	--	--	< 50	< 2.0
METHYLENE CHLORIDE	-	ug/l	--	< 1.0	--	--	--	--	--	< 10	< 1.0
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	--	--	< 1	--
O-XYLENE	40p	ug/l	--	TR	--	--	--	< 0.5	--	< 1	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	--	--	< 1	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 9(f)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TETRACHLOROETHYLENE	50	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
TOLUENE	0.8p	ug/l	--	2.0	--	--	--	< 0.5	--	< 2	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1.0	< 1.0
TRICHLOROETHYLENE	20	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	< 2	< 2.0
VINYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	< 12	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 10(a)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	SW9-87 Mar.'86	May.'86
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,4-DICHLOROPHENOL	0.2	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,4-DIMETHYL PHENOL	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,4-DINITROPHENOL	-	ug/l	--	--	--	--	--	--	--	--	< 3.0
2-CHLOROPHENOL	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
2-NITROPHENOL	0.5p	ug/l	--	--	--	--	--	--	--	--	< 5.0
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	--	--	--	--	--	--	--	< 5.0
4-NITROPHENOL	48p	ug/l	--	--	--	--	--	--	--	--	< 5.0
P-CHLORO-M-CRESOL	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
PENTACHLOROPHENOL	0.5	ug/l	--	--	--	--	--	--	--	--	< 3.0
PHENOL	5p	ug/l	--	--	--	--	--	--	--	--	
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	--	--	--	--	--	< 1.0
2,4-DINITROTOLUENE	4p	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,6-DINITROTOLUENE	3p	ug/l	--	--	--	--	--	--	--	--	< 2.0
2-CHLORONAPHTHALENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
3,3'-DICHLOROBENZIDINE	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
9H-FLUORENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
ACENAPHTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
ACENAPHTHYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
ANTHRACENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 10(b)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	SW9-87 Mar.'86	May.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
BENZO(A)ANTHRACENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(A)PYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(B)FLUORANTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(GHI)PERYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(K)FLUORANTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	14.4
BUTYL BENZYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	5.8
CHRYSENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DI-N-BUTYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	10.2
DI-N-OCTYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DIETHYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	4.1
DIMETHYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
FLUORANTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROBUTADIENE	0.07p	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
ISOPHORONE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	--	--	--	--	--	--	--	< 3.0
N-NITROSODIPHENYLAMINE	-	ug/l	--	--	--	--	--	--	--	--	< 4.0
NAPHTHALENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
NITROBENZENE	0.02p	ug/l	--	--	--	--	--	--	--	--	< 1.0
PHENANTHRENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 10(c)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	SW9-87 Mar.'86	May.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
METALS											
IRON	0.300	mg/l	--	--	--	--	--	--	--	0.25	0.01
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	680	124	56	2 (a)	< 1	< 1	1500	18	330
FAECAL STREPTOCOCCI	-	/100ml	1080	15	152	10 (a)	320	< 1	1300	< 1	260
TOTAL COLIFORMS	-	/100ml	740	152	144	2 (a)	< 1	8	4500	320	2800
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	154	253	190	201	400	233	331	260	358
AMMONIA NITROGEN	0.020	mg/l	< 0.02	< 0.03	< 0.03	< 0.03	0.03	0.08	< 0.03	0.03	0.10
CHLORIDE	-	mg/l	41.0 J	28.5	30.3	43.3	41.4	31.8	24.4	--	12
CONDUCTIVITY	-	umhos/cm	485	566	443	438	1800	420	--	--	782
DOC	-	mg/l	--	--	--	--	--	--	--	4.0	5.0
HARDNESS	-	mg/l	--	--	--	--	--	--	--	435	465
KJELDAHL NITROGEN	-	mg/l	0.44 J	< 0.06	< 0.06	0.14	0.10	0.58	1.20	0.39	0.43
NITRATE	-	mg/l	--	--	--	--	--	--	--	0.30	0.02
NITRITE	-	mg/l	--	--	--	--	--	--	--	0.004	< 0.002
PH	6.5-8.5		7.30	7.75	7.5	7.80	7.52	7.92	--	--	7.81
PHENOLS	1	ug/l	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	24.4	< 2.0
SULFATE	-	mg/l	57.2 J	48	29.9	50.3	66.4	51.9	58.0	138	125
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	--	--	--	--	--	--	--	< 0.020

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 10(d)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	SW9-87 Mar.'86	May.'86
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDE	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDT	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
ALDRIN	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.010
ALPHA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
ALPHA-CHLORDANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
ALPHA-ENDOSULFAN	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
BETA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
BETA-ENDOSULFAN	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
DELTA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
DIELDRIN	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.010
ENDOSULFAN SULFATE	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
ENDRIN	0.002	ug/l	--	--	--	--	--	--	--	--	< 0.010
GAMMA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
GAMMA-CHLORDANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
HEPTACHLOR	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.010
HEPTACHLOR EPOXIDE	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.020
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	--	--	--	--	--	< 0.010
METHOXYCHLOR	0.04	ug/l	--	--	--	--	--	--	--	--	< 0.020
MIREX	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.020
OXYCHLORDANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
TOTAL PCB	-	ug/l	--	--	--	--	--	--	--	--	< 0.050
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 0.50	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	< 0.33	--	--	--	--	< 2.0	--	--	< 1.0
1,1,2-TRICHLOROETHANE	800	ug/l	< 0.21	--	--	--	--	< 2.0	--	--	< 1.0
1,1-DICHLOROETHANE	200	ug/l	< 0.20	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 10(e)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	SW9-87 Mar.'86	May.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	< 0.32	--	--	--	--	< 1.0	--	--	< 1.0
1,2,4-TRICHLOROBENZENE	0.5	ug/l	< 0.50	--	--	--	--	--	--	--	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	< 0.24	--	--	--	--	< 1.0	--	--	< 1.0
1,2-DICHLOROETHANE	100	ug/l	< 0.82	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 0.20	--	--	--	--	< 1.0	--	--	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	< 0.23	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 0.22	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	< 0.50	--	--	--	--	< 10	--	--	--
BENZENE	100p	ug/l	< 0.19	2.6 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5
BROMOFORM	-	ug/l	< 0.49	--	--	--	--	< 2.0	--	--	< 1.0
BROMOMETHANE	-	ug/l	< 0.83	--	--	--	--	< 2.0	--	--	< 2.0
CARBON TETRACHLORIDE	-	ug/l	< 0.93	--	--	--	--	< 1.0	--	--	< 1.0
CHLOROBENZENE	15	ug/l	< 0.27	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5
CHLOROETHANE	-	ug/l	< 0.50	--	--	--	--	< 2.0	--	--	< 2.0
CHLOROFORM	-	ug/l	3.2 U	--	--	--	--	< 1.0	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 0.27	--	--	--	--	< 1.0	--	--	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	< 0.24	--	--	--	--	< 1.0	--	--	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	< 0.50	--	--	--	--	< 2.0	--	--	< 1.0
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DICHLOROFLUOROMETHANE	-	ug/l	< 0.50	--	--	--	--	--	--	--	--
ETHYLBENZENE	8p	ug/l	< 0.24	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5
M&P-XYLENE	-	ug/l	0.21 U	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	0.8
METHYL CHLORIDE	-	ug/l	< 0.65	--	--	--	--	< 2.0	--	--	< 2.0
METHYLENE CHLORIDE	-	ug/l	0.92 U	250 UJ	--	--	--	< 1.0	--	--	< 1.0
O-XYLENE	40p	ug/l	< 0.19	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	TR
TETRACHLOROETHYLENE	50	ug/l	< 0.21	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0
TOLUENE	0.8p	ug/l	0.29	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	1.9
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	< 0.20	--	--	--	--	< 1.0	--	--	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	--	--	< 1.0	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 10(f)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	SW9-87 Mar.'86	May.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
TRICHLOROETHYLENE	20	ug/l	< 0.92	--	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	< 0.26	--	--	--	--	< 2.0	--	--	< 2.0
VINYL CHLORIDE	-	ug/l	< 0.74	--	--	--	--	< 2.0	--	--	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 11(a)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Apr.'91	Apr.'92
METALS											
IRON	0.300	mg/l	0.08	< 0.02	0.02	--	--	--	--	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	490	< 1	< 1	24	282	400	720	52	2 (a)
FAECAL STREPTOCOCCI	-	/100ml	560	< 1	< 1	20	470	1010	120	180	4 (a)
TOTAL COLIFORMS	-	/100ml	2800	280	200	500	580	960	1600	96	2 (a)
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	260	374	427	357	54.1	52.0	328	161	116
AMMONIA NITROGEN	0.020	mg/l	0.10	0.01	0.02	< 0.02	< 0.02	< 0.02	< 0.03	< 0.03	< 0.03
CHLORIDE	-	mg/l	5	8	8.46	8.0	1.0 J	2.0	5.0	9.34	1.68
CONDUCTIVITY	-	umhos/cm	396	900	910	820	222	--	685	363	263
DOC	-	mg/l	4.5	2.0	4.5	--	--	--	--	--	--
HARDNESS	-	mg/l	385	464	509	--	--	--	--	--	--
KJELDAHL NITROGEN	-	mg/l	0.21	0.29	0.2	< 0.02	1.18 J	0.59	< 0.06	< 0.06	< 0.06
NITRATE	-	mg/l	< 0.01	0.29	0.02	--	--	--	--	--	--
NITRITE	-	mg/l	< 0.002	0.001	0.001	--	--	--	--	--	--
PH	6.5-8.5		7.55	6.48	6.53	7.27	7.00	--	7.39	7.5	7.31
PHENOLS	1	ug/l	< 2.0	11.2	3.17	< 1	< 1	< 1	< 1	< 1	< 1
SULFATE	-	mg/l	145	150	141	199	13.0 J	< 1.0	172	58.0	71.8
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	< 1.0	< 2	--	--	--	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	< 1.0	< 2	--	--	--	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	< 1.0	< 1	--	--	--	--	--
1,1-DICHLOROETHANE	200	ug/l	--	--	< 1.0	< 1	--	--	--	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 11(b)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Apr.'91	Apr.'92
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	--	< 1.0	< 1	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	< 1.0	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	< 1.0	< 1	--	--	--	--	--
1,2-DICHLOROETHANE	100	ug/l	--	--	< 1.0	< 2	--	--	--	< 1.0	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	--	< 1.0	< 1	--	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	< 1.0	< 1	--	--	--	< 1.0	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	--	--	< 1.0	< 1	--	--	--	< 1.0	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	< 10	--	--	--	--	--
A-METHYLSTYRENE	-	ug/l	--	--	--	< 1	--	--	--	--	--
BENZENE	100p	ug/l	--	--	< 0.5	< 1	--	--	--	< 0.5	< 0.5
BROMOFORM	-	ug/l	--	--	< 1.0	< 2	--	--	--	--	--
BROMOMETHANE	-	ug/l	--	--	< 2.0	< 16	--	--	--	--	--
CARBON TETRACHLORIDE	-	ug/l	--	--	< 1.0	< 2	--	--	--	--	--
CHLOROBENZENE	15	ug/l	--	--	< 0.5	< 1	--	--	--	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	--	--	< 2.0	< 10	--	--	--	--	--
CHLOROFORM	-	ug/l	--	--	< 1.0	< 1	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	--	< 1.0	< 1	--	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	< 1.0	< 1	--	--	--	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
ETHYLBENZENE	8p	ug/l	--	--	--	< 1	--	--	--	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	--	--	< 0.5	< 2	--	--	--	< 0.5	< 0.5
MESITYLENE	-	ug/l	--	--	--	< 1	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	--	--	--	< 50	--	--	--	--	--
METHYLENE CHLORIDE	-	ug/l	--	--	1.5	< 10	--	--	70 UJ	--	--
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	< 1	--	--	--	--	--
O-XYLENE	40p	ug/l	--	--	< 0.5	< 1	--	--	--	< 0.5	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	< 1	--	--	--	--	--
TETRACHLOROETHYLENE	50	ug/l	--	--	< 1.0	< 1	--	--	--	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 11(c)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Apr.'91	Apr.'92
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TOLUENE	0.8p	ug/l	--	--	< 0.5	2.9	--	--	--	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	< 1.0	< 1	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	ND	--	--	--	--	--
TRICHLOROETHYLENE	20	ug/l	--	--	< 1.0	< 1	--	--	--	< 1.0	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	< 2.0	< 2	--	--	--	--	--
VINYL CHLORIDE	-	ug/l	--	--	< 2.0	< 12	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 12(a)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Apr.'93	SW9A-93 Apr.'93	SW10-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'87 (Dupl)
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	--	--	< 2.0	--	--	--	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	--	--	< 2.0	--	--	--	--	--
2,4-DIMETHYL PHENOL	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
2,4-DINITROPHENOL	-	ug/l	--	--	--	< 3.0	--	--	--	--	--
2-CHLOROPHENOL	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
2-NITROPHENOL	0.5p	ug/l	--	--	--	< 5.0	--	--	--	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	--	--	< 5.0	--	--	--	--	--
4-NITROPHENOL	48p	ug/l	--	--	--	< 5.0	--	--	--	--	--
P-CHLORO-M-CRESOL	-	ug/l	--	--	--	< 5.0	--	--	--	--	--
PENTACHLOROPHENOL	0.5	ug/l	--	--	--	< 2.0	--	--	--	--	--
PHENOL	5p	ug/l	--	--	--	< 3.0	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	< 1.0	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	--	--	< 5.0	--	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	--	--	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	< 1.0	--	--	--	--	--
2,4-DINITROTOLUENE	4p	ug/l	--	--	--	< 2.0	--	--	--	--	--
2,6-DINITROTOLUENE	3p	ug/l	--	--	--	< 2.0	--	--	--	--	--
2-CHLORONAPHTHALENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	--	--	< 5.0	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
9H-FLUORENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
ACENAPHTHENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
ACENAPHTHYLENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
ANTHRACENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 12(b)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Apr.'93	SW9A-93 Apr.'93	SW10-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'87 (Dupl)
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	--	--	< 5.0	--	--	--	--	--
BENZO(A)ANTHRACENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BENZO(A)PYRENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BENZO(B)FLUORANTHENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BENZO(GHI)PERYLENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BENZO(K)FLUORANTHENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	--	--	8.6	--	--	--	--	--
CHRYSENE	-	ug/l	--	--	--	6.2	--	--	--	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
DIETHYL PHTHALATE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
DIMETHYL PHTHALATE	-	ug/l	--	--	--	4.6	--	--	--	--	--
FLUORANTHENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	< 1.0	--	--	--	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	--	--	< 1.0	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
HEXACHLOROETHANE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
ISOPHORONE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	--	--	< 3.0	--	--	--	--	--
NAPHTHALENE	-	ug/l	--	--	--	< 4.0	--	--	--	--	--
NITROBENZENE	0.02p	ug/l	--	--	--	< 1.0	--	--	--	--	--
PHENANTHRENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 12(c)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Apr.'93	SW9A-93 Apr.'93	SW10-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'87 (Dupl)
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
METALS											
IRON	0.300	mg/l	--	--	0.30	0.01	1.36	< 0.02	< 0.02	0.02	0.02
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/50ml	< 1	< 1	16	2000	2500	270	< 1	10	< 1
FAECAL STREPTOCOCCI	-	/50ml	< 1	< 1	2	150	1300	1300	< 1	40	50
TOTAL COLIFORMS	-	/50ml	24	38	430	4000	600000	4300	250	180	200
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	258	239	245	298	259	331	318	317	327
AMMONIA NITROGEN	0.020	mg/l	< 0.03	< 0.03	0.03	0.10	0.05	1.20	0.01	< 0.01	< 0.01
CHLORIDE	-	mg/l	5.02	6.81	--	42	107	42	30	46.7	47.7
CONDUCTIVITY	-	umhos/cm	460	360	--	693	971	495	715	700	700
DOC	-	mg/l	--	--	3.5	5.0	5.0	6.5	2.5	4.0	3.0
HARDNESS	-	mg/l	--	--	370	437	262	500	416	399	401
KJELDAHL NITROGEN	-	mg/l	0.16	0.96	0.25	0.44	0.39	0.49	0.27	0.17	0.16
NITRATE	-	mg/l	--	--	0.12	0.04	0.16	< 0.01	0.05	0.02	0.05
NITRITE	-	mg/l	--	--	0.004	0.002	0.003	< 0.002	0.004	< 0.001	< 0.001
PH	6.5-8.5		7.99	8.29	--	8.39	7.89	8.18	7.82	7.80	7.80
PHENOLS	1	ug/l	< 1.0	< 1.0	36.8	190.0	12.9	< 2.0	5.04	3.77	< 2.0
SULFATE	-	mg/l	95.1	59.1	100	88	195	58	115	94	93
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	--	--	< 0.020	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 12(d)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Apr.'93	SW9A-93 Apr.'93	SW10-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'87 (Dupl)
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
4,4-DDE	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
4,4-DDT	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
ALDRIN	0.001	ug/l	--	--	--	< 0.010	--	--	--	--	--
ALPHA-BHC	-	ug/l	--	--	--	< 0.010	--	--	--	--	--
ALPHA-CHLORDANE	-	ug/l	--	--	--	< 0.010	--	--	--	--	--
ALPHA-ENDOSULFAN	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
BETA-BHC	-	ug/l	--	--	--	< 0.010	--	--	--	--	--
BETA-ENDOSULFAN	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
DELTA-BHC	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
DIELDRIN	0.001	ug/l	--	--	--	< 0.010	--	--	--	--	--
ENDOSULFAN SULFATE	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
ENDRIN	0.002	ug/l	--	--	--	< 0.010	--	--	--	--	--
GAMMA-BHC	-	ug/l	--	--	--	< 0.010	--	--	--	--	--
GAMMA-CHLORDANE	-	ug/l	--	--	--	< 0.010	--	--	--	--	--
HEPTACHLOR	0.001	ug/l	--	--	--	< 0.010	--	--	--	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	--	--	< 0.020	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	< 0.010	--	--	--	--	--
METHOXYCHLOR	0.04	ug/l	--	--	--	< 0.020	--	--	--	--	--
MIREX	0.001	ug/l	--	--	--	< 0.020	--	--	--	--	--
OXYCHLORDANE	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
TOTAL PCB	-	ug/l	--	--	--	< 0.050	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	< 2.0	< 2.0	--	< 1.0	--	--	--	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	800	ug/l	< 2.0	< 2.0	--	< 1.0	--	--	--	< 1.0	< 1.0
1,1-DICHLOROETHANE	200	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 12(e)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Apr.'93	SW9A-93 Apr.'93	SW10-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'87 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
1,2-DICHLOROETHANE	100	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	TR	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	< 10	< 10	--	--	--	--	--	--	--
BENZENE	100p	ug/l	< 0.5	< 0.5	--	< 0.5	--	--	--	< 0.5	< 0.5
BROMOFORM	-	ug/l	< 2.0	< 2.0	--	< 1.0	--	--	--	< 1.0	< 1.0
BROMOMETHANE	-	ug/l	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	< 2.0
CARBON TETRACHLORIDE	-	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
CHLOROBENZENE	15	ug/l	< 0.5	< 0.5	--	< 0.5	--	--	--	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	< 2.0
CHLOROFORM	-	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	1.1	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	< 2.0	< 2.0	--	< 1.0	--	--	--	< 1.0	< 1.0
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	< 2.0
ETHYLBENZENE	8p	ug/l	< 0.5	< 0.5	--	< 0.5	--	--	--	--	--
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	--	0.8	--	--	--	< 0.5	0.5
METHYL CHLORIDE	-	ug/l	< 2.0	< 2.0	--	< 2.0	--	--	--	--	--
METHYLENE CHLORIDE	-	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	--	TR
O-XYLENE	40p	ug/l	< 0.5	< 0.5	--	TR	--	--	--	< 0.5	< 0.5
TETRACHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	TR	< 1.0
TOLUENE	0.8p	ug/l	< 0.5	< 0.5	--	1.4	--	--	--	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
TRICHLOROETHYLENE	20	ug/l	< 1.0	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 12(f)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Apr.'93	SW9A-93 Apr.'93	SW10-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'87 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRICHLOROFLUOROMETHANE	-	ug/l	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	< 2.0
VINYL CHLORIDE	-	ug/l	< 2.0	< 2.0	--	< 2.0	--	--	--	< 2.0	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 13(a)

COMPOUND (by Class)	MOE Obj.	Units	SW10-87 Aug.'87	Aug.'87 (Dupl)	Nov.'87	May.'88	Aug.'88	Aug.'88 (Dupl)	Nov.'89	Apr.'90	Apr.'91
METALS											
IRON	0.300	mg/l	0.06	0.06	0.06	--	--	--	--	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	3100	1800	< 1	420	160	1700	840	146	100
FAECAL STREPTOCOCCI	-	/100ml	2300	2300	110	58	380	440	1140	70	136
TOTAL COLIFORMS	-	/100ml	18000	14000	290	20	8300	6100	900	264	210
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	--	--	350	322	263	263	154	277	226
AMMONIA NITROGEN	0.020	mg/l	0.15	0.09	0.14	1.26	< 0.02	< 0.02	< 0.02	< 0.03	< 0.03
CHLORIDE	-	mg/l	--	--	--	50.0	131	126	30.0 J	31.5	43.6
CONDUCTIVITY	-	umhos/cm	1065	1065	1400	780	1110	1110	521	684	544
DOC	-	mg/l	3.5	4.0	6.0	--	--	--	--	--	--
HARDNESS	-	mg/l	--	--	732	--	--	--	--	--	--
KJELDAHL NITROGEN	-	mg/l	0.22	0.12	0.22	< 0.02	< 0.02	< 0.02	0.50 J	< 0.06	0.09
NITRATE	-	mg/l	--	--	< 1.0	--	--	--	--	--	--
NITRITE	-	mg/l	--	--	< 0.001	--	--	--	--	--	--
PH	6.5-8.5		6.90	6.90	7.96	7.99	7.68	7.68	7.70	8.06	7.5
PHENOLS	1	ug/l	--	--	4.1	< 1	37	< 1	< 1	< 1	< 1
SULFATE	-	mg/l	--	--	250	130	180	202	107 J	149	68.0
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	< 2	< 1.0	< 1.0	--	--	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	< 2	< 1.0	< 1.0	--	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	--
1,1-DICHLOROETHANE	200	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 13(b)

COMPOUND (by Class)	MOE Obj.	Units	SW10-87 Aug.'87	Aug.'87 (Dupl)	Nov.'87	May.'88	Aug.'88	Aug.'88 (Dupl)	Nov.'89	Apr.'90	Apr.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	--
1,2-DICHLOROETHANE	100	ug/l	--	--	--	< 2	< 1.0	< 1.0	--	--	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	< 10	--	--	--	--	--
A-METHYLSTYRENE	-	ug/l	--	--	--	< 1	--	--	--	--	--
BENZENE	100p	ug/l	--	--	--	< 1	< 0.5	< 0.5	--	--	< 0.5
BROMOFORM	-	ug/l	--	--	--	< 2	< 1.0	< 1.0	--	--	--
BROMOMETHANE	-	ug/l	--	--	--	< 16	< 2.0	< 2.0	--	--	--
CARBON TETRACHLORIDE	-	ug/l	--	--	--	< 2	< 1.0	< 1.0	--	--	--
CHLOROBENZENE	15	ug/l	--	--	--	< 1	< 0.5	< 0.5	--	--	< 0.5
CHLOROETHANE	-	ug/l	--	--	--	< 10	< 2.0	< 2.0	--	--	--
CHLOROFORM	-	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	--
CIS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	< 1.0	< 1.0	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	< 1.0	< 1.0	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	< 2.0	< 2.0	--	--	--
ETHYLBENZENE	8p	ug/l	--	--	--	< 1	< 0.5	< 0.5	--	--	< 0.5
M&P-XYLENE	-	ug/l	--	--	--	< 2	< 0.5	< 0.5	--	--	< 0.5
MESITYLENE	-	ug/l	--	--	--	< 1	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	--	--	--	< 50	< 2.0	< 2.0	--	--	--
METHYLENE CHLORIDE	-	ug/l	--	--	--	10	< 1.0	< 1.0	--	4.9 UJ	--
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	< 1	--	--	--	--	--
O-XYLENE	40p	ug/l	--	--	--	< 1	< 0.5	< 0.5	--	--	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	< 1	--	--	--	--	--
TETRACHLOROETHYLENE	50	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 13(c)

COMPOUND (by Class)	MOE Obj.	Units	SW10-87 Aug.'87	Aug.'87 (Dupl)	Nov.'87	May.'88	Aug.'88	Aug.'88 (Dupl)	Nov.'89	Apr.'90	Apr.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TOLUENE	0.8p	ug/l	--	--	--	< 2	< 0.5	< 0.5	--	--	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	< 1.0	< 1.0	--	--	--
TRICHLOROETHYLENE	20	ug/l	--	--	--	< 1	< 1.0	< 1.0	--	--	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	< 2	< 2.0	< 2.0	--	--	--
VINYL CHLORIDE	-	ug/l	--	--	--	< 12	< 2.0	< 2.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 14(a)

COMPOUND (by Class)	MOE Obj.	Units	SW10-87 Apr.'92	Jul.'92	Apr.'93	Jul.'93	Jul.'93 (Dupl)	SW11-87 Nov.'89	Apr.'90	Apr.'91	Apr.'91 (Dupl)
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/50ml	12 (a)	< 1	< 1	< 2	5	720	< 4	400 J	260 J
FAECAL STREPTOCOCCI	-	/50ml	9 (a)	200	< 1	290	240	910	6	124 J	328 J
TOTAL COLIFORMS	-	/50ml	15 (a)	240	20	640	350	1280	108	600 J	360 J
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	210	294	245	282	282	74.9	141	129	130
AMMONIA NITROGEN	0.020	mg/l	< 0.03	0.03	< 0.03	< 0.03	< 0.03	< 0.02	< 0.03	< 0.03	< 0.03
CHLORIDE	-	mg/l	29.3	51.6	19.1	62.5	63.0	10.0 J	39.0	53.3 J	11.2 J
CONDUCTIVITY	-	umhos/cm	475	1680	425	--	--	380	517	353	--
KJELDAHL NITROGEN	-	mg/l	0.24	0.26	0.49	0.52	0.48	0.45 J	0.06	< 0.06	< 0.06
PH	6.5-8.5		8.04	7.95	8.24	--	--	6.95	7.30	7.5	--
PHENOLS	1	ug/l	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1
SULFATE	-	mg/l	102	160	67.2	108	108	115 J	116	62.4	63.0
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.50	--	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	< 2.0	--	--	< 0.33	--	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	< 2.0	--	--	< 0.21	--	--	--
1,1-DICHLOROETHANE	200	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.20	--	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	40	ug/l	--	--	< 1.0	--	--	< 0.32	--	--	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	< 0.50	--	--	--
1,2-DIBROMOETHANE	-	ug/l	--	--	--	--	--	< 0.18	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	< 1.0	--	--	< 0.24	--	--	--
1,2-DICHLOROETHANE	100	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.82	--	< 1.0	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	--	< 1.0	--	--	< 0.20	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.23	--	< 1.0	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.22	--	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 14(b)

COMPOUND (by Class)	MOE Obj.	Units	SW10-87 Apr.'92	Jul.'92	Apr.'93	Jul.'93	Jul.'93 (Dupl)	SW11-87 Nov.'89	Apr.'90	Apr.'91	Apr.'91 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	< 10	--	--	--	--	--	--
BENZENE	100p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.19 U	--	< 0.5	< 0.5
BROMOFORM	-	ug/l	--	--	< 2.0	--	--	< 0.49	--	--	--
BROMOMETHANE	-	ug/l	--	--	< 2.0	--	--	< 0.83	--	--	--
CARBON TETRACHLORIDE	-	ug/l	--	--	< 1.0	--	--	< 0.93	--	--	--
CHLOROBENZENE	15	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.27	--	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	--	--	< 2.0	--	--	< 0.50	--	--	--
CHLOROFORM	-	ug/l	--	--	< 1.0	--	--	0.51 U	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	--	--	< 0.27	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	--	< 1.0	--	--	< 0.24	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	< 2.0	--	--	< 0.50	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	< 0.50	--	--	--
ETHYLBENZENE	8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.24	--	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.21 U	--	< 0.5	< 0.5
METHYL CHLORIDE	-	ug/l	--	--	< 2.0	--	--	0.65 U	--	--	--
METHYLENE CHLORIDE	-	ug/l	--	--	< 1.0	--	--	7.1 U	7.3 UJ	--	--
O-XYLENE	40p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.19	--	< 0.5	< 0.5
TETRACHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.21 U	--	< 1.0	--
TOLUENE	0.8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.24 U	--	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	< 1.0	--	--	< 0.20	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	--	--	--	--	--	--
TRICHLOROETHANE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
TRICHLOROETHYLENE	20	ug/l	< 1.0	< 1.0	< 1.0	--	--	< 0.92	--	< 1.0	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	< 2.0	--	--	0.26 U	--	--	--
VINYL CHLORIDE	-	ug/l	--	--	< 2.0	--	--	< 0.74	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 15(a)

COMPOUND (by Class)	MOE Obj.	Units	SW11-87 Apr.'92	Apr.'92 (Dupl)	Apr.'93	SW12-87 Mar.'87	May.'87	May.'88	Aug.'88	Nov.'89	Apr.'90
METALS											
IRON	0.300	mg/l	--	--	--	< 0.02	0.06	--	--	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/50ml	2 (a)	< 1 (a)	< 1	< 1	< 1	110	750	1520	120 J
FAECAL STREPTOCOCCI	-	/50ml	9 (a)	14 (a)	22	< 1	< 1	170	390	1600	83
TOTAL COLIFORMS	-	/50ml	3 (a)	< 1 (a)	50	6800	600	7100	3400	1460	200
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	124	131	156	328	719	336	115	125	257
AMMONIA NITROGEN	0.020	mg/l	< 0.03	0.04	< 0.03	0.06	0.95	< 0.02	< 0.02	< 0.02	0.04
CHLORIDE	-	mg/l	20.4	26.4	59.2	46	217	40.0	39.9	17.0 J	12.0
CONDUCTIVITY	-	umhos/cm	305	305	380	915	925	780	1265	562	550
DOC	-	mg/l	--	--	--	5.0	8.5	--	--	--	--
HARDNESS	-	mg/l	--	--	--	425	897	--	--	--	--
KJELDAHL NITROGEN	-	mg/l	< 0.06	0.07	0.33	0.42	1.48	< 0.02	< 0.02	0.50 J	0.07
NITRATE	-	mg/l	--	--	--	0.01	0.56	--	--	--	--
NITRITE	-	mg/l	--	--	--	0.012	0.030	--	--	--	--
PH	6.5-8.5		7.28	7.28	7.40	6.20	6.28	7.65	7.55	7.65	8.05
PHENOLS	1	ug/l	< 1	< 1	< 1.0	8.29	< 2.0	< 1	< 1	< 1	< 1
SULFATE	-	mg/l	80.9	82.7	46.4	110	138	220	518	158 J	97
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	--	< 1.0	< 2	< 1.0	< 0.50	--
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	< 2.0	--	< 1.0	< 2	< 1.0	< 0.33	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	< 2.0	--	< 1.0	< 1	< 1.0	< 0.21	--
1,1-DICHLOROETHANE	200	ug/l	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1	< 1.0	< 0.20	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 15(b)

COMPOUND (by Class)	MOE Obj.	Units	SW11-87 Apr.'92	Apr.'92 (Dupl)	Apr.'93	SW12-87 Mar.'87	May.'87	May.'88	Aug.'88	Nov.'89	Apr.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	--	< 1.0	--	< 1.0	< 1	< 1.0	< 0.32	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	< 1.0	--	--	< 0.50	--
1,2-DIBROMOETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.18	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	< 1.0	--	< 1.0	< 1	< 1.0	< 0.24	--
1,2-DICHLOROETHANE	100	ug/l	< 1.0	< 1.0	< 1.0	--	< 1.0	< 2	< 1.0	< 0.82	--
1,2-DICHLOROPROPANE	-	ug/l	--	--	< 1.0	--	< 1.0	< 1	< 1.0	< 0.20	--
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1	< 1.0	< 0.23	--
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1	< 1.0	< 0.22	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	< 10	--	--	< 10	--	--	--
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	< 1	--	--	--
BENZENE	100p	ug/l	< 0.5	< 0.5	< 0.5	--	TR	< 1	< 0.5	0.19 U	--
BROMOFORM	-	ug/l	--	--	< 2.0	--	< 1.0	< 2	< 1.0	< 0.49	--
BROMOMETHANE	-	ug/l	--	--	< 2.0	--	< 2.0	< 16	< 2.0	< 0.83	0.83 J
CARBON TETRACHLORIDE	-	ug/l	--	--	< 1.0	--	< 1.0	< 2	< 1.0	< 0.93	--
CHLOROBENZENE	15	ug/l	< 0.5	< 0.5	< 0.5	--	1.3	< 1	< 0.5	< 0.27	--
CHLOROETHANE	-	ug/l	--	--	< 2.0	--	< 2.0	< 10	< 2.0	< 0.50	--
CHLOROFORM	-	ug/l	--	--	< 1.0	--	< 1.0	< 1	< 1.0	1.10 U	--
CIS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	--	--	< 1.0	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	--	< 1.0	< 1.0	< 1.0	< 0.27	--
DIBROMOCHLOROMETHANE	-	ug/l	--	--	< 1.0	--	< 1.0	< 1	< 1.0	< 0.24	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	< 2.0	--	< 1.0	< 1	< 1.0	< 0.50	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	< 2.0	--	< 2.0	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.50	--
ETHYLBENZENE	8p	ug/l	< 0.5	< 0.5	< 0.5	--	--	< 1	< 0.5	< 0.24	--
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	< 0.5	--	TR	< 2	< 0.5	0.21 U	--
MESITYLENE	-	ug/l	--	--	--	--	--	< 1	--	--	--
METHYL CHLORIDE	-	ug/l	--	--	< 2.0	--	--	< 50	< 2.0	0.65 U	--
METHYLENE CHLORIDE	-	ug/l	--	--	< 1.0	--	--	10	< 1.0	26 U	52 UJ
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	< 1	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 15(c)

COMPOUND (by Class)	MOE Obj.	Units	SW11-87 Apr.'92	Apr.'92 (Dupl)	Apr.'93	SW12-87 Mar.'87	May.'87	May.'88	Aug.'88	Nov.'89	Apr.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)											
O-XYLENE	40p	ug/l	< 0.5	< 0.5	< 0.5	--	< 0.5	< 1	< 0.5	< 0.19	--
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	< 1	--	--	--
TETRACHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	< 1.0	--	TR	< 1	< 1.0	0.21 U	--
TOLUENE	0.8p	ug/l	< 0.5	< 0.5	< 0.5	--	< 0.5	< 2	< 0.5	0.29 U	--
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	< 1.0	--	< 1.0	< 1	< 1.0	< 0.20	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	--
TRICHLOROETHYLENE	20	ug/l	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1	< 1.0	< 0.92	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	< 2.0	--	< 2.0	< 2	< 2.0	0.26 U	--
VINYL CHLORIDE	-	ug/l	--	--	< 2.0	--	< 2.0	< 12	< 2.0	< 0.74	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 16(a)

COMPOUND (by Class)	MOE Obj.	Units	SW12-87 Apr.'90 (Dupl)	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	SW13-88 May.'88	Aug.'88	Nov.'89
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	24 J	46	2 (a)	8	< 1	82	142	2100	520
FAECAL STREPTOCOCCI	-	/100ml	72	72	8 (a)	250	< 1	190	120	3400	960
TOTAL COLIFORMS	-	/100ml	140	124	11 (a)	250	2	550	900	24000	960
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	267	214	221	363	224	345	332	254	175
AMMONIA NITROGEN	0.020	mg/l	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.02	0.26	< 0.02
CHLORIDE	-	mg/l	9.0	47.6	8.81	18.4	7.09	19.9	130	353	64.0 J
CONDUCTIVITY	-	umhos/cm	550	416	372	1400	315	--	1080	1723	646
KJELDAHL NITROGEN	-	mg/l	0.09	< 0.06	< 0.06	0.06	0.28	0.67	0.19	0.87	0.55 J
PH	6.5-8.5		8.05	8.0	7.74	8.08	8.49	--	7.39	8.10	7.57
PHENOLS	1	ug/l	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1
SULFATE	-	mg/l	104	222	55.1	49.2	35.5	24.9	202	164	105 J
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2	< 1.0	< 0.50
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	--	< 2.0	--	< 2	< 1.0	< 0.33
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	--	< 2.0	--	< 1	< 1.0	< 0.21
1,1-DICHLOROETHANE	200	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 0.20
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	--	< 1.0	--	< 1	< 1.0	< 0.32
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	--	--	--	< 0.50
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	< 1.0	--	< 1	< 1.0	< 0.24
1,2-DICHLOROETHANE	100	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2	< 1.0	< 0.82
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	< 1.0	--	< 1	< 1.0	< 0.20
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 0.23
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 0.22
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	< 10	--	< 10	--	< 0.50

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 16(b)

COMPOUND (by Class)	MOE Obj.	Units	SW12-87 Apr.'90 (Dupl)	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	SW13-88 May.'88	Aug.'88	Nov.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)											
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	--	< 1	--	--
BENZENE	100p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.19
BROMOFORM	-	ug/l	--	--	--	--	< 2.0	--	< 2	< 1.0	< 0.49
BROMOMETHANE	-	ug/l	17.0 J	--	--	--	< 2.0	--	< 16	< 2.0	< 0.83
CARBON TETRACHLORIDE	-	ug/l	--	--	--	--	< 1.0	--	< 2	< 1.0	< 0.93
CHLOROBENZENE	15	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.27
CHLOROETHANE	-	ug/l	--	--	--	--	< 2.0	--	< 10	< 2.0	< 0.50
CHLOROFORM	-	ug/l	--	--	--	--	< 1.0	--	< 1	< 1.0	0.51 U
CIS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	--	--	--	< 1.0	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	< 1.0	< 0.27
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	< 1.0	--	< 1	< 1.0	< 0.24
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	< 2.0	--	< 1	< 1.0	< 0.50
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.50
ETHYLBENZENE	8p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.24
M&P-XYLENE	-	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5	0.21 U
MESITYLENE	-	ug/l	--	--	--	--	--	--	< 1	--	--
METHYL CHLORIDE	-	ug/l	--	--	--	--	< 2.0	--	< 50	< 2.0	< 0.65
METHYLENE CHLORIDE	-	ug/l	110 UJ	--	--	--	< 1.0	--	< 10	< 10	1.18 U
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	--	< 1	--	--
O-XYLENE	40p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.19
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	--	< 1	--	--
TETRACHLOROETHYLENE	50	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1.0	< 0.21
TOLUENE	0.8p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.24
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	< 1.0	--	< 1	< 1.0	< 0.20
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	< 1.0	< 1.0
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
TRICHLOROETHYLENE	20	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1	< 1.0	< 0.92
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	< 2.0	--	< 2	< 2.0	< 0.26

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 16(c)

COMPOUND (by Class)	MOE Obj.	Units	SW12-87 Apr.'90 (Dupl)	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	SW13-88 May.'88	Aug.'88	Nov.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)											
VINYL CHLORIDE	-	ug/l	--	--	--	--	< 2.0	--	< 12	< 2.0	< 0.74

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 17(a)

COMPOUND (by Class)	MOE Obj.	Units	SW13-88 Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Apr.'93 (Dupl)	Jul.'93	SW13-93 Apr.'93	SW14-93 Apr.'93
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	168	80	2 (a)	< 1	< 1	< 1	520	--	< 1
FAECAL STREPTOCOCCI	-	/100ml	62	224	25 (a)	400	< 1	2	360	--	< 1
TOTAL COLIFORMS	-	/100ml	260	170	7 (a)	2	8	12	11000	--	< 1
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	287	227	220	334	265	--	297	268	370
AMMONIA NITROGEN	0.020	mg/l	< 0.03	< 0.03	< 0.03	< 0.03	0.18	--	< 0.03	0.07	2.57
CHLORIDE	-	mg/l	82.0	75.2	61.4	170	56.5	--	176	22.4	95.4
CONDUCTIVITY	-	umhos/cm	870	596	538	3050	560	--	--	440	700
KJELDAHL NITROGEN	-	mg/l	< 0.06	< 0.06	0.24	0.25	0.32	--	1.31	0.57	2.80
PH	6.5-8.5		8.11	7.5	7.92	8.26	8.40	--	--	8.37	7.85
PHENOLS	1	ug/l	1	< 1	< 1	< 1.0	< 1.0	--	< 1.0	< 1.0	< 1.0
SULFATE	-	mg/l	172	67.7	85.8	151	86.2	--	144	58.9	86.7
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	--	< 2.0	--	--	< 2.0	< 2.0
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	--	< 2.0	--	--	< 2.0	< 2.0
1,1-DICHLOROETHANE	200	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	--	< 1.0	--	--	< 1.0	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	< 1.0	--	--	< 1.0	< 1.0
1,2-DICHLOROETHANE	100	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	< 1.0	--	--	< 1.0	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	< 10	--	--	< 10	< 10
BENZENE	100p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 17(b)

COMPOUND (by Class)	MOE Obj.	Units	SW13-88 Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Apr.'93 (Dupl)	Jul.'93	SW13-93 Apr.'93	SW14-93 Apr.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
BROMOFORM	-	ug/l	--	--	--	--	< 2.0	--	--	< 2.0	< 2.0
BROMOMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	< 2.0	< 2.0
CARBON TETRACHLORIDE	-	ug/l	--	--	--	--	< 1.0	--	--	< 1.0	< 1.0
CHLOROBENZENE	15	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	< 2.0	< 2.0
CHLOROFORM	-	ug/l	--	--	--	--	< 1.0	--	--	< 1.0	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	--	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	< 1.0	--	--	< 1.0	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	< 2.0	< 2.0
ETHYLBENZENE	8p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
METHYL CHLORIDE	-	ug/l	--	--	--	--	< 2.0	--	--	< 2.0	< 2.0
METHYLENE CHLORIDE	-	ug/l	1.02 UJ	--	--	--	< 1.0	--	--	< 1.0	< 1.0
O-XYLENE	40p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	50	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1.0	< 1.0
TOLUENE	0.8p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	< 1.0	--	--	< 1.0	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	--	< 1.0	< 1.0
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
TRICHLOROETHYLENE	20	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	< 2.0	< 2.0
VINYL CHLORIDE	-	ug/l	--	--	--	--	< 2.0	--	--	< 2.0	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 18(a)

COMPOUND (by Class)	MOE Obj.	Units	SW15-93 Apr.'93
BIOLOGICAL TESTING			
FAECAL COLIFORM	-	/50ml	< 1
FAECAL STREPTOCOCCI	-	/50ml	< 1
TOTAL COLIFORMS	-	/50ml	2
GENERAL CHEMISTRY			
ALKALINITY	-	mg/l	194
AMMONIA NITROGEN	0.020	mg/l	< 0.03
CHLORIDE	-	mg/l	18.7
CONDUCTIVITY	-	umhos/cm	400
KJELDAHL NITROGEN	-	mg/l	1.68
PH	6.5-8.5		7.88
PHENOLS	1	ug/l	< 1.0
SULFATE	-	mg/l	39.5
VOLATILE ORGANIC COMPOUNDS			
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	< 2.0
1,1,2-TRICHLOROETHANE	800	ug/l	< 2.0
1,1-DICHLOROETHANE	200	ug/l	< 1.0
1,1-DICHLOROETHYLENE	40	ug/l	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	< 1.0
1,2-DICHLOROETHANE	100	ug/l	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	< 10
BENZENE	100p	ug/l	< 0.5

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 18(b)

COMPOUND (by Class)	MOE Obj.	Units	SW15-93 Apr.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)			
BROMOFORM	-	ug/l	< 2.0
BROMOMETHANE	-	ug/l	< 2.0
CARBON TETRACHLORIDE	-	ug/l	< 1.0
CHLOROBENZENE	15	ug/l	< 0.5
CHLOROETHANE	-	ug/l	< 2.0
CHLOROFORM	-	ug/l	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	< 2.0
ETHYLBENZENE	8p	ug/l	< 0.5
M&P-XYLENE	-	ug/l	< 0.5
METHYL CHLORIDE	-	ug/l	< 2.0
METHYLENE CHLORIDE	-	ug/l	< 1.0
O-XYLENE	40p	ug/l	< 0.5
TETRACHLOROETHYLENE	50	ug/l	< 1.0
TOLUENE	0.8p	ug/l	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0
TRICHLOROETHYLENE	20	ug/l	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	< 2.0
VINYL CHLORIDE	-	ug/l	< 2.0

000360

LEGEND (MOE Obj.: Ontario Surface Water or Groundwater Objectives, revised July 1993)

J - The associated value is an estimated quantity.
U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ - The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.
-- - The parameter was not analyzed.
ND - The material was analyzed, but not detected above an unstated method detection limit.
TR - Trace level detection.
< - Indicates result less than that shown.
> - Indicates result greater than that shown.
R - The data was not useable.
NS - Insufficient sample.
p - Proposed MOE Surface Water Objective.
* - for PH >6.5 to 9.0
*** - a) Cadmium-0.15 ug/l (if hardness 0-100)
0.45 ug/l (if hardness >100)
b) Copper-1 ug/l (if hardness 0-20)
5 ug/l (if hardness >20)
c) Lead-1 ug/l (if hardness 0-30)
3 ug/l (if hardness 30-80)
5 ug/l (if hardness >80)
d) Beryllium- 11 ug/l (if hardness <75)
1100 ug/l (if hardness >75)
(a) - Indicates units were /50ml rather than that shown.
- for pH of 6.5 to 9.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 1(a)

COMPOUND (by Class)	MOE Obj.	Units	HC1-1 Jun.'87	Aug.'87	Aug.'87 (Dupl)	HC2-1 Jun.'87	Jun.'87 (Dupl)	Aug.'87	HC4-1 May.'88	Aug.'88	Nov.'89
BIOLOGICAL TESTING											
FAECAL COLIFORM	0/100ml	/100ml	--	--	--	--	--	--	< 1	< 1	--
FAECAL STREPTOCOCCI	0/100ml	/100ml	--	--	--	--	--	--	< 1	< 1	--
TOTAL COLIFORMS	5/100ml	/100ml	--	--	--	--	--	--	< 1	< 1	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	--	--	--	--	--	--	82	79	297
AMMONIA NITROGEN	-	mg/l	0.21	0.32	0.21	0.77	0.76	0.87	< 0.02	9.28	< 0.03
CHLORIDE	250	mg/l	--	--	--	--	--	--	9750	9000	26
CONDUCTIVITY	-	umhos/cm	6250	5530	5580	1370	1380	1763	19460	18290	1249
FREE AMMONIA	-	mg/l	0.26	0.39	0.26	0.94	0.93	1.06	--	--	--
KJELDAHL NITROGEN	-	mg/l	2.56	0.37	0.64	5.16	2.84	1.00	11	9.3	0.20 J
ORGANIC NITROGEN	0.150	mg/l	2.35	0.05	0.43	4.39	2.08	0.13	--	--	--
PH	6.5-8.5		7.16	7.07	7.09	7.44	7.53	7.54	6.29	6.93	7.30
PHENOLS	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
SULFATE	500	mg/l	--	--	--	--	--	--	2510	2230	659
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,1-DICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,1-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,2-DICHLOROBENZENE	200	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,2-DICHLOROETHANE	5	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,3-DICHLOROBENZENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,4-DICHLOROBENZENE	5	ug/l	--	--	--	--	--	--	--	< 1.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 1(b)

COMPOUND (by Class)	MOE Obj.	Units	HC1-1 Jun.'87	HC1-1 Aug.'87	HC1-1 Aug.'87 (Dupl)	HC2-1 Jun.'87	HC2-1 Jun.'87 (Dupl)	HC2-1 Aug.'87	HC4-1 May.'88	HC4-1 Aug.'88	HC4-1 Nov.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)											
BENZENE	5	ug/l	--	--	--	--	--	--	--	< 0.5	--
BROMOFORM	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
BROMOMETHANE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--
CARBON TETRACHLORIDE	5	ug/l	--	--	--	--	--	--	--	< 1.0	--
CHLOROBENZENE	80	ug/l	--	--	--	--	--	--	--	< 0.5	--
CHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--
CHLOROFORM	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--
ETHYLBENZENE	2.4	ug/l	--	--	--	--	--	--	--	< 0.5	--
M&P-XYLENE	-	ug/l	--	--	--	--	--	--	--	< 0.5	--
METHYL CHLORIDE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--
METHYLENE CHLORIDE	50	ug/l	--	--	--	--	--	--	--	< 1.0	--
O-XYLENE	-	ug/l	--	--	--	--	--	--	--	< 0.5	--
TETRACHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
TOLUENE	24	ug/l	--	--	--	--	--	--	--	< 0.5	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
TRICHLOROETHYLENE	50	ug/l	--	--	--	--	--	--	--	< 1.0	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--
VINYL CHLORIDE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--

000363

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 2(a)

COMPOUND (by Class)	MOE Obj.	Units	HC4-2 May.'88	Aug.'88	Jul.'89	Nov.'89	Apr.'90	Aug.'90	Apr.'91	Apr.'91 (Dupl)	Jul.'91
BIOLOGICAL TESTING											
FAECAL COLIFORM	0/100ml	/100ml	48	< 1	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	0/100ml	/100ml	12	2	--	--	--	--	--	--	--
TOTAL COLIFORMS	5/100ml	/100ml	200	55	--	--	--	--	--	--	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	328	333	298	248	84	258	226	210	253
AMMONIA NITROGEN	-	mg/l	< 0.02	< 0.02	< 0.02	0.91 J	13.0	7.63	5.17	4.10	1.58
CHLORIDE	250	mg/l	136	35	58	860	6778	655	920	852	710
CONDUCTIVITY	-	umhos/cm	5480	20900	2200	2850	12300	3810	3450	--	3150
KJELDAHL NITROGEN	-	mg/l	5.42	0.95	0.59	1.15 J	16.8	12.4	8.47	7.10	2.34
PH	6.5-8.5		7.15	7.07	6.80	7.70	7.09	6.92	6.5	--	7.0
PHENOLS	-	ug/l	< 1.0	--	--	--	< 1	1 J	< 1	< 1	1
SULFATE	500	mg/l	1050	1100	444	861	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	< 0.50	--	--	--	--	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	< 1.0	--	< 0.33	--	--	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	< 0.21	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	--	< 1.0	--	< 0.20	--	--	--	--	--
1,1-DICHLOROETHYLENE	-	ug/l	--	< 1.0	--	< 0.32	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	-	ug/l	--	--	--	< 0.50	--	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	--	< 1.0	--	< 0.24	--	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	--	< 1.0	--	< 0.82	--	--	--	--	--
1,2-DICHLOROPROPANE	-	ug/l	--	< 1.0	--	< 0.20	--	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	--	< 1.0	--	< 0.23	--	--	--	--	--
1,4-DICHLOROBENZENE	5	ug/l	--	< 1.0	--	< 0.22	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	< 0.50	--	--	--	--	--

000364

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 2(b)

COMPOUND (by Class)	MOE Obj.	Units	HC4-2 May.'88	Aug.'88	Jul.'89	Nov.'89	Apr.'90	Aug.'90	Apr.'91	Apr.'91 (Dupl)	Jul.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)											
BENZENE	5	ug/l	--	< 0.5	--	< 0.19	--	--	--	--	--
BROMOFORM	-	ug/l	--	< 1.0	--	< 0.49	--	--	--	--	--
BROMOMETHANE	-	ug/l	--	< 2.0	--	< 0.83	--	--	--	--	--
CARBON TETRACHLORIDE	5	ug/l	--	< 1.0	--	< 0.93	--	--	--	--	--
CHLOROBENZENE	80	ug/l	--	< 0.5	--	< 0.27	--	--	--	--	--
CHLOROETHANE	-	ug/l	--	< 2.0	--	< 0.50	--	--	--	--	--
CHLOROFORM	-	ug/l	--	< 1.0	--	3.4 U	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	< 0.27	--	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1.0	--	< 0.24	--	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	< 1.0	--	< 0.50	--	--	--	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	< 2.0	--	< 0.50	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	--	< 0.5	--	< 0.24	--	--	--	--	--
M&P-XYLENE	-	ug/l	--	< 0.5	--	< 0.21	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	--	< 2.0	--	< 0.65 UJ	--	--	--	--	--
METHYLENE CHLORIDE	50	ug/l	--	< 1.0	--	3.5 J	--	--	--	--	--
O-XYLENE	-	ug/l	--	< 0.5	--	< 0.19	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	--	< 1.0	--	< 0.21	--	--	--	--	--
TOLUENE	24	ug/l	--	< 0.5	--	0.35	--	--	--	--	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 1.0	--	< 0.20	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	--	< 1.0	--	< 0.92	--	--	--	--	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	--	< 0.26	--	--	--	--	--
VINYL CHLORIDE	-	ug/l	--	< 2.0	--	< 0.74	--	--	--	--	--

000365

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 3

COMPOUND (by Class)	MOE Obj.	Units	HC4-2 Apr.'92	Jul.'92	Apr.'93	Jul.'93	HC4-3 Jul.'89	Nov.'89	Apr.'90	Aug.'90	Apr.'91
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	216	226	212	209	317	326	330	400	320
AMMONIA NITROGEN	-	mg/l	5.18	4.49	7.00	4.60	< 0.02	< 0.03 UJ	0.42	0.27	< 0.03
CHLORIDE	250	mg/l	653	522	713	646	32	30	68.0	15.0	29.8
CONDUCTIVITY	-	umhos/cm	3600	8910	3400	4800	1030	1988	2240	1740	1610
KJELDAHL NITROGEN	-	mg/l	5.51	5.03	7.28	5.44	1.84	< 0.06 UJ	0.68	0.83 U	< 0.06
PH	6.5-8.5		7.60	6.93	7.11	7.4	6.90	7.20	7.15	6.73	6.5
PHENOLS	-	ug/l	< 1	< 1.0	< 1.0	< 1.0	--	--	< 1	2 J	< 1
SULFATE	500	mg/l	--	--	--	--	1530	1775	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	< 1.0	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	--	--	--	--	--	--	--	--
BENZENE	5	ug/l	< 0.5	--	--	--	--	--	--	--	--
CHLOROBENZENE	80	ug/l	< 0.5	--	--	--	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	< 0.5	--	--	--	--	--	--	--	--
M&P-XYLENE	-	ug/l	< 0.5	--	--	--	--	--	--	--	--
O-XYLENE	-	ug/l	< 0.5	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
TOLUENE	24	ug/l	< 0.5	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	< 1.0	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 4

COMPOUND (by Class)	MOE Obj.	Units	HC4-3 Jul.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	Jul.'93 (Dupl)	HC4-4 Jul.'89	Nov.'89	Apr.'90
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	333	326	302	330	308	300	210	320	512
AMMONIA NITROGEN	-	mg/l	0.35	0.06	0.18	0.14	< 0.03	0.35	5.49	< 0.03 UJ	0.05
CHLORIDE	250	mg/l	19.4	29.2	20.6	30.6	23.0	78.7	710	26.0	28.0
CONDUCTIVITY	-	umhos/cm	1072	1620	3640	1600	1950	--	9760	1820	1478
KJELDAHL NITROGEN	-	mg/l	0.65	0.15	0.47	1.03	3.53	4.73	9.45	0.40 J	1.28
PH	6.5-8.5		7.1	7.33	6.83	7.08	7.3	--	6.99	7.10	7.25
PHENOLS	-	ug/l	2	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1
SULFATE	500	mg/l	--	--	--	--	--	--	3080	1348	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	--	--	--	< 1.0	< 1.0	--	--	--
1,1-DICHLOROETHANE	-	ug/l	< 1.0	--	--	--	< 1.0	< 1.0	--	--	--
1,2-DICHLOROETHANE	5	ug/l	< 1.0	--	--	--	< 1.0	< 1.0	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	--	--	--	< 1.0	< 1.0	--	--	--
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	--	--	--	< 1.0	< 1.0	--	--	--
BENZENE	5	ug/l	< 0.5	--	--	--	< 0.5	< 0.5	--	--	--
CHLOROBENZENE	80	ug/l	< 0.5	--	--	--	< 0.5	< 0.5	--	--	--
ETHYLBENZENE	2.4	ug/l	< 0.5	--	--	--	< 0.5	< 0.5	--	--	--
M&P-XYLENE	-	ug/l	< 0.5	--	--	--	< 0.5	< 0.5	--	--	--
O-XYLENE	-	ug/l	< 0.5	--	--	--	< 0.5	< 0.5	--	--	--
TETRACHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	< 1.0	< 1.0	--	--	--
TOLUENE	24	ug/l	< 0.5	--	--	--	< 0.5	< 0.5	--	--	--
TRICHLOROETHANE	-	ug/l	--	--	--	--	< 1.0	< 1.0	--	--	--
TRICHLOROETHYLENE	50	ug/l	< 1.0	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 5(a)

COMPOUND (by Class)	MOE Obj.	Units	HC4-4 Aug.'90	Apr.'91	Jul.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	HC6-1 Nov.'89	HC6-2 Nov.'89
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	436	306	336	327	325	368	321	216	148
AMMONIA NITROGEN	-	mg/l	0.43	< 0.03	0.36	0.04	0.11	0.03	< 0.03	4.59 J	5.13 J
CHLORIDE	250	mg/l	15.0	27.6	14.6	26.1	17.0	36.2	26.5	2524	2799
CONDUCTIVITY	-	umhos/cm	1810	1323	1015	1450	3300	1200	2000	5720	5950
KJELDAHL NITROGEN	-	mg/l	1.08 U	< 0.06	1.15	0.14	0.39	0.60	3.04	7.21 J	6.20 J
PH	6.5-8.5		7.03	6.5	7.0	7.43	7.00	7.16	7.6	7.00	7.00
PHENOLS	-	ug/l	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	--	--
SULFATE	500	mg/l	--	--	--	--	--	--	--	979	1805
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1	--	--	--	< 1.0	--	--	--	< 0.50
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 2	--	--	--	--	--	--	--	< 0.33
1,1,2-TRICHLOROETHANE	-	ug/l	< 2	--	--	--	--	--	--	--	0.31 U
1,1-DICHLOROETHANE	-	ug/l	< 1	--	--	--	< 1.0	--	--	--	< 0.20
1,1-DICHLOROETHYLENE	-	ug/l	< 1	--	--	--	--	--	--	--	< 0.32
1,2,4-TRICHLOROBENZENE	-	ug/l	--	--	--	--	--	--	--	--	< 0.50
1,2-DICHLOROBENZENE	200	ug/l	< 1	--	--	--	--	--	--	--	< 0.24
1,2-DICHLOROETHANE	5	ug/l	< 1	--	--	--	< 1.0	--	--	--	< 0.82
1,2-DICHLOROPROPANE	-	ug/l	< 1	--	--	--	--	--	--	--	< 0.20
1,3-DICHLOROBENZENE	-	ug/l	< 1	--	--	--	< 1.0	--	--	--	< 0.23
1,4-DICHLOROBENZENE	5	ug/l	< 1	--	--	--	< 1.0	--	--	--	< 0.22
2-CHLOROETHYLVINYLETHER	-	ug/l	< 10	--	--	--	--	--	--	--	< 0.50
BENZENE	5	ug/l	TR U	--	--	--	< 0.5	--	--	--	< 0.19
BROMOFORM	-	ug/l	< 2	--	--	--	--	--	--	--	< 0.49
BROMOMETHANE	-	ug/l	< 2	--	--	--	--	--	--	--	< 0.83
CARBON TETRACHLORIDE	5	ug/l	< 1	--	--	--	--	--	--	--	< 0.93
CHLOROBENZENE	80	ug/l	< 0.5	--	--	--	< 0.5	--	--	--	< 0.27
CHLOROETHANE	-	ug/l	< 2	--	--	--	--	--	--	--	< 0.50

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 5(b)

COMPOUND (by Class)	MOE Obj.	Units	HC4-4 Aug.'90	Apr.'91	Jul.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	HC6-1 Nov.'89	HC6-2 Nov.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CHLOROFORM	-	ug/l	< 1	--	--	--	--	--	--	--	3.5 U
CIS-1,2-DICHLOROETHYLENE	-	ug/l	< 1	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1	--	--	--	--	--	--	--	< 0.27
DIBROMOCHLOROMETHANE	-	ug/l	< 1	--	--	--	--	--	--	--	< 0.24
DICHLOROBROMOMETHANE	-	ug/l	< 2	--	--	--	--	--	--	--	< 0.50
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.50
ETHYLBENZENE	2.4	ug/l	< 0.5	--	--	--	< 0.5	--	--	--	< 0.24
M&P-XYLENE	-	ug/l	--	--	--	--	< 0.5	--	--	--	< 0.21
METHYL CHLORIDE	-	ug/l	< 2	--	--	--	--	--	--	--	< 0.65
METHYLENE CHLORIDE	50	ug/l	< 1	--	--	--	--	--	--	--	< 0.92
O-XYLENE	-	ug/l	--	--	--	--	< 0.5	--	--	--	< 0.19
TETRACHLOROETHYLENE	-	ug/l	< 1	--	--	--	< 1.0	--	--	--	< 0.21
TOLUENE	24	ug/l	< 0.5	--	--	--	< 0.5	--	--	--	< 0.24
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 1	--	--	--	--	--	--	--	1.37 U
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	< 1	--	--	--	< 1.0	--	--	--	< 0.92
TRICHLOROFLUOROMETHANE	-	ug/l	< 2	--	--	--	--	--	--	--	< 0.26
VINYL CHLORIDE	-	ug/l	< 2	--	--	--	--	--	--	--	0.94

000369

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 6

COMPOUND (by Class)	MOE Obj.	Units	HC6-3 Jul.'89	HC6-3 Nov.'89	HC6-4 Nov.'89	HC7-1 Jul.'89	HC7-1 Nov.'89	Apr.'90	Aug.'90	Apr.'91	Jul.'91
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	107	NS	156	44	374	202	54	66	99
AMMONIA NITROGEN	-	mg/l	13.40	NS	4.80 J	10.4	7.61 J	11.3	14.3	11.2	1.42
CHLORIDE	250	mg/l	10700	115	2724	6750	6198	5418	5478	11717	5350
CONDUCTIVITY	-	umhos/cm	1840	NS	6030	12050	8840	9800	8750	9140	7560
KJELDAHL NITROGEN	-	mg/l	13.40	NS	5.42 J	12.10	10.9 J	15.9	21.9	16.4	5.70
PH	6.5-8.5		7.10	NS	7.00	7.08	6.80	7.05	6.56	7.0	6.6
PHENOLS	-	ug/l	--	--	--	--	--	< 1	1 J	< 1	< 1
SULFATE	500	mg/l	2530	203	1390	1470	1531	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,1-DICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,2-DICHLOROETHANE	5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,3-DICHLOROBENZENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,4-DICHLOROBENZENE	5	ug/l	--	--	--	--	--	--	--	--	< 1.0
BENZENE	5	ug/l	--	--	--	--	--	--	--	--	< 0.5
CHLOROBENZENE	80	ug/l	--	--	--	--	--	--	--	--	< 0.5
ETHYLBENZENE	2.4	ug/l	--	--	--	--	--	--	--	--	< 0.5
M&P-XYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 0.5
O-XYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
TETRACHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	--	2.3
TOLUENE	24	ug/l	--	--	--	--	--	--	--	--	< 1.0
TRICHLOROETHYLENE	50	ug/l	--	--	--	--	--	--	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 7

COMPOUND (by Class)	MOE Obj.	Units	HC7-1 Apr.'92	Jul.'92	Jul.'92 (Dupl)	Apr.'93	Apr.'93 (Dupl)	Jul.'93	HC7-2 Jul.'89	Nov.'89	Apr.'90
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	56	97	87	91.4	88.4	59.2	348	358	339
AMMONIA NITROGEN	-	mg/l	9.37	8.03	7.84	8.50	9.50	6.40	0.18	0.91 J	1.48
CHLORIDE	250	mg/l	4315	4240	4364	5148	4992	4408	156	144	156
CONDUCTIVITY	-	umhos/cm	12400	2800	2800	8200	--	12000	1202	1230	1223
KJELDAHL NITROGEN	-	mg/l	10.8	9.59	8.76	8.62	10.1	7.11	0.67	1.33 J	2.53
PH	6.5-8.5		6.28	7.55	7.55	7.07	--	7.5	6.82	7.20	7.08
PHENOLS	-	ug/l	< 1	< 1.0	< 1.0	< 1.0	< 1.0	2.2	--	--	< 1
SULFATE	500	mg/l	--	--	--	--	--	--	248	205	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	< 1.0	--	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	--	< 1.0	< 1.0	--	--	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	--	< 1.0	< 1.0	--	--	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	--	< 1.0	< 1.0	--	--	--	--	--	--
1,4-DICHLOROBENZENE	5	ug/l	--	< 1.0	< 1.0	--	--	--	--	--	--
BENZENE	5	ug/l	--	< 0.5	< 0.5	--	--	--	--	--	--
CHLOROBENZENE	80	ug/l	--	< 0.5	< 0.5	--	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	--	< 0.5	< 0.5	--	--	--	--	--	--
M&P-XYLENE	-	ug/l	--	< 0.5	< 0.5	--	--	--	--	--	--
O-XYLENE	-	ug/l	--	< 0.5	< 0.5	--	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	--	< 1.0	< 1.0	--	--	--	--	--	--
TOLUENE	24	ug/l	--	< 0.5	< 0.5	--	--	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	--	< 1.0	< 1.0	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 8(a)

COMPOUND (by Class)	MOE Obj.	Units	HC7-2 Aug.'90	Aug.'90 (Dupl)	Apr.'91	Jul.'91	Apr.'92	Apr.'92 (Dupl)	Jul.'92	Apr.'93	Jul.'93
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	300	338	312	286	373	382	335	370	360
AMMONIA NITROGEN	-	mg/l	4.43	3.75	1.04	0.64	0.70	0.48	1.44	0.90	< 0.03
CHLORIDE	250	mg/l	190	230	131	208	110	107	159	50.0	47.3
CONDUCTIVITY	-	umhos/cm	1390	--	1285	1386	18000	18000	21000	740	890
KJELDAHL NITROGEN	-	mg/l	6.64	8.60	1.50	1.86	0.89	0.59	1.80	1.03	0.63
PH	6.5-8.5		6.61	--	7.0	7.0	6.56	6.56	7.63	7.26	7.7
PHENOLS	-	ug/l	< 1	9 J	< 1	< 1	< 1	< 1	< 1.0	< 1.0	2.2
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1	< 1	--	--	--	--	< 1.0	--	< 1.0
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 2	< 2	--	--	--	--	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	< 2	< 2	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	< 1	< 1	--	--	--	--	< 1.0	--	< 1.0
1,1-DICHLOROETHYLENE	-	ug/l	< 1	< 1	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	< 1	< 1	--	--	--	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	< 1	< 1	--	--	--	--	< 1.0	--	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 1	< 1	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	< 1	< 1	--	--	--	--	< 1.0	--	< 1.0
1,4-DICHLOROBENZENE	5	ug/l	< 1	< 1	--	--	--	--	< 1.0	--	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	< 10	< 10	--	--	--	--	--	--	--
BENZENE	5	ug/l	TR U	TR U	--	--	--	--	< 0.5	--	< 0.5
BROMOFORM	-	ug/l	< 2	< 2	--	--	--	--	--	--	--
BROMOMETHANE	-	ug/l	< 2	< 2	--	--	--	--	--	--	--
CARBON TETRACHLORIDE	5	ug/l	< 1	< 1	--	--	--	--	--	--	--
CHLOROBENZENE	80	ug/l	< 0.5	< 0.5	--	--	--	--	< 0.5	--	< 0.5
CHLOROETHANE	-	ug/l	< 2	< 2	--	--	--	--	--	--	--
CHLOROFORM	-	ug/l	< 1	< 1	--	--	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	< 1	< 1	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 8(b)

COMPOUND (by Class)	MOE Obj.	Units	HC7-2 Aug.'90	Aug.'90 (Dupl)	Apr.'91	Jul.'91	Apr.'92	Apr.'92 (Dupl)	Jul.'92	Apr.'93	Jul.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1	< 1	--	--	--	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	< 1	< 1	--	--	--	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	< 2	< 2	--	--	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	< 0.5	< 0.5	--	--	--	--	< 0.5	--	< 0.5
M&P-XYLENE	-	ug/l	--	--	--	--	--	--	< 0.5	--	< 0.5
METHYL CHLORIDE	-	ug/l	< 2	< 2	--	--	--	--	--	--	--
METHYLENE CHLORIDE	50	ug/l	< 1	1.3 U	--	--	--	--	--	--	--
O-XYLENE	-	ug/l	--	--	--	--	--	--	< 0.5	--	< 0.5
TETRACHLOROETHYLENE	-	ug/l	< 1	< 1	--	--	--	--	< 1.0	--	< 1.0
TOLUENE	24	ug/l	< 0.5	< 0.5	--	--	--	--	< 0.5	--	< 0.5
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 1	< 1	--	--	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1	< 1	--	--	--	--	--	--	--
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	< 1	< 1	--	--	--	--	< 1.0	--	--
TRICHLOROFLUOROMETHANE	-	ug/l	< 2	< 2	--	--	--	--	--	--	--
VINYL CHLORIDE	-	ug/l	< 2	< 2	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 9(a)

COMPOUND (by Class)	MOE Obj.	Units	HC7-3 Jul.'89	HC9-1 Nov.'89	HC9-1 Jun.'87	HC9-1 Aug.'87	HC9-1 Dec.'87	HC9-1 Feb.'88	HC9-2 Nov.'89	HC9-2 Dec.'87	HC9-2 Dec.'87 (Dupl)
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	354	372	--	--	--	--	37.4	--	--
AMMONIA NITROGEN	-	mg/l	< 0.02	< 0.03 UJ	3.52	11.50	5.45	--	19.3 J	3.95	4.95
CHLORIDE	250	mg/l	84	124	--	--	--	--	34889	--	--
CONDUCTIVITY	-	umhos/cm	849	1037	> 20000	> 20000	10900	--	> 20000	42000	42000
FREE AMMONIA	-	mg/l	--	--	4.29	14.00	6.65	--	--	4.82	6.04
KJELDAHL NITROGEN	-	mg/l	2.20	4.99 J	11.40	13.40	13.50	--	26.6 J	8.25	9.05
ORGANIC NITROGEN	0.150	mg/l	--	--	7.88	1.90	8.05	--	--	4.30	4.10
PH	6.5-8.5		6.74	7.30	6.49	7.09	6.93	--	6.70	6.64	6.64
SULFATE	500	mg/l	88.8	95.0	--	--	--	--	1318	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 0.50	--	--	< 0.2	< 1.0	--	< 0.2	< 0.4
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	< 0.33	--	--	< 2	< 1.0	--	< 2	< 4
1,1,2-TRICHLOROETHANE	-	ug/l	--	< 0.21	--	--	< 0.5	< 1.0	--	< 0.5	< 1
1,1-DICHLOROETHANE	-	ug/l	--	< 0.20	--	--	< 0.2	< 1.0	--	< 0.2	< 0.4
1,1-DICHLOROETHYLENE	-	ug/l	--	< 0.32	--	--	< 0.2	< 1.0	--	< 0.2	< 0.4
1,2,4-TRICHLOROBENZENE	-	ug/l	--	< 0.50	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	--	< 0.24	--	--	< 0.3	< 1.0	--	< 0.3	< 0.6
1,2-DICHLOROETHANE	5	ug/l	--	< 0.82	--	--	< 0.2	< 1.0	--	< 0.2	< 0.4
1,2-DICHLOROPROPANE	-	ug/l	--	< 0.20	--	--	< 0.2	< 1.0	--	< 0.2	< 0.4
1,3-DICHLOROBENZENE	-	ug/l	--	< 0.23	--	--	< 0.3	< 1.0	--	< 0.3	< 0.6
1,4-DICHLOROBENZENE	5	ug/l	--	< 0.22	--	--	< 0.3	< 1.0	--	< 0.3	< 0.6
2-BUTANONE	-	ug/l	--	--	--	--	--	4.49	--	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	< 0.50	--	--	< 10	--	--	< 10	< 20
A-METHYLSTYRENE	-	ug/l	--	--	--	--	< 0.2	--	--	< 0.2	< 0.4
ACETONE	-	ug/l	--	--	--	--	--	ND	--	--	--
BENZENE	5	ug/l	--	< 0.19	--	--	< 2	0.62	--	< 2	< 4
BROMOFORM	-	ug/l	--	< 0.49	--	--	< 2	< 1.0	--	< 2	< 4

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 9(b)

COMPOUND (by Class)	MOE Obj.	Units	HC7-3 Jul.'89	HC7-3 Nov.'89	HC9-1 Jun.'87	HC9-1 Aug.'87	HC9-1 Dec.'87	HC9-1 Feb.'88	HC9-2 Nov.'89	HC9-2 Dec.'87	HC9-2 Dec.'87 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
BROMOMETHANE	-	ug/l	--	< 0.83	--	--	< 0.2	< 2.0	--	< 0.2	< 0.4
CARBON TETRACHLORIDE	5	ug/l	--	< 0.93	--	--	< 1	< 1.0	--	< 1	< 2
CHLOROBENZENE	80	ug/l	--	< 0.27	--	--	< 0.2	< 0.5	--	< 0.2	< 0.4
CHLOROETHANE	-	ug/l	--	< 0.50	--	--	< 0.2	< 2.0	--	< 0.2	< 0.4
CHLOROFORM	-	ug/l	--	3.5 U	--	--	< 0.2	TR	--	< 0.2	< 0.4
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 0.27	--	--	< 0.5	< 1.0	--	< 0.5	< 1
DIBROMOCHLOROMETHANE	-	ug/l	--	< 0.24	--	--	< 0.2	< 1.0	--	< 0.2	< 0.4
DICHLOROBROMOMETHANE	-	ug/l	--	< 0.50	--	--	< 0.2	< 1.0	--	< 0.2	< 0.4
DICHLORODIFLUOROMETHANE	-	ug/l	--	< 0.50	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
ETHYLBENZENE	2.4	ug/l	--	< 0.24	--	--	0.6	TR	--	< 0.2	< 0.4
M&P-XYLENE	-	ug/l	--	< 0.21	--	--	0.3	< 0.5	--	< 0.3	< 0.6
MESITYLENE	-	ug/l	--	--	--	--	< 0.2	--	--	< 0.2	< 0.4
METHYL CHLORIDE	-	ug/l	--	< 0.65	--	--	< 0.2	< 2.0	--	< 0.2	< 0.4
METHYLENE CHLORIDE	50	ug/l	--	2.2	--	--	< 10	2.47	--	< 10	< 20
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	< 0.2	--	--	< 0.2	< 0.4
O-XYLENE	-	ug/l	--	< 0.19	--	--	< 0.2	< 0.5	--	< 0.2	< 0.4
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	< 0.2	--	--	< 0.2	< 0.4
STYRENE	-	ug/l	--	--	--	--	< 0.2	ND	--	< 0.2	< 0.4
TETRACHLOROETHYLENE	-	ug/l	--	< 0.21	--	--	< 0.2	< 1.0	--	< 0.2	< 0.4
THF	-	ug/l	--	--	--	--	--	ND	--	--	--
TOLUENE	24	ug/l	--	0.32	--	--	190	72.27	--	13	13
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 0.20	--	--	< 0.2	< 1.0	--	< 0.2	< 0.4
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 0.2	< 1.0	--	--	--
TRICHLOROETHYLENE	50	ug/l	--	< 0.92	--	--	< 0.2	< 1.0	--	< 0.2	< 0.4
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 0.26	--	--	< 0.5	< 2.0	--	< 0.5	< 1
VINYL CHLORIDE	-	ug/l	--	< 0.74	--	--	< 0.5	< 2.0	--	< 0.5	< 1

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 10(a)

COMPOUND (by Class)	MOE Obj.	Units	HC9-2 Feb.'88	May.'88	Aug.'88	Jul.'89	Nov.'89	Apr.'90	Aug.'90	Jul.'91	Jul.'91 (Dupl)
BIOLOGICAL TESTING											
FAECAL COLIFORM	0/100ml	/100ml	--	60	< 1	--	--	--	--	--	--
FAECAL STREPTOCOCCI	0/100ml	/100ml	--	< 1	< 1	--	--	--	--	--	--
TOTAL COLIFORMS	5/100ml	/100ml	--	65	60	--	--	--	--	--	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	--	38	30	35	22.9	61	35	65	58
AMMONIA NITROGEN	-	mg/l	--	< 0.02	19.2	21.2	15.7 J	16.7	25.5	2.00	1.59
CHLORIDE	250	mg/l	--	17400	22500	17200	16895	15695	16395	17056	16333
CONDUCTIVITY	-	umhos/cm	--	42800	> 99000	9990	15800	18820	15060	1515	--
KJELDAHL NITROGEN	-	mg/l	--	16.5	20.1	24.8	17.6 J	19.5	33.0	7.25	7.35
PH	6.5-8.5		--	6.78	6.9	6.11	6.70	6.80	6.46	6.6	--
PHENOLS	-	ug/l	--	< 1.0	--	--	--	< 1	2 J	< 1	< 1
SULFATE	500	mg/l	--	1870	1840	1660	1653	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 2	< 1.0	--	--	--	--	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 1.0	< 2	< 1.0	--	--	--	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	-	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	< 1.0	< 2	< 1.0	--	--	--	--	< 1.0	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	< 1.0	< 1.0
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	< 1.0	< 1.0
2-BUTANONE	-	ug/l	ND	--	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	< 10	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 10(b)

COMPOUND (by Class)	MOE Obj.	Units	HC9-2 Feb.'88	May.'88	Aug.'88	Jul.'89	Nov.'89	Apr.'90	Aug.'90	Jul.'91	Jul.'91 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
A-METHYLSTYRENE	-	ug/l	--	< 1	--	--	--	--	--	--	--
ACETONE	-	ug/l	ND	--	--	--	--	--	--	--	--
BENZENE	5	ug/l	TR	< 1	< 0.5	--	--	--	--	< 0.5	< 0.5
BROMOFORM	-	ug/l	< 1.0	< 2	< 1.0	--	--	--	--	--	--
BROMOMETHANE	-	ug/l	< 2.0	< 16	< 2.0	--	--	--	--	--	--
CARBON TETRACHLORIDE	5	ug/l	< 1.0	< 2	< 1.0	--	--	--	--	--	--
CHLOROBENZENE	80	ug/l	< 0.5	< 1	< 0.5	--	--	--	--	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	< 2.0	< 10	< 2.0	--	--	--	--	--	--
CHLOROFORM	-	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	< 1.0	--	< 1.0	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	< 2.0	--	< 2.0	--	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	< 0.5	< 1	< 0.5	--	--	--	--	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	< 2	< 0.5	--	--	--	--	< 0.5	< 0.5
MESITYLENE	-	ug/l	--	< 1	--	--	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	< 2.0	< 50	< 2.0	--	--	--	--	--	--
METHYLENE CHLORIDE	50	ug/l	3.37	< 10	< 1.0	--	--	--	--	--	--
METHYLSTYRENE ISOMERS	-	ug/l	--	< 1	--	--	--	--	--	--	--
O-XYLENE	-	ug/l	< 0.5	< 1	< 0.5	--	--	--	--	< 0.5	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	--	< 1	--	--	--	--	--	--	--
STYRENE	-	ug/l	ND	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	< 1.0	< 1.0
THF	-	ug/l	ND	--	--	--	--	--	--	--	--
TOLUENE	24	ug/l	12.88	< 2	TR	--	--	--	--	0.7	0.7
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	< 1.0	--	--	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	< 1.0	< 1	< 1.0	--	--	--	--	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 10(c)

COMPOUND (by Class)	MOE Obj.	Units	HC9-2 Feb.'88	May.'88	Aug.'88	Jul.'89	Nov.'89	Apr.'90	Aug.'90	Jul.'91	Jul.'91 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRICHLOROFLUOROMETHANE	-	ug/l	< 2.0	< 2	< 2.0	--	--	--	--	--	--
VINYL CHLORIDE	-	ug/l	< 2.0	< 12	< 2.0	--	--	--	--	--	--

000378

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 11(a)

COMPOUND (by Class)	MOE Obj.	Units	HC9-2 Apr.'92	Jul.'92	Apr.'93	Jul.'93	HC9-3 Jun.'87	Aug.'87	Jul.'89	Nov.'89	Nov.'89 (Dupl)
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	50	42	45.0	32.4	--	--	388	322	322
AMMONIA NITROGEN	-	mg/l	18.3	17.0	22.0	9.78	0.76	0.52	1.61	0.58 J	0.25 J
CHLORIDE	250	mg/l	14281	17150	15466	16178	--	--	190	186	186
CONDUCTIVITY	-	umhos/cm	18520	6080	16000	27500	3080	3660	1930	2020	2020
FREE AMMONIA	-	mg/l	--	--	--	--	0.92	0.67	--	--	--
KJELDAHL NITROGEN	-	mg/l	23.5	19.7	23.5	13.7	9.14	0.52	2.08	0.70 J	0.39 J
ORGANIC NITROGEN	0.150	mg/l	--	--	--	--	8.38	0.00	--	--	--
PH	6.5-8.5		6.69	6.75	6.91	7.1	7.39	7.34	6.92	7.40	7.40
PHENOLS	-	ug/l	< 1	< 1.0	< 1.0	< 1.0	--	--	--	--	--
SULFATE	500	mg/l	--	--	--	--	--	--	1060	1196	1257
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	--	--	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.33	< 0.33
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.21	< 0.21
1,1-DICHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	--	--	< 0.20	< 0.20
1,1-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 0.32	< 0.32
1,2,4-TRICHLOROBENZENE	-	ug/l	--	--	--	--	--	--	--	< 0.50	< 0.50
1,2-DICHLOROBENZENE	200	ug/l	--	--	--	--	--	--	--	< 0.24	< 0.24
1,2-DICHLOROETHANE	5	ug/l	--	< 1.0	--	--	--	--	--	< 0.82	< 0.82
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	--	--	--	< 0.20	< 0.20
1,3-DICHLOROBENZENE	-	ug/l	--	< 1.0	--	--	--	--	--	< 0.23	< 0.23
1,4-DICHLOROBENZENE	5	ug/l	--	< 1.0	--	--	--	--	--	< 0.22	< 0.22
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	--	--	< 0.50	< 0.50
BENZENE	5	ug/l	--	< 0.5	--	--	--	--	--	< 0.19	< 0.19
BROMOFORM	-	ug/l	--	--	--	--	--	--	--	< 0.49	< 0.49
BROMOMETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.83	< 0.83
CARBON TETRACHLORIDE	5	ug/l	--	--	--	--	--	--	--	< 0.93	< 0.93

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 11(b)

COMPOUND (by Class)	MOE Obj.	Units	HC9-2 Apr.'92	HC9-2 Jul.'92	HC9-2 Apr.'93	HC9-2 Jul.'93	HC9-3 Jun.'87	HC9-3 Aug.'87	HC9-3 Jul.'89	HC9-3 Nov.'89	HC9-3 Nov.'89 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CHLOROBENZENE	80	ug/l	--	< 0.5	--	--	--	--	--	< 0.27	< 0.27
CHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.50	< 0.50
CHLOROFORM	-	ug/l	--	--	--	--	--	--	--	3.0 U	2.4 U
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	--	--	--	< 0.27	< 0.27
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.24	< 0.24
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.50	< 0.50
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.50	< 0.50
ETHYLBENZENE	2.4	ug/l	--	< 0.5	--	--	--	--	--	< 0.24	< 0.24
M&P-XYLENE	-	ug/l	--	< 0.5	--	--	--	--	--	< 0.21	< 0.21
METHYL CHLORIDE	-	ug/l	--	--	--	--	--	--	--	1.09 U	< 0.65 U
METHYLENE CHLORIDE	50	ug/l	--	--	--	--	--	--	--	3.3	4.2
O-XYLENE	-	ug/l	--	< 0.5	--	--	--	--	--	< 0.19	< 0.19
TETRACHLOROETHYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	< 0.21	< 0.21
TOLUENE	24	ug/l	--	< 0.5	--	--	--	--	--	< 0.24	< 0.24
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 0.20	< 0.20
TRICHLOROETHYLENE	50	ug/l	--	< 1.0	--	--	--	--	--	< 0.92	< 0.92
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.26	< 0.26
VINYL CHLORIDE	-	ug/l	--	--	--	--	--	--	--	< 0.74	< 0.74

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 12(a)

COMPOUND (by Class)	MOE Obj.	Units	HC9-3 Apr.'90	Aug.'90	Apr.'91	Jul.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	HC9-4 Nov.'89
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	2874	300	322	294	360	320	377	354	349
AMMONIA NITROGEN	-	mg/l	0.52	1.20	< 0.03	0.71	0.52	0.93	1.80	< 0.03	< 0.03 UJ
CHLORIDE	250	mg/l	236	262	124	272	115	176	82.6	91.7	112
CONDUCTIVITY	-	umhos/cm	2420	2020	1428	2430	29500	5400	1300	1650	1790
KJELDAHL NITROGEN	-	mg/l	7.22	1.43 U	< 0.06	1.29	0.75	1.07	3.11	2.44	1.55 J
PH	6.5-8.5		7.20	6.57	7.0	7.1	6.54	7.23	7.27	7.6	7.70
PHENOLS	-	ug/l	1	2 J	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	--
SULFATE	500	mg/l	--	--	--	--	--	--	--	--	435
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1	--	--	--	--	--	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	< 2	--	--	--	--	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	< 2	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	--	< 1	--	--	--	--	--	< 1.0	--
1,1-DICHLOROETHYLENE	-	ug/l	--	< 1	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	--	< 1	--	--	--	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	--	< 1	--	--	--	--	--	< 1.0	--
1,2-DICHLOROPROPANE	-	ug/l	--	< 1	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	--	< 1	--	--	--	--	--	< 1.0	--
1,4-DICHLOROBENZENE	5	ug/l	--	< 1	--	--	--	--	--	< 1.0	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	< 10	--	--	--	--	--	--	--
BENZENE	5	ug/l	--	< 0.5	--	--	--	--	--	< 0.5	--
BROMOFORM	-	ug/l	--	< 2	--	--	--	--	--	--	--
BROMOMETHANE	-	ug/l	--	< 2	--	--	--	--	--	--	--
CARBON TETRACHLORIDE	5	ug/l	--	< 1	--	--	--	--	--	--	--
CHLOROBENZENE	80	ug/l	--	< 0.5	--	--	--	--	--	< 0.5	--
CHLOROETHANE	-	ug/l	--	< 2	--	--	--	--	--	--	--
CHLOROFORM	-	ug/l	--	< 1	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 12(b)

COMPOUND (by Class)	MOE Obj.	Units	HC9-3 Apr.'90	Aug.'90	Apr.'91	Jul.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	HC9-4 Nov.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 1	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1	--	--	--	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1	--	--	--	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	< 2	--	--	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	--	< 0.5	--	--	--	--	--	< 0.5	--
M&P-XYLENE	-	ug/l	--	--	--	--	--	--	--	< 0.5	--
METHYL CHLORIDE	-	ug/l	--	< 2	--	--	--	--	--	--	--
METHYLENE CHLORIDE	50	ug/l	--	< 1	--	--	--	--	--	--	--
O-XYLENE	-	ug/l	--	--	--	--	--	--	--	< 0.5	--
TETRACHLOROETHYLENE	-	ug/l	--	< 1	--	--	--	--	--	< 1.0	--
TOLUENE	24	ug/l	--	< 0.5	--	--	--	--	--	< 0.5	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 1	--	--	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1	--	--	--	--	--	--	--
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
TRICHLOROETHYLENE	50	ug/l	--	< 1	--	--	--	--	--	--	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2	--	--	--	--	--	--	--
VINYL CHLORIDE	-	ug/l	--	< 2	--	--	--	--	--	--	--

000382

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 13(a)

COMPOUND (by Class)	MOE Obj.	Units	MB11-1 Jun.'87	MB11-1 Aug.'87	MB11-3 Jun.'87	MB11-3 Aug.'87	MB13-2 Dec.'87	MB13-3 Aug.'87	MB13-3 Dec.'87	MB13-3 Apr.'88	MB16-1 Jun.'87
GENERAL CHEMISTRY											
AMMONIA NITROGEN	-	mg/l	2.46	1.32	8.98	4.26	2.20	2.95	1.98	7.48	< 0.02
CONDUCTIVITY	-	umhos/cm	2760	2800	13800	12300	9610	8360	7300	8650	2650
FREE AMMONIA	-	mg/l	3.00	1.61	10.90	5.20	2.68	3.60	2.42	9.13	< 0.02
KJELDAHL NITROGEN	-	mg/l	4.02	1.34	9.82	5.44	4.26	5.18	3.70	9.62	4.26
ORGANIC NITROGEN	0.150	mg/l	1.56	0.02	0.84	1.18	2.06	2.23	1.72	2.14	4.26
PH	6.5-8.5		6.71	6.80	7.17	7.26	7.02	7.27	7.31	7.25	6.99
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	--	0.5	--	0.4	--	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	--	--	--	< 4	--	< 2	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	--	--	< 1	--	< 0.5	--	--
1,1-DICHLOROETHANE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
1,1-DICHLOROETHYLENE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
1,2-DICHLOROBENZENE	200	ug/l	--	--	--	--	< 0.6	--	< 0.3	--	--
1,2-DICHLOROETHANE	5	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
1,3-DICHLOROBENZENE	-	ug/l	--	--	--	--	< 0.6	--	< 0.3	--	--
1,4-DICHLOROBENZENE	5	ug/l	--	--	--	--	< 0.6	--	< 0.3	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	< 20	--	< 10	--	--
A-METHYLSTYRENE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
BENZENE	5	ug/l	--	--	--	--	< 4	--	< 2	--	--
BROMOFORM	-	ug/l	--	--	--	--	< 4	--	< 2	--	--
BROMOMETHANE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
CARBON TETRACHLORIDE	5	ug/l	--	--	--	--	< 2	--	< 1	--	--
CHLOROBENZENE	80	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
CHLOROETHANE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
CHLOROFORM	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1	--	< 0.5	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 13(b)

COMPOUND (by Class)	MOE Obj.	Units	MB11-1 Jun.'87	MB11-1 Aug.'87	MB11-3 Jun.'87	MB11-3 Aug.'87	MB13-2 Dec.'87	MB13-3 Aug.'87	MB16-1 Dec.'87	MB16-1 Apr.'88	MB16-1 Jun.'87
VOLATILE ORGANIC COMPOUNDS (cont'd)											
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
ETHYLBENZENE	2.4	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
M&P-XYLENE	-	ug/l	--	--	--	--	< 0.6	--	< 0.3	--	--
MESITYLENE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
METHYL CHLORIDE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
METHYLENE CHLORIDE	50	ug/l	--	--	--	--	< 20	--	< 10	--	--
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
O-XYLENE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
STYRENE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
TETRACHLOROETHYLENE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
TOLUENE	24	ug/l	--	--	--	--	< 3	--	< 0.3	--	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
TRICHLOROETHYLENE	50	ug/l	--	--	--	--	< 0.4	--	< 0.2	--	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	< 1	--	< 0.5	--	--
VINYL CHLORIDE	-	ug/l	--	--	--	--	< 1	--	< 0.5	--	--

000384

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 14(a)

COMPOUND (by Class)	MOE Obj.	Units	MB16-1 Aug.'87	MB16-1 Feb.'88	MB16-2 Dec.'87	MB16-3 Jun.'87	MB16-3 Aug.'87	MB16-3 Dec.'87	MB17-1 Jun.'87	MB17-1 Aug.'87	MB17-1 Feb.'88
GENERAL CHEMISTRY											
AMMONIA NITROGEN	-	mg/l	0.26	--	0.10	2.48	1.24	0.80	0.31	2.14	--
CONDUCTIVITY	-	umhos/cm	2580	--	705	1470	2020	2020	1820	2200	--
FREE AMMONIA	-	mg/l	0.31	--	0.12	3.02	1.51	0.98	0.37	2.61	--
KJELDAHL NITROGEN	-	mg/l	0.31	--	1.65	4.00	1.45	2.28	8.58	2.20	--
ORGANIC NITROGEN	0.150	mg/l	0.05	--	1.55	1.52	0.21	1.48	8.27	0.06	--
PH	6.5-8.5		7.04	--	7.28	11.01	10.98	10.89	7.45	7.12	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	1.0	< 0.2	--	--	1.2	--	--	< 1.0
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	< 1.0	< 2	--	--	< 2	--	--	< 1.0
1,1,2-TRICHLOROETHANE	-	ug/l	--	< 1.0	< 0.5	--	--	< 0.5	--	--	< 1.0
1,1-DICHLOROETHANE	-	ug/l	--	TR	< 0.2	--	--	0.3	--	--	< 1.0
1,1-DICHLOROETHYLENE	-	ug/l	--	< 1.0	< 0.2	--	--	0.6	--	--	< 1.0
1,2-DICHLOROBENZENE	200	ug/l	--	< 1.0	< 0.3	--	--	< 0.3	--	--	< 1.0
1,2-DICHLOROETHANE	5	ug/l	--	< 1.0	< 0.2	--	--	< 0.2	--	--	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	< 1.0	< 0.2	--	--	< 0.2	--	--	< 1.0
1,3-DICHLOROBENZENE	-	ug/l	--	< 1.0	< 0.3	--	--	< 0.3	--	--	< 1.0
1,4-DICHLOROBENZENE	5	ug/l	--	< 1.0	< 0.3	--	--	< 0.3	--	--	< 1.0
2-BUTANONE	-	ug/l	--	154.0	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	< 10	--	--	< 10	--	--	--
A-METHYLSTYRENE	-	ug/l	--	--	< 0.2	--	--	< 0.2	--	--	--
ACETONE	-	ug/l	--	18.86	--	--	--	--	--	--	--
BENZENE	5	ug/l	--	TR	< 2	--	--	< 2	--	--	TR
BROMOFORM	-	ug/l	--	< 1.0	< 2	--	--	< 2	--	--	< 1.0
BROMOMETHANE	-	ug/l	--	< 2.0	< 0.2	--	--	< 0.2	--	--	< 2.0
CARBON TETRACHLORIDE	5	ug/l	--	< 1.0	< 1	--	--	< 1	--	--	< 1.0
CHLOROBENZENE	80	ug/l	--	< 0.5	< 0.2	--	--	< 0.2	--	--	< 0.5
CHLOROETHANE	-	ug/l	--	< 2.0	< 0.2	--	--	< 0.2	--	--	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 14(b)

COMPOUND (by Class)	MOE Obj.	Units	MB16-1 Aug.'87	MB16-1 Feb.'88	MB16-2 Dec.'87	MB16-3 Jun.'87	MB16-3 Aug.'87	MB16-3 Dec.'87	MB17-1 Jun.'87	MB17-1 Aug.'87	MB17-1 Feb.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CHLOROFORM	-	ug/l	--	< 1.0	0.6	--	--	< 0.2	--	--	TR
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	< 0.5	--	--	< 0.5	--	--	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1.0	< 0.2	--	--	< 0.2	--	--	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	--	< 1.0	< 0.2	--	--	< 0.2	--	--	< 1.0
DICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	--	--	--	< 2.0
ETHYLBENZENE	2.4	ug/l	--	TR	< 0.2	--	--	1.4	--	--	TR
M&P-XYLENE	-	ug/l	--	TR	< 0.3	--	--	0.6	--	--	< 0.5
MESITYLENE	-	ug/l	--	--	< 0.2	--	--	< 0.2	--	--	--
METHYL CHLORIDE	-	ug/l	--	< 2.0	< 0.2	--	--	< 0.2	--	--	< 2.0
METHYLENE CHLORIDE	50	ug/l	--	1.12	< 10	--	--	< 10	--	--	1.97
METHYLSTYRENE ISOMERS	-	ug/l	--	--	< 0.2	--	--	< 0.2	--	--	--
O-XYLENE	-	ug/l	--	< 0.5	< 0.2	--	--	< 0.2	--	--	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	< 0.2	--	--	< 0.2	--	--	--
STYRENE	-	ug/l	--	23.4	< 0.2	--	--	75	--	--	4.80
TETRACHLOROETHYLENE	-	ug/l	--	< 1.0	< 0.2	--	--	< 0.2	--	--	< 1.0
TOLUENE	24	ug/l	--	26.19	< 0.3	--	--	90	--	--	20.21
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 1.0	< 0.2	--	--	< 0.2	--	--	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	< 1.0
TRICHLOROETHYLENE	50	ug/l	--	< 1.0	< 0.2	--	--	< 0.2	--	--	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	< 0.5	--	--	< 0.5	--	--	< 2.0
VINYL CHLORIDE	-	ug/l	--	< 2.0	< 0.5	--	--	< 0.5	--	--	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 15(a)

COMPOUND (by Class)	MOE Obj.	Units	MB17-1 Feb.'88 (Dupl)	MB17-3 Jun.'87	Jun.'87 (Dupl)	Aug.'87	Dec.'87	MB18-1 Jun.'87	Aug.'87	MB18-2 Dec.'87	Feb.'88
GENERAL CHEMISTRY											
AMMONIA NITROGEN	-	mg/l	--	7.52	7.56	7.66	3.70	0.04	0.26	2.40	--
CONDUCTIVITY	-	umhos/cm	--	18400	16900	18760	26200	1530	1630	13150	--
FREE AMMONIA	-	mg/l	--	9.17	9.22	9.34	4.51	0.05	0.32	2.93	--
KJELDAHL NITROGEN	-	mg/l	--	10.70	11.00	9.94	5.90	3.52	0.38	6.20	--
ORGANIC NITROGEN	0.150	mg/l	--	3.18	3.44	2.28	2.20	3.48	0.12	3.80	--
PH	6.5-8.5		--	6.79	6.78	6.93	6.80	7.15	7.02	8.60	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	--	--	--	< 0.2	--	--	< 0.2	< 1.0
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 1.0	--	--	--	< 2	--	--	< 2	< 1.0
1,1,2-TRICHLOROETHANE	-	ug/l	< 1.0	--	--	--	< 0.5	--	--	< 0.5	< 1.0
1,1-DICHLOROETHANE	-	ug/l	< 1.0	--	--	--	< 0.2	--	--	< 0.2	< 1.0
1,1-DICHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	< 0.2	--	--	< 0.2	< 1.0
1,2-DICHLOROBENZENE	200	ug/l	< 1.0	--	--	--	< 0.3	--	--	< 0.3	< 1.0
1,2-DICHLOROETHANE	5	ug/l	< 1.0	--	--	--	< 0.2	--	--	< 0.2	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 1.0	--	--	--	< 0.2	--	--	< 0.2	< 1.0
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	--	--	--	< 0.3	--	--	< 0.3	< 1.0
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	--	--	--	< 0.3	--	--	< 0.3	< 1.0
2-BUTANONE	-	ug/l	ND	--	--	--	--	--	--	--	1040
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	< 10	--	--	< 10	--
A-METHYLSTYRENE	-	ug/l	--	--	--	--	< 0.2	--	--	0.7	--
ACETONE	-	ug/l	ND	--	--	--	--	--	--	--	235.39
BENZENE	5	ug/l	TR	--	--	--	< 2	--	--	< 2	1.0
BROMOFORM	-	ug/l	< 1.0	--	--	--	< 2	--	--	< 2	< 1.0
BROMOMETHANE	-	ug/l	< 2.0	--	--	--	< 0.2	--	--	< 0.2	< 2.0
CARBON TETRACHLORIDE	5	ug/l	< 1.0	--	--	--	< 1	--	--	< 1	< 1.0
CHLOROBENZENE	80	ug/l	< 0.5	--	--	--	< 0.2	--	--	< 0.2	< 0.5
CHLOROETHANE	-	ug/l	< 2.0	--	--	--	< 0.2	--	--	< 0.2	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 15(b)

COMPOUND (by Class)	MOE Obj.	Units	MB17-1 Feb.'88 (Dupl)	MB17-3 Jun.'87	Jun.'87 (Dupl)	Aug.'87	Dec.'87	MB18-1 Jun.'87	Aug.'87	MB18-2 Dec.'87	Feb.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CHLOROFORM	-	ug/l	< 1.0	--	--	--	0.4	--	--	< 0.2	TR
CIS-1,2-DICHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	--	< 0.5	--	--	< 0.5	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	--	--	--	< 0.2	--	--	< 0.2	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	< 1.0	--	--	--	< 0.2	--	--	< 0.2	< 1.0
DICHLOROFLUOROMETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	--	< 2.0
ETHYLBENZENE	2.4	ug/l	TR	--	--	--	< 0.2	--	--	1.1	0.87
M&P-XYLENE	-	ug/l	< 0.5	--	--	--	< 0.3	--	--	3.1	0.76
MESITYLENE	-	ug/l	--	--	--	--	< 0.2	--	--	0.4	--
METHYL CHLORIDE	-	ug/l	< 2.0	--	--	--	< 0.2	--	--	< 0.2	< 2.0
METHYLENE CHLORIDE	50	ug/l	1.62	--	--	--	< 10	--	--	< 10	7.27
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	< 0.2	--	--	< 0.2	--
O-XYLENE	-	ug/l	< 0.5	--	--	--	< 0.2	--	--	< 0.2	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	< 0.2	--	--	< 0.2	--
STYRENE	-	ug/l	6.25	--	--	--	1.9	--	--	80	49.15
TETRACHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	< 0.2	--	--	< 0.2	< 1.0
THF	-	ug/l	ND	--	--	--	--	--	--	--	21.90
TOLUENE	24	ug/l	16.81	--	--	--	11	--	--	170	117.85
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	< 0.2	--	--	< 0.2	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	< 1.0
TRICHLOROETHYLENE	50	ug/l	< 1.0	--	--	--	< 0.2	--	--	< 0.2	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	< 2.0	--	--	--	< 0.5	--	--	< 0.5	< 2.0
VINYL CHLORIDE	-	ug/l	< 2.0	--	--	--	< 0.5	--	--	< 0.5	< 2.0

000388

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 16(a)

COMPOUND (by Class)	MOE Obj.	Units	OW1A-93 Mar.'93	OW1A-93 Apr.'93	OW1B-93 Mar.'93	OW1B-93 Apr.'93	OW2A-93 Mar.'93	OW2A-93 Apr.'93	OW2B-93 Mar.'93	OW2B-93 Apr.'93	OW3-93 Mar.'93
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	142	41.4	187	207	289	320	489	466	429
AMMONIA NITROGEN	-	mg/l	--	10.0	--	5.80	--	2.60	--	0.08	--
CHLORIDE	250	mg/l	5780	5994	1150	936	370	78.5	96	68.9	71
CONDUCTIVITY	-	umhos/cm	10300	2000	4100	3800	2100	2050	1000	925	790
KJELDAHL NITROGEN	-	mg/l	--	10.2	--	6.48	--	2.82	--	1.43	--
PH	6.5-8.5		7.65	9.28	7.15	6.68	6.85	6.90	6.90	6.95	7.02
PHENOLS	-	ug/l	--	1.8	--	< 1.0	--	< 1.0	--	< 1.0	--
SULFATE	500	mg/l	2380	--	1770	--	1300	--	263	--	116
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	1.5	< 0.2	< 1.0	< 0.2
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0
1,1,2-TRICHLOROETHANE	-	ug/l	< 0.5	< 2.0	< 0.5	< 2.0	< 0.5	< 2.0	< 0.5	< 2.0	< 0.5
1,1-DICHLOROETHANE	-	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2
1,1-DICHLOROETHYLENE	-	ug/l	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5
1,2-DIBROMOETHANE	-	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	< 1.0	--	< 1.0
1,2-DICHLOROBENZENE	200	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2
1,2-DICHLOROETHANE	5	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2
1,2-DICHLOROPROPANE	-	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2
1,3-DICHLOROBENZENE	-	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2
1,4-DICHLOROBENZENE	5	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	0.2	< 1.0	< 0.2
2-CHLOROETHYLVINYLETHER	-	ug/l	--	< 10	--	< 10	--	< 10	--	< 10	--
BENZENE	5	ug/l	0.4	< 0.5	< 0.1	< 0.5	0.1	< 0.5	0.2	< 0.5	< 0.1
BROMOFORM	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
BROMOMETHANE	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
CARBON TETRACHLORIDE	5	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2
CHLOROBENZENE	80	ug/l	< 0.2	< 0.5	< 0.2	< 0.5	< 0.2	< 0.5	< 0.2	< 0.5	< 0.2
CHLOROETHANE	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 16(b)

COMPOUND (by Class)	MOE Obj.	Units	OW1A-93 Mar.'93	OW1A-93 Apr.'93	OW1B-93 Mar.'93	OW1B-93 Apr.'93	OW2A-93 Mar.'93	OW2A-93 Apr.'93	OW2B-93 Mar.'93	OW2B-93 Apr.'93	OW3-93 Mar.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CHLOROFORM	-	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2
CIS-1,2-DICHLOROETHYLENE	-	ug/l	< 0.2	--	< 0.2	--	< 0.2	--	< 0.2	--	< 0.2
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	< 0.2	< 2.0	< 0.2	< 2.0	< 0.2	< 2.0	< 0.2	< 2.0	< 0.2
ETHYLBENZENE	2.4	ug/l	0.4	< 0.5	0.2	< 0.5	0.2	< 0.5	< 0.2	< 0.5	< 0.2
M&P-XYLENE	-	ug/l	1.1	< 0.5	0.6	< 0.5	0.7	< 0.5	0.3	< 0.5	0.3
METHYL CHLORIDE	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
METHYLENE CHLORIDE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
O-XYLENE	-	ug/l	0.7	< 0.5	0.2	< 0.5	0.3	< 0.5	0.1	< 0.5	0.1
STYRENE	-	ug/l	< 0.2	--	< 0.2	--	< 0.2	--	< 0.2	--	< 0.2
TETRACHLOROETHYLENE	-	ug/l	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5
TOLUENE	24	ug/l	3.9	< 0.5	0.5	< 0.5	1.2	< 0.5	0.3	< 0.5	0.3
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5
TRICHLOROETHYLENE	50	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2
TRICHLOROFLUOROMETHANE	-	ug/l	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0
VINYL CHLORIDE	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

000390

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 17(a)

COMPOUND (by Class)	MOE Obj.	Units	OW3-93 Mar.'93 (Dupl)	OW3-93 Apr.'93	OW4-93 Mar.'93	OW4-93 Apr.'93	OW6-87 Jul.'93	OW7-87 Jul.'93	OW8-87 Jul.'93	OW10-87 Jul.'93	OW12-87 Jul.'93
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	428	438	407	440	--	--	--	--	--
AMMONIA NITROGEN	-	mg/l	--	0.74	--	0.18	--	--	--	--	--
CHLORIDE	250	mg/l	73	49.8	112	32.6	--	--	--	--	--
CONDUCTIVITY	-	umhos/cm	--	820	1340	1200	610	1000	800	840	820
KJELDAHL NITROGEN	-	mg/l	--	1.14	--	1.64	--	--	--	--	--
PH	6.5-8.5		--	7.02	7.05	7.06	8.4	8.2	8.4	8.3	8.4
PHENOLS	-	ug/l	--	< 1.0	--	< 1.0	--	--	--	--	--
SULFATE	500	mg/l	117	--	1050	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 0.2	1.1	< 0.2	< 1.0	--	--	--	--	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 1.0	< 2.0	< 1.0	< 2.0	--	--	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	< 0.5	< 2.0	< 0.5	< 2.0	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	--	--	--	--	--
1,1-DICHLOROETHYLENE	-	ug/l	< 0.5	< 1.0	< 0.5	< 1.0	--	--	--	--	--
1,2-DIBROMOETHANE	-	ug/l	< 1.0	--	< 1.0	--	--	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	< 0.2	< 1.0	0.1	< 1.0	--	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	--	--	--	--	--
1,2-DICHLOROPROPANE	-	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	--	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	--	--	--	--	--
1,4-DICHLOROBENZENE	5	ug/l	< 0.2	< 1.0	1.6	< 1.0	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	< 10	--	< 10	--	--	--	--	--
BENZENE	5	ug/l	< 0.1	< 0.5	1.9	< 0.5	--	--	--	--	--
BROMOFORM	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--
BROMOMETHANE	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--
CARBON TETRACHLORIDE	5	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	--	--	--	--	--
CHLOROBENZENE	80	ug/l	< 0.2	< 0.5	63.3	11	--	--	--	--	--
CHLOROETHANE	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 17(b)

COMPOUND (by Class)	MOE Obj.	Units	OW3-93 Mar.'93 (Dupl)	OW3-93 Apr.'93	OW4-93 Mar.'93	OW4-93 Apr.'93	OW6-87 Jul.'93	OW7-87 Jul.'93	OW8-87 Jul.'93	OW10-87 Jul.'93	OW12-87 Jul.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CHLOROFORM	-	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	< 0.2	--	< 0.2	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 0.5	< 1.0	< 0.5	< 1.0	--	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	< 0.2	< 2.0	< 0.2	< 2.0	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	< 0.2	< 0.5	< 0.2	< 0.5	--	--	--	--	--
M&P-XYLENE	-	ug/l	0.2	< 0.5	1.4	< 0.5	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--
METHYLENE CHLORIDE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	--	--	--
O-XYLENE	-	ug/l	0.1	< 0.5	0.6	< 0.5	--	--	--	--	--
STYRENE	-	ug/l	< 0.2	--	< 0.2	--	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	< 0.5	< 1.0	< 0.5	< 1.0	--	--	--	--	--
TOLUENE	24	ug/l	0.1	< 0.5	1.1	< 0.5	--	--	--	--	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 0.5	< 1.0	< 0.5	< 1.0	--	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	< 0.2	< 1.0	< 0.2	< 1.0	--	--	--	--	--
TRICHLOROFLUOROMETHANE	-	ug/l	< 1.0	< 2.0	< 1.0	< 2.0	--	--	--	--	--
VINYL CHLORIDE	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 18(a)

COMPOUND (by Class)	MOE Obj.	Units	OW13-88 Jul.'93	PW1 May.'88	Aug.'88	Jul.'89	Jul.'89 (Dupl)	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Sep.'90
METALS											
TOTAL PHOSPHORUS	-	mg/l	--	--	--	--	--	--	--	--	< 0.005
BIOLOGICAL TESTING											
FAECAL COLIFORM	0/100ml/100ml		--	< 1	< 1	--	--	--	--	--	--
FAECAL STREPTOCOCCI	0/100ml/100ml		--	< 1	< 1	--	--	--	--	--	--
TOTAL COLIFORMS	5/100ml/100ml		--	< 1	< 1	--	--	--	--	--	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	--	643	112	61.3	65.7	123	121	80	49.4
AMMONIA NITROGEN	-	mg/l	--	< 0.02	3.39	8.09	8.09	2.77 J	2.78 J	6.45	5.27
BOD	-	mg/l	--	--	--	--	--	--	--	--	< 5
CHLORIDE	250	mg/l	--	2600	695	2410	2450	614	650	2251	2209
COD	-	mg/l	--	--	--	--	--	--	--	--	90
CONDUCTIVITY	-	umhos/cm	920	> 10000	36200	7120	7120	2930	2930	6390	6890
FLUORIDE	1.5	mg/l	--	--	--	--	--	--	--	--	0.4
HARDNESS	80-100	mg/l	--	--	--	--	--	--	--	--	2100
KJELDAHL NITROGEN	-	mg/l	--	5.37	3.35	8.65	8.45	2.99 J	3.72 J	8.40	5.77
PH	6.5-8.5		8.4	7.3	7.65	7.47	7.47	7.30	7.30	7.44	6.83
PHENOLS	-	ug/l	--	< 1.0	--	--	--	--	--	< 1	< 1
SULFATE	500	mg/l	--	2420	1330	1930	2180	1348	1470	--	2746
TOTAL SUSPENDED SOLIDS	-	mg/l	--	--	--	--	--	--	--	--	8
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 2	< 1.0	< 0.24	< 0.24	< 0.50	< 0.50	< 0.50 UJ	< 1.0
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	< 2	< 1.0	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33 UJ	< 2.0
1,1,2-TRICHLOROETHANE	-	ug/l	--	< 1	< 1.0	--	--	< 0.21	< 0.21	< 0.21 UJ	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 18(b)

COMPOUND (by Class)	MOE Obj.	Units	OW13-88 Jul.'93	PW1 May.'88	Aug.'88	Jul.'89	Jul.'89 (Dupl)	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Sep.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1,2-TRICHLOROETHYLENE	-	ug/l	--	--	--	0.21 U	0.21 U	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	--	< 1	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20 UJ	< 1.0
1,1-DICHLOROETHYLENE	-	ug/l	--	< 1	< 1.0	0.32 U	0.32 U	< 0.32	< 0.32	< 0.32 UJ	< 1.0
1,2,4-TRICHLOROBENZENE	-	ug/l	--	--	--	--	--	< 0.50	< 0.50	< 0.50 UJ	--
1,2-DICHLOROBENZENE	200	ug/l	--	< 1	< 1.0	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 UJ	< 1.0
1,2-DICHLOROETHANE	5	ug/l	--	< 2	< 1.0	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82 UJ	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	< 1	< 1.0	0.22	< 0.20	< 0.20	< 0.20	< 0.20 UJ	< 1.0
1,3-DICHLOROBENZENE	-	ug/l	--	< 1	< 1.0	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23 UJ	< 1.0
1,4-DICHLOROBENZENE	5	ug/l	--	< 1	< 1.0	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22 UJ	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	< 10	--	< 0.40	< 0.40	< 0.50	< 0.50	< 0.50 UJ	< 10
A-METHYLSTYRENE	-	ug/l	--	< 1	--	--	--	--	--	--	--
BENZENE	5	ug/l	--	< 1	< 0.5	0.50 U	0.5 U	< 0.19	< 0.19	< 0.19 UJ	< 0.5
BROMOFORM	-	ug/l	--	< 2	< 1.0	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49 UJ	< 2.0
BROMOMETHANE	-	ug/l	--	< 16	< 2.0	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83 UJ	< 2.0
CARBON TETRACHLORIDE	5	ug/l	--	< 2	< 1.0	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93 UJ	< 1.0
CHLOROBENZENE	80	ug/l	--	< 1	< 0.5	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27 UJ	< 0.5
CHLOROETHANE	-	ug/l	--	< 10	< 2.0	< 0.40	< 0.40	< 0.50	< 0.50	< 0.50 UJ	< 2.0
CHLOROFORM	-	ug/l	--	< 1	1.98	< 0.51	< 0.51	< 0.51	3.1 U	< 0.51 UJ	< 1.0
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	< 1.0	--	--	--	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1	< 1.0	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27 UJ	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1	< 1.0	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 UJ	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	--	< 1	< 1.0	< 0.24	< 0.24	< 0.50	< 0.50	< 0.50 UJ	< 2.0
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	< 0.50	< 0.50	< 0.50 UJ	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	< 2.0	--	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	--	< 1	< 0.5	0.24 U	0.24 U	< 0.24	< 0.24	< 0.24 UJ	< 0.5
M&P-XYLENE	-	ug/l	--	< 2	< 0.5	--	--	0.30	0.34	< 0.21 UJ	--
MESITYLENE	-	ug/l	--	< 1	--	--	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	--	< 50	< 2.0	< 0.65	< 0.65	0.73 U	1.88 U	< 0.65 UJ	< 2.0
METHYLENE CHLORIDE	50	ug/l	--	< 10	19.12	0.92 UJ	1.73 UJ	2.5	11.4	84 J	13 U

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 18(c)

COMPOUND (by Class)	MOE Obj.	Units	OW13-88 Jul.'93	PW1 May.'88	Aug.'88	Jul.'89	Jul.'89 (Dupl)	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Sep.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)											
METHYLSTYRENE ISOMERS	-	ug/l	--	< 1	--	--	--	--	--	--	--
O-XYLENE	-	ug/l	--	< 1	< 0.5	--	--	< 0.19	< 0.19	< 0.19 UJ	--
OTHER AROMATIC COMPOUNDS	-	ug/l	--	< 1	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	--	< 1	< 1.0	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21 UJ	< 1.0
TOLUENE	24	ug/l	--	3.7	< 0.5	0.32 U	0.38 U	1.09	1.27	< 0.24 UJ	0.5 U
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 1	< 1.0	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20 UJ	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	--	--	--	--	--	< 1.0
TRICHLOROETHYLENE	50	ug/l	--	< 1	< 1.0	< 0.39	< 0.39	< 0.92	< 0.92	< 0.92 UJ	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2	< 2.0	< 0.26	< 0.26	< 0.26	0.29	< 0.26 UJ	< 2.0
VINYL CHLORIDE	-	ug/l	--	< 12	< 2.0	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74 UJ	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 19(a)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Apr.'91	Apr.'91 (Dupl)	Jul.'91	Jul.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	Apr.'93 (Dupl)	Jul.'93
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	84	81	98	83	76	65	93.4	93.8	55.6
AMMONIA NITROGEN	-	mg/l	6.39	7.85	1.59	1.99	7.24	7.32	6.50	7.00	5.72
CHLORIDE	250	mg/l	4916	5801	3077	2502	2288	2424	2536	2095	2510
CONDUCTIVITY	-	umhos/cm	5550	--	4880	--	5680	14500	5800	--	7200
KJELDAHL NITROGEN	-	mg/l	8.94	9.99	2.90	3.19	9.10	8.03	6.63	7.44	6.46
PH	6.5-8.5		7.0	--	7.4	--	7.21	7.42	7.17	--	7.8
PHENOLS	-	ug/l	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	--	--	--	--	--	< 2.0	< 2.0	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	< 2.0	< 2.0	--
1,1-DICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	< 1.0	< 1.0	--
1,2-DICHLOROBENZENE	200	ug/l	--	--	--	--	--	--	< 1.0	< 1.0	--
1,2-DICHLOROETHANE	5	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	--	--	< 1.0	< 1.0	--
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	--	< 10	< 10	--
BENZENE	5	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	-	ug/l	--	--	--	--	--	--	< 2.0	< 2.0	--
BROMOMETHANE	-	ug/l	--	--	--	--	--	--	< 2.0	< 2.0	--
CARBON TETRACHLORIDE	5	ug/l	--	--	--	--	--	--	< 1.0	< 1.0	--
CHLOROBENZENE	80	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	--	--	--	--	--	--	< 2.0	< 2.0	--
CHLOROFORM	-	ug/l	--	--	--	--	--	--	< 1.0	< 1.0	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	--	--	< 1.0	< 1.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 19(b)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Apr.'91	Apr.'91 (Dupl)	Jul.'91	Jul.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	Apr.'93 (Dupl)	Jul.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	--	--	< 1.0	< 1.0	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	--	--	< 2.0	< 2.0	--
ETHYLBENZENE	2.4	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYL CHLORIDE	-	ug/l	--	--	--	--	--	--	< 2.0	< 2.0	--
METHYLENE CHLORIDE	50	ug/l	--	--	--	--	--	--	< 1.0	< 1.0	--
O-XYLENE	-	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TOLUENE	24	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	< 1.0	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	--	--	< 1.0	< 1.0	--
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
TRICHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	< 2.0	< 2.0	--
VINYL CHLORIDE	-	ug/l	--	--	--	--	--	--	< 2.0	< 2.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 20(a)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Jul.'93 (Dupl)	PW3 May.'88	May.'88 (Dupl)	Aug.'88	Aug.'88 (Dupl)	Jul.'89	Nov.'89	Apr.'90	Apr.'90 (Dupl)
BIOLOGICAL TESTING											
FAECAL COLIFORM	0/100ml/100ml		--	< 1	< 1	< 1	< 1	--	--	--	--
FAECAL STREPTOCOCCI	0/100ml/100ml		--	< 1	< 1	< 1	< 1	--	--	--	--
TOTAL COLIFORMS	5/100ml/100ml		--	< 1	< 1	60	60	--	--	--	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	56.2	563	559	568	568	648	666	528	534
AMMONIA NITROGEN	-	mg/l	5.50	< 0.02	< 0.02	1.87	1.87	1.04	0.89 J	2.26	1.90
CHLORIDE	250	mg/l	2488	938	948	850	970	580	516	964	844
CONDUCTIVITY	-	umhos/cm	--	4050	4050	4810	4810	2800	2880	3770	3770
KJELDAHL NITROGEN	-	mg/l	6.42	1.91	1.73	2.42	3.19	1.04	1.22 J	3.32	3.46
PH	6.5-8.5		--	6.5	6.5	6.81	6.81	6.55	7.00	6.76	6.76
PHENOLS	-	ug/l	< 1.0	< 1.0	4	--	--	--	--	1	< 1
SULFATE	500	mg/l	--	935	950	927	957	1020	1972	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	--	< 2	< 1.0	< 1.0	< 0.24	< 0.50	< 0.50 UJ	< 0.50 UJ
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	--	< 2	< 1.0	< 1.0	< 0.33	< 0.33	< 0.33 UJ	< 0.33 UJ
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	< 1	< 1.0	< 1.0	--	0.21 U	< 0.21 UJ	< 0.21 UJ
1,1,2-TRICHLOROETHYLENE	-	ug/l	--	--	--	--	--	< 0.21	--	--	--
1,1-DICHLOROETHANE	-	ug/l	< 1.0	--	< 1	< 1.0	< 1.0	< 0.20	0.39	< 0.20 UJ	< 0.20 UJ
1,1-DICHLOROETHYLENE	-	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.32	< 0.32	< 0.32 UJ	< 0.32 UJ
1,2,4-TRICHLOROBENZENE	-	ug/l	--	--	--	--	--	--	< 0.50	< 0.50 UJ	< 0.50 UJ
1,2-DICHLOROBENZENE	200	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.24	< 0.24	< 0.24 UJ	< 0.24 UJ
1,2-DICHLOROETHANE	5	ug/l	< 1.0	--	< 2	< 1.0	< 1.0	< 0.82	< 0.82	< 0.82 UJ	< 0.82 UJ
1,2-DICHLOROPROPANE	-	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.20	< 0.20	< 0.20 UJ	< 0.20 UJ
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	--	< 1	< 1.0	< 1.0	< 0.23	< 0.23	< 0.23 UJ	< 0.23 UJ
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	--	< 1	< 1.0	< 1.0	0.65	0.75	< 0.22 UJ	< 0.22 UJ

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 20(b)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Jul.'93 (Dupl)	PW3 May.'88	May.'88 (Dupl)	Aug.'88	Aug.'88 (Dupl)	Jul.'89	Nov.'89	Apr.'90	Apr.'90 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	< 10	--	--	< 0.40	< 0.50	< 0.50 UJ	< 0.50 UJ
A-METHYLSTYRENE	-	ug/l	--	--	< 1	--	--	--	--	--	--
BENZENE	5	ug/l	< 0.5	--	< 1	< 0.5	< 0.5	< 0.50	0.19 U	< 0.19 UJ	1.3 J
BROMOFORM	-	ug/l	--	--	< 2	< 1.0	< 1.0	< 0.49	0.49 U	< 0.49 UJ	< 0.49 UJ
BROMOMETHANE	-	ug/l	--	--	< 16	< 2.0	< 2.0	< 0.83	0.83 U	9.1 J	24 J
CARBON TETRACHLORIDE	5	ug/l	--	--	< 2	< 1.0	< 1.0	< 0.93	< 0.93	< 0.93 UJ	< 0.93 UJ
CHLOROBENZENE	80	ug/l	< 0.5	--	4	TR	TR	< 0.27	< 0.27	< 0.27 UJ	3.0 J
CHLOROETHANE	-	ug/l	--	--	< 10	< 2.0	< 2.0	< 0.40	< 0.50	< 0.50 UJ	< 0.50 UJ
CHLOROFORM	-	ug/l	--	--	< 1	TR	< 1.0	< 0.51	< 0.51 UJ	< 0.51 UJ	< 0.51 UJ
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.27	< 0.27	< 0.27 UJ	< 0.27 UJ
DIBROMOCHLOROMETHANE	-	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.24	< 0.24	< 0.24 UJ	< 0.24 UJ
DICHLOROBROMOMETHANE	-	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.24	< 0.50	< 0.50 UJ	< 0.50 UJ
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	< 0.50	< 0.50 UJ	< 0.50 UJ
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	--
ETHYLBENZENE	2.4	ug/l	< 0.5	--	< 1	< 0.5	< 0.5	< 0.24	< 0.24	< 0.24 UJ	< 0.24 UJ
M&P-XYLENE	-	ug/l	< 0.5	--	< 2	< 0.5	< 0.5	--	< 0.21	< 0.21 UJ	< 0.21 UJ
MESITYLENE	-	ug/l	--	--	< 1	--	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	--	--	< 50	< 2.0	< 2.0	0.74	< 0.65 UJ	< 0.65 UJ	< 0.65 UJ
METHYLENE CHLORIDE	50	ug/l	--	--	12	< 1.0	< 1.0	< 0.92	4.6 J	< 0.92 UJ	5.2 J
METHYLSTYRENE ISOMERS	-	ug/l	--	--	< 1	--	--	--	--	--	--
O-XYLENE	-	ug/l	< 0.5	--	< 1	< 0.5	< 0.5	--	0.19 U	< 0.19 UJ	< 0.19 UJ
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	< 1	--	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	< 1.0	--	< 1	< 1.0	< 1.0	< 0.21	< 0.21	< 0.21 UJ	< 0.21 UJ
TOLUENE	24	ug/l	< 0.5	--	2.7	< 0.5	< 0.5	< 0.24	< 0.24	< 0.24 UJ	< 0.24 UJ
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.20	0.20 U	< 0.20 UJ	< 0.20 UJ
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	< 1.0	< 1.0	< 0.10	--	--	--
TRICHLOROETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.39	< 0.92	< 0.92 UJ	< 0.92 UJ

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 20(c)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Jul.'93 (Dupl)	PW3 May.'88	May.'88 (Dupl)	Aug.'88	Aug.'88 (Dupl)	Jul.'89	Nov.'89	Apr.'90	Apr.'90 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	< 2	< 2.0	< 2.0	< 0.26	< 0.26	< 0.26 UJ	< 0.26 UJ
VINYL CHLORIDE	-	ug/l	--	--	< 12	< 2.0	< 2.0	< 0.74	< 0.74	< 0.74 UJ	< 0.74 UJ

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 21(a)

COMPOUND (by Class)	MOE Obj.	Units	PW3 Sep.'90	Apr.'91	Jul.'91	Apr.'92	Apr.'92 (Dupl)	Jul.'92	Jul.'92 (Dupl)	Apr.'93	Jul.'93
METALS											
TOTAL PHOSPHORUS	-	mg/l	0.158	--	--	--	--	--	--	--	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	527	566	562	557	568	438	439	541	513
AMMONIA NITROGEN	-	mg/l	0.87	1.54	0.76	1.00	1.02	0.96	1.10	2.60	0.64
BOD	-	mg/l	26	--	--	--	--	--	--	--	--
CHLORIDE	250	mg/l	595	626	979	620	592	583	578	677	458
COD	-	mg/l	65	--	--	--	--	--	--	--	--
CONDUCTIVITY	-	umhos/cm	2910	2190	2390	2600	2600	6400	6400	2800	2400
FLUORIDE	1.5	mg/l	< 0.1	--	--	--	--	--	--	--	--
HARDNESS	80-100	mg/l	1740	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	-	mg/l	2.00	1.95	1.52	1.32	1.24	1.63	1.15	2.87	1.53
PH	6.5-8.5		6.87	6.5	6.6	7.37	7.37	8.04	8.04	6.92	8.0
PHENOLS	-	ug/l	< 1	1	< 1	< 1	< 1	< 1.0	2	< 1.0	< 1.0
SULFATE	500	mg/l	1648	--	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	-	mg/l	820	--	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
1,1,2-TRICHLOROETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
1,1-DICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
1,1-DICHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
1,2-DICHLOROBENZENE	200	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
1,2-DICHLOROETHANE	5	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
1,2-DICHLOROPROPANE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 21(b)

COMPOUND (by Class)	MOE Obj.	Units	PW3 Sep.'90	Apr.'91	Jul.'91	Apr.'92	Apr.'92 (Dupl)	Jul.'92	Jul.'92 (Dupl)	Apr.'93	Jul.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
2-CHLOROETHYLVINYLETHER	-	ug/l	< 10	--	--	--	--	--	--	< 10	--
BENZENE	5	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
BROMOFORM	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
BROMOMETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
CARBON TETRACHLORIDE	5	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
CHLOROBENZENE	80	ug/l	1.9	1.7	2.5	2.6	3.3	3.0	2.9	< 0.5	--
CHLOROETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
CHLOROFORM	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
DICHLOROBROMOMETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
ETHYLBENZENE	2.4	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
M&P-XYLENE	-	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
METHYL CHLORIDE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
METHYLENE CHLORIDE	50	ug/l	18.9 U	--	--	--	--	--	--	< 1.0	--
O-XYLENE	-	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
TETRACHLOROETHYLENE	-	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
TOLUENE	24	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
TRICHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
TRICHLOROFLUOROMETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
VINYL CHLORIDE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--

LEGEND (MOE Obj.: Ontario Surface Water or Groundwater Objectives, revised July 1993)

J - The associated value is an estimated quantity.
U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ - The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.
-- - The parameter was not analyzed.
ND - The material was analyzed, but not detected above an unstated method detection limit.
TR - Trace level detection.
< - Indicates result less than that shown.
> - Indicates result greater than that shown.
R - The data was not useable.
NS - Insufficient sample.
p - Proposed MOE Surface Water Objective.
* - for PH >6.5 to 9.0
*** - a) Cadmium-0.15 ug/l (if hardness 0-100) b) Copper-1 ug/l (if hardness 0-20)
0.45 ug/l (if hardness >100) 5 ug/l (if hardness >20)
c) Lead-1 ug/l (if hardness 0-30) d) Beryllium- 11 ug/l (if hardness <75)
3 ug/l (if hardness 30-80) 1100 ug/l (if hardness >75)
5 ug/l (if hardness >80)
(a) - Indicates units were /50ml rather than that shown.
- for pH of 6.5 to 9.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 1(a)

COMPOUND (by Class)	Units	LW1 May.'86	May.'88	LW2 May.'86	May.'88	LW3 May.'86	May.'88	May.'88 (Dupl)	LW4 May.'86	May.'86 (Dupl)
ACID EXTRACTABLES										
2,4,6-TRICHLOROPHENOL	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
2,4-DICHLOROPHENOL	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
2,4-DIMETHYL PHENOL	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
2,4-DINITROPHENOL	ug/l	< 25.0	--	< 25.0	--	< 5.0	--	--	< 5.0	< 5.0
2-CHLOROPHENOL	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
2-NITROPHENOL	ug/l	< 5.0	--	< 5.0	--	< 5.0	--	--	< 5.0	< 5.0
4,6-DINITRO-O-CRESOL	ug/l	< 3.0	--	< 3.0	--	< 3.0	--	--	< 3.0	< 3.0
4-NITROPHENOL	ug/l	< 5.0	--	< 5.0	--	< 25.0	--	--	< 5.0	< 5.0
P-CHLORO-M-CRESOL	ug/l	< 5.0	--	< 5.0	--	< 5.0	--	--	< 5.0	< 5.0
PENTACHLOROPHENOL	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
PHENOL	ug/l	< 3.0	--	< 3.0	--	< 3.0	--	--	< 3.0	< 3.0
BASE/NEUTRAL EXTRACTABLES										
1,2,4-TRICHLOROBENZENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,2-DICHLOROBENZENE	ug/l	< 1.0	--	< 1.0	--	5.8	--	--	2.0	< 1.0
1,2-DIPHENYLHYDRAZINE	ug/l	< 5.0	--	< 5.0	--	< 5.0	--	--	< 5.0	< 5.0
1,3-DICHLOROBENZENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,4-DICHLOROBENZENE	ug/l	45.8	--	10.0	--	58.2	--	--	12.1	< 1.0
2,4-DINITROTOLUENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
2,6-DINITROTOLUENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
2-CHLORONAPHTHALENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
3,3'-DICHLOROBENZIDINE	ug/l	< 5.0	--	< 5.0	--	< 5.0	--	--	< 5.0	< 5.0
4-BROMOPHENYL PHENYL ETHER	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
4-CHLOROPHENYL PHENYL ETHER	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
9H-FLUORENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
ACENAPHTHENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
ACENAPHTHYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
ANTHRACENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 1(b)

COMPOUND (by Class)	Units	LW1 May.'86	LW1 May.'88	LW2 May.'86	LW2 May.'88	LW3 May.'86	LW3 May.'88	LW3 May.'88 (Dupl)	LW4 May.'86	LW4 May.'86 (Dupl)
BASE/NEUTRAL EXTRACTABLES (cont'd)										
BENZIDINE	ug/l	< 5.0	--	< 5.0	--	< 5.0	--	--	< 5.0	< 5.0
BENZO(A)ANTHRACENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
BENZO(A)PYRENE	ug/l	TR	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
BENZO(GHI)PERYLENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
BENZO(K)FLUORANTHENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
BIS(2-CHLOROETHOXY)METHANE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
BIS(2-CHLOROETHYL)ETHER	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	100.5	--	67.0	--	5.5	--	--	4.8	7.3
BUTYL BENZYL PHTHALATE	ug/l	54.5	--	21.4	--	18.8	--	--	6.4	3.2
CHRYSENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
DI-N-BUTYL PHTHALATE	ug/l	< 1.0	--	< 1.0	--	8.2	--	--	16.9	3.5
DI-N-OCTYL PHTHALATE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
DIBENZO(A,H)ANTHRACENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
DIETHYL PHTHALATE	ug/l	3.4	--	2.9	--	TR	--	--	< 2.0	< 2.0
DIMETHYL PHTHALATE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	6.1	5.6
FLUORANTHENE	ug/l	4.4	--	< 1.0	--	TR	--	--	< 1.0	< 1.0
HEXACHLOROBENZENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
HEXACHLOROBUTADIENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
HEXACHLOROCYCLOPENTADIENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
HEXACHLOROETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
INDENO(1,2,3-CD)PYRENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
ISOPHORONE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
N-NITROSO-DI-N-PROPYLAMINE	ug/l	< 3.0	--	< 3.0	--	< 3.0	--	--	< 3.0	< 3.0
N-NITROSODIPHENYLAMINE	ug/l	< 4.0	--	< 4.0	--	< 4.0	--	--	< 4.0	< 4.0
NAPHTHALENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	5.1	< 1.0
NITROBENZENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
PHENANTHRENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
PYRENE	ug/l	< 2.0	--	< 2.0	--	TR	--	--	< 2.0	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 1(c)

COMPOUND (by Class)	Units	LW1 May.'86	LW1 May.'88	LW2 May.'86	LW2 May.'88	LW3 May.'86	LW3 May.'88	LW3 May.'88 (Dupl)	LW4 May.'86	LW4 May.'86 (Dupl)
METALS										
IRON	mg/l	1.10	--	0.40	--	0.04	--	--	6.90	--
BIOLOGICAL TESTING										
FAECAL COLIFORM	/100ml	< 1	220	< 1	210	< 1	< 1	6	< 1	--
FAECAL STREPTOCOCCI	/100ml	10	2	< 1	2	< 1	< 1	< 1	< 1	--
TOTAL COLIFORMS	/100ml	< 1	63000	< 1	970	< 1	< 1	100	130	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	2830	3370	1270	2080	980	1320	1340	1350	--
AMMONIA NITROGEN	mg/l	15.00	400	60.00	135	160.00	0.31	< 0.02	27.00	--
CHLORIDE	mg/l	3230	3180	1220	1080	329	506	540	1940	--
CONDUCTIVITY	umhos/cm	12300	11690	7000	5470	3300	3330	3330	5777	--
DOC	mg/l	340.0	--	90.0	--	28.0	--	--	54.0	--
HARDNESS	mg/l	2080	--	1030	--	2060	--	--	3030	--
KJELDAHL NITROGEN	mg/l	790.00	444	210.0	149	198.00	4.01	3.05	31.00	--
NITRATE	mg/l	0.10	--	< 0.01	--	< 0.01	--	--	0.01	--
NITRITE	mg/l	0.030	--	< 0.02	--	0.006	--	--	< 0.02	--
PH		7.57	6.95	7.43	7	6.68	6.73	6.73	6.91	--
PHENOLS	ug/l	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	20	< 2.0	--
SULFATE	mg/l	< 5	< 1	65	< 1.0	ND	331	361	< 5	--
PESTICIDES AND PCB's										
2,4-DDD	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
4,4-DDD	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
4,4-DDE	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
4,4-DDT	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 1(d)

COMPOUND (by Class)	Units	LW1 May.'86	LW1 May.'88	LW2 May.'86	LW2 May.'88	LW3 May.'86	LW3 May.'88	LW4 May.'88 (Dupl)	LW4 May.'86	LW4 May.'86 (Dupl)
PESTICIDES AND PCB's (cont'd)										
ALDRIN	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
ALPHA-BHC	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
ALPHA-CHLORDANE	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
ALPHA-ENDOSULFAN	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
BETA-BHC	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
BETA-ENDOSULFAN	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
DELTA-BHC	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
DIELDRIN	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
ENDOSULFAN SULFATE	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
ENDRIN	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
GAMMA-BHC	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
GAMMA-CHLORDANE	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
HEPTACHLOR	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
HEPTACHLOR EPOXIDE	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
METHOXYCHLOR	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
MIREX	ug/l	< 0.100	--	< 0.100	--	< 0.100	--	--	< 0.100	< 0.100
OXYCHLORDANE	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
TOTAL PCB	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,1-DICHLOROETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	< 1.0	< 1.0
1,2-DICHLOROBENZENE	ug/l	TR	--	< 1.0	--	< 1.0	--	--	1.7	1.8
1,2-DICHLOROETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 1(e)

COMPOUND (by Class)	Units	LW1 May.'86	LW1 May.'88	LW2 May.'86	LW2 May.'88	LW3 May.'86	LW3 May.'88	LW3 May.'88 (Dupl)	LW4 May.'86	LW4 May.'86 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)										
1,2-DICHLOROPROPANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,3-DICHLOROBENZENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,4-DICHLOROBENZENE	ug/l	18.6	--	3.1	--	11.7	--	--	11.3	11.5
BENZENE	ug/l	8.3	--	12.3	--	17.7	--	--	21.0	21.7
BROMOFORM	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
BROMOMETHANE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
CARBON TETRACHLORIDE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
CHLOROBENZENE	ug/l	25.9	--	22.5	--	51.9	--	--	32.4	37.0
CHLOROETHANE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
CHLOROFORM	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
DICHLOROBROMOMETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
DICHLOROFLUOROMETHANE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
ETHYLBENZENE	ug/l	3.2	--	< 0.5	--	< 0.5	--	--	9.4	5.7
M&P-XYLENE	ug/l	11.2	--	< 0.5	--	< 0.5	--	--	31.3	28.1
METHYL CHLORIDE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
METHYLENE CHLORIDE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
O-XYLENE	ug/l	42.7	--	1.0	--	< 0.5	--	--	16.9	15.9
TETRACHLOROETHYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
TOLUENE	ug/l	12.4	--	0.7	--	TR	--	--	5.72	5.68
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	1.4	1.9
TRANS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
TRICHLOROETHYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	1.3	1.0
TRICHLOROFLUOROMETHANE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
VINYL CHLORIDE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	10.0	7.6

000408

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(a)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
ACID EXTRACTABLES										
2,4,6-TRICHLOROPHENOL	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	--
2,4-DICHLOROPHENOL	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	--
2,4-DIMETHYL PHENOL	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	21.0	--	--
2,4-DINITROPHENOL	ug/l	--	< 5.0	--	< 5.0	--	< 3.0	< 3.0	--	--
2-CHLOROPHENOL	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	--
2-NITROPHENOL	ug/l	--	< 5.0	--	< 5.0	--	< 5.0	< 5.0	--	--
4,6-DINITRO-O-CRESOL	ug/l	--	--	--	< 3.0	--	< 5.0	< 5.0	--	--
4-NITROPHENOL	ug/l	--	< 5.0	--	< 5.0	--	< 5.0	< 5.0	--	--
DI-T-BUTYLMETHYLPHENOL	ug/l	--	--	--	--	--	< 15.0	< 15.0	--	--
P-CHLORO-M-CRESOL	ug/l	--	--	--	< 5.0	--	< 5.0	< 5.0	--	--
PENTACHLOROPHENOL	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	--
PHENOL	ug/l	--	15.6	--	< 3.0	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES										
1,2,4-TRICHLOROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
1,2-DICHLOROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 2
1,2-DIPHENYLHYDRAZINE	ug/l	--	< 5.0	--	< 5.0	--	< 5.0	< 5.0	--	< 1
1,3-DICHLOROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 2
1,4-DICHLOROBENZENE	ug/l	--	< 1.0	--	2.3	--	< 1.0	47.2	--	15.1
2,4-DINITROTOLUENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 3
2,6-DINITROTOLUENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 3
2-CHLORONAPHTHALENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
3,3'-DICHLOROBENZIDINE	ug/l	--	< 5.0	--	< 5.0	--	< 5.0	< 5.0	--	< 1
4-BROMOPHENYL PHENYL ETHER	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
9H-FLUORENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	--
ACENAPHTHENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	TR	--	< 1
ACENAPHTHYLENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(b)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	May.'88	LW6 May.'86	May.'88	MH13 Mar.'87	May.'87	Jun.'87	Aug.'87
BASE/NEUTRAL EXTRACTABLES (cont'd)										
ANTHRACENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
BENZIDINE	ug/l	--	< 5.0	--	< 5.0	--	< 5.0	< 5.0	--	< 20
BENZO(A)ANTHRACENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 1
BENZO(A)PYRENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 3
BENZO(GHI)PERYLENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 5
BENZO(K)FLUORANTHENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 2
BENZOTHIAZOLE	ug/l	--	--	--	--	--	< 15.0	< 15.0	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 1
BIS(2-CHLOROETHYL)ETHER	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	137.1	--	27.6	--	13	33.1	--	1.4
BUTYL BENZYL PHTHALATE	ug/l	--	31.7	--	5.8	--	< 2.0	< 2.0	--	< 1
CHRYSENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 2
DI-N-BUTYL PHTHALATE	ug/l	--	14.1	--	5.2	--	< 1.0	< 1.0	--	22
DI-N-OCTYL PHTHALATE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 1
DIBENZO(A,H)ANTHRACENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 5
DIETHYL PHTHALATE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	2.4	--	< 1
DIMETHYL PHTHALATE	ug/l	--	< 2.0	--	7.1	--	< 2.0	< 2.0	--	1.2
FLUORANTHENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
FLUORENE	ug/l	--	--	--	--	--	--	--	--	< 1
HEXACHLOROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
HEXACHLOROBUTADIENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 3
HEXACHLOROCYCLOPENTADIENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 5
HEXACHLOROETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 3
INDENO(1,2,3-CD)PYRENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 5
ISOPHORONE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	< 3.0	--	< 3.0	--	< 3.0	< 3.0	--	< 1
N-NITROSODIPHENYLAMINE	ug/l	--	< 4.0	--	< 4.0	--	< 4.0	< 4.0	--	< 1
NAPHTHALENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	26.3	--	5.2

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(c)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
BASE/NEUTRAL EXTRACTABLES (cont'd)										
NITROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
P-CHLOROANILINE	ug/l	--	--	--	--	--	< 20.0	< 20.0	--	--
PHENANTHRENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	TR	--	< 1
PYRENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 1
METALS										
ALUMINUM	mg/l	--	--	--	--	--	0.02	0.050	--	< 0.05
ANTIMONY	mg/l	--	--	--	--	--	< 0.001	--	--	< 0.1
ARSENIC	mg/l	--	--	--	--	--	< 0.0005	0.002	--	< 0.01
BARIUM	mg/l	--	--	--	--	--	0.17	0.550	--	< 0.1
BERYLLIUM	mg/l	--	--	--	--	--	< 0.01	0.0012	--	< 0.5
BISMUTH	mg/l	--	--	--	--	--	--	--	--	< 0.1
CADMIUM	mg/l	--	--	--	--	--	< 0.001	< 0.001	--	0.011
CHROMIUM	mg/l	--	--	--	--	--	0.008	0.014	--	< 0.01
COBALT	mg/l	--	--	--	--	--	< 0.005	0.021	--	< 0.0
COPPER	mg/l	--	--	--	--	--	0.015	0.064	--	0.15
CYANIDE	mg/l	--	--	--	--	--	< 0.01	0.012	--	0.07
IRON	mg/l	--	0.30	--	2.10	--	1.44	3.250	--	13.5
LEAD	mg/l	--	--	--	--	--	< 0.005	0.004	--	< 0.04
MANGANESE	mg/l	--	--	--	--	--	0.92	0.40	--	0.25
MERCURY	mg/l	--	--	--	--	--	0.003	0.0017	--	0.009
MOLYBDENUM	mg/l	--	--	--	--	--	0.01	< 0.01	--	< 0.5
NICKEL	mg/l	--	--	--	--	--	0.014	0.051	--	< 0.02
SELENIUM	mg/l	--	--	--	--	--	< 0.01	< 0.002	--	< 0.001
TIN	mg/l	--	--	--	--	--	< 0.01	< 0.002	--	< 1.0
TITANIUM	mg/l	--	--	--	--	--	< 0.05	< 0.05	--	< 1.0
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	0.14	< 0.01	--	0.19
VANADIUM	mg/l	--	--	--	--	--	< 0.02	< 0.02	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(d)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
METALS (cont'd)										
ZINC	mg/l	--	--	--	--	--	0.014	0.069	--	0.22
BIOLOGICAL TESTING										
FAECAL COLIFORM	/100ml	800	< 1	40	230	< 1	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	310	< 1	< 1	650	< 1	--	--	--	--
TOTAL COLIFORMS	/100ml	1800	11000	200	4000	< 1	--	--	--	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	316	1730	193	492	462	--	--	--	--
AMMONIA NITROGEN	mg/l	27.9	70.00	39.5	0.15	< 0.02	--	--	0.20	0.52
BOD	mg/l	--	--	--	--	--	42.0	27.0	--	25.8
CHLORIDE	mg/l	1710	485	290	109	90	555	674	--	927
CONDUCTIVITY	umhos/cm	5910	2630	2190	1236	1080	--	--	1650	1680
DOC	mg/l	--	33.0	--	3.0	--	--	--	--	--
FLUORIDE	mg/l	--	--	--	--	--	< 0.1	1.1	--	0.2
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	0.240	0.63
HARDNESS	mg/l	--	864	--	760	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	39.7	80.00	52.8	1.03	5.41	--	--	1.15	1.23
NITRATE	mg/l	--	< 0.01	--	0.04	--	--	--	--	--
NITRITE	mg/l	--	0.011	--	0.002	--	--	--	--	--
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	0.95	0.71
PH		5.75	7.02	5.18	7.38	5.43	7.68	6.70	7.12	6.80
PHENOLS	ug/l	154	2.2	9	3.8	26	< 3.0	< 3.0	--	--
SULFATE	mg/l	< 1.0	500	< 1.0	145	142	375	< 0.5	--	< 0.5
SULFIDE	mg/l	--	--	--	--	--	< 0.5	< 0.5	--	< 0.5
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	15.0	102.0	--	92.9

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(e)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
PESTICIDES AND PCB's										
2,4-DDD	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.005
2,4-DDT	ug/l	--	--	--	--	--	--	--	--	< 0.005
4,4-DDD	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.005
4,4-DDE	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.005
4,4-DDT	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.005
ALDRIN	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	< 0.005
ALPHA-BHC	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	< 0.005
ALPHA-CHLORDANE	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	--
ALPHA-ENDOSULFAN	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.005
AROCHLOR-1242	ug/l	--	--	--	--	--	--	--	--	< 0.05
AROCHLOR-1254	ug/l	--	--	--	--	--	--	--	--	< 0.05
AROCHLOR-1260	ug/l	--	--	--	--	--	--	--	--	< 0.05
BETA-BHC	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	< 0.05
BETA-ENDOSULFAN	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.05
CIS-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	< 0.005
DELTA-BHC	ug/l	--	< 0.020	--	< 0.020	--	--	--	--	--
DIELDRIN	ug/l	--	< 0.010	--	< 0.010	--	--	--	--	< 0.005
ENDOSULFAN SULFATE	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.05
ENDRIN	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	< 0.05
GAMMA-BHC	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	< 0.005
GAMMA-CHLORDANE	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	--
HEPTACHLOR	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	< 0.005
HEPTACHLOR EPOXIDE	ug/l	--	< 0.020	--	< 0.020	--	--	--	--	< 0.005
HEXACHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	< 0.005
METHOXYCHLOR	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.05
MIREX	ug/l	--	< 0.100	--	< 0.100	--	--	< 0.020	--	< 0.05
OXYCHLORDANE	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	--
TOTAL PCB	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.5	--	--
TRANS-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	< 0.005

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(f)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
1,1,2,2-TETRACHLOROETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 2
1,1,2-TRICHLOROETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.5
1,1-DICHLOROETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	0.3
1,1-DICHLOROETHYLENE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	--	--	< 0.2
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	< 1.0	--	--
1,2-DICHLOROBENZENE	ug/l	--	< 1.0	--	2.9	--	< 1.0	< 1.0	--	< 0.3
1,2-DICHLOROETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	< 1.0	--	--
1,2-DICHLOROPROPANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
1,3-DICHLOROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	82.0	--	18.7
1,4-DICHLOROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	TR	7.8	--	< 0.3
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	--	--	< 10
BENZENE	ug/l	--	TR	--	< 0.5	--	< 1.0	48.4	--	14.9
BROMOFORM	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 2
BROMOMETHANE	ug/l	--	< 2.0	--	< 2.0	--	--	< 2.0	--	< 0.2
CARBON TETRACHLORIDE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 1
CHLOROBENZENE	ug/l	--	< 0.5	--	5.2	--	< 1.0	299	--	< 0.2
CHLOROETHANE	ug/l	--	< 2.0	--	< 2.0	--	--	< 2.0	--	< 0.2
CHLOROFORM	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	0.4
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	< 1.0	--	< 1.0	--	--	< 1.0	--	< 0.5
DIBROMOCHLOROMETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
DICHLOROBROMOMETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	8.1	--	--
DICHLOROFLUOROMETHANE	ug/l	--	< 2.0	--	< 2.0	--	--	--	--	--
ETHYLBENZENE	ug/l	--	< 0.5	--	0.5	--	< 1.0	--	--	26.2
M&P-XYLENE	ug/l	--	< 0.5	--	0.7	--	< 1.0	412	--	44.6
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	8
METHYL CHLORIDE	ug/l	--	< 2.0	--	< 2.0	--	--	--	--	< 0.2

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(g)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
VOLATILE ORGANIC COMPOUNDS (cont'd)										
METHYLENE CHLORIDE	ug/l	--	< 1.0	--	< 1.0	--	TR	--	--	16.8
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	< 0.2
O-XYLENE	ug/l	--	< 0.5	--	0.5	--	< 1.0	34.1	--	3.5
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	< 0.2
TETRACHLOROETHYLENE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
TOLUENE	ug/l	--	< 0.5	--	1.2	--	< 1.0	4.0	--	< 3
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	3.6	--	< 0.2
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	< 1.0	--	< 1.0	--	--	< 1.0	--	< 0.2
TRICHLOROETHYLENE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
TRICHLOROFLUOROMETHANE	ug/l	--	< 2.0	--	< 2.0	--	--	< 2.0	--	< 1
VINYL CHLORIDE	ug/l	--	< 2.0	--	< 2.0	--	--	< 2.0	--	< 0.5

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(a)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
ACID EXTRACTABLES										
2,3,4,5-TETRACHLOROPHENOL	ug/l	--	< 1.0	--	--	< 1.0	< 1.0	< 4.0	< 4.0	--
2,3,4,6-TETRACHLOROPHENOL	ug/l	--	< 4.0	--	--	< 4.0	< 4.0	< 4.0	< 4.0	--
2,3,4-TRICHLOROPHENOL	ug/l	--	< 5.0	--	--	< 5.0	< 5.0	< 3.0	< 3.0	--
2,3,5,6-TETRACHLOROPHENOL	ug/l	--	< 4.0	--	--	< 4.0	< 4.0	< 4.0	< 4.0	--
2,3,5-TRICHLOROPHENOL	ug/l	--	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--
2,4,5-TRICHLOROPHENOL	ug/l	--	< 3.0	--	--	< 3.0	< 3.0	< 3.0	< 3.0	--
2,4,6-TRICHLOROPHENOL	ug/l	< 2	< 3.0	< 4	--	< 3.0	< 3.0	< 3.0	< 3.0	--
2,4-DICHLOROPHENOL	ug/l	< 2	< 2.0	< 4	--	< 2.0	< 2.0	< 2.0	< 2.0	--
2,4-DIMETHYL PHENOL	ug/l	< 1	< 5.0	< 6	--	< 5.0	< 5.0	< 5.0	< 5.0	--
2,4-DINITROPHENOL	ug/l	< 5	< 10.0	< 6	--	< 10.0	< 10.0	< 40.0	< 69.0	--
2,6-DICHLOROPHENOL	ug/l	--	< 5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	--
2-CHLOROPHENOL	ug/l	< 1	< 3.0	< 1	--	< 3.0	< 3.0	< 3.0	< 3.0	--
2-NITROPHENOL	ug/l	< 3	< 3.0	< 2	--	< 3.0	< 3.0	< 3.0	< 3.0	--
4,6-DINITRO-O-CRESOL	ug/l	< 3	< 5.0	< 5	--	< 5.0	< 5.0	< 12.0	< 16.0	--
4-NITROPHENOL	ug/l	< 3	< 5.0	< 5	--	< 5.0	< 5.0	< 16.0	< 5.0	--
DI-T-BUTYLMETHYLPHENOL	ug/l	--	--	ND	--	< 4.0	< 5	--	--	--
HEXADECANOIC ACID	ug/l	--	--	--	--	< 4.0	TR	--	--	--
O-CRESOL	ug/l	--	< 4.0	--	--	< 4.0	< 4.0	< 4.0	< 4.0	--
P&M-CRESOL	ug/l	--	< 83.0	--	--	< 83.0	< 83.0	< 8.0	< 8.0	--
P-CHLORO-M-CRESOL	ug/l	< 1	< 3.0	< 4	--	< 3.0	< 3.0	< 3.0	< 3.0	--
PENTACHLOROPHENOL	ug/l	< 3	< 5.0	< 3	--	< 5.0	< 5.0	< 6.0	< 5.0	--
PHENOL	ug/l	--	--	--	--	--	< 4.0	< 4.0	< 4.0	--
BASE/NEUTRAL EXTRACTABLES										
1,2,4-TRICHLOROBENZENE	ug/l	< 1	< 3.0	< 1	--	< 3.0	< 3.0	< 3.0	< 3.0	--
1,2-DICHLOROBENZENE	ug/l	< 2	< 3.0	< 1	--	< 3.0	< 3.0	< 3.0	< 3.0	--
1,2-DIPHENYLHYDRAZINE	ug/l	< 1	< 2.0	< 1	--	< 2.0	< 2.0	< 2.0	< 2.0	--
1,3-DICHLOROBENZENE	ug/l	< 2	< 4.0	< 1	--	< 4.0	< 4.0	< 4.0	< 4.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(b)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
BASE/NEUTRAL EXTRACTABLES (cont'd)										
1,4-DICHLOROBENZENE	ug/l	< 2	< 3.0	2.7	--	5.00	4.13	< 3.0	3.2	--
1-CHLORONAPHTHALENE	ug/l	--	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--
1-METHYL NAPHTHALENE	ug/l	--	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--
2,4-DINITROTOLUENE	ug/l	< 3	< 1.0	< 3	--	< 1.0	< 1.0	< 1.0	< 1.0	--
2,6-DINITROTOLUENE	ug/l	< 3	< 2.0	< 3	--	< 2.0	< 2.0	< 2.0	< 2.0	--
2-CHLORONAPHTHALENE	ug/l	< 1	< 2.0	< 1	--	< 2.0	< 2.0	< 2.0	< 2.0	--
2-METHYL NAPHTHALENE	ug/l	--	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--
3,3'-DICHLOROBENZIDINE	ug/l	< 1	< 5.0	< 2	--	< 5.0	< 5.0	< 5.0	< 5.0	--
4-BROMOPHENYL PHENYL ETHER	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
ACENAPHTHENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
ACENAPHTHYLENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
ANTHRACENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
BENZIDINE	ug/l	< 20	< 10.0	< 20	--	< 10.0	< 10.0	< 50.0	< 10.0	--
BENZO(A)ANTHRACENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
BENZO(A)PYRENE	ug/l	< 3	< 2.0	< 2	--	< 2.0	< 2.0	< 2.0	< 2.0	--
BENZO(B)FLUORANTHENE	ug/l	--	--	--	--	--	--	< 2.0	< 2.0	--
BENZO(GHI)PERYLENE	ug/l	< 5	< 2.0	< 2	--	< 2.0	< 2.0	< 2.0	< 2.0	--
BENZO(K)FLUORANTHENE	ug/l	< 2	< 2.0	< 2	--	< 2.0	< 2.0	< 2.0	< 2.0	--
BENZOTHIAZOLE	ug/l	--	--	ND	--	< 4.0	< 5	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	< 1	< 2.0	< 1	--	< 2.0	< 2.0	< 2.0	< 2.0	--
BIS(2-CHLOROETHYL)ETHER	ug/l	< 1	< 4.0	< 1	--	< 4.0	< 4.0	< 2.0	< 2.0	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	< 1	--	< 1	--	--	--	< 2.0	< 2.0	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	1.8	3.78	1.9	--	6.05	14.4	3.78 U	7.5 U	--
BUTYL BENZYL PHTHALATE	ug/l	1.2	< 1.0	< 4	--	< 1.0	< 1.0	< 1.0	TR	--
CAMPHENE	ug/l	--	< 10.0	--	--	TR	< 10.0	< 2.0	< 10.0	--
CHRYSENE	ug/l	< 2	< 1.0	--	--	< 1.0	< 1.0	< 1.0	< 1.0	--
DI-N-BUTYL PHTHALATE	ug/l	100	< 2.0	5	--	TR	TR	< 2.0	2.2 U	--
DI-N-OCTYL PHTHALATE	ug/l	< 1	< 5.0	< 1	--	TR	< 5.0	< 5.0	< 5.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(c)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
BASE/NEUTRAL EXTRACTABLES (cont'd)										
DIBENZO(A,H)ANTHRACENE	ug/l	< 5	< 2.0	< 4	--	< 2.0	< 2.0	< 2.0	< 2.0	--
DIETHYL PHTHALATE	ug/l	< 1	< 1.0	< 1	--	TR	< 1.0	< 1.0	TR	--
DIMETHYL PHTHALATE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
DIPHENYL ETHER	ug/l	--	< 2.0	--	--	ND	< 2.0	< 2.0	TR	--
DIPHENYLAMINE	ug/l	--	ND	--	--	ND	ND	ND	ND	--
FLUORANTHENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
FLUORENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
HEXACHLOROBENZENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
HEXACHLOROBUTADIENE	ug/l	< 3	< 6.0	< 2	--	< 6.0	< 6.0	< 6.0	< 6.0	--
HEXACHLOROCYCLOPENTADIENE	ug/l	< 5	< 4.0	< 5	--	< 4.0	< 4.0	< 4.0	< 4.0	--
HEXACHLOROETHANE	ug/l	< 3	< 5.0	< 2	--	< 5.0	< 5.0	< 5.0	< 5.0	--
INDENO(1,2,3-CD)PYRENE	ug/l	< 5	< 2.0	< 4	--	< 2.0	< 2.0	< 2.0	< 2.0	--
INDOLE	ug/l	--	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--
ISOPHORONE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
N-NITROSODIPHENYLAMINE	ug/l	< 1	< 2.0	< 2	--	TR	< 2.0	< 2.0	TR	--
NAPHTHALENE	ug/l	< 1	< 2.0	< 1	--	< 2.0	< 2.0	< 2.0	< 2.0	--
NITROBENZENE	ug/l	< 1	< 2.0	< 1	--	< 2.0	< 2.0	< 2.0	< 2.0	--
P-CHLOROANILINE	ug/l	--	--	ND	--	< 4.0	< 5	--	--	--
PERYLENE	ug/l	--	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--
PHENANTHRENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
PYRENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
METALS										
ALUMINUM	mg/l	< 0.5	--	0.2	--	0.14	0.16	0.30	0.46	--
ANTIMONY	mg/l	< 0.1	--	< 0.002	--	< 0.004	< 0.002	< 0.001	--	--
ARSENIC	mg/l	0.05	--	< 0.001	--	0.003	0.002	0.002	0.003	0.004
BARIUM	mg/l	0.25	--	0.3	--	0.38	0.34	0.34	0.32	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(d)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
METALS (cont'd)										
BERYLLIUM	mg/l	< 0.5	--	< 0.004	--	< 0.004	< 0.01	< 0.01	--	--
BISMUTH	mg/l	--	--	--	--	--	< 0.002	< 0.002	--	--
CADMIUM	mg/l	0.013	--	0.0005	--	0.0049	< 0.0002	0.0002	0.0008	--
CHROMIUM	mg/l	0.03	--	0.02	--	0.02	0.01	0.02	17.0	--
COBALT	mg/l	< 0.05	--	< 0.02	--	< 0.02	0.02	0.02	--	--
COPPER	mg/l	0.07	--	0.025	--	0.015	0.010	0.015	0.030	--
CYANIDE	mg/l	0.26	--	0.003	--	< 0.002	< 0.002	0.003	0.034	--
IRON	mg/l	0.65	--	2.1	--	0.22	0.72	0.20	0.24	--
LEAD	mg/l	0.08	--	0.006	--	0.07	0.002	0.005	0.006	--
MANGANESE	mg/l	0.95	--	< 0.01	--	< 0.01	0.80	0.79	--	--
MERCURY	mg/l	0.0014	--	< 0.00005	--	< 0.00005	< 0.00005	< 0.00005	< 0.00005	--
MOLYBDENUM	mg/l	< 0.5	--	< 0.01	--	< 0.01	0.06	0.10	--	--
NICKEL	mg/l	< 0.02	--	0.02	--	0.02	0.02	0.02	0.02	--
SELENIUM	mg/l	< 0.007	--	< 0.002	--	< 0.002	< 0.001	< 0.001	--	--
TIN	mg/l	--	--	0.46	--	0.48	0.46	0.42	0.50	--
TITANIUM	mg/l	< 1.0	--	< 0.05	--	< 0.05	0.23	0.38	--	--
TOTAL PHOSPHORUS	mg/l	0.13	--	< 0.002	--	0.08	0.019	0.007	0.14	--
VANADIUM	mg/l	< 1.0	--	< 0.02	--	< 0.02	0.02	0.02	--	--
ZINC	mg/l	0.07	--	0.06	--	0.04	0.04	0.04	0.05	--
BIOLOGICAL TESTING										
FAECAL COLIFORM	/100ml	--	--	24	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	< 1	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	100	--	--	--	--	--	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	--	--	--	--	--	1300	1250	1290	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(e)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
GENERAL CHEMISTRY (cont'd)										
AMMONIA NITROGEN	mg/l	--	--	75.1	--	93.3	50.6	63.5	72.2	--
BOD	mg/l	11.0	--	6.68	--	< 5.0	12.0	< 5.0	< 5.0	--
CHLORIDE	mg/l	--	--	583	--	740	--	508	490	--
CONDUCTIVITY	umhos/cm	--	--	--	--	--	--	--	3500	--
FLUORIDE	mg/l	0.29	--	2.5	--	2.3	0.36	0.42	0.32	0.28
KJELDAHL NITROGEN	mg/l	--	--	--	--	--	88.5	70.4	103	--
PH		7.20	--	--	--	7.50	7.03	7.34	7.20	--
PHENOLS	ug/l	< 1	< 4.0	< 1	--	< 4	4	4.0	4	--
SULFATE	mg/l	190	--	244	--	332	--	142	324	--
SULFIDE	mg/l	< 0.5	--	--	--	< 0.1	--	< 0.1	< 0.1	--
TOTAL SUSPENDED SOLIDS	mg/l	45.8	--	--	--	25.0	--	4.2	30.1	--
PESTICIDES AND PCB's										
2,4-DDD	ug/l	< 0.005	--	--	--	--	--	--	--	--
2,4-DDT	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
4,4-DDD	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
4,4-DDE	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
4,4-DDT	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
ALDRIN	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
ALPHA-BHC	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
ALPHA-CHLORDANE	ug/l	--	--	--	--	--	--	< 0.020	< 0.010	--
ALPHA-ENDOSULFAN	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
AROCHLOR-1242	ug/l	< 0.05	--	< 0.05	--	--	--	--	--	--
AROCHLOR-1254	ug/l	< 0.05	--	< 0.05	--	--	--	--	--	--
AROCHLOR-1260	ug/l	< 0.05	--	< 0.05	--	--	--	--	--	--
BETA-BHC	ug/l	< 0.05	--	< 0.05	--	--	< 0.020	< 0.020	< 0.010	--
BETA-ENDOSULFAN	ug/l	< 0.05	--	< 0.05	--	--	< 0.020	< 0.020	< 0.010	--
CIS-CHLORDANE	ug/l	< 0.005	--	< 0.005	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(f)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
PESTICIDES AND PCB's (cont'd)										
DELTA-BHC	ug/l	--	--	--	--	--	< 0.020	< 0.020	--	--
DIELDRIN	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
ENDOSULFAN SULFATE	ug/l	< 0.05	--	< 0.05	--	--	< 0.020	< 0.020	< 0.010	--
ENDRIN	ug/l	< 0.05	--	< 0.05	--	--	< 0.020	< 0.020	< 0.010	--
ENDRIN ALDEHYDE	ug/l	--	--	--	--	--	< 0.020	--	--	--
GAMMA-BHC	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	--	< 0.020	< 0.010	--
HEPTACHLOR	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
HEPTACHLOR EPOXIDE	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
HEXACHLOROBENZENE	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	--	--
METHOXYCHLOR	ug/l	< 0.05	--	< 0.05	--	--	< 0.020	< 0.020	< 0.010	--
MIREX	ug/l	< 0.05	--	< 0.05	--	--	< 0.020	< 0.050	< 0.010	--
OXYCHLORDANE	ug/l	--	--	--	--	--	< 0.020	< 0.020	< 0.010	--
TOTAL PCB	ug/l	--	--	--	--	--	< 0.5	< 0.500	< 0.500	--
TOXAPHENE	ug/l	< 0.5	--	--	--	--	--	--	--	--
TRANS-CHLORDANE	ug/l	< 0.005	--	< 0.005	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 0.2	--	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	ug/l	< 2	--	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	--
1,1,2-TRICHLOROETHANE	ug/l	< 0.5	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
1,1-DICHLOROETHANE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
1,1-DICHLOROETHYLENE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	< 2	--
1,2-DICHLOROBENZENE	ug/l	< 0.3	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
1,2-DICHLOROETHANE	ug/l	< 0.2	--	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	--
1,2-DICHLOROPROPANE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
1,2-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	< 5	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(g)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
VOLATILE ORGANIC COMPOUNDS (cont'd)										
1,3-DICHLOROBENZENE	ug/l	2.9	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
1,4-DICHLOROBENZENE	ug/l	< 0.3	--	5.2	6.2	2.02	2.88	2.07	6.83	--
2-CHLOROETHYLVINYLETHER	ug/l	< 10	--	< 10	< 10	--	--	--	< 50	--
A-METHYLSTYRENE	ug/l	--	--	< 1	< 1	--	--	--	--	--
ACROLEIN	ug/l	--	--	< 15	--	--	--	--	--	--
ACRONITRILE	ug/l	--	--	< 10	--	--	--	--	--	--
BENZENE	ug/l	< 2	--	< 1	< 1	< 0.5	< 0.5	0.5 U	3.95 U	--
BIS(CHLOROMETHYL)ETHER	ug/l	--	--	--	--	--	--	--	< 500	--
BROMOFORM	ug/l	< 2	--	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	--
BROMOMETHANE	ug/l	< 0.2	--	< 16	< 16	< 2.0	< 2.0	< 2.0	< 2.0	--
CARBON TETRACHLORIDE	ug/l	< 1	--	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	--
CHLOROBENZENE	ug/l	7.6	--	13	18	< 0.5	< 0.5	3.45	38.44	--
CHLOROETHANE	ug/l	< 0.2	--	< 10	< 10	< 2.0	< 2.0	< 2.0	< 2.0	--
CHLOROFORM	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	1.0 U	< 1.0	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 0.5	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
DIBROMOCHLOROMETHANE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	1.0 U	1.0 U	--
DICHLOROBROMOMETHANE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	< 5	--	< 2.0	< 2.0	< 2.0	< 2.0	--
ETHYLBENZENE	ug/l	< 0.2	--	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--
M&P-XYLENE	ug/l	< 0.3	--	< 2	< 2	< 0.5	< 0.5	< 0.5	TR	--
MESITYLENE	ug/l	< 0.2	--	< 1	< 1	--	--	--	--	--
METHYL CHLORIDE	ug/l	< 0.2	--	< 50	< 50	< 2.0	< 2.0	< 2.0	< 2.0	--
METHYLENE CHLORIDE	ug/l	25.3	--	< 10	13	< 1.0	< 1.0	1.0 U	1.0 U	--
METHYLSTYRENE ISOMERS	ug/l	< 0.2	--	< 1	< 1	--	--	--	--	--
O-XYLENE	ug/l	< 0.2	--	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--
OTHER AROMATIC COMPOUNDS	ug/l	< 0.2	--	< 1	< 1	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	1.1	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
TOLUENE	ug/l	< 3	--	< 2	< 2	< 0.5	< 0.5	0.5 U	TR	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(h)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
VOLATILE ORGANIC COMPOUNDS (cont'd)										
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	--
TRICHLOROETHYLENE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
TRICHLOROFLUOROMETHANE	ug/l	< 0.5	--	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	--
VINYL CHLORIDE	ug/l	< 0.5	--	< 12	< 12	< 2.0	< 2.0	< 2.0	< 2.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(a)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
ACID EXTRACTABLES										
2,3,4,5-TETRACHLOROPHENOL	ug/l	--	--	< 0.039	--	--	--	--	--	--
2,3,4,6-TETRACHLOROPHENOL	ug/l	--	--	< 0.154	--	--	--	--	--	--
2,3,4-TRICHLOROPHENOL	ug/l	--	--	< 0.053	--	--	--	--	--	--
2,3,5,6-TETRACHLOROPHENOL	ug/l	--	--	< 0.423	--	--	--	--	--	--
2,3,5-TRICHLOROPHENOL	ug/l	--	--	< 0.074	--	--	--	--	--	--
2,4,5-TRICHLOROPHENOL	ug/l	--	--	< 0.117	--	--	--	--	--	--
2,4,6-TRICHLOROPHENOL	ug/l	< 3.0	--	< 0.11	--	--	--	--	--	--
2,4-DICHLOROPHENOL	ug/l	< 2.0	--	< 1.07	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	ug/l	< 5.0	--	< 1.07	--	--	--	--	--	--
2,4-DINITROPHENOL	ug/l	< 38.0	--	< 35	--	--	--	--	--	--
2,6-DICHLOROPHENOL	ug/l	--	--	< 1.94	--	--	--	--	--	--
2-CHLOROPHENOL	ug/l	< 3.0	--	< 0.432	--	--	--	--	--	--
2-NITROPHENOL	ug/l	< 3.0	--	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	< 10.0	--	< 6.2	--	--	--	--	--	--
4-NITROPHENOL	ug/l	< 22.0	--	< 0.375	--	--	--	--	--	--
M-CRESOL	ug/l	--	--	< 0.433	--	--	--	--	--	--
N-CRESOL	ug/l	--	--	--	--	--	0.4 J	--	--	--
O-CRESOL	ug/l	--	--	< 0.565	--	--	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	< 3.0	--	< 0.096	--	--	--	--	--	--
P-CRESOL	ug/l	--	--	< 0.449	--	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	< 5.0	--	< 0.185	--	--	--	--	--	--
PHENOL	ug/l	< 4.0	--	< 0.385	--	--	0.4 J	--	--	--
BASE/NEUTRAL EXTRACTABLES										
1,2-DIPHENYLHYDRAZINE	ug/l	< 2.0	--	--	--	--	--	--	--	--
1-CHLORONAPHTHALENE	ug/l	--	--	< 0.20	--	--	--	--	--	--
1-METHYL NAPHTHALENE	ug/l	--	--	< 0.20	--	--	--	--	--	--
2,4-DINITROTOLUENE	ug/l	< 1.0	--	< 0.61	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(b)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
BASE/NEUTRAL EXTRACTABLES (cont'd)										
2,6-DINITROTOLUENE	ug/l	< 2.0	--	< 0.49	--	--	--	--	--	--
2-CHLORONAPHTHALENE	ug/l	< 2.0	--	< 0.23	--	--	--	--	--	--
2-METHYL NAPHTHALENE	ug/l	--	--	< 0.13	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	< 1.0	--	< 0.26	--	--	--	--	--	--
4-CHLOROPHENYL ETHYL ETHER	ug/l	--	--	< 0.20	--	--	--	--	--	--
5-NITROACENAPHTHENE	ug/l	--	--	< 0.53	--	--	--	--	--	--
ACENAPHTHENE	ug/l	< 1.0	--	< 0.13	--	--	--	--	--	--
ACENAPHTHYLENE	ug/l	< 1.0	--	< 0.15	--	--	--	--	--	--
ANTHRACENE	ug/l	< 1.0	--	< 0.19	--	--	--	--	--	--
BENZO(A)ANTHRACENE	ug/l	< 1.0	--	< 0.27	--	--	--	--	--	--
BENZO(A)PYRENE	ug/l	< 2.0	--	< 0.60	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	ug/l	< 2.0	--	< 0.36	--	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	< 2.0	--	< 0.69	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	ug/l	< 2.0	--	< 0.58	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	< 2.0	--	< 0.30	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	--	--	< 0.19	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	--	< 1.12	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	4.3 U	--	0.31 U	--	--	1.9 J	--	--	TRU
BUTYL BENZYL PHTHALATE	ug/l	< 1.0	--	< 0.28	--	--	--	--	--	--
CAMPHENE	ug/l	--	--	< 0.32	--	--	--	--	--	--
CHRYSENE	ug/l	< 1.0	--	< 0.27	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	ug/l	< 2.0	--	0.82 U	--	--	0.7 J	--	--	--
DI-N-OCTYL PHTHALATE	ug/l	< 5.0	--	< 0.82	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	< 2.0	--	< 1.28	--	--	--	--	--	--
DIETHYL PHTHALATE	ug/l	< 1.0	--	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	ug/l	< 1.0	--	--	--	--	--	--	--	--
DIPHENYL ETHER	ug/l	--	--	< 2.0	--	--	--	--	--	--
DIPHENYLAMINE	ug/l	--	--	< 0.10	--	--	0.7 J	--	--	--
FLUORANTHENE	ug/l	< 1.0	--	< 0.13	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(c)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
BASE/NEUTRAL EXTRACTABLES (cont'd)										
FLUORENE	ug/l	< 1.0	--	< 0.13	--	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	< 4.0	--	--	--	--	--	--	--	--
HEXACHLOROETHANE	ug/l	< 5.0	--	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	--	--	< 1.14	--	--	--	--	--	--
INDOLE	ug/l	--	--	< 0.44	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	< 1.0	--	< 0.27	--	--	--	--	--	--
NAPHTHALENE	ug/l	< 2.0	--	< 0.17	--	--	--	--	--	--
NITROBENZENE	ug/l	< 2.0	--	--	--	--	--	--	--	--
PERYLENE	ug/l	--	--	< 0.60	--	--	--	--	--	--
PHENANTHRENE	ug/l	< 1.0	--	< 0.20	--	--	--	--	--	--
PYRENE	ug/l	< 1.0	--	< 0.26	--	--	--	--	--	--
METALS										
ALUMINUM	mg/l	0.26	--	0.34	--	0.24	--	--	--	--
ARSENIC	mg/l	< 0.001	< 0.002	0.002	0.002	3	--	--	--	0.003
BARIUM	mg/l	0.29	--	0.32	--	0.25	--	--	--	0.404
BISMUTH	mg/l	--	--	--	--	--	--	--	--	< 0.04
CADMIUM	mg/l	0.0006	0.0008	0.0008	0.0008	0.010	--	--	--	< 0.003
CHROMIUM	mg/l	< 0.01	--	0.006	--	0.008	--	--	--	< 0.005
COBALT	mg/l	--	--	--	--	--	--	--	--	< 0.005
COPPER	mg/l	0.020 U	--	0.040	--	< 0.003	--	--	--	0.056
CYANIDE	mg/l	< 0.002	--	--	--	--	--	--	--	--
CYANIDE FREE	mg/l	--	--	< 0.005	--	--	--	--	--	--
CYANIDE TOTAL	mg/l	--	--	< 0.002	--	--	--	--	--	--
IRON	mg/l	0.44	--	1.76	--	0.30	--	--	--	0.162
LEAD	mg/l	0.008	--	0.006	0.006	0.10	--	--	--	0.033
MERCURY	mg/l	0.0001	--	< 0.00005	--	0.10 R	--	--	--	< 0.001

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(d)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
METALS (cont'd)										
MOLYBDENUM	mg/l	--	--	--	--	--	--	--	--	< 0.006
NICKEL	mg/l	0.02	--	0.04	--	0.026	--	--	--	0.020
SELENIUM	mg/l	--	--	--	--	--	--	--	--	< 0.002
TIN	mg/l	0.30	--	0.20	--	0.20	--	--	--	--
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	0.163	--	0.033
VANADIUM	mg/l	--	--	--	--	0.02	--	--	--	--
ZINC	mg/l	0.03	--	0.09	--	0.016	--	--	--	0.083
GENERAL CHEMISTRY										
ALKALINITY	mg/l	312	--	1181	--	1078	1173	1548	--	272
AMMONIA NITROGEN	mg/l	105	--	28.7	--	13.6	29.1	105	--	90.5
BOD	mg/l	--	--	--	--	--	--	< 5	--	58
CHLORIDE	mg/l	670	--	400	--	357	420	605	--	625
COD	mg/l	--	--	--	--	--	--	201	--	150
CONDUCTIVITY	umhos/cm	3460	--	2530	--	2550	2590	2980	--	--
FLUORIDE	mg/l	0.28	--	--	--	0.3	--	0.3	--	0.2
HARDNESS	mg/l	--	--	--	--	--	--	1185	--	1150
KJELDAHL NITROGEN	mg/l	111	--	56.3	--	54.3	43.7	138	--	120
PH		7.11	--	7.14	--	7.25	6.75	7.07	--	--
PHENOLS	ug/l	5	--	8	--	7	6	7	--	7
SULFATE	mg/l	284	--	190	--	260	--	390 J	--	1192
SULFIDE	mg/l	< 0.1	--	--	--	< 0.1	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	16	--	46	--	38
PESTICIDES AND PCB's										
2,4-DDT	ug/l	< 0.020	--	--	--	--	--	--	--	--
4,4-DDD	ug/l	< 0.020	--	0.021	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(e)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
PESTICIDES AND PCB's (cont'd)										
4,4-DDE	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
4,4-DDT	ug/l	< 0.020	--	--	--	--	--	--	--	--
ALDRIN	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
ALPHA-BHC	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
ALPHA-CHLORDANE	ug/l	< 0.020	--	0.0019	--	--	--	--	--	--
ALPHA-ENDOSULFAN	ug/l	< 0.020	--	--	--	--	--	--	--	--
BETA-BHC	ug/l	< 0.020	--	0.0012 U	--	--	8.3 J	--	--	--
BETA-ENDOSULFAN	ug/l	< 0.020	--	--	--	--	--	--	--	--
DDT'S	ug/l	--	--	< 0.005	--	--	--	--	--	--
DIELDRIN	ug/l	< 0.020	--	0.003	--	--	--	--	--	--
ENDOSULFAN I	ug/l	--	--	0.0032	--	--	--	--	--	--
ENDOSULFAN II	ug/l	--	--	< 0.004	--	--	--	--	--	--
ENDOSULFAN SULFATE	ug/l	< 0.020	--	0.011	--	--	--	--	--	--
ENDRIN	ug/l	< 0.020	--	< 0.004	--	--	--	--	--	--
GAMMA-BHC	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
GAMMA-CHLORDANE	ug/l	< 0.020	--	< 0.001	--	--	10.8 J	--	--	--
HEPTACHLOR	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
METHOXYCHLOR	ug/l	< 0.020	--	< 0.005	--	--	--	--	--	--
MIREX	ug/l	< 0.020	--	< 0.005	--	--	--	--	--	--
OXYCHLORDANE	ug/l	< 0.020	--	< 0.002	--	--	--	--	--	--
TOTAL PCB	ug/l	< 0.250	--	< 0.02	--	--	99 UJ	--	--	--
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	--	< 0.50	--	--	--	< 1	< 1	< 1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	< 1.0	--	< 0.33	--	--	--	< 2	< 2	< 2.0
1,1,2-TRICHLOROETHANE	ug/l	< 1.0	--	< 0.21	--	--	--	< 2	< 2	< 2.0
1,1-DICHLOROETHANE	ug/l	< 1.0	--	< 0.20	--	--	--	< 1	< 1	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(f)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)										
1,1-DICHLOROETHYLENE	ug/l	< 1.0	--	< 0.32	--	--	--	< 1	< 1	< 1.0
1,2,4-TRICHLOROBENZENE	ug/l	--	--	< 0.50	--	--	--	--	--	--
1,2,4-TRIMETHYLBENZENE	ug/l	1.53	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	< 1.0	--	< 0.24	--	--	--	< 1	< 1	< 1.0
1,2-DICHLOROETHANE	ug/l	< 1.0	--	< 0.82	--	--	--	< 1	< 1	< 1.0
1,2-DICHLOROPROPANE	ug/l	< 1.0	--	< 0.20	--	--	--	< 1	< 1	< 1.0
1,3-DICHLOROBENZENE	ug/l	3.11	--	< 0.23	--	--	--	< 1	< 1	< 1.0
1,4-DICHLOROBENZENE	ug/l	< 1.0	--	< 0.22	--	--	4.5 J	3.0	2.5	2.5
2-CHLOROETHYLVINYLETHER	ug/l	< 15.0	--	0.51	--	--	--	< 10	< 10	< 10
ACROLEIN	ug/l	< 15.0	--	--	--	--	--	--	--	--
ACRYLONITRILE	ug/l	< 15.0	--	--	--	--	--	--	--	--
BENZENE	ug/l	1.46 U	--	0.19 U	--	--	--	< 0.5	< 0.5	TR
BIS(CHLOROMETHYL)ETHER	ug/l	< 180.0	--	--	--	--	--	--	--	--
BROMOFORM	ug/l	< 1.0	--	0.22 U	--	--	--	< 2	< 2	< 2.0
BROMOMETHANE	ug/l	< 2.0	--	0.83 U	--	--	--	< 2	< 2	< 2.0
CARBON TETRACHLORIDE	ug/l	< 1.0	--	< 0.93	--	--	--	< 1	< 1	< 1.0
CHLOROBENZENE	ug/l	17.41	--	< 0.27	--	--	17 J	< 0.5	< 0.5	< 0.5
CHLOROETHANE	ug/l	< 2.0	--	4.7	--	--	--	< 2	< 2	< 2.0
CHLOROFORM	ug/l	< 1.0	--	< 0.51 UJ	--	--	--	< 1	< 1	< 1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	--	--	--	--	--	< 1	< 1	< 1.0
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	--	< 0.27	--	--	--	< 1	< 1	< 1.0
DIBROMOCHLOROMETHANE	ug/l	< 1.0	--	< 0.24	--	--	--	< 1	< 1	< 1.0
DICHLOROBROMOMETHANE	ug/l	< 1.0	--	< 0.50	--	--	--	< 2	< 2	< 2.0
DICHLORODIFLUOROMETHANE	ug/l	< 2.0	--	< 0.50	--	--	--	--	--	--
ETHYLBENZENE	ug/l	< 0.5	--	< 0.24	--	--	--	< 0.5	< 0.5	< 0.5
M&P-XYLENE	ug/l	TR	--	< 0.21	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	< 2.0	--	< 0.65 UJ	--	--	--	< 2	< 2	< 2.0
METHYLENE CHLORIDE	ug/l	TR	--	< 0.92 UJ	--	--	193 UJ	195	194	10.0 U
O-XYLENE	ug/l	TR	--	0.19 U	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(g)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)										
TETRACHLOROETHYLENE	ug/l	< 1.0	--	< 0.21	--	--	--	< 1	< 1	< 1.0
TOLUENE	ug/l	TR	--	< 0.24	--	--	--	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	--	0.20	--	--	--	< 1	< 1	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	--	--	--	--	--	< 1	< 1	< 1.0
TRICHLOROETHYLENE	ug/l	< 1.0	--	< 0.92	--	--	--	< 1	< 1	< 1.0
TRICHLOROFLUOROMETHANE	ug/l	< 2.0	--	< 0.26	--	--	--	< 2	< 2	< 2.0
VINYL CHLORIDE	ug/l	< 2.0	--	< 0.74	--	--	--	< 2	< 2	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 5(a)

COMPOUND (by Class)	Units	MH13 Apr.'91	MH15 Oct.'91	Apr.'92	Oct.'92	Jan.'93	Mar.'93	Apr.'93	Oct.'93
BASE/NEUTRAL EXTRACTABLES									
BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	4.7	< 2	< 0.5	< 0.5	--	< 1.0 U	TRU	0.002
METALS									
ALUMINUM	mg/l	--	0.068 U	0.083	0.187 U	--	--	0.034	0.323 U
ANTIMONY	mg/l	--	--	--	--	< 0.002	--	< 0.05	< 0.002
ARSENIC	mg/l	0.003	< 0.002	0.004	0.004	--	--	< 0.06	< 0.01
BARIUM	mg/l	0.332	0.309	0.230	0.406	--	--	0.260	0.389
BERYLLIUM	mg/l	--	< 0.003	< 0.003	< 0.003	--	--	< 0.003	--
BISMUTH	mg/l	< 0.04	< 0.04	< 0.04	< 0.04	--	--	< 0.04	< 0.04
BORON	mg/l	--	--	--	--	--	--	1.26	--
CADMIUM	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	--	--	< 0.003	0.004
CALCIUM	mg/l	--	194	181	217	--	--	180	--
CHROMIUM	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	--	--	< 0.005	< 0.005
COBALT	mg/l	< 0.005	0.005	< 0.005	0.005	--	--	< 0.005	0.005
COPPER	mg/l	--	0.159	0.053	0.149	--	--	0.186	18.9
CYANIDE TOTAL	mg/l	--	--	--	< 0.005	--	--	< 0.005	< 0.005
IRON	mg/l	--	0.096 U	4.44	10.4	--	--	4.13	16.6
LEAD	mg/l	0.036	0.031	0.037 U	0.062 U	--	--	0.021	0.096
LITHIUM	mg/l	--	--	--	--	--	--	< 0.2	--
MAGNESIUM	mg/l	--	170	107	152	--	--	111	--
MANGANESE	mg/l	--	0.654	0.514	0.921	--	--	0.528	0.888
MERCURY	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	--	--	< 0.001	< 0.001
MOLYBDENUM	mg/l	< 0.006	< 0.006	< 0.006	< 0.006	--	--	< 0.006	< 0.006
NICKEL	mg/l	< 0.01	< 0.01	< 0.01	0.011	--	--	0.011	0.020
PHOSPHORUS	mg/l	--	--	--	--	--	--	< 0.4	--
POTASSIUM	mg/l	--	137	62.6	113	--	--	70.9	--
SELENIUM	mg/l	0.006	0.004 U	< 0.002	< 0.002	--	--	< 0.05	< 0.01
SILICON	mg/l	--	--	--	--	--	--	7.58	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 5(b)

COMPOUND (by Class)	Units	MH13 Apr.'91	MH15 Oct.'91	Apr.'92	Oct.'92	Jan.'93	Mar.'93	Apr.'93	Oct.'93
METALS (cont'd)									
SILVER	mg/l	--	< 0.01	< 0.01	< 0.01	--	--	< 0.01	< 0.007
SODIUM	mg/l	--	371	148	264	--	--	152	--
STRONTIUM	mg/l	--	5.86	3.86	7.22	--	--	3.81	--
SULFUR	mg/l	--	--	--	--	--	--	44.5	--
THALLIUM	mg/l	--	--	--	--	--	--	< 0.06	--
TIN	mg/l	--	--	--	--	< 0.018	--	< 0.018	< 0.018
TITANIUM	mg/l	--	< 0.003	< 0.003	< 0.003	--	--	< 0.003	0.005
TOTAL PHOSPHORUS	mg/l	0.162	< 0.4	0.067	0.075	--	--	0.09	0.167
TUNGSTEN	mg/l	--	< 0.02	< 0.02	< 0.02	--	--	< 0.02	--
VANADIUM	mg/l	--	0.004	0.006	0.007	--	--	0.005	0.006 U
ZINC	mg/l	0.159	0.027 U	0.025	0.035	--	--	0.056	0.902
GENERAL CHEMISTRY									
ALKALINITY	mg/l	1015	1317	900	1141	--	--	1104	1254
AMMONIA NITROGEN	mg/l	59.0	0.19	17.7	80.8	--	--	38.0	86.5
BOD	mg/l	< 2	21	5	14	--	--	16	10
CHLORIDE	mg/l	482	693	251	474	--	--	335	574
COD	mg/l	96	147	187	248	--	--	162	170
CONDUCTIVITY	umhos/cm	2110	--	2845	2600	--	--	1400	3600
FLUORIDE	mg/l	< 0.10	< 0.10	0.65	< 0.10	--	--	< 0.10	< 0.10
HARDNESS	mg/l	928	1103	1076	1186	--	--	980	1200
KJELDAHL NITROGEN	mg/l	67.8	88.4	27.6	151	--	--	40.0	90.9
PH		6.5	--	7.20	7.18	--	--	6.96	7.3
PHENOLS	ug/l	6	6	2	6.0	--	--	3.7	6.6
SULFATE	mg/l	180	201	171	202	--	--	140	174
TOTAL SUSPENDED SOLIDS	mg/l	15	10	20	57	--	--	76	41

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 5(c)

COMPOUND (by Class)	Units	MH13 Apr.'91	MH15 Oct.'91	Apr.'92	Oct.'92	Jan.'93	Mar.'93	Apr.'93	Oct.'93
PESTICIDES AND PCB's									
2,4,5-TP (SILVEX)	ug/l	--	--	--	< 0.05	--	--	--	< 0.5
2,4-D	ug/l	--	--	--	< 0.2	--	--	--	< 2
2,4-DDT	ug/l	--	--	--	--	--	--	--	< 0.2
4,4-DDD	ug/l	--	--	--	--	--	--	< 0.020	--
4,4-DDE	ug/l	--	--	--	--	--	--	< 0.020	--
4,4-DDT	ug/l	--	--	--	--	--	--	< 0.020	< 0.2
ALDRIN	ug/l	--	--	--	< 0.02	--	--	< 0.020	< 0.2
ALPHA-BHC	ug/l	--	--	--	--	--	--	< 0.020	--
ALPHA-CHLORDANE	ug/l	--	--	--	--	--	--	< 0.020	< 0.2
ALPHA-ENDOSULFAN	ug/l	--	--	--	--	--	--	< 0.020	--
BETA-BHC	ug/l	--	--	--	--	--	--	< 0.020	--
BETA-ENDOSULFAN	ug/l	--	--	--	--	--	--	< 0.020	--
CARBARYL	ug/l	--	--	--	< 16	--	--	--	< 16
CHLORDANE	ug/l	--	--	--	< 0.02	--	--	--	--
DDT'S	ug/l	--	--	--	< 0.02	--	--	--	--
DELTA-BHC	ug/l	--	--	--	--	--	--	< 0.020	--
DIAZINON	ug/l	--	--	--	< 0.5	--	--	--	< 0.5
DIELDRIN	ug/l	--	--	--	< 0.02	--	--	< 0.020	< 0.2
ENDOSULFAN SULFATE	ug/l	--	--	--	--	--	--	< 0.020	--
ENDRIN	ug/l	--	--	--	< 0.02	--	--	< 0.020	< 0.2
ENDRIN ALDEHYDE	ug/l	--	--	--	--	--	--	< 0.020	--
GAMMA-BHC	ug/l	--	--	--	< 0.02	--	--	< 0.020	--
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	--	< 0.020	< 0.2
HEPTACHLOR	ug/l	--	--	--	< 0.02	--	--	< 0.020	< 0.2
HEPTACHLOR EPOXIDE	ug/l	--	--	--	< 0.02	--	--	< 0.020	< 0.2
LINDANE	ug/l	--	--	--	--	--	--	--	< 0.2
METHOXYCHLOR	ug/l	--	--	--	< 0.05	--	--	--	< 0.5
METHYL PARATHION	ug/l	--	--	--	< 0.5	--	--	--	< 0.5
PARATHION	ug/l	--	--	--	< 0.5	--	--	--	< 0.5

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 5(d)

COMPOUND (by Class)	Units	MH13 Apr.'91	MH15 Oct.'91	Apr.'92	Oct.'92	Jan.'93	Mar.'93	Apr.'93	Oct.'93
PESTICIDES AND PCB's (cont'd)									
TOTAL PCB	ug/l	--	--	--	< 0.5	--	--	< 0.500	< 5
TOXAPHENE	ug/l	--	--	--	< 1	--	--	< 0.500	< 10
VOLATILE ORGANIC COMPOUNDS									
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--
1,1,2-TRICHLOROETHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--
1,1-DICHLOROETHANE	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--
1,2-DICHLOROBENZENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--
1,2-DICHLOROETHANE	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0
1,2-DICHLOROPROPANE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--
1,3-DICHLOROBENZENE	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0
1,4-DICHLOROBENZENE	ug/l	3.4	< 1.0	3.7	4.1	--	--	< 1.0	3.5
2-CHLOROETHYLVINYLETHER	ug/l	--	< 10	--	--	--	--	< 10	--
BENZENE	ug/l	< 0.5	< 0.5	< 0.5	1.5	--	--	1.4	0.9
BROMOFORM	ug/l	--	< 2.0	--	--	--	--	< 2.0	--
BROMOMETHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--
CARBON TETRACHLORIDE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--
CHLOROBENZENE	ug/l	3.8	< 0.5	7.1	27	--	--	23	12
CHLOROETHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--
CHLOROFORM	ug/l	--	< 1.0	--	--	--	--	< 1.0	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--
DIBROMOCHLOROMETHANE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--
DICHLOROBROMOMETHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--
ETHYLBENZENE	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	--	--	< 0.5	< 0.5
M&P-XYLENE	ug/l	< 0.5	--	< 0.5	< 0.5	--	--	< 0.5	< 0.5
METHYL CHLORIDE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 5(e)

COMPOUND (by Class)	Units	MH13 Apr.'91	MH15 Oct.'91	Apr.'92	Oct.'92	Jan.'93	Mar.'93	Apr.'93	Oct.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)									
METHYLENE CHLORIDE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--
O-XYLENE	ug/l	< 0.5	--	< 0.5	< 0.5	--	--	< 0.5	< 0.5
TETRACHLOROETHYLENE	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0
TOLUENE	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	--	--	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--
TRICHLOROETHYLENE	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0
TRICHLOROFLUOROMETHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--
VINYL CHLORIDE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--

LEGEND

J - The associated value is an estimated quantity.
U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ - The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.
-- - The parameter was not analyzed.
ND - The material was analyzed, but not detected above an unstated method detection limit.
TR - Trace level detection.
< - Indicates result less than that shown.
> - Indicates result greater than that shown.
R - The data was not useable.
NS - Insufficient sample.
(a) - Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 1(a)

COMPOUND (by Class)	Units	BRINSE Dec.'87	BRINSE Feb.'88	FBLK Jun.'87	FBLK Aug.'87	FBLK Dec.'87	FBLK May.'88	FBLK Jul.'89	FBLK Nov.'89	FBLK Apr.'91
GENERAL CHEMISTRY										
ALKALINITY	mg/l	--	--	--	--	--	--	< 2.0	--	< 1
AMMONIA NITROGEN	mg/l	0.10	--	0.15	< 0.02	0.02	--	< 0.03	--	< 0.03
CHLORIDE	mg/l	--	--	--	--	--	--	< 1.0	--	< 0.10
CONDUCTIVITY	umhos/cm	--	--	< 2.0	11.0	--	--	--	--	4.26
FREE AMMONIA	mg/l	0.12	--	0.178	< 0.02	0.02	--	--	--	--
KJELDAHL NITROGEN	mg/l	0.15	--	0.320	0.03	0.02	--	< 0.06	--	< 0.06
ORGANIC NITROGEN	mg/l	--	--	0.17	0.03	0.00	--	--	--	--
PH		--	--	8.14	7.10	--	--	--	--	8.0
PHENOLS	ug/l	--	--	--	--	--	--	--	--	< 1
SULFATE	mg/l	--	--	--	--	--	--	< 1.0	--	< 0.10
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.24	< 0.50	--
1,1,2,2-TETRACHLOROETHANE	ug/l	< 2	< 1.0	--	--	--	--	< 0.33	< 0.33	--
1,1,2-TRICHLOROETHANE	ug/l	< 0.5	< 1.0	--	--	--	--	--	2.7	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	0.44	--	--
1,1-DICHLOROETHANE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.20	< 0.20	--
1,1-DICHLOROETHYLENE	ug/l	< 0.2	< 1.0	--	--	--	--	0.34	< 0.32	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	< 0.50	--
1,2-DICHLOROBENZENE	ug/l	< 0.3	< 1.0	--	--	--	--	< 0.24	< 0.24	--
1,2-DICHLOROETHANE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.82	< 0.82	--
1,2-DICHLOROPROPANE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.20	< 0.20	--
1,3-DICHLOROBENZENE	ug/l	< 0.3	< 1.0	--	--	--	--	< 0.23	< 0.23	--
1,4-DICHLOROBENZENE	ug/l	< 0.3	< 1.0	--	--	--	--	< 0.22	< 0.22	--
2-BUTANONE	ug/l	--	ND	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	< 10	--	--	--	--	--	< 0.40	< 0.50	--
A-METHYLSTYRENE	ug/l	< 0.2	--	--	--	--	--	--	--	--
ACETONE	ug/l	--	ND	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 1(b)

COMPOUND (by Class)	Units	BRINSE Dec.'87	BRINSE Feb.'88	FBLK Jun.'87	FBLK Aug.'87	FBLK Dec.'87	FBLK May.'88	FBLK Jul.'89	FBLK Nov.'89	FBLK Apr.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)										
BENZENE	ug/l	< 2	TR	--	--	--	--	0.51	< 0.19	--
BROMOFORM	ug/l	< 2	< 1.0	--	--	--	--	< 0.49	0.88	--
BROMOMETHANE	ug/l	< 0.2	< 2.0	--	--	--	--	< 0.83	< 0.83	--
CARBON TETRACHLORIDE	ug/l	< 1	< 1.0	--	--	--	--	< 0.93	< 0.93	--
CHLOROBENZENE	ug/l	< 0.2	< 0.5	--	--	--	--	< 0.27	< 0.27	--
CHLOROETHANE	ug/l	< 0.2	< 2.0	--	--	--	--	< 0.40	< 0.50	--
CHLOROFORM	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.51	2.9	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	< 1.0	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 0.5	< 1.0	--	--	--	--	< 0.27	< 0.27	--
DIBROMOCHLOROMETHANE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.24	< 0.24	--
DICHLOROBROMOMETHANE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.24	< 0.50	--
DICHLORODIFLUOROMETHANE	ug/l	--	< 2.0	--	--	--	--	--	< 0.50	--
ETHYLBENZENE	ug/l	1.4	< 0.5	--	--	--	--	0.39	< 0.24	--
M&P-XYLENE	ug/l	7.6	< 0.5	--	--	--	--	--	< 0.21	--
MESITYLENE	ug/l	0.4	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	< 0.2	< 2.0	--	--	--	--	< 0.65	5.0	--
METHYLENE CHLORIDE	ug/l	14	75.87	--	--	--	--	< 0.92	< 0.92	--
METHYLSTYRENE ISOMERS	ug/l	< 0.2	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	2.4	< 0.5	--	--	--	--	--	0.50	--
OTHER AROMATIC COMPOUNDS	ug/l	< 0.2	--	--	--	--	--	--	--	--
STYRENE	ug/l	1.6	ND	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.21	< 0.21	--
THF	ug/l	--	ND	--	--	--	--	--	--	--
TOLUENE	ug/l	10	TR	--	--	--	--	4.6	< 0.24	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.20	8.2	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	< 1.0	--	--	--	< 1	--	--	--
TRICHLOROETHYLENE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.39	< 0.92	--
TRICHLOROFLUOROMETHANE	ug/l	< 0.5	< 2.0	--	--	--	--	< 0.26	< 0.26	--
VINYL CHLORIDE	ug/l	< 0.5	< 2.0	--	--	--	--	< 0.74	< 0.74	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 2(a)

COMPOUND (by Class)	Units	FBLK Jul.'91	FBLK1 Oct.'91	Jul.'92	Jul.'93	Oct.'93	FBLK2 Apr.'92	Apr.'93	Jul.'93	TBLK Dec.'87
BASE/NEUTRAL EXTRACTABLES										
BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	--	--	--	--	< 0.002	--	--	--	--
METALS										
ALUMINUM	mg/l	--	0.068	--	--	0.054	--	--	--	--
ANTIMONY	mg/l	--	--	--	--	< 0.002	--	--	--	--
ARSENIC	mg/l	--	< 0.002	--	--	< 0.01	--	--	--	--
BARIUM	mg/l	--	< 0.003	--	--	< 0.003	--	--	--	--
BERYLLIUM	mg/l	--	< 0.003	--	--	--	--	--	--	--
BISMUTH	mg/l	--	< 0.04	--	--	< 0.04	--	--	--	--
CADMIUM	mg/l	--	< 0.003	--	--	< 0.003	--	--	--	--
CALCIUM	mg/l	--	0.886	--	--	--	--	--	--	--
CHROMIUM	mg/l	--	< 0.005	--	--	< 0.005	--	--	--	--
COBALT	mg/l	--	< 0.005	--	--	< 0.005	--	--	--	--
COPPER	mg/l	--	< 0.003	--	--	< 0.003	--	--	--	--
CYANIDE TOTAL	mg/l	--	--	--	--	< 0.005	--	--	--	--
IRON	mg/l	--	0.035	--	--	0.008 U	--	--	--	--
LEAD	mg/l	--	< 0.01	--	--	< 0.025	--	--	--	--
MAGNESIUM	mg/l	--	0.119	--	--	--	--	--	--	--
MANGANESE	mg/l	--	< 0.002	--	--	< 0.001	--	--	--	--
MERCURY	mg/l	--	< 0.001	--	--	< 0.001	--	--	--	--
MOLYBDENUM	mg/l	--	< 0.006	--	--	< 0.006	--	--	--	--
NICKEL	mg/l	--	< 0.01	--	--	< 0.01	--	--	--	--
POTASSIUM	mg/l	--	< 0.1	--	--	--	--	--	--	--
SELENIUM	mg/l	--	0.002	--	--	< 0.01	--	--	--	--
SILVER	mg/l	--	< 0.01	--	--	< 0.007	--	--	--	--
SODIUM	mg/l	--	1.69	--	--	--	--	--	--	--
STRONTIUM	mg/l	--	0.005	--	--	--	--	--	--	--
TIN	mg/l	--	--	--	--	< 0.018	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 2(b)

COMPOUND (by Class)	Units	FBLK Jul.'91	FBLK1 Oct.'91	Jul.'92	Jul.'93	Oct.'93	FBLK2 Apr.'92	Apr.'93	Jul.'93	TBLK Dec.'87
METALS (cont'd)										
TITANIUM	mg/l	--	< 0.003	--	--	< 0.003	--	--	--	--
TOTAL PHOSPHORUS	mg/l	--	< 0.4	--	--	< 0.005	--	--	--	--
TUNGSTEN	mg/l	--	< 0.02	--	--	--	--	--	--	--
VANADIUM	mg/l	--	< 0.003	--	--	0.004	--	--	--	--
ZINC	mg/l	--	0.089	--	--	0.004 U	--	--	--	--
BIOLOGICAL TESTING										
FAECAL COLIFORM	/100ml	--	--	--	< 1	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	--	< 1	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	< 1	--	--	--	--	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	< 1	< 1	1.7	< 1.0	< 1.0	1.6	< 1.0	< 1.0	--
AMMONIA NITROGEN	mg/l	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	--
BOD	mg/l	--	< 2	--	--	< 2	--	--	--	--
CHLORIDE	mg/l	0.50	0.20	0.32	< 0.10	< 0.10	< 0.10	0.48	< 0.10	--
COD	mg/l	--	< 5	--	--	< 5	--	--	--	--
CONDUCTIVITY	umhos/cm	1375	--	46	20	--	62.0	40	22	--
FLUORIDE	mg/l	--	< 0.10	--	--	< 0.10	--	--	--	--
HARDNESS	mg/l	--	< 0.1	--	--	< 0.1	--	--	--	--
KJELDAHL NITROGEN	mg/l	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	--
PH		8.5	--	8.23	8.7	--	8.02	8.26	8.5	--
PHENOLS	ug/l	< 1	< 1	< 1.0	< 1.0	< 1.0	2	< 1.0	< 1.0	--
SULFATE	mg/l	--	< 0.10	--	--	< 0.10	--	--	< 0.10	--
TOTAL SUSPENDED SOLIDS	mg/l	--	< 1	--	--	< 1	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 2(c)

COMPOUND (by Class)	Units	FBLK Jul.'91	FBLK1 Oct.'91	Jul.'92	Jul.'93	Oct.'93	FBLK2 Apr.'92	Apr.'93	Jul.'93	TBLK Dec.'87
PESTICIDES AND PCB's										
2,4,5-TP (SILVEX)	ug/l	--	--	--	--	< 0.5	--	--	--	--
2,4-D	ug/l	--	--	--	--	< 2	--	--	--	--
2,4-DDT	ug/l	--	--	--	--	< 0.2	--	--	--	--
4,4-DDT	ug/l	--	--	--	--	< 0.2	--	--	--	--
ALDRIN	ug/l	--	--	--	--	< 0.2	--	--	--	--
ALPHA-CHLORDANE	ug/l	--	--	--	--	< 0.2	--	--	--	--
CARBARYL	ug/l	--	--	--	--	< 16	--	--	--	--
DIAZINON	ug/l	--	--	--	--	< 0.5	--	--	--	--
DIELDRIN	ug/l	--	--	--	--	< 0.2	--	--	--	--
ENDRIN	ug/l	--	--	--	--	< 0.2	--	--	--	--
GAMMA-CHLORDANE	ug/l	--	--	--	--	< 0.2	--	--	--	--
HEPTACHLOR	ug/l	--	--	--	--	< 0.2	--	--	--	--
HEPTACHLOR EPOXIDE	ug/l	--	--	--	--	< 0.2	--	--	--	--
LINDANE	ug/l	--	--	--	--	< 0.2	--	--	--	--
METHOXYCHLOR	ug/l	--	--	--	--	< 0.5	--	--	--	--
METHYL PARATHION	ug/l	--	--	--	--	< 0.5	--	--	--	--
PARATHION	ug/l	--	--	--	--	< 0.5	--	--	--	--
TOTAL PCB	ug/l	--	--	--	--	< 5	--	--	--	--
TOXAPHENE	ug/l	--	--	--	--	< 10	--	--	--	--
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	--	--	< 1.0	< 1.0	--	--	< 1.0	4.1
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	< 2
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	< 0.5
1,1-DICHLOROETHANE	ug/l	< 1.0	--	--	< 1.0	< 1.0	--	--	< 1.0	< 0.2
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	1.6
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	< 0.3
1,2-DICHLOROETHANE	ug/l	< 1.0	--	--	< 1.0	< 1.0	--	--	< 1.0	< 0.2

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 2(d)

COMPOUND (by Class)	Units	FBLK Jul.'91	FBLK1 Oct.'91	Jul.'92	Jul.'93	Oct.'93	FBLK2 Apr.'92	Apr.'93	Jul.'93	TBLK Dec.'87
VOLATILE ORGANIC COMPOUNDS (cont'd)										
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	--	--	--	--	< 0.2
1,3-DICHLOROBENZENE	ug/l	< 1.0	--	--	< 1.0	< 1.0	--	--	< 1.0	< 0.3
1,4-DICHLOROBENZENE	ug/l	< 1.0	--	--	< 1.0	< 1.0	--	--	< 1.0	< 0.3
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	--	--	< 10
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	< 0.2
BENZENE	ug/l	< 0.5	--	--	< 0.5	< 0.5	--	--	< 0.5	< 2
BROMOFORM	ug/l	--	--	--	--	--	--	--	--	< 2
BROMOMETHANE	ug/l	--	--	--	--	--	--	--	--	< 0.2
CARBON TETRACHLORIDE	ug/l	--	--	--	--	--	--	--	--	< 1
CHLOROBENZENE	ug/l	< 0.5	--	--	< 0.5	< 2.0	--	--	< 0.5	< 0.2
CHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	< 0.2
CHLOROFORM	ug/l	--	--	--	--	--	--	--	--	0.3
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--	< 0.5
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	--	--	--	--	< 0.2
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	--	--	--	--	< 0.2
ETHYLBENZENE	ug/l	< 0.5	--	--	< 0.5	< 0.5	--	--	< 0.5	< 0.2
M&P-XYLENE	ug/l	< 0.5	--	--	< 0.5	< 0.5	--	--	< 0.5	< 0.3
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	< 0.2
METHYL CHLORIDE	ug/l	--	--	--	--	--	--	--	--	< 0.2
METHYLENE CHLORIDE	ug/l	--	--	--	--	--	--	--	--	< 10
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	< 0.2
O-XYLENE	ug/l	< 0.5	--	--	< 0.5	< 0.5	--	--	< 0.5	< 0.2
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	< 0.2
STYRENE	ug/l	--	--	--	--	--	--	--	--	< 0.2
TETRACHLOROETHYLENE	ug/l	< 1.0	--	--	< 1.0	< 1.0	--	--	< 1.0	< 0.2
TOLUENE	ug/l	< 0.5	--	--	< 0.5	< 0.5	--	--	< 0.5	< 3
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	< 0.2
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--	< 0.2
TRICHLOROETHANE	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 2(e)

COMPOUND (by Class)	Units	FBLK Jul.'91	FBLK1 Oct.'91	Jul.'92	Jul.'93	Oct.'93	FBLK2 Apr.'92	Apr.'93	Jul.'93	TBLK Dec.'87
VOLATILE ORGANIC COMPOUNDS (cont'd)										
TRICHLOROETHYLENE	ug/l	< 1.0	--	--	--	< 1.0	--	--	--	< 0.2
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	< 0.5
VINYL CHLORIDE	ug/l	--	--	--	--	--	--	--	--	< 0.5

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 3(a)

COMPOUND (by Class)	Units	TBLK Feb.'88	Jul.'89	Nov.'89	Aug.'90	Sep.'90	TBLK1 Oct.'91
BASE/NEUTRAL EXTRACTABLES							
BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	--	--	--	--	TR	< 2
VOLATILE ORGANIC COMPOUNDS							
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	< 0.24	< 0.50	< 1	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	ug/l	< 1.0	< 0.33	< 0.33	< 2	< 2.0	--
1,1,2-TRICHLOROETHANE	ug/l	< 1.0	--	< 0.21	< 2	< 2.0	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	< 0.21	--	--	--	--
1,1-DICHLOROETHANE	ug/l	< 1.0	< 0.20	< 0.20	< 1	< 1.0	--
1,1-DICHLOROETHYLENE	ug/l	< 1.0	< 0.32	< 0.32	< 1	< 1.0	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	< 0.50	--	--	--
1,2-DICHLOROBENZENE	ug/l	< 1.0	< 0.24	--	< 1	< 1.0	--
1,2-DICHLOROETHANE	ug/l	< 1.0	< 0.82	< 0.82	< 1	< 1.0	--
1,2-DICHLOROPROPANE	ug/l	< 1.0	< 0.20	< 0.20	< 1	< 1.0	--
1,3-DICHLOROBENZENE	ug/l	< 1.0	< 0.23	< 0.23	< 1	< 1.0	--
1,4-DICHLOROBENZENE	ug/l	< 1.0	< 0.22	< 0.22	< 1	< 1.0	--
2-BUTANONE	ug/l	ND	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	< 0.40	< 0.50	< 10	< 10	--
ACETONE	ug/l	ND	--	--	--	--	--
BENZENE	ug/l	TR	< 0.50	< 0.19	0.7	< 0.5	--
BROMOFORM	ug/l	< 1.0	< 0.49	< 0.49	< 2	< 2.0	--
BROMOMETHANE	ug/l	< 2.0	< 0.83	< 0.83	< 2	< 2.0	--
CARBON TETRACHLORIDE	ug/l	< 1.0	< 0.93	< 0.93	< 1	< 1.0	--
CHLOROBENZENE	ug/l	< 0.5	< 0.27	< 0.27	< 0.5	< 0.5	--
CHLOROETHANE	ug/l	< 2.0	< 0.40	< 0.50	< 2	< 2.0	--
CHLOROFORM	ug/l	1.81	< 0.51	< 0.51	< 1	1.7 U	--
CIS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	--	--	< 1	< 1.0	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	< 0.27	< 0.27	< 1	< 1.0	--
DIBROMOCHLOROMETHANE	ug/l	< 1.0	< 0.24	< 0.24	< 1	< 1.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 3(b)

COMPOUND (by Class)	Units	TBLK Feb.'88	Jul.'89	Nov.'89	Aug.'90	Sep.'90	TBLK1 Oct.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)							
DICHLOROBROMOMETHANE	ug/l	< 1.0	< 0.24	< 0.50	< 2	< 2.0	--
DICHLORODIFLUOROMETHANE	ug/l	< 2.0	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	< 0.50	--	--	--
ETHYLBENZENE	ug/l	< 0.5	< 0.24	< 0.24	< 0.5	< 0.5	--
M&P-XYLENE	ug/l	< 0.5	--	< 0.21	--	--	--
METHYL CHLORIDE	ug/l	< 2.0	< 0.65	< 0.65	< 2	< 2.0	--
METHYLENE CHLORIDE	ug/l	3.38	< 0.92	< 0.92	11.8	113 U	--
O-XYLENE	ug/l	< 0.5	--	< 0.19	--	--	--
STYRENE	ug/l	ND	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	< 1.0	< 0.21	< 0.21	< 1	< 1.0	--
THF	ug/l	ND	--	--	--	--	--
TOLUENE	ug/l	TR	< 0.24	< 0.24	TR	0.7 U	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	< 0.20	1.31	< 1	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	< 0.10	--	< 1	< 1.0	--
TRICHLOROETHYLENE	ug/l	< 1.0	< 0.39	< 0.92	< 1	< 1.0	--
TRICHLOROFLUOROMETHANE	ug/l	< 2.0	< 0.26	< 0.26	< 2	< 2.0	--
VINYL CHLORIDE	ug/l	< 2.0	< 0.74	< 0.74	< 2	< 2.0	--

LEGEND

J - The associated value is an estimated quantity.

U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

UJ - The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.

-- - The parameter was not analyzed.

ND - The material was analyzed, but not detected above an unstated method detection limit.

TR - Trace level detection.

< - Indicates result less than that shown.

> - Indicates result greater than that shown.

R - The data was not useable.

NS - Insufficient sample.

(a) - Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(a)

COMPOUND (by Class)	Units	FBLK Mar.'87	May.'87	Nov.'88	Jan.'89	May.'89	Jul.'89	FBLK1 May.'86	Oct.'92	Jan.'93
ACID EXTRACTABLES										
2,4,6-TRICHLOROPHENOL	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
2,4-DICHLOROPHENOL	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
2,4-DIMETHYL PHENOL	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
2,4-DINITROPHENOL	ug/l	--	< 3.0	--	--	--	--	< 3.0	--	--
2-CHLOROPHENOL	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
2-NITROPHENOL	ug/l	--	< 5.0	--	--	--	--	< 5.0	--	--
4,6-DINITRO-O-CRESOL	ug/l	--	< 5.0	--	--	--	--	< 5.0	--	--
4-NITROPHENOL	ug/l	--	< 5.0	--	--	--	--	< 25.0	--	--
P-CHLORO-M-CRESOL	ug/l	--	< 5.0	--	--	--	--	< 5.0	--	--
PENTACHLOROPHENOL	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
PHENOL	ug/l	--	--	--	--	--	--	< 3.0	--	--
BASE/NEUTRAL EXTRACTABLES										
1,2,4-TRICHLOROBENZENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
1,2-DICHLOROBENZENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	--	< 5.0	--	--	--	--	< 5.0	--	--
1,3-DICHLOROBENZENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
1,4-DICHLOROBENZENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
2,4-DINITROTOLUENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
2,6-DINITROTOLUENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
2-CHLORONAPHTHALENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
3,3'-DICHLOROBENZIDINE	ug/l	--	< 5.0	--	--	--	--	< 5.0	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
9H-FLUORENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
ACENAPHTHENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
ACENAPHTHYLENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
ANTHRACENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(b)

COMPOUND (by Class)	Units	FBLK Mar.'87	May.'87	Nov.'88	Jan.'89	May.'89	Jul.'89	FBLK1 May.'86	Oct.'92	Jan.'93
BASE/NEUTRAL EXTRACTABLES (cont'd)										
BENZIDINE	ug/l	--	< 5.0	--	--	--	--	< 5.0	--	--
BENZO(A)ANTHRACENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BENZO(A)PYRENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BENZO(B)FLUORANTHENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BENZO(GHI)PERYLENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BENZO(K)FLUORANTHENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	39.3	--	--	--	--	18.8	< 0.5	--
BUTYL BENZYL PHTHALATE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
CHRYSENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
DI-N-BUTYL PHTHALATE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
DI-N-OCTYL PHTHALATE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
DIETHYL PHTHALATE	ug/l	--	TR	--	--	--	--	TR	--	--
DIMETHYL PHTHALATE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
FLUORANTHENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
HEXACHLOROBENZENE	ug/l	< 0.020	< 1.0	< 0.020	< 0.020	--	--	< 1.0	--	--
HEXACHLOROBUTADIENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
HEXACHLOROETHANE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
ISOPHORONE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	< 3.0	--	--	--	--	< 3.0	--	--
N-NITROSODIPHENYLAMINE	ug/l	--	< 4.0	--	--	--	--	< 4.0	--	--
NAPHTHALENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
NITROBENZENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
PHENANTHRENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(c)

COMPOUND (by Class)	Units	FBLK Mar.'87	FBLK May.'87	FBLK Nov.'88	FBLK Jan.'89	FBLK May.'89	FBLK Jul.'89	FBLK1 May.'86	FBLK1 Oct.'92	FBLK1 Jan.'93
BASE/NEUTRAL EXTRACTABLES (cont'd)										
PYRENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
METALS										
ALUMINUM	mg/l	--	--	--	--	--	--	--	0.054	--
ANTIMONY	mg/l	--	--	--	--	--	--	--	--	< 0.002
ARSENIC	mg/l	--	--	--	--	--	--	--	< 0.002	--
BARIUM	mg/l	--	--	--	--	--	--	--	< 0.003	--
BERYLLIUM	mg/l	--	--	--	--	--	--	--	< 0.003	--
BISMUTH	mg/l	--	--	--	--	--	--	--	< 0.04	--
CADMIUM	mg/l	--	--	--	--	--	--	--	< 0.003	--
CALCIUM	mg/l	--	--	--	--	--	--	--	0.107	--
CHROMIUM	mg/l	--	--	--	--	--	--	--	< 0.005	--
COBALT	mg/l	--	--	--	--	--	--	--	< 0.005	--
COPPER	mg/l	--	--	--	--	--	--	--	0.004	--
CYANIDE TOTAL	mg/l	--	--	--	--	--	--	--	< 0.005	--
IRON	mg/l	--	--	--	--	--	--	--	0.025	--
LEAD	mg/l	--	--	--	--	--	--	--	< 0.01	--
MAGNESIUM	mg/l	--	--	--	--	--	--	--	< 0.1	--
MANGANESE	mg/l	--	--	--	--	--	--	--	< 0.001	--
MERCURY	mg/l	--	--	--	--	--	--	--	< 0.001	--
MOLYBDENUM	mg/l	--	--	--	--	--	--	--	< 0.006	--
NICKEL	mg/l	--	--	--	--	--	--	--	< 0.01	--
POTASSIUM	mg/l	--	--	--	--	--	--	--	< 1	--
SELENIUM	mg/l	--	--	--	--	--	--	--	< 0.002	--
SILVER	mg/l	--	--	--	--	--	--	--	< 0.01	--
SODIUM	mg/l	--	--	--	--	--	--	--	0.482	--
STRONTIUM	mg/l	--	--	--	--	--	--	--	< 0.003	--
TIN	mg/l	--	--	--	--	--	--	--	--	< 0.18

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(d)

COMPOUND (by Class)	Units	FBLK Mar.'87	May.'87	Nov.'88	Jan.'89	May.'89	Jul.'89	FBLK1 May.'86	Oct.'92	Jan.'93
METALS (cont'd)										
TITANIUM	mg/l	--	--	--	--	--	--	--	< 0.003	--
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	< 0.005	--
TUNGSTEN	mg/l	--	--	--	--	--	--	--	< 0.02	--
VANADIUM	mg/l	--	--	--	--	--	--	--	< 0.003	--
ZINC	mg/l	--	--	--	--	--	--	--	0.005	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	--	--	--	--	--	--	--	2.8	--
AMMONIA NITROGEN	mg/l	--	--	--	--	--	--	--	< 0.03	--
BOD	mg/l	--	--	--	--	--	--	--	< 2	--
CHLORIDE	mg/l	--	--	--	--	--	--	--	< 0.10	--
COD	mg/l	--	--	--	--	--	--	--	< 5	--
CONDUCTIVITY	umhos/cm	--	--	--	--	--	--	--	53.0	--
FLUORIDE	mg/l	--	--	--	--	--	--	--	< 0.10	--
HARDNESS	mg/l	--	--	--	--	--	--	--	< 0.1	--
KJELDAHL NITROGEN	mg/l	--	--	--	--	--	--	--	< 0.06	--
PH		--	--	--	--	--	--	--	8.36	--
PHENOLS	ug/l	--	--	--	--	--	--	--	< 1.0	--
SULFATE	mg/l	--	--	--	--	--	--	--	< 0.10	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	< 1	--
PESTICIDES AND PCB's										
2,4,5-TP (SILVEX)	ug/l	--	--	--	--	--	--	--	< 0.05	--
2,4-D	ug/l	--	--	--	--	--	--	--	< 0.2	--
2,4-DDD	ug/l	< 0.020	< 0.020	< 0.020	--	--	--	--	--	--
2,4-DDT	ug/l	--	< 0.020	--	< 0.020	< 0.010	< 0.020	--	--	--
4,4-DDD	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(e)

COMPOUND (by Class)	Units	FBLK Mar.'87	FBLK May.'87	FBLK Nov.'88	FBLK Jan.'89	FBLK May.'89	FBLK Jul.'89	FBLK1 May.'86	FBLK1 Oct.'92	FBLK1 Jan.'93
PESTICIDES AND PCB's (cont'd)										
4,4-DDE	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
4,4-DDT	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
ALDRIN	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.02	--
ALPHA-BHC	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
ALPHA-CHLORDANE	ug/l	< 0.020	< 0.020	--	< 0.020	< 0.010	< 0.020	--	--	--
ALPHA-ENDOSULFAN	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
BETA-BHC	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
BETA-ENDOSULFAN	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
CARBARYL	ug/l	--	--	--	--	--	--	--	< 16	--
CHLORDANE	ug/l	--	--	--	--	--	--	--	< 0.02	--
DDT'S	ug/l	--	--	--	--	--	--	--	< 0.02	--
DELTA-BHC	ug/l	--	--	< 0.020	< 0.020	--	--	--	--	--
DIAZINON	ug/l	--	--	--	--	--	--	--	< 0.5	--
DIELDRIN	ug/l	< 0.020	--	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.02	--
ENDOSULFAN SULFATE	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
ENDRIN	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.02	--
ENDRIN ALDEHYDE	ug/l	--	--	< 0.020	--	--	--	--	--	--
GAMMA-BHC	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.02	--
GAMMA-CHLORDANE	ug/l	< 0.020	< 0.020	--	< 0.020	< 0.010	< 0.020	--	--	--
HEPTACHLOR	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.02	--
HEPTACHLOR EPOXIDE	ug/l	< 0.020	--	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.02	--
HEXACHLOROBENZENE	ug/l	--	< 0.020	< 0.020	--	--	< 0.020	--	--	--
METHOXYCHLOR	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.05	--
METHYL PARATHION	ug/l	--	--	--	--	--	--	--	< 0.5	--
MIREX	ug/l	< 0.020	< 0.020	< 0.020	< 0.050	< 0.010	< 0.020	--	--	--
OXYCHLORDANE	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
PARATHION	ug/l	--	--	--	--	--	--	--	< 0.5	--
TOTAL PCB	ug/l	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.250	--	< 0.5	--
TOXAPHENE	ug/l	--	--	--	--	--	--	--	< 1	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(f)

COMPOUND (by Class)	Units	FBLK Mar.'87	May.'87	Nov.'88	Jan.'89	May.'89	Jul.'89	FBLK1 May.'86	Oct.'92	Jan.'93
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
1,1-DICHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
1,2-DICHLOROPROPANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
1,4-DICHLOROBENZENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
BENZENE	ug/l	--	--	< 0.5	TR	--	--	--	< 0.5	--
BROMOFORM	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
BROMOMETHANE	ug/l	--	--	< 2.0	< 2.0	--	--	--	--	--
CARBON TETRACHLORIDE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
CHLOROBENZENE	ug/l	--	--	< 0.5	< 0.5	--	--	--	< 0.5	--
CHLOROETHANE	ug/l	--	--	< 2.0	< 2.0	--	--	--	--	--
CHLOROFORM	ug/l	--	--	< 1.0	1.47	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	< 2.0	< 2.0	--	--	--	--	--
ETHYLBENZENE	ug/l	--	--	< 0.5	< 0.5	--	--	--	< 0.5	--
M&P-XYLENE	ug/l	--	--	0.77	< 0.5	--	--	--	< 0.5	--
METHYL CHLORIDE	ug/l	--	--	< 2.0	< 2.0	--	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
O-XYLENE	ug/l	--	--	0.51	< 0.5	--	--	--	< 0.5	--
TETRACHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
TOLUENE	ug/l	--	--	0.52	0.61	--	--	--	< 0.5	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(g)

COMPOUND (by Class)	Units	FBLK Mar.'87	May.'87	Nov.'88	Jan.'89	May.'89	Jul.'89	FBLK1 May.'86	Oct.'92	Jan.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)										
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
TRICHLOROFLUOROMETHANE	ug/l	--	--	< 2.0	< 2.0	--	--	--	--	--
VINYL CHLORIDE	ug/l	--	--	< 2.0	< 2.0	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 2(a)

COMPOUND (by Class)	Units	FBLK2 May.'86	FBLK3 May.'86	Apr.'92	TBLK May.'86	Mar.'87	Nov.'88	Jan.'89	May.'89
ACID EXTRACTABLES									
2,4,6-TRICHLOROPHENOL	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
2,4-DICHLOROPHENOL	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
2,4-DINITROPHENOL	ug/l	< 5.0	< 3.0	--	--	--	--	--	--
2-CHLOROPHENOL	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
2-NITROPHENOL	ug/l	< 3.0	< 5.0	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	< 5.0	< 5.0	--	--	--	--	--	--
4-NITROPHENOL	ug/l	< 5.0	< 5.0	--	--	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	< 5.0	< 5.0	--	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
PHENOL	ug/l	< 3.0	< 3.0	--	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES									
1,2,4-TRICHLOROBENZENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	< 5.0	< 5.0	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
1,4-DICHLOROBENZENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
2,4-DINITROTOLUENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
2,6-DINITROTOLUENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
2-CHLORONAPHTHALENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	< 5.0	< 5.0	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
9H-FLUORENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
ACENAPHTHENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
ACENAPHTHYLENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
ANTHRACENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 2(b)

COMPOUND (by Class)	Units	FBLK2 May.'86	FBLK3 May.'86	Apr.'92	TBLK May.'86	Mar.'87	Nov.'88	Jan.'89	May.'89
BASE/NEUTRAL EXTRACTABLES (cont'd)									
BENZIDINE	ug/l	< 5.0	< 5.0	--	--	--	--	--	--
BENZO(A)ANTHRACENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
BENZO(A)PYRENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	ug/l	< 2.0	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	22.3	14.4	< 0.5	--	--	--	--	--
BUTYL BENZYL PHTHALATE	ug/l	6.3	5.6	--	--	--	--	--	--
CHRYSENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	ug/l	< 1.0	4.0	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
DIETHYL PHTHALATE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
DIMETHYL PHTHALATE	ug/l	3.3	4.9	--	--	--	--	--	--
FLUORANTHENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
HEXACHLOROBUTADIENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
HEXACHLOROETHANE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
ISOPHORONE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	< 3.0	< 3.0	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	ug/l	< 4.0	< 4.0	--	--	--	--	--	--
NAPHTHALENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
NITROBENZENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
PHENANTHRENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 2(c)

COMPOUND (by Class)	Units	FBLK2 May.'86	FBLK3 May.'86	Apr.'92	TBLK May.'86	Mar.'87	Nov.'88	Jan.'89	May.'89
BASE/NEUTRAL EXTRACTABLES (cont'd)									
PYRENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
METALS									
ALUMINUM	mg/l	--	--	< 0.25	--	--	--	--	--
ARSENIC	mg/l	--	--	< 0.002	--	--	--	--	--
BARIUM	mg/l	--	--	< 0.003	--	--	--	--	--
BERYLLIUM	mg/l	--	--	< 0.003	--	--	--	--	--
BISMUTH	mg/l	--	--	< 0.04	--	--	--	--	--
CADMIUM	mg/l	--	--	< 0.003	--	--	--	--	--
CALCIUM	mg/l	--	--	< 0.1	--	--	--	--	--
CHROMIUM	mg/l	--	--	< 0.005	--	--	--	--	--
COBALT	mg/l	--	--	< 0.005	--	--	--	--	--
COPPER	mg/l	--	--	0.006	--	--	--	--	--
IRON	mg/l	--	--	< 0.005	--	--	--	--	--
LEAD	mg/l	--	--	0.013	--	--	--	--	--
MAGNESIUM	mg/l	--	--	< 0.1	--	--	--	--	--
MANGANESE	mg/l	--	--	< 0.001	--	--	--	--	--
MERCURY	mg/l	--	--	< 0.001	--	--	--	--	--
MOLYBDENUM	mg/l	--	--	< 0.006	--	--	--	--	--
NICKEL	mg/l	--	--	< 0.01	--	--	--	--	--
POTASSIUM	mg/l	--	--	< 1	--	--	--	--	--
SELENIUM	mg/l	--	--	0.003	--	--	--	--	--
SILVER	mg/l	--	--	< 0.01	--	--	--	--	--
SODIUM	mg/l	--	--	< 0.06	--	--	--	--	--
STRONTIUM	mg/l	--	--	< 0.003	--	--	--	--	--
TITANIUM	mg/l	--	--	< 0.003	--	--	--	--	--
TOTAL PHOSPHORUS	mg/l	--	--	< 0.05	--	--	--	--	--
TUNGSTEN	mg/l	--	--	< 0.02	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 2(d)

COMPOUND (by Class)	Units	FBLK2 May.'86	FBLK3 May.'86	Apr.'92	TBLK May.'86	Mar.'87	Nov.'88	Jan.'89	May.'89
METALS (cont'd)									
VANADIUM	mg/l	--	--	< 0.003	--	--	--	--	--
ZINC	mg/l	--	--	< 0.003	--	--	--	--	--
GENERAL CHEMISTRY									
ALKALINITY	mg/l	--	--	1.6	--	--	--	--	--
AMMONIA NITROGEN	mg/l	--	--	< 0.03	--	--	--	--	--
BOD	mg/l	--	--	< 2	--	--	--	--	--
CHLORIDE	mg/l	--	--	0.27	--	--	--	--	--
COD	mg/l	--	--	< 5	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	--	55.0	--	--	--	--	--
FLUORIDE	mg/l	--	--	< 0.10	--	--	--	--	--
HARDNESS	mg/l	--	--	< 0.1	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	--	< 0.06	--	--	--	--	--
PH		--	--	8.08	--	--	--	--	--
PHENOLS	ug/l	--	--	< 1	--	--	--	--	--
SULFATE	mg/l	--	--	< 0.10	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	< 1	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS									
1,1,1-TRICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	< 2
1,2-DICHLOROBENZENE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,2-DICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 2(e)

COMPOUND (by Class)	Units	FBLK2 May.'86	FBLK3 May.'86	Apr.'92	TBLK May.'86	Mar.'87	Nov.'88	Jan.'89	May.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)									
1,2-DICHLOROPROPANE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	< 5
1,3-DICHLOROBENZENE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	--
1,4-DICHLOROBENZENE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	TR	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	--	< 50
BENZENE	ug/l	--	--	< 0.5	< 0.5	< 1.0	< 0.5	TR	--
BIS(CHLOROMETHYL)ETHER	ug/l	--	--	--	--	--	--	--	< 500
BROMOFORM	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
BROMOMETHANE	ug/l	--	--	--	< 2.0	--	< 2.0	< 2.0	--
CARBON TETRACHLORIDE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
CHLOROBENZENE	ug/l	--	--	< 0.5	< 0.5	< 1.0	< 0.5	< 0.5	--
CHLOROETHANE	ug/l	--	--	--	< 2.0	--	< 2.0	< 2.0	--
CHLOROFORM	ug/l	--	--	--	TR	< 2.0	5.01	< 1.0	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	< 1.0	< 1.0	< 1.0
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	< 1.0	--	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
DICHLOROBROMOMETHANE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	< 2.0	--	< 2.0	< 2.0	< 2.0
ETHYLBENZENE	ug/l	--	--	< 0.5	< 0.5	< 1.0	< 0.5	< 0.5	--
M&P-XYLENE	ug/l	--	--	< 0.5	< 0.5	< 1.0	< 0.5	< 0.5	--
METHYL CHLORIDE	ug/l	--	--	--	< 2.0	--	< 2.0	< 2.0	< 2.0
METHYLENE CHLORIDE	ug/l	--	--	--	TR	< 2.0	< 1.0	2.67	--
O-XYLENE	ug/l	--	--	< 0.5	< 0.5	< 1.0	< 0.5	< 0.5	--
TETRACHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
TOLUENE	ug/l	--	--	0.6	< 0.5	TR	< 0.5	< 0.5	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	< 1.0	--	< 1.0	< 1.0	< 1.0
TRICHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	< 2.0	--	< 2.0	< 2.0	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 2(f)

COMPOUND (by Class)	Units	FBLK2 May.'86	FBLK3 May.'86	Apr.'92	TBLK May.'86	Mar.'87	Nov.'88	Jan.'89	May.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)									
VINYL CHLORIDE	ug/l	--	--	--	< 2.0	--	< 2.0	< 2.0	< 2.0

000459

LEGEND

J - The associated value is an estimated quantity.

U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

UJ - The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.

-- - The parameter was not analyzed.

ND - The material was analyzed, but not detected above an unstated method detection limit.

TR - Trace level detection.

< - Indicates result less than that shown.

> - Indicates result greater than that shown.

R - The data was not useable.

NS - Insufficient sample.

(a) - Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 1(a)

COMPOUND (by Class)	Units	FBLK May.'88	Aug.'88	Nov.'89	Apr.'90	Aug.'90	FBLK1 Oct.'91	LBLK1 Jul.'92	Mar.'93	Apr.'93
ACID EXTRACTABLES										
2,4,6-TRICHLOROPHENOL	ug/l	< 1	--	--	--	--	--	--	--	--
2,4-DICHLOROPHENOL	ug/l	< 1	--	--	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	ug/l	< 6	--	--	--	--	--	--	--	--
2,4-DINITROPHENOL	ug/l	< 6	--	--	--	--	--	--	--	--
2-CHLOROPHENOL	ug/l	< 1	--	--	--	--	--	--	--	--
2-NITROPHENOL	ug/l	< 2	--	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	< 5	--	--	--	--	--	--	--	--
4-NITROPHENOL	ug/l	< 5	--	--	--	--	--	--	--	--
DI-T-BUTYLMETHYLPHENOL	ug/l	ND	--	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	< 1	--	--	--	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	< 3	--	--	--	--	--	--	--	--
PHENOL	ug/l	< 1	--	--	--	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES										
1,2,4-TRICHLOROBENZENE	ug/l	< 1	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	< 1	--	--	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	< 1	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	< 1	--	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	ug/l	< 1	--	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	ug/l	< 3	--	--	--	--	--	--	--	--
2,6-DINITROTOLUENE	ug/l	< 3	--	--	--	--	--	--	--	--
2-CHLORONAPHTHALENE	ug/l	< 1	--	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	< 2	--	--	--	--	--	--	--	--
4-BROMOPHENYL ETHER	ug/l	< 1	--	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	< 1	--	--	--	--	--	--	--	--
ACENAPHTHENE	ug/l	< 1	--	--	--	--	--	--	--	--
ACENAPHTHYLENE	ug/l	< 1	--	--	--	--	--	--	--	--
ANTHRACENE	ug/l	< 1	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 1(b)

COMPOUND (by Class)	Units	FBLK May.'88	Aug.'88	Nov.'89	Apr.'90	Aug.'90	FBLK1 Oct.'91	LBLK1 Jul.'92	Mar.'93	Apr.'93
BASE/NEUTRAL EXTRACTABLES (cont'd)										
BENZIDINE	ug/l	< 20	--	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	ug/l	< 1	--	--	--	--	--	--	--	--
BENZO(A)PYRENE	ug/l	< 2	--	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	< 2	--	--	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	ug/l	< 2	--	--	--	--	--	--	--	--
BENZOTHIAZOLE	ug/l	ND	--	--	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	< 1	--	--	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	< 1	--	--	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	< 1	--	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	2.3	--	--	--	--	--	--	< 1.0 U	--
BUTYL BENZYL PHTHALATE	ug/l	< 4	--	--	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	ug/l	2.5	--	--	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	ug/l	< 1	--	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	< 4	--	--	--	--	--	--	--	--
DIETHYL PHTHALATE	ug/l	< 1	--	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	ug/l	< 1	--	--	--	--	--	--	--	--
FLUORANTHENE	ug/l	< 1	--	--	--	--	--	--	--	--
FLUORENE	ug/l	< 1	--	--	--	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	< 1	--	--	--	--	--	--	--	--
HEXACHLOROBUTADIENE	ug/l	< 3	--	--	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	< 5	--	--	--	--	--	--	--	--
HEXACHLOROETHANE	ug/l	< 3	--	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	< 4	--	--	--	--	--	--	--	--
ISOPHORONE	ug/l	< 1	--	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	< 1	--	--	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	ug/l	< 2	--	--	--	--	--	--	--	--
NAPHTHALENE	ug/l	< 1	--	--	--	--	--	--	--	--
NITROBENZENE	ug/l	< 1	--	--	--	--	--	--	--	--
P-CHLOROANILINE	ug/l	ND	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 1(c)

COMPOUND (by Class)	Units	FBLK May.'88	Aug.'88	Nov.'89	Apr.'90	Aug.'90	FBLK1 Oct.'91	LBLK1 Jul.'92	Mar.'93	Apr.'93
BASE/NEUTRAL EXTRACTABLES (cont'd)										
PHENANTHRENE	ug/l	< 1	--	--	--	--	--	--	--	--
PYRENE	ug/l	< 1	--	--	--	--	--	--	--	--
BIOLOGICAL TESTING										
FAECAL COLIFORM	/100ml	< 1	--	< 2	< 2	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	< 1	--	0	0	--	--	--	--	--
TOTAL COLIFORMS	/100ml	< 1	--	< 4	< 4	--	--	--	--	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	< 2.0	< 2.0	< 2.0	< 1	--	--	--	1.9	--
AMMONIA NITROGEN	mg/l	< 0.02	0.30	< 0.03	UJ< 0.03	--	--	--	--	--
CHLORIDE	mg/l	< 1.0	1.1	< 1.0	< 1.0	--	--	--	< 1	--
CONDUCTIVITY	umhos/cm	--	--	--	9.25	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	0.17	0.59	< 0.06	UJ< 0.06	--	--	--	--	--
PH		--	--	--	7.25	--	--	--	--	--
PHENOLS	ug/l	< 1	7	--	1	--	--	--	--	--
SULFATE	mg/l	3.1	< 1.0	< 1.0	< 1	--	--	--	< 0.5	--
PESTICIDES AND PCB's										
4,4-DDD	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDE	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDT	ug/l	--	--	--	--	--	--	--	--	< 0.020
ALDRIN	ug/l	--	--	--	--	--	--	--	--	< 0.020
ALPHA-BHC	ug/l	--	--	--	--	--	--	--	--	< 0.020
ALPHA-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	< 0.020
ALPHA-ENDOSULFAN	ug/l	--	--	--	--	--	--	--	--	< 0.020

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 1(d)

COMPOUND (by Class)	Units	FBLK May.'88	Aug.'88	Nov.'89	Apr.'90	Aug.'90	FBLK1 Oct.'91	LBLK1 Jul.'92	Mar.'93	Apr.'93
PESTICIDES AND PCB's (cont'd)										
BETA-BHC	ug/l	--	--	--	--	--	--	--	--	< 0.020
BETA-ENDOSULFAN	ug/l	--	--	--	--	--	--	--	--	< 0.020
DELTA-BHC	ug/l	--	--	--	--	--	--	--	--	< 0.020
DIELDRIN	ug/l	--	--	--	--	--	--	--	--	< 0.020
ENDOSULFAN SULFATE	ug/l	--	--	--	--	--	--	--	--	< 0.020
ENDRIN	ug/l	--	--	--	--	--	--	--	--	< 0.020
ENDRIN ALDEHYDE	ug/l	--	--	--	--	--	--	--	--	< 0.020
GAMMA-BHC	ug/l	--	--	--	--	--	--	--	--	< 0.020
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	< 0.020
HEPTACHLOR	ug/l	--	--	--	--	--	--	--	--	< 0.020
HEPTACHLOR EPOXIDE	ug/l	--	--	--	--	--	--	--	--	< 0.020
TOTAL PCB	ug/l	--	--	--	--	--	--	--	--	< 0.500
TOXAPHENE	ug/l	--	--	--	--	--	--	--	--	< 0.500
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 2	--	< 0.50	--	< 1	< 1.0	< 1.0	--	--
1,1,2,2-TETRACHLOROETHANE	ug/l	< 2	--	< 0.33	--	< 2	< 2.0	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	< 1	--	< 0.21	--	< 2	< 2.0	--	--	--
1,1-DICHLOROETHANE	ug/l	< 1	--	< 0.20	--	< 1	< 1.0	< 1.0	--	--
1,1-DICHLOROETHYLENE	ug/l	< 1	--	< 0.32	--	< 1	< 1.0	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	< 0.50	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	< 0.18	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	< 1	--	< 0.24	--	< 1	< 1.0	--	--	--
1,2-DICHLOROETHANE	ug/l	< 2	--	< 0.82	--	< 1	< 1.0	< 1.0	--	--
1,2-DICHLOROPROPANE	ug/l	< 1	--	< 0.20	--	< 1	< 1.0	--	--	--
1,3-DICHLOROBENZENE	ug/l	< 1	--	< 0.23	--	< 1	< 1.0	< 1.0	--	--
1,4-DICHLOROBENZENE	ug/l	< 1	--	< 0.22	--	< 1	< 1.0	< 1.0	--	--
2-CHLOROETHYLVINYLETHER	ug/l	< 10	--	--	--	< 10	< 10	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 1(e)

COMPOUND (by Class)	Units	FBLK May.'88	Aug.'88	Nov.'89	Apr.'90	Aug.'90	FBLK1 Oct.'91	LBLK1 Jul.'92	Mar.'93	Apr.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)										
A-METHYLSTYRENE	ug/l	< 1	--	--	--	--	--	--	--	--
BENZENE	ug/l	< 1	--	0.26	--	2.1	< 0.5	< 0.5	--	--
BROMOFORM	ug/l	< 2	--	< 0.49	--	< 2	< 2.0	--	--	--
BROMOMETHANE	ug/l	< 16	--	< 0.83	--	< 2	< 2.0	--	--	--
CARBON TETRACHLORIDE	ug/l	< 2	--	< 0.93	--	< 1	< 1.0	--	--	--
CHLOROBENZENE	ug/l	< 1	--	< 0.27	--	< 0.5	< 0.5	< 0.5	--	--
CHLOROETHANE	ug/l	< 10	--	< 0.50	--	< 2	< 2.0	--	--	--
CHLOROFORM	ug/l	< 1	--	0.43	--	< 1	< 1.0	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	< 1	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 1	--	< 0.27	--	< 1	< 1.0	--	--	--
DIBROMOCHLOROMETHANE	ug/l	< 1	--	< 0.24	--	< 1	< 1.0	--	--	--
DICHLOROBROMOMETHANE	ug/l	< 1	--	< 0.50	--	< 2	< 2.0	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	< 0.50	--	--	--	--	--	--
ETHYLBENZENE	ug/l	< 1	--	< 0.24	--	< 0.5	< 0.5	< 0.5	--	--
M&P-XYLENE	ug/l	< 2	--	0.51	--	--	--	< 0.5	--	--
MESITYLENE	ug/l	< 1	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	< 50	--	< 0.65	--	< 2	< 2.0	--	--	--
METHYLENE CHLORIDE	ug/l	12	--	58	--	< 1	1.4	--	--	--
METHYLSTYRENE ISOMERS	ug/l	< 1	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	< 1	--	< 0.19	--	--	--	< 0.5	--	--
OTHER AROMATIC COMPOUNDS	ug/l	< 1	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	2	--	< 0.21	--	< 1	< 1.0	< 1.0	--	--
TOLUENE	ug/l	< 2	--	1.58	--	6.1	< 0.5	< 0.5	--	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 1	--	< 0.20	--	< 1	< 1.0	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	< 1	< 1.0	--	--	--
TRICHLOROETHYLENE	ug/l	< 1	--	< 0.92	--	< 1	< 1.0	< 1.0	--	--
TRICHLOROFLUOROMETHANE	ug/l	< 2	--	2.6	--	< 2	< 2.0	--	--	--
VINYL CHLORIDE	ug/l	< 12	--	< 0.74	--	< 2	< 2.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 2(a)

COMPOUND (by Class)	Units	TBLK May.'86	TBLK Apr.'90	TBLK1 May.'88	TBLK1 Aug.'88	TBLK1 Jul.'92	TBLK2 May.'88	TBLK2 Aug.'88
GENERAL CHEMISTRY								
ALKALINITY	mg/l	--	< 1	--	--	--	--	--
AMMONIA NITROGEN	mg/l	--	< 0.03	--	--	--	--	--
CHLORIDE	mg/l	--	28.0	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	< 0.06	--	--	--	--	--
PHENOLS	ug/l	--	< 1	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS								
1,1,1-TRICHLOROETHANE	ug/l	--	--	< 2	< 1.0	< 1.0	< 2	< 1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	< 2	< 1.0	--	< 2	< 1.0
1,1,2-TRICHLOROETHANE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
1,1-DICHLOROETHANE	ug/l	--	--	< 1	< 1.0	< 1.0	< 1	< 1.0
1,1-DICHLOROETHYLENE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
1,2-DICHLOROBENZENE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
1,2-DICHLOROETHANE	ug/l	--	--	< 2	< 1.0	< 1.0	< 2	< 1.0
1,2-DICHLOROPROPANE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
1,2-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	< 5
1,3-DICHLOROBENZENE	ug/l	< 1.0	--	< 1	< 1.0	< 1.0	< 1	< 1.0
1,4-DICHLOROBENZENE	ug/l	< 1.0	--	< 1	< 1.0	< 1.0	< 1	< 1.0
2-CHLOROETHYLVINYLETHER	ug/l	--	--	< 10	--	--	< 10	< 50
A-METHYLSTYRENE	ug/l	--	--	< 1	--	--	< 1	--
ACROLEIN	ug/l	--	--	--	--	--	--	< 50
ACRYLONITRILE	ug/l	--	--	--	--	--	--	< 50
BENZENE	ug/l	0.55	--	< 1	< 0.5	< 0.5	< 1	< 0.5
BIS (CHLOROMETHYL) ETHER	ug/l	--	--	--	--	--	--	< 500
BROMOFORM	ug/l	--	--	< 2	< 1.0	--	< 2	< 1.0
BROMOMETHANE	ug/l	< 2.0	--	< 16	< 2.0	--	< 16	< 2.0
CARBON TETRACHLORIDE	ug/l	--	--	< 2	< 1.0	--	< 2	< 1.0
CHLOROBENZENE	ug/l	< 0.5	--	< 1	< 0.5	< 0.5	< 1	< 0.5

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 2(b)

COMPOUND (by Class)	Units	TBLK May.'86	TBLK Apr.'90	TBLK1 May.'88	TBLK1 Aug.'88	TBLK1 Jul.'92	TBLK2 May.'88	TBLK2 Aug.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)								
CHLOROETHANE	ug/l	< 2.0	--	< 10	< 2.0	--	< 10	< 2.0
CHLOROFORM	ug/l	< 1.0	--	< 1	4.51	--	< 1	5.52
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	< 1.0	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
DIBROMOCHLOROMETHANE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
DICHLOROBROMOMETHANE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	< 2.0	--	--	< 2.0
ETHYLBENZENE	ug/l	< 0.5	--	< 1	< 0.5	< 0.5	< 1	< 0.5
M&P-XYLENE	ug/l	< 0.5	--	< 2	< 0.5	< 0.5	< 2	< 0.5
MESITYLENE	ug/l	--	--	< 1	--	--	< 1	--
METHYL CHLORIDE	ug/l	4.87	--	< 50	< 2.0	--	< 50	< 2.0
METHYLENE CHLORIDE	ug/l	--	--	13	< 1.0	--	11	< 1.0
METHYLSTYRENE ISOMERS	ug/l	--	--	< 1	--	--	< 1	--
O-XYLENE	ug/l	< 0.5	--	< 1	< 0.5	< 0.5	< 1	< 0.5
OTHER AROMATIC COMPOUNDS	ug/l	--	--	< 1	--	--	< 1	--
TETRACHLOROETHYLENE	ug/l	--	--	< 1	< 1.0	< 1.0	< 1	< 1.0
TOLUENE	ug/l	< 0.5	--	< 2	< 0.5	< 0.5	< 2	< 0.5
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	--	< 1	< 1.0	--	< 1	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	< 1	< 1.0	--	--	< 1.0
TRICHLOROETHYLENE	ug/l	--	--	< 1	< 1.0	< 1.0	< 1	< 1.0
TRICHLOROFLUOROMETHANE	ug/l	--	--	< 2	< 2.0	--	< 2	< 2.0
VINYL CHLORIDE	ug/l	--	--	< 12	< 2.0	--	< 12	< 2.0

LEGEND

J - The associated value is an estimated quantity.

U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

UJ - The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.

-- - The parameter was not analyzed.

ND - The material was analyzed, but not detected above an unstated method detection limit.

TR - Trace level detection.

< - Indicates result less than that shown.

> - Indicates result greater than that shown.

R - The data was not useable.

NS - Insufficient sample.

(a) - Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 1(a)

COMPOUND (by Class)	Units	FBLK May.'87	FBLK Nov.'89	FBLK Apr.'91	FBLK1 May.'86	FBLK1 Apr.'92	FBLK1 Apr.'93	FBLK2 May.'86	FBLK2 Jul.'92	FBLK3 May.'86
ACID EXTRACTABLES										
2,4,6-TRICHLOROPHENOL	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
2,4-DICHLOROPHENOL	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
2,4-DIMETHYL PHENOL	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
2,4-DINITROPHENOL	ug/l	--	--	--	< 3.0	--	--	< 3.0	--	< 3.0
2-CHLOROPHENOL	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
2-NITROPHENOL	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	< 5.0
4,6-DINITRO-O-CRESOL	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	< 5.0
4-NITROPHENOL	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	13.3
P-CHLORO-M-CRESOL	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	< 5.0
PENTACHLOROPHENOL	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
PHENOL	ug/l	--	--	--	< 3.0	--	--	< 3.0	--	< 3.0
BASE/NEUTRAL EXTRACTABLES										
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
1,2-DICHLOROBENZENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	TR
1,2-DIPHENYLHYDRAZINE	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	< 5.0
1,3-DICHLOROBENZENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
1,4-DICHLOROBENZENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
2,4-DINITROTOLUENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
2,6-DINITROTOLUENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
2-CHLORONAPHTHALENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
3,3'-DICHLOROBENZIDINE	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	< 5.0
4-BROMOPHENYL PHENYL ETHER	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
9H-FLUORENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
ACENAPHTHENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
ACENAPHTHYLENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
ANTHRACENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 1(b)

COMPOUND (by Class)	Units	FBLK May.'87	FBLK Nov.'89	FBLK Apr.'91	FBLK1 May.'86	FBLK1 Apr.'92	FBLK1 Apr.'93	FBLK2 May.'86	FBLK2 Jul.'92	FBLK3 May.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)										
BENZIDINE	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	< 5.0
BENZO(A)ANTHRACENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
BENZO(A)PYRENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
BENZO(B)FLUORANTHENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
BENZO(GHI)PERYLENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
BENZO(K)FLUORANTHENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
BIS(2-CHLOROETHYL)ETHER	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	--	--	27.6	--	--	21.1	--	4.9
BUTYL BENZYL PHTHALATE	ug/l	--	--	--	7.6	--	--	6.9	--	4.6
CHRYSENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
DI-N-BUTYL PHTHALATE	ug/l	--	--	--	< 1.0	--	--	19.2	--	7.5
DI-N-OCTYL PHTHALATE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
DIBENZO(A,H)ANTHRACENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
DIETHYL PHTHALATE	ug/l	--	--	--	38.1	--	--	21.0	--	11.1
DIMETHYL PHTHALATE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	2.1
FLUORANTHENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
HEXACHLOROBENZENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
HEXACHLOROBUTADIENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
HEXACHLOROCYCLOPENTADIENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
HEXACHLOROETHANE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
INDENO(1,2,3-CD)PYRENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
ISOPHORONE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	--	--	< 3.0	--	--	< 3.0	--	< 3.0
N-NITROSODIPHENYLAMINE	ug/l	--	--	--	< 4.0	--	--	< 4.0	--	< 4.0
NAPHTHALENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
NITROBENZENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0
PHENANTHRENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 1(c)

COMPOUND (by Class)	Units	FBLK May.'87	Nov.'89	Apr.'91	FBLK1 May.'86	Apr.'92	Apr.'93	FBLK2 May.'86	Jul.'92	FBLK3 May.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)										
PYRENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	< 2.0
BIOLOGICAL TESTING										
FAECAL COLIFORM	/100ml	--	< 2	< 2	--	< 1 (a)	< 1	--	< 1	--
FAECAL STREPTOCOCCI	/100ml	--	0	< 2	--	< 1 (a)	< 1	--	< 1	--
TOTAL COLIFORMS	/100ml	--	< 4	< 2	--	< 1 (a)	< 1	--	< 1	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	--	< 2.0	--	--	1.7	ND	--	1.7	--
AMMONIA NITROGEN	mg/l	--	< 0.03	--	--	< 0.03	< 0.03	--	< 0.03	--
CHLORIDE	mg/l	--	< 1.0 UJ	--	--	< 0.10	ND	--	< 0.10	--
CONDUCTIVITY	umhos/cm	--	--	11.24	--	62.0	24	--	34	--
KJELDAHL NITROGEN	mg/l	--	< 0.06 UJ	--	--	< 0.06	ND	--	< 0.06	--
PH		--	--	5.5	--	7.88	8.39	--	7.95	--
PHENOLS	ug/l	--	< 1	--	--	3	< 1.0	--	< 1.0	--
SULFATE	mg/l	--	< 1.0 UJ	--	--	< 0.10	ND	--	< 0.10	--
PESTICIDES AND PCB's										
2,4-DDT	ug/l	< 0.020	--	--	--	--	--	--	--	--
DIELDRIN	ug/l	< 0.020	--	--	--	--	--	--	--	--
GAMMA-BHC	ug/l	< 0.020	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	ug/l	< 0.020	--	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	< 0.50	--	--	--	< 1.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 1(d)

COMPOUND (by Class)	Units	FBLK May.'87	Nov.'89	Apr.'91	FBLK1 May.'86	Apr.'92	Apr.'93	FBLK2 May.'86	Jul.'92	FBLK3 May.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)										
1,1,2,2-TETRACHLOROETHANE	ug/l	< 1.0	< 0.33	--	--	--	< 2.0	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	< 1.0	< 0.21	--	--	--	< 2.0	--	--	--
1,1-DICHLOROETHANE	ug/l	< 1.0	< 0.20	< 1.0	--	< 1.0	< 1.0	--	< 1.0	--
1,1-DICHLOROETHYLENE	ug/l	< 1.0	< 0.32	--	--	--	< 1.0	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	< 1.0	< 0.50	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	< 0.18	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	< 1.0	< 0.24	--	--	--	< 1.0	--	--	--
1,2-DICHLOROETHANE	ug/l	< 1.0	< 0.82	< 1.0	--	< 1.0	< 1.0	--	< 1.0	--
1,2-DICHLOROPROPANE	ug/l	< 1.0	< 0.20	--	--	--	< 1.0	--	--	--
1,3-DICHLOROBENZENE	ug/l	< 1.0	< 0.23	< 1.0	--	< 1.0	< 1.0	--	< 1.0	--
1,4-DICHLOROBENZENE	ug/l	< 1.0	< 0.22	< 1.0	--	< 1.0	< 1.0	--	< 1.0	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	< 10	--	--	--
BENZENE	ug/l	0.8	0.26	0.8	--	< 0.5	< 0.5	--	< 0.5	--
BROMOFORM	ug/l	1.3	< 0.49	--	--	--	< 2.0	--	--	--
BROMOMETHANE	ug/l	< 2.0	< 0.83	--	--	--	< 2.0	--	--	--
CARBON TETRACHLORIDE	ug/l	< 1.0	< 0.93	--	--	--	< 1.0	--	--	--
CHLOROBENZENE	ug/l	< 0.5	< 0.27	< 0.5	--	< 0.5	< 0.5	--	< 0.5	--
CHLOROETHANE	ug/l	< 2.0	< 0.50	--	--	--	< 2.0	--	--	--
CHLOROFORM	ug/l	2.0	0.43	--	--	--	< 1.0	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	< 0.27	--	--	--	< 1.0	--	--	--
DIBROMOCHLOROMETHANE	ug/l	< 1.0	< 0.24	--	--	--	< 1.0	--	--	--
DICHLOROBROMOMETHANE	ug/l	< 1.0	< 0.50	--	--	--	< 2.0	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	< 2.0	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	< 0.50	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	0.6	< 0.24	< 0.5	--	< 0.5	< 0.5	--	< 0.5	--
M&P-XYLENE	ug/l	2.3	0.51	--	--	--	< 0.5	--	--	--
METHYL CHLORIDE	ug/l	< 0.2	< 0.65	--	--	--	< 2.0	--	--	--
METHYLENE CHLORIDE	ug/l	1.6	58	--	--	--	< 1.0	--	--	--
O-XYLENE	ug/l	< 0.5	< 0.19	0.8	--	< 0.5	< 0.5	--	< 0.5	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 1(e)

COMPOUND (by Class)	Units	FBLK May.'87	FBLK Nov.'89	FBLK Apr.'91	FBLK1 May.'86	FBLK1 Apr.'92	FBLK1 Apr.'93	FBLK2 May.'86	FBLK2 Jul.'92	FBLK3 May.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)										
TETRACHLOROETHYLENE	ug/l	9.2	< 0.21	< 1.0	--	< 1.0	< 1.0	--	< 1.0	--
TOLUENE	ug/l	< 0.5	1.58	5.4	--	< 0.5	< 0.5	--	< 0.5	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	< 0.20	--	--	--	< 1.0	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	--	--	--	--	< 1.0	--	--	--
TRICHLOROETHYLENE	ug/l	< 1.0	< 0.92	< 1.0	--	< 1.0	< 1.0	--	< 1.0	--
TRICHLOROFLUOROMETHANE	ug/l	< 2.0	2.6	--	--	--	< 2.0	--	--	--
VINYL CHLORIDE	ug/l	< 2.0	< 0.74	--	--	--	< 2.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 2(a)

COMPOUND (by Class)	Units	TBLK May.'86	May.'87	Nov.'89
VOLATILE ORGANIC COMPOUNDS				
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	< 1.0	< 0.50
1,1,2,2-TETRACHLOROETHANE	ug/l	< 1.0	1.6	< 0.33
1,1,2-TRICHLOROETHANE	ug/l	< 1.0	2.6	< 0.21
1,1-DICHLOROETHANE	ug/l	< 1.0	TR	< 0.20
1,1-DICHLOROETHYLENE	ug/l	< 1.0	< 1.0	< 0.32
1,2,4-TRICHLOROBENZENE	ug/l	--	< 1.0	< 0.50
1,2-DICHLOROBENZENE	ug/l	< 1.0	< 1.0	< 0.24
1,2-DICHLOROETHANE	ug/l	< 1.0	3.2	< 0.82
1,2-DICHLOROPROPANE	ug/l	< 1.0	< 1.0	< 0.20
1,3-DICHLOROBENZENE	ug/l	< 1.0	< 1.0	< 0.23
1,4-DICHLOROBENZENE	ug/l	< 1.0	< 1.0	< 0.22
2-CHLOROETHYLVINYLETHER	ug/l	--	--	< 0.50
BENZENE	ug/l	< 0.5	< 0.5	< 0.19
BROMOFORM	ug/l	< 1.0	< 1.0	< 0.49
BROMOMETHANE	ug/l	< 2.0	< 2.0	< 0.83
CARBON TETRACHLORIDE	ug/l	< 1.0	< 1.0	< 0.93
CHLOROBENZENE	ug/l	< 0.5	< 0.5	< 0.27
CHLOROETHANE	ug/l	< 2.0	< 2.0	< 0.50
CHLOROFORM	ug/l	TR	1.3	3.3
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	< 1.0	< 0.27
DIBROMOCHLOROMETHANE	ug/l	< 1.0	< 1.0	< 0.24
DICHLOROBROMOMETHANE	ug/l	< 1.0	< 1.0	< 0.50
DICHLORODIFLUOROMETHANE	ug/l	< 2.0	< 2.0	--
DICHLOROFLUOROMETHANE	ug/l	--	--	< 0.50
ETHYLBENZENE	ug/l	< 0.5	< 0.5	< 0.24
M&P-XYLENE	ug/l	1.3	< 0.5	0.25
METHYL CHLORIDE	ug/l	< 2.0	TR	< 0.65
METHYLENE CHLORIDE	ug/l	1.8	< 0.5	1.35
O-XYLENE	ug/l	0.8	< 0.5	< 0.19

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 2(b)

COMPOUND (by Class)	Units	TBLK May.'86	May.'87	Nov.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)				
TETRACHLOROETHYLENE	ug/l	< 1.0	2.0	< 0.21
TOLUENE	ug/l	3.11	< 0.5	< 0.24
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	< 1.0	< 0.20
TRANS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	< 1.0	--
TRICHLOROETHYLENE	ug/l	< 1.0	< 1.0	< 0.92
TRICHLOROFLUOROMETHANE	ug/l	< 2.0	< 2.0	< 0.26
VINYL CHLORIDE	ug/l	< 2.0	< 2.0	< 0.74

000475

LEGEND

J - The associated value is an estimated quantity.

U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

UJ - The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.

-- - The parameter was not analyzed.

ND - The material was analyzed, but not detected above an unstated method detection limit.

TR - Trace level detection.

< - Indicates result less than that shown.

> - Indicates result greater than that shown.

R - The data was not useable.

NS - Insufficient sample.

(a) - Indicates units were /50ml rather than that shown.

APPENDIX F

ANALYTICAL ASSESSMENT AND VALIDATION REPORTS

M E M O

TO: Peter Hayes REFERENCE NO: 1354-00

FROM: Lou Almeida/dm/1 DATE: April 26, 1993

RE: Bayview Landfill
Data Review for Samples Collected March 25, 1993

1.0 OVERVIEW

The following memo details an assessment of analytical results obtained from Barringer Laboratories (Barringer) (Report #934899) for samples collected March 25, 1993 at the Bayview Landfill Site (Site). Water samples were submitted to Barringer for the analysis of VOCs, alkalinity, chloride and sulphate.

The following summarizes the number of samples analyzed.

Investigative Samples	*Lab Blanks*	*Laboratory Duplicate*	*Total*
6	1	1	8

2.0 LABORATORY QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

2.1 SAMPLE HOLDING TIMES[1]

By comparing the sampling date of all samples with the reported date of extraction or analysis, the holding time is determined. The maximum holding time is not to be exceeded, as this is the maximum time allowed for the sample to be held before initiation of sample analyses. Otherwise, the sample results are considered to be suspect. Analytical methods and applicable holding times can be found summarized in Table 1.

Based on Barringer's reported analysis dates, all analyses were completed prior to the expiration of their prescribed holding times.

---

[1] Holding Time: The maximum time, beginning with sample collection, which can be allowed to elapse before extracting or analyzing a sample.

2.2 LABORATORY BLANKS

The assessment of laboratory blank analyses is to determine the existence and magnitude of contamination problems occuring in the laboratory. According to USEPA's "National Functional Guidelines for Organic Data Review", Revised June 1991, and, "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis", Revised October 1989, no positive sample results should be reported unless the concentration of the compound in the sample exceeds five times (or ten times for methylene chloride, toluene and acetone) the amount found in the blank.

None of the target parameters were detected in the laboratory blanks; therefore, no qualifications were necessary.

2.3 SPIKE CHECK SAMPLE RESULTS

To ensure the capability of producing acceptable quantitative data by laboratory instruments, a spike check sample was analyzed in conjunction with organic and inorganic analyses.

Accuracy of the instrumentation and method was determined by comparing recoveries with generally accepted control limits. All the sample recoveries fell within generally accepted control limits, indicating acceptable instrument and method accuracy. Therefore, no qualifications were necessary.

2.4 SURROGATE RECOVERY

Laboratory performance on individual samples analyzed for VOCs is established by spiking activities. VOC samples were spiked with fluorobenzene and 4-bromofluorobenzene.

All surrogate recoveries were within acceptable limits, indicating acceptable laboratory performance. Therefore, no qualifications were necessary.

3.0 SUMMARY

In conclusion, it is recommended that the data produced by Barringer be accepted with no qualifications.

c.c.: Gail Zelding
Joanne Staubitz

TABLE 1

SUMMARY OF ANALYTICAL METHODS
AND APPLICABLE HOLDING TIMES
BAYVIEW LANDFILL
PROJECT #1354-30

Analysis	*Analytical Method*	*Sample Matrix*	*Holding Time (days)*
Alkalinity	SM 2320(B)	Water	14
pH	SM 4500-H(B)	Water	NA
Chloride	SM 4110(B)	Water	28
Sulphate	SM 4110(B)	Water	28
Volatile Organic Compounds (VOCs)	SW-846 8240	Water	7 (MISA)

Notes:

SM - "Standard Methods for the Examination of Water and Wastewater", 17th Edition

SW-846 - USEPA, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", November 1986, 3rd Edition.

MISA - Municipal/Industrial Strategy for Abatement, Ontario Ministry of the Environment

MEMO

TO: Peter Hayes REFERENCE NO: 1354-00/30

FROM: Lou Almeida/dm/2 DATE: May 21, 1993

RE: Bayview Landfill
Data Review for Samples Collected April 6, 1993

1.0 OVERVIEW

The following memo details an assessment of analytical results obtained from Mann Testing Laboratories (Mann), (Reports #9302693 and #9302694) and Conestoga-Rovers & Associates Analytical Services (CAS), (Report #470) for samples collected April 6, 1993 at the Bayview Landfill Site (Site). Water samples were submitted to Mann for the analysis of VOCs organo-chlorine pesticides/PCBs, metals[1] and phthalates and samples were also submitted to CAS for the analysis of alkalinity, biochemical oxygen demand (BOD), chemical oxygen demand (COD), chloride, fluoride, hardness, ammonia nitrogen, total kjeldahl nitrogen (TKN), phenols, total phosphorus, sulphate and total suspended solids (TSS).

The following summarizes the number of samples analyzed.

Laboratory	*Investigative Samples*	*Lab Blanks*	*Trip Blanks*	*Field Blanks*	*Field Duplicate*	*Total*
Mann	24	1	2	1	1	29
CAS	21	1	0	2	2	26

2.0 LABORATORY QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

2.1 SAMPLE HOLDING TIMES[2]

By comparing the sampling date of all samples with the reported date of extraction or analysis, the holding time is determined. The maximum holding time is not to be exceeded, as this is the maximum time allowed for the sample to be held before initiation of sample analyses. Otherwise, the

---

[1] Metals: Al, Ag, As, Ba, Be, Bl, Bo, Ca, Cd, Co, Cr, Cu, CN^-, Fe, Hg, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Se, Sl, Sn, Sr, Tl, V, W, Zn.

[2] Holding Time: The maximum time, beginning with sample collection, which can be allowed to elapse before extracting or analyzing a sample.

sample results are considered to be suspect. Analytical methods and applicable holding times can be found summarized in Table 1.

Based on Mann's and CAS's reported analysis dates, all analyses were completed prior to the expiration of their prescribed holding times.

2.2 LABORATORY BLANKS

The assessment of laboratory blank analyses is to determine the existence and magnitude of contamination problems occurring in the laboratory. According to USEPA's , "Laboratory Data Validation Functional Guidelines for Evaluating Inorganic or Organic Analyses", Revised 1988, no positive sample results should be reported unless the concentration of the compound in the sample exceeds five times (or ten times for methylene chloride, toluene and acetone) the amount found in the blank.

No target parameters were detected in the laboratory blanks with the exception of bis-2-ethyl hexyl phthalate which was detected at trace levels. The resulting qualifications can be found in Table 2.

2.3 SPIKE CHECK SAMPLE RESULTS

To ensure the capability of producing acceptable quantitative data by laboratory instruments, a spike check sample was analyzed in conjunction with the samples analyzed for phthalate, metals, organo-chlorine pesticides and PCBs analyses by Mann. Spike check samples were not analyzed by CAS.

Accuracy of the instrumentation and method was determined by comparing recoveries with generally laboratory established limits. The sample recovery fell within control limits, indicating acceptable instrument and method accuracy. Therefore, no qualifications were necessary.

2.4 SURROGATE RECOVERY

Laboratory performance on individual samples analyzed for VOC's and phthalates are established by spiking activities. VOC samples were spiked with 1,2-dichloroethane-d_4, toluene-d_8 and 4-bromofluorobenzene. The sample analyzed for phthalates was spiked with di-n-octylphthalate-d_4. The sample analyzed for organo-chlorine pesticides and PCBs was spiked with 2,4,5,6-Tetrachloro-m-xylene.

Limits for di-n-octylphthalate-d_4 and 2,4,5,6-tetrachloro-m-xylene were not established, for those recoveries a generally accepted limit was used in the assessment of the data.

All surrogate recoveries were within laboratory established limits (see Table 3), indicating acceptable laboratory performance. Therefore, no qualifications were necessary.

3.0 FIELD QA/QC

3.1 FIELD BLANKS

Field blank results are reviewed in order to determine the existence and magnitude of contamination as a result of field conditions.

Upon review, all field blanks analyzed by Mann and CAS were free of target analytes with the exception chloride result (0.48 mg/L) as reported by CAS. As chloride was detected in the investigative samples at a level five times greater than the field blank result, data qualifications were not necessary.

3.2 FIELD DUPLICATES

As a check on the combined laboratory and field sampling precision duplicate samples were taken from PW1 and HC7-1 locations. The duplicate sample results were compared and relative percent difference[1] (RPD) calculated.

All duplicate RPD results for samples analyzed by CAS and Mann were well within acceptable limits; consequently no data qualifications were required.

3.3 TRIP BLANKS

Trip blank results were reviewed in order to determine the existence and magnitude of contamination attributable to sample transport, the environment and/or shipping.

---

[1] Relative percent difference = RPD = $\frac{|X_1 - X_2|}{\bar{X}} \times 100$

where:

X_1 - initial sample result
X_2 - duplicate sample result
$\bar{X}$ - mean of duplicate sample results

Upon review, the trip blanks were found to be free of target analytes; consequently, no data qualifications were necessary.

4.0 SUMMARY

In conclusion, it is recommended that the data produced by Mann and CAS be accepted for use noting the data qualification as presented in Table #2, resulting from the laboratory contamination arising from phthalate analysis.

TABLE 1

SUMMARY OF ANALYTICAL METHODS AND APPLICABLE HOLDING TIMES BAYVIEW LANDFILL PROJECT #1354-00/30

Analysis	*Analytical Method*	*Sample Matrix*	*Holding Time (days)*
Ammonia-nitrogen	SM 4500-NH_3(D)	Water	10 (MISA)
Alkalinity	SM 2320(B)	Water	14
Chloride, Sulphate	SM 4110(B)	Water	28
Chemical Oxygen Demand (COD)	SM 5220(B)	Water	28 (MISA)
Biochemical Oxygen Demand (BOD)	SM 5210(B)	Water	2
Fluoride	SM 4110(B)	Water	28
Hardness	SM 2340(B)	Water	6 months
Metals	SW-846 6010/7000 Series	Water	30 (MISA)
Organochlorine pesticides/ PCBs	SW-846 8081	Water	7/40*
Phenols	SM 5530(C,D)	Water	10 (MISA)
Total kjeldahl nitrogen (TKN)	SM 4500-Norg(B)	Water	10 (MISA)
Total phosphorus	SM 4500-P(D)	Water	28
Total Suspended Solids	SM 2540(D)	Water	7 (MISA)
Volatile Organic Compounds (VOCs)	SW-846 8240	Water	7 (MISA)

Notes:

SM - "Standard Methods for the Examination of Water and Wastewater", 17th Edition
SW-846 - USEPA, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", 3rd Edition, 1st Update, Revision I, November 1990.
MISA - Municipal/Industrial Strategy for Abatement, Ontario Ministry of the Environment

* 7/40 - 7 Days from sample date to extraction date/40 days from extraction date to analysis date.

TABLE 2

SUMMARY OF DATA QUALIFICATIONS
BAYVIEW LANDFILL
Project 1354-00/30

Sample Location	*Parameter*	*Reported Result*	*Qualifier*	*Reference*
MH15	bis-2-ethyl hexyl phthalate	TR(0.3)	U	L

Notes:

TR = Trace amount detected.
U = The compound was undetected above the associated detection limit.
L = The qualification is a result of a method blank contamination.

TABLE 3

SUMMARY OF SURROGATE SPIKE
RECOVERY LIMITS*
BAYVIEW LANDFILL
Project 1354-00/30

Analysis	*Surrogate Compound*	*Control Limits (%)*
VOCs	1,2-dichloroethane-d_4	69.3 - 134.5
	Toluene-d_8	81.8 - 119.1
	bromofluorobenzene	76.0 - 118.1

Notes:

VOC's - Volatile Organic Compounds.

* - Control limits established by Mann Testing Laboratories.

MEMO

TO: Peter Hayes

REFERENCE NO: 1354-30

FROM: Lou Almeida/dm/3

DATE: August 10, 1993

RE: Bayview Landfill
Data Review for Samples Collected June 30 and July 1, 1993

1.0 OVERVIEW

The following memo details an assessment of analytical results obtained from Mann Testing Laboratories (Mann), (Reports #932473 and #9303410) and Conestoga-Rovers & Associates Analytical Services (CAS), (Report #539) for water samples collected June 30 and July 1, 1993 at the Bayview Landfill Site (Site). Water samples were submitted to Mann for the analysis of volatile organic compounds (VOCs), total coliforms, fecal coliforms and fecal streptococcus. Samples were also submitted to CAS for the analysis of alkalinity, chloride, ammonia nitrogen, total Kjeldahl nitrogen (TKN), phenols and sulphate.

The following summarizes the number of samples analyzed.

Laboratory	*Investigative Samples*	*Lab Blanks*	*Field Blanks*	*Field Duplicates*	*Total*
Mann	12	1	1	2	16
CAS	16	1	1	2	20

2.0 LABORATORY QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

2.1 SAMPLE HOLDING TIME CRITERIA[1]

By comparing the sampling date of all samples with the reported date of extraction or analysis, the holding time is determined. The maximum holding time criterion is not to be exceeded, as this is the maximum time allowed for the sample to be held before initiation of sample analyses. Otherwise, the sample results are considered to be suspect. Analytical methods and applicable holding time criteria can be found summarized in Table 1.

---

[1] Holding Time Criteria: The maximum time, beginning with sample collection, which can be allowed to elapse before extracting or analyzing a sample.

Based on Mann's and CAS's reported analysis dates, all analyses were completed prior to the expiration of holding time criteria.

2.2 LABORATORY BLANKS

The assessment of laboratory blank analyses is conducted to determine the existence and magnitude of contamination problems occurring in the laboratory. According to USEPA's , "Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", Revised July 1988 and "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses", Revised February 1988, no positive sample results should be reported unless the concentration of the compound in the sample exceeds five times (or ten times for methylene chloride, toluene, 2-butanone and acetone) the amount found in the blank.

No target parameters were detected in the laboratory blanks with the no exceptions. Data qualifications were not required.

2.3 SURROGATE RECOVERY

Laboratory performance on individual samples analyzed for VOCs are established by spiking activities. VOC samples were spiked with 1,2-dichloroethane-d_4, toluene-d_8 and 4-bromofluorobenzene.

All surrogate recoveries were within laboratory-established limits (see Table 2), indicating acceptable laboratory performance. Therefore, no qualifications were necessary.

3.0 FIELD QA/QC

3.1 FIELD BLANKS

Field blank results are reviewed in order to determine the existence and magnitude of contamination as a result of field conditions.

Upon review, the field blank analyzed by Mann and CAS was found to be free of target analytes. Consequently, data qualifications were not necessary.

3.2 FIELD DUPLICATES

As a check on the combined laboratory and field precision, duplicate samples were taken from PW1, HC4-3 and SW10-87 locations. The duplicate sample results were compared and relative percent difference[1] (RPD) calculated.

All duplicate RPD results for samples analyzed by CAS and Mann were well within acceptable limits; consequently, no data qualifications were required.

4.0 SUMMARY

In conclusion, it is recommended that the data produced by Mann and CAS be accepted without data qualification.

---

[1] Relative percent difference = RPD = $\frac{|X_1 - X_2|}{\bar{X}} \times 100$

where:

X_1 - initial sample result
X_2 - duplicate sample result
$\bar{X}$ - mean of duplicate sample results

TABLE 1

SUMMARY OF ANALYTICAL METHODS AND APPLICABLE HOLDING TIMES BAYVIEW LANDFILL

Analysis	*Analytical Method*	*Sample Matrix*	*Holding Time Criteria (days)*
Ammonia-nitrogen	SM 4500-NH_3(D)	Water	10 (MISA)
Alkalinity	SM 2320(B)	Water	14
Chloride, Sulphate	SM 4110(B)	Water	28
Phenols	SM 5530(C,D)	Water	10 (MISA)
Total kjeldahl nitrogen (TKN)	SM 4500-Norg(B)	Water	10 (MISA)
Volatile Organic Compounds (VOCs)	USEPA #624	Water	7 (MISA)
Total Coliforms	SM 9221 (B)	Water	A.S.A.P
Fecal Coliforms	SM 9221 (C)	Water	A.S.A.P
Fecal Streptacoccus	SM 9230 (B)	Water	A.S.A.P

Notes:

SM - "Standard Methods for the Examination of Water and Wastewater", 17th Edition.

MISA - Municipal/Industrial Strategy for Abatement, Ontario Ministry of the Environment.

USEPA - USEPA, "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", EPA-600/4-82-057, July 1982.

A.S.A.P. - As soon as possible.

TABLE 2

SUMMARY OF SURROGATE SPIKE RECOVERY LIMITS* BAYVIEW LANDFILL

Analysis	*Surrogate Compound*	*Control Limits (%)*
VOCs	1,2-Dichloroethane-d_4	69.3 - 134.5
	Toluene-d_8	81.8 - 119.1
	Bromofluorobenzene	76.0 - 118.1

Notes:

VOCs - Volatile Organic Compounds.

* - Control limits established by Mann Testing Laboratories.

MEMO

TO: Greg Ferraro / Peter Hayes REFERENCE NO.: 1354-30

FROM: Rob Toth DATE: January 25, 1994

CC: Lou Almeida

RE: Bayview Park Landfill Site
Data Review for Samples Collected October 19, 1993

1.0 OVERVIEW

The following memo details an assessment and validation of analytical results obtained from Mann Testing Laboratories (Mann) (Mann report #'s 934058 and 9305511) and CRA Analytical Services (CAS) (CAS report # 657) for 1 water sample collected October 19, 1993. Samples were submitted to Mann for the analyses of metals[1] , total cyanide, bis(2-ethylhexyl)phthalate (BNAEs), pesticides[2] , total polychlorinated biphenyls (PCBs) and volatile organic compounds[3] (VOCs). Samples were submitted to CAS for the analysis of general chemistry (alkalinity, biochemical oxygen demand (BOD), chloride, chemical oxygen demand (COD), fluoride, hardness, ammonia, total kelhdjal nitrogen (TKN), total phenols, total suspended solids (TSS) and sulphate).

Parameter	*Investigative Samples*	*Lab Blanks*	*Lab Duplicates*	*Field Blanks*	*Field Duplicates*	*Total*
Metals	1	1	0	1	0	4
Total cyanide	1	1	0	1	0	4
BNAEs	1	1	0	1	0	4
Pesticides	1	1	0	1	0	4
PCBs	1	1	0	1	0	4
VOCS	1	1	0	1	0	4
General Chemistry	1	1	0	1	0	4

---

[1] metals = aluminum, antimony, arsenic, barium, bismuth, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, molybdenum, nickel, selenium, silver, tin, titanium, vanadium, zinc

[2] pesticides = aldrin, carbaryl, chlordane, DDT, Diazinon, dieldrin, endrin, heptachlor, heptachlor epoxide, lindane, methoxychlor, methyl parathion, parathion, toxaphene

[3] VOCs = 1,1-dichloroethane, 1,2-dichloroethane, 1,1,1-trichloroethane, benzene, trichloroethylene, toluene, tetrachloroethylene, ethylbenzene, chlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, m+p-xylene, o-xylene

2.0 SAMPLE HOLDING TIMES [1]

By comparing the sampling date of all samples with the reported date of extraction or analysis, the holding time is determined. The maximum holding time is not to be exceeded as this is the maximum time allowed for the sample to be held before initiation of sample analyses; otherwise, the sample results are no longer considered accurate.

Mann and CAS reported all analyses dates and all analyses were completed prior to the expiration of prescribed holding times; therefore, no qualifications were necessary.

3.0 LABORATORY QA/QC

3.1 Laboratory Blanks

The assessment of laboratory blank analyses is conducted to determine the existence and magnitude of contamination problems occurring in the laboratory. According to USEPA's , "Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", Revised July 1988 and "National Functional Guidelines for Evaluating Organic Analyses", Revised June 1991, no positive sample results should be reported unless the concentration of the compound in the sample exceeds five times (or ten times for metals, methylene chloride, 2-butanone (MEK) and acetone) the amount found in the blank.

Iron and zinc were found in the Mann laboratory blank and alkalinity was found in the CAS laboratory blank at values of 0.006 mg/L, 0.006 mg/L and 1.3 mg/L respectively. All sample concentrations for alkalinity were above five times the amount found in the blank; therefore, qualifications were not necessary for alkalinity.

Positive detections of iron and zinc were found in concentrations below ten times the amount found in the blank; therefore, qualifications were necessary and can be found summarized in Table 1.

3.2 Surrogate Recovery

Laboratory performance on individual samples is established by spiking activities. VOC samples were spiked with d_8-toluene, d_4-1,2-dichloroethane and 4-bromofluorobenzene. Pesticide and PCB samples were spiked with 2,4-dichlorophenyl acetic acid and 2,4,5,6-tetrachloro-m-xylene. BNAE samples were spiked with 2-fluorobiphenyl and D_{14}-terphenyl.

All of the samples showed recoveries within the laboratory control limits, therefore no qualifications were necessary.

---

[1] Holding Time: The maximum time, beginning with sample collection, which can be allowed to elapse before extracting or analyzing a sample.

3.3 Method Spike

A method spike sample is an aliquot of reagent-free water which has been spiked with the compounds of interest and is analyzed to ensure that the methodology and instrumentation are in control. Method spike samples were analyzed by Mann for metals (except tin), pesticides, PCBs and BNAEs.

Method spike recovery percentages were found to be within acceptable control limits; therefore, no qualifications were necessary.

4.0 FIELD QA/QC

4.1 Field Blanks

The assessment of field blank analyses is conducted to determine the existence and magnitude of contamination problems occurring in the field. According to USEPA's , "Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses", Revised July 1988 and "National Functional Guidelines for Evaluating Organic Analyses", Revised June 1991, no positive sample results should be reported unless the concentration of the compound in the sample exceeds five times (or ten times for metals methylene chloride, 2-butanone (MEK) and acetone) the amount found in the blank.

Aluminum, iron, vanadium and zinc were found in the field blanks at values of 0.054 mg/L, 0.008 mg/L, 0.004 mg/L and 0.004 mg/L respectively. Sample concentrations for iron and zinc were above ten times the amount found in the blank. A summary of the qualifications for aluminum and vanadium can be found in Table 1.

4.2 Travel Blanks

As a check on sample contamination originating from sample transport, shipping and from site conditions one travel blank was submitted to Mann for the analysis of VOCs.

All VOC parameters in the travel blank were non-detect; therefore, qualifications were not necessary.

5.0 SUMMARY

Qualifications were necessary for iron and zinc based on positive detections found in the lab blank and qualifications for aluminum and vanadium were necessary based on positive detections found in the field blank. These qualifications are summarized in Table 1.

The data supplied by Mann and CAS were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted herein.

TABLE 1
SUMMARY OF QUALIFICATIONS
Project 1354-30 - Bayview Park

Lab	*Lab Sample #*	*Location*	*Parameter*	*Result (mg/L)*	*Qualifier*	*Reference*
Mann	2	field blank	iron	0.008	U[1]	A
Mann	2	field blank	zinc	0.004	U	A
Mann	1	MH15	aluminum	0.323	U	B
Mann	1	MH15	vanadium	0.006	U	B

Notes:

A = Qualification due to lab blank contamination.

B = Qualification due to field blank contamination.

[1] U = The material was analyzed for but was not detected above the sample quantitation limit.

APPENDIX G

EXCERPTS FROM REASONS FOR DECISION AND DECISION DATED FEBRUARY 24, 1989 (PAGES 83 TO 107) - REGIONAL MUNICIPALITY OF HALTON HEARING



Ontario

The Joint Board

THE CONSOLIDATED HEARINGS ACT, 1981

REASONS FOR DECISION

and

DECISION

IN THE MATTER OF an application by the Regional Municipality of Halton for:

a) the acquisition of land for the construction, operation and maintenance of a sanitary landfill site to contain 7.96 million cubic metres of waste in the Regional Municipality of Halton by one of two alternative methods as follows:

(i) landfilling at the site referred to in Halton's Environmental Assessment as Site F in the City of Burlington;

(ii) landfilling at the site commonly referred to in Halton's Environmental Assessment as Site D in the Town of Milton.

Before: H.H. Lancaster, Q.C.
D.J. Kingham, Ph.D.

February 24, 1989

2300 Yonge Street
Suite 1201
Toronto, Ontario M4P 1E4
Tel: (416) 323-4806

Site F

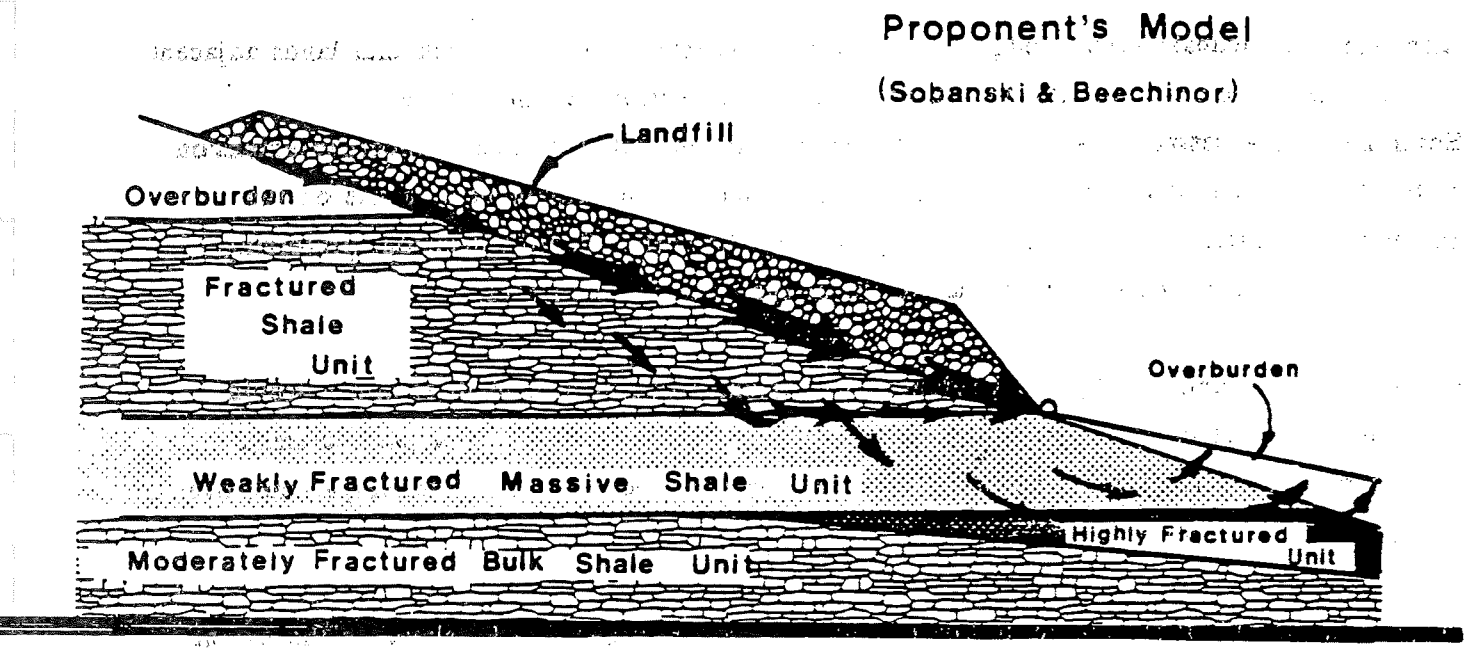
Although Mr. Sobanski acknowledged during cross-examination by Ms. Cronk that lands adjacent to Site F had been used for landfills, in keeping with an earlier decision of the Environmental Assessment Board, this Board notes that the earlier decision concerned extension of the site into the glacial till areas to the north, rather than development of a site on the gullies to the south. This Board was not swayed by the earlier Board's decision, preferring to judge the present application on the weight of the evidence before us.

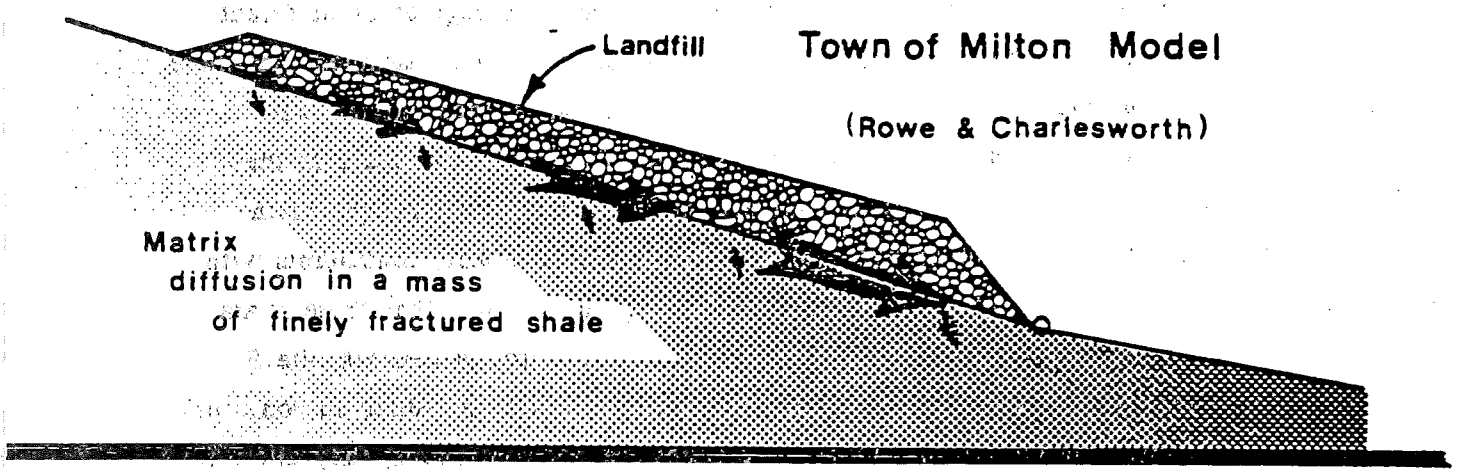
Furthermore, as explained by Mr. Crutcher, the current proposal to landfill at Site F would add waste at a rate of approximately 76,000 tonnes/hectare over a large area (50 hectares), when compared to adjacent dumpsites which together averaged only 50,000 tonnes/hectare over a smaller area (44 hectares).

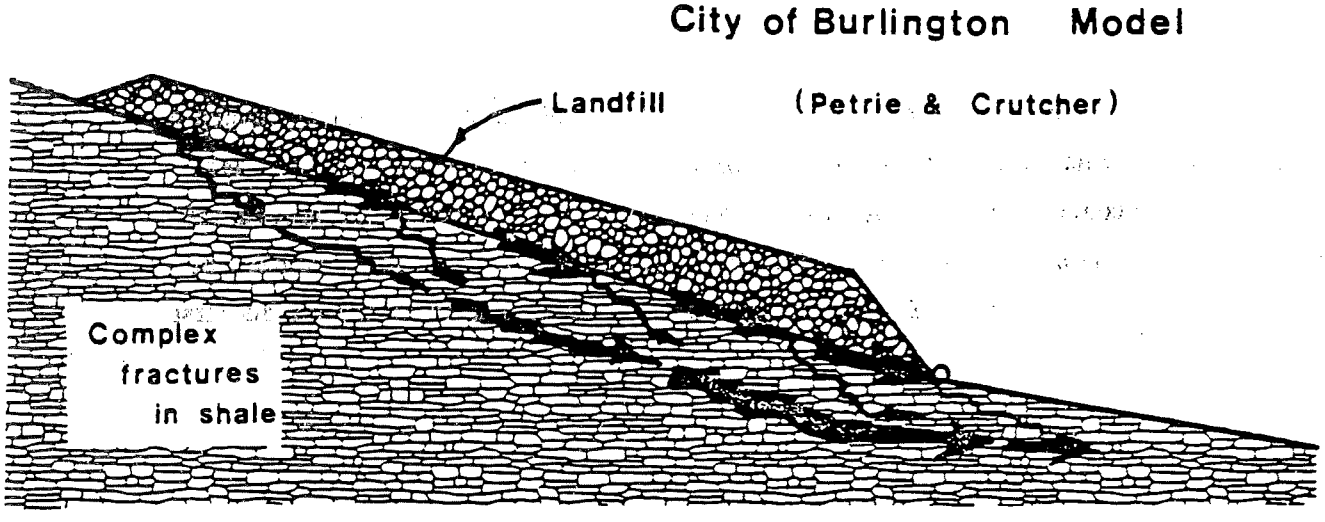
In general, the different opinion of hydrogeologists who examined Site F related to the extent of uniformity within strata beneath the site. All agreed that there are regions of different porosities and conductivities. The hydrogeology consultants for the Region assumed that there were several discreet continuous layers acting as surficial drains, subsurface barriers and subsurface underdrains as one goes down through the strata. Dr. Rowe assumed that these strata could be modelled as a uniform, thick, relatively impermeable layer through which leachate would not move. On the other hand, Messrs. Petrie and Crutcher, consultants with Conestoga Rovers Associates, on behalf of the City of Burlington, assumed that these strata, if they exist at all, are not continuous. Rather, in their view, the ground beneath Site F constitutes a heterogeneous mixture, with zones of impermeable matter embedded in zones of less impermeable matter. Because these impermeable zones are not continuous, they allow for the infiltration of leachate along discreet, but as yet unmeasured, significant vertically fractured areas.

If the latter model is correct, it seems to the Board that the problem of delineating leachate flow paths at site F would be like trying to determine blood circulation patterns in a new species by inserting needles in various parts of its anatomy. If the investigator missed the main veins or arteries with the first few needles, he might conclude that the movement of blood within was very low. How different his opinion had he struck an artery on his first attempt.

Figure 3 Site F Models







As perceived by Messrs. Petrie and Crutcher the Board had three hypotheses to consider at Site F. The original proposal by the Region portrayed the underlying strata as three or more distinct layers with specific abilities to retard or enhance the movement of groundwater. The hypothesis put forward by consultants for the Town of Milton was to consider the entire area beneath Site F as a homogeneous and relatively impermeable stratum, such that leachate would not escape the site, for modelling purposes. The Burlington consultants' model was one of complex groundwater flow through fractured rock which could not be readily understood, monitored or modeled.

It was clear to the Board from Ms. Cronk's cross-examination of Mr. Sobanski that Site F was one of the most studied sites in Ontario, from a hydrogeological perspective. But the earlier NSP conclusions, and those of TROW, were founded on the premise that the hydrostratigraphy was relatively uniform across the site.

Trow Hydrology Consultants Limited (THCL) consultants took this assumption one step further: the uniform hydrostratigraphy extended across the site in both east-west and north-south directions like a layered cake. The ground surface could be taken as the exposed side of a gently inclined diagonal cut, from top to bottom. The assertions of safety at Site F had all been based in some measure on the validity of this model, in particular the postulated "Weakly Fractured Massive Shale Unit":

> "The dominant hydrostratigraphic unit controlling leachate migration at Site F is the Weakly Fractured Massive Shale Unit. Tests show that this unit has relatively good attributes for waste disposal. It has good attenuation capability and a low hydraulic conductivity (no more than 1 x 10^{-7}cm/s). Farther along the flow system, the Discharge Zone Till provides additional capability for the natural attenuation of leachate."
>
> H-40 pp xii & xiii

During his re-examination, Mr. Feenstra had redrawn subterranean chloride concentrations in an east-west orientation to illustrate hydrogeologic strata on new cross-sections at Site F. A review of these cross-sections, shown as Attachment 3 to H-936, and the revised chloride data plotted on exhibit H-659R, reveal examples of relatively fresh water both above and below the

postulated weakly fractured massive shale (at wells HC-5 and MB-11 for example), when the hypothesis calls for the water above to be relatively fresh, and that below relatively salty, at all locations on the site. On the other hand, at different locations (wells WAT-7 and HC-8 for example), it appears that there is no fresh water to speak of, even at the surface.

The revised exhibit H-659R also shows significant variations in the postulated 'highly fractured shale' unit where hydraulic connection is supposed to be good and chemical concentrations similar. Adjacent chemical measurements (in a cross-sectional sense) show concentrations of 1,140, 21,100, 3,410, and 810 milligrams of chloride per litre of groundwater. This evidence, and the variations across the 'weakly fractured massive shale' unit, place the original THCL hypothesis about Site F in considerable doubt.

Nothwithstanding his denial of Trow's original assumptions about the hydrostratigraphy at Site F, Mr. Feenstra was of the opinion that toe drains and perimeter drains would prevent surface water contamination at the site.

Mr Feenstra's final opinion about the hydrostratigraphy was that there is a shallow active zone of varying thickness, generally between five and ten meters thick. This zone is thinner in areas of high chloride and low tritium (such as around well HC-8), and thicker in areas of low chloride and high tritium (such as in areas around well HC-4). In his view, the net effect would be exfiltration (liquid flowing out of a porous medium) at the bottom of the landfill of about ten to twenty millimeters per year, of which 90% or so would exit laterally through the shallow active zone, and the rest would move to depth. If these figures are correct, they correspond to leachate losses from about 3,017 gallons/day to about 6,035 gallons/day in total, with 302 to 604 gallons/day moving to depth. The witness did not feel that a liner was required to reduce exfiltration.

Because the proponent's consultants recognized that the shales underlying Site F have a complex fracture system both near the surface and at depth, they did some pumping tests which showed a substantial water flow, and led to the conclusion that the hydraulic conductivity in the highly fractured zone was 1.3×10^{-2} cm/sec (for comparison purposes 1.3×10^{-2} cm/sec is about 2.5 miles per year). This groundwater flow is towards Hamilton Harbour and is driven by water pressure, the force of which is reflected by hydraulic gradients ranging from 0.001 to 0.03. Groundwater contours (Drawing 14 of exhibit H-40) fall by about 70 meters across the site, illustrating the large magnitude of the force drawing water away from the site.

The review by the Region's consultants (Messrs. Beechinor and Sobanski) of borehole logs in the vicinity of Bayview Park to the east of Site F, revealed that for most of the holes dug there was clay overlying the rock beneath, and that the clay layers were approximately 8 feet thick at well locations LW-1 through LW-6. If such silty clay overlays the rock under the Bayview landfill, then the Board must take this into account in considering the migration of leachate beyond the site boundaries, and the postulated 'security' of Site F, based on the performance of adjacent sites. Similarly, a large portion of the Burlington Landfill site was acknowledged to be on till, whereas some 60-70% of Site F would be founded on shale.

Drawing 12 of exhibit H-40 shows a till thickness of 8 metres at borehole HC-5, towards the southern edge of the site. Mr. Feenstra's evidence is that the zone of active groundwater flow at this point is 11 m thick below the bedrock surface. Based on his evidence the Board visualized the active flow zone at Site F, in plan view, as rivulets which divide and recombine below the surface, leading to contaminant losses off site. A perimeter drain might have to be as deep as 19 meters (about 62 feet) in the vicinity of HC-5 (near the southern boundary of the site) in order to intercept such leachate egress. Even this containment measure requires a better knowledge of subsurface flow patterns than exists now. The situation has not changed much since November 15, 1982 when a hydrogeologist, Keros Cartwright wrote, in support of a proposal by National Sewer Pipe Limited to landfill on part of Site F:

> "The intermediate groundwater flow interacts to some degree with the regional and local groundwater flow systems; the degree of this interaction is not well defined by the data. The local and intermediate groundwater flow needs to be considered in evaluating leachate migration at the proposed site.
>
> N-470 p 2

Dr. Rowe, the modeling expert called by the Town of Milton, felt that a liner is not required at Site F because the groundwater migration in the vicinity of that site is very sluggish and there would be no threat to down-gradient users.

Dr. Charlesworth felt that a new landfill at Site F would have little impact on the environment because the groundwater quality under the site is quite saline already. It was his view that perhaps the best use for this already 'contaminated' environment would be as a

receptacle for contaminants from landfill leachates, notwithstanding the fact that chemical constituents presently in the groundwater at depth are of natural origin.

Mr. Petrie explained that when he examined the hydrostratigraphy in the vicinity of Site F he came to a much different conclusion than had THCL consultants. His examination of the borehole logs did not lead him to conclude that there were identifiable, distinct geological zones beneath Site F. He noted that even the proponent's hydrogeologists had proposed geologic and hydrostratigraphic zones which do not correspond to one another. In particular, he drew the Board's attention to the fact that the supposed hydraulically conductive zone of "highly fractured shale" is found in large part at an elevation at which one is supposed to find the "weakly fractured massive shale", which was to have opposite hydraulic characteristics.

Furthermore, Mr. Petrie pointed out that piezometric measurements in the area lead to equipotential contours which are at variance with the assumed geology and hydrostratigraphy. In particular, he believed that such contours refute the existence of the proposed highly fractured "geological underdrain". Mr. Petrie noted that hydraulic gradients in the postulated discharge zone are downwards, rather than upwards as predicted by the Trow model. Similarly, hydraulic conductivities at well holes HC4, HC6, HC8 and HC14 do not support the proponent's model with respect to the weakly fractured or highly fractured shale layers.

Mr. Sobanski could not explain the considerable variation in chemical contaminants in the upper till at the north end of Site F. This raised questions about the validity of the assumed homogeneous strata model in that area. One explanation could be a variation in topography, but a more likely explanation is a variation in the conductivity and porosity of underlying materials. The controlling factor was not identified to the Board's satisfaction.

During cross-examination of Messrs. Sobanski and Beechinor, Mr. Tidball, counsel for the Ministry of Environment, brought to the Board's attention the fact that the consultants had described the presence of fractures in one 10 cm (4 inch) core section, their absence in the adjacent 10 cm zone and their presence again in the next 10 cm zone. Why then was the entire area not considered fractured, if there are significant fractures in alternate 4 inch sections?

The introduction of exhibit H-220 was a signal event in the cross-examination of witnesses Sobanski and Beechinor. Figures 2 and 4 of Exhibit H-40 had presented a facile

But the hydrogeology experts called by the Town of Milton, Drs. Charlesworth and Rowe, did not support Mr. Sobanski's postulated highly fractured underdrain and its associated stratigraphy:

> "Trow's hydrostratigraphic definition of various units within the shale is somewhat tenuous, as are the results of the computer modelling which was based on their conceptual model of the hydrostratigraphy. ... Leachate contaminated water which moves to depth in the shale will flow laterally, in a sluggish flow system, towards Hamilton Harbour..."
> M-437 p 7-1

This has significant implications: it removes the leachate pathway postulated by Trow Hydrology Consultants Limited, and it also removes the proposed contingency measure of developing purge wells down-gradient in order to intercept escaped leachate. In the context of the Charlesworth and Rowe evidence, it can be argued that the absence of the highly fractured zone supports their hypothesis that diffusion of contaminants through the strata beneath Site F would be slow. The Board could not conclusively determine what the real situation might be beneath Site F, since these experts contest the interpretation of the proponent's experts, and there was no absolute determinant to verify either their model or the proponent's.

In support of his model of complex vertical and horizontal fracturing in the surficial layer, Mr. Petrie drew the attention of the Board to the highly variable tritium data, which at well HC-5 shows the presence of pre-1952 water at great depth, whereas a nearby well, HC-8, shows the absence of such water. This contrast illustrates a lack of substantial hydraulic connection between these two wells within THCL's postulated continuous geologic underdrain at Site F.

Mr. Petrie added that in his opinion the pumping tests in the vicinity of Site F do not support the existence of a highly fractured zone underlying the site.

Of greatest concern to Mr. Petrie in regard to the pumping results was the fact that monitors at the bottom of well HC-3, below the postulated weakly fractured zone, responded to pumping at pumping well 3, above the weakly fractured zone. This led to the conclusion that there were vertical hydraulic connections through the supposed weakly fractured shale. The implications of this are that if water can be drawn upward through this presumed impermeable

layer to a pumping well above it, then leachate from waste can percolate down through this postulated zone and reach lower strata, from whence it could migrate off-site.

When Messrs. Petrie and Crutcher studied all of the slug tests and pressure packer tests they came to the conclusion that the conductivity of the postulated "weakly fractured shale" was higher than that calculated by the proponent's geologists. They assigned a value of about 2×10^{-4} cm/sec (about 7 inches per day) in this zone, which they feel constitutes an extensive weathered and fractured shale mantle.

Further supporting their concern about the integrity of the postulated "weakly fractured massive shale unit", is the fact that the second piezometer (hydraulic head measuring device) at well MB-11, which is supposed to lie entirely within the postulated zone, is a flowing well. This is inconsistent with the low hydraulic conductivity proposed for the area.

In contrast to the bulk matrix diffusion model proposed by Drs. Charlesworth and Rowe, Mr. Petrie offered the opinion that a significant volume of contaminants from Site F would move through a few discreet but serious rock fractures. Mr. Petrie concluded that "a porous medium model ... cannot adequately reproduce the complexity of the site nor provide the basis for contaminant transport modelling within the fractures".

The Petrie and Crutcher model, in contrast to that of Drs. Rowe and Charlesworth, is based on considerable inhomogeneity across the site, which results in areas or volumes of rock which are relatively impermeable, in comparison with other volumes through which leachate could percolate fairly readily.

The monitoring wells in the WAT series (University of Waterloo studies around Site F) show how small scale complexities in groundwater flow can be illustrated by means of closely spaced piezometers. Such complexities would be missed with the more traditional widely-spaced measurements. The WAT wells show that hydraulic gradients, and therefore groundwater flow directions and magnitudes, change significantly with location, time and depth.

Mr. Petrie concluded that organic nitrogen plume delineation experiments were inconclusive. The interconnected fractures beneath the site could include "fracture zones" up to 30 cm in thickness. In these fracture zones the groundwater velocities are unknown but in the witness'

Feenstra's own denial of the proponent's hydrostratigraphic model in his final appearance before the Board.

Mr Feenstra felt that the non-detection of volatile organics at the site boundary of the present Burlington landfill and the closed Bayview landfill were not indicative of anything, since according to the proponent's own model, leachates from these sites might not yet have migrated through the relatively impermeable layer.

While cross-examining Mr. Feenstra, Ms. Cronk, counsel for National Sewer Pipe Limited, drew the Board's attention to a comparison between Site F and the approved Domtar disposal site for fly ash in shale at Mississaugua. Although the disposal of fly ash had apparently been approved by another Environmental Assessment Board, we recognize the differences between the two situations, including the fact that the contaminants in fly ash are different from those in domestic wastes, and the fact that the leachate from the Domtar disposal site was non-potable and non-toxic primarily because of the presence of sulphates and chlorides. The differences were clear when the Board reviewed Table 1 of exhibit H-86A which shows thousands of micrograms per litre of volatile organics in Burlington landfill leachate.

Mr. Feenstra, in explaining the downward movement of chemical contaminants at site F stated quite unequivocally:

> "We have no way of directly measuring the vertical hydraulic conductivity which is the actual important parameter with respect to downward movement through that zone."
>
> 45 p 10,169

The zone in question was the postulated 'weakly fractured massive shale', and without a reasonably reliable value for "the actual important parameter" the Board would be hard pressed to approve landfilling at Site F if this meant that it would be unable to assure the public that there could not be significant migration of contaminants away from the proposed landfill site.

The significance of this uncertainty was compounded by the many exhibits which showed downward gradients, not upward gradients, in the area between Highway 403 and the CNR tracks south of the site. Upward gradients are shown in the residential areas to the southeast. This means

that if contaminants do migrate into a more conductive stratum beneath the landfill, they could emerge, not north of the residences, but in the vicinity of the residences.

Although tritium data from exhibit H-173 reminded the Board that Site D showed no penetration of tritium through the unweathered upper till, the tritium data at Site F reveal considerable migration to lower strata. Mr. Feenstra explained that vertical fracturing through the "weakly fractured shale" would account for the highly variable tritium result.

During Ms. Vigod's cross-examination, Mr. Feenstra stated that with a failed trap at Site D, contaminants would arrive at the site boundary in approximately 60 years, but they would arrive at the site bounary in only 30 years at Site F with the proposed containment measures in operation. Because Site D suggested no contaminant loss with containment systems in operation, Mr. Feenstra opined at the end of his first appearance before the Board that this should be the preferred site. After introducing the till-fracturing hypothesis in his last appearance, he changed his preference back to Site F.

In response to cross-examination from Mr. Tidball, Mr. Feenstra acknowledged that monitoring could be done at both sites, but at Site D it would be simpler, less expensive and more reliable than would be the case at Site F. The Board was not satisfied that a monitoring system at Site F could reliably intercept all contaminant migration pathways.

One of the significant aspects of Mr. Feenstra's evidence, in conjunction with that of Messrs. Beechinor and Sobanski, is that these witnesses do not consider the case of underdrain failure at Site F. The calculations for "constant contaminant input" are based on the underdrain system working. This represents another instance of the dissimilar evaluation of the two sites in favour of site F. These witnesses acknowledge that there will be contaminant losses to the wider environment. For a weakly absorbed compound there would be losses which would reach concentrations of about 180 micrograms per litre. For certain of these chemicals, included in the United States Environmental Protection Agency list of priority pollutants for which there are drinking water standards, concentrations are supposed to be well below 200 micrograms per litre.

Using the data available to them, the Region's consultants developed a computer simulation of groundwater flow that showed considerable flow into the ground in the vicinity of Site F and

vicinity of Site F, and therefore leachate from the landfill could appear in the springs south of the site.

Dr. Rowe used Dr. Charlesworth's hypothesis about subterranean strata in the vicinity of Site F to calculate the amount of leachate expected to escape from the area. Using theoretical considerations about matrix diffusion he calculated that some 0.3% of leachate would get into the rock beneath the site, rather than the 5% originally proposed by the proponent. His worst case scenario corresponded to 0.8% of leachate passing into the strata. The reason Dr. Rowe felt that the quantity of leachate entering the rock would be smaller, was because he concluded that a critical parameter, the Darcy velocity, should have been calculated as 0.05 meters per year rather than the 0.7 meters per year used by the Regional Municipality of Halton's expert witness. Taking account of the quantity of pollutants in the landfilled waste, the lower value for the Darcy velocity, and the effects of matrix diffusion, this witness concluded that there would be no discernible off-site migration of contaminants.

Drs. Rowe and Charlesworth stated that their "shallow zone" proposed for Site F was not meant to represent a recognizable geological feature of 25 metres thickness, but was rather a mathematical artifact defined by the boundary between water which was saline (containing more than 5,000 mg/litre of chloride) and water that was less saline.

Dr. Charlesworth observed that his model was not based upon actual or measured geology, gradients or conductivities, but may rather be a simplified conservative model leading to a worse conclusion than might be expected. Dr. Rowe added that the most difficult parameters to determine are aperature size and smoothness in fractured rock and hence the permeability of the rock. Their entire modelling exercise depended on assumptions about homogeneity, and a circumscribed range of values for the Darcy velocity, which may not be valid.

Dr. Rowe acknowledged that all of his scenarios were based on the assumption that it is resonable to homogenize variables, including contaminant concentrations, throughout a uniform thickness. Thus it was assumed that if contaminants do not exist at one location down-gradient of a landfill site they must not exist anywhere down-gradient; if measured conductivities at one point are one hundred or one thousand times as great as at another point, it is fair to assume that their average applies throughout.

Dr. Rowe explained that his mathematical model, which led to the Site F worst case scenario was based on the assumption that all leachate could exist in a layer 25 meters thick beneath the site, and move downgradient. If this were the case, then monitoring wells would detect it after a certain period of time. Since it had not been detected, he concluded that the groundwater velocity must be low and infiltration must be low. But some contaminants would move out at the surface (a great deal according to his colleague Dr. Charlesworth) and some would move to depth, so the amount remaining in the layer is not great. Therefore, detection may not be a valid indicator of contaminant velocity and the model may be inadequate.

Dr. Rowe acknowledged that his model does not accommodate "local variations" that exist in the vicinity of Site F because "everything is not that simple". The Board agrees.

In the context of the analogy to the mapping of circulation by the insertion of a few needles into the specimen being examined, the Board was interested to hear Dr. Charlesworth explain that the assumption of arrival times, based on monitoring at wells down-gradient from the Burlington landfill, could be wrong because the monitoring locations selected might have missed significant downward migration pathways. The Charlesworth/Rowe homogenized model would be jeopardized if the fracture model was correct and the monitoring points selected to indicate the arrival of the leading edge of contaminant plumes had missed fracture zones which carry the bulk of the contaminants.

Mr. Petrie felt that the monitoring well for calibration of Dr. Rowe's model may not be representative of water quality everywhere south of the site and, in fact, it may not correspond to the hydrogeology at Site F. It was not, in his view, a useful calibration point for Dr. Rowe's matrix diffusion model.

Drs. Rowe and Charlesworth stated that their choice of groundwater and contaminant migration velocity beneath Site F was based largely on the assumption that since they had not detected contaminants at a well 25 metres south of the Burlington landfill, after a certain number of years, the groundwater velocity must be very slow. It was acknowledged, however, that this assumption did not accommodate the possibility that the monitoring well down-gradient of the Burlington landfill might have missed contaminant migration from that landfill site.

Dr. Rowe observed that if contaminants are removed by pathways other than that into the 25 metre thick zone beneath the Burlington landfill then the concentration of contaminants at the

about 100 feet per year through a depth of about 100 feet for a total distance of about 2,000 feet southest of the landfill. At that time the Ministry of the Envronment did not recommend purge wells as an appropriate contigency measure at the Bayview Park site.

Messrs. Sobanski and Beechinor stated that even with the proposed tile drainage system it would not be possible to stop the downward migration of contaminants. Some leachate (estimated to be 5%) would get through the drainage tile field and into lower and surrounding strata. It was explained that it is not possible to build a "hydraulic trap" at this site because of the very high hydraulic gradients in the area. At page 132 of exhibit H-40 the consultants observe "that the natural rate of leakage from the site to the intermediate flow system is low, at about 10,000 cubic metres per year". This corresponds to about 2.2 million gallons per year - the Board questions the use of the term "low".

Mr Petrie disagreed with the proponent's consultants about the existence of both the weakly fractured massive shale unit and the highly fractured shale unit underlying Site F. Rather, he felt that the whole area beneath the site was sufficiently fractured to receive leachate from the landfill itself.

Messrs. Sobanski and Beechinor argued that their model was conservative because it showed leachate emerging from the ground between the dump site and Lake Ontario. The implication was that the spread of contaminants to the wider environment of the waters of lake Ontario was of less concern. The Board is not persuaded that such an interpretation is consistent with the purpose of the Environmental Assessment Act.

Mr. Petrie disagreed with Mr. Sobanski's view that the discharge zone existed between Highway 403 and the CNR tracks citing, among other things, exhibit B-621 which shows the water table well below ground surface at well HC-14, in the postulated discharge zone.

There is a dramatic deterioration of groundwater quality with depth in the shale, so much so that deeper waters do not meet drinking water criteria because of natural inorganic ions there present. For these reasons, a 1985 Gartner Lee report concluded that the leachate plume would not "cause significant off-site impact on groundwater". This quote relates to inorganic ion impact rather than organic and possibly toxic chemicals, since the 1986 Gartner Lee plume delineation study revealed that the existing Burlington landfill site has generated a plume which had migrated 45 metres south of the site.

When Dr. Charlesworth also referred to "poor quality groundwater" he qualified this by adding that its quality was poor because of natural compounds such as chlorides but not because of human activities.

The failure of leachate drains at Site F could lead to off-site migration either through the very shallow system or through deeper systems. Dr. Charlesworth excluded the possibility that there could be leachate loss through some intermediate system which would affect people downgradient. He acknowledged that there could be surface water impacts because of the very shallow flow system but he did not think the control of leachate at Site F is an essential aim because:

> "the most reasonable use of the groundwater regime downgradient at Site F and its environs is for waste disposal; the poor quality groundwater of this area is a good resource for the disposal of waste"
>
> M-444 p 39

The Ministry of Environment (MOE) witness, Dr. Hughes, stated that MOE policy was based on the assumption of some leachate loss at any landfill site. He also stated that leachate attenuation could be a reasonable use of groundwater "although (he was) unable to give an opinion on whether such a determination is appropriate in this case" (E-928 p 4).

The guidelines for protection of groundwater suggest that, in some cases, there may be reason to allow an off-site attenuation zone (ss. 3.3.2, page 12 of the attachment to E-154). The Board was told that at Site F an available zone already exists, since National Sewer Pipe Limited owns the property where discharge may occur between Highway 403 and the CNR tracks.

Dr. Hughes referred to MOE policies in general, and to the incorporation of the "Reasonable Use Concept" into MOE groundwater management activities in particular:

> "The Ministry may support ...the acquisition of land or an easement for a Contaminant Attenuation Zone only ... where good supplies of water are available... from municipal systems, and the ground water supplies in a particular unit are marginal with respect to their quality and/or their quantity"
>
> E-154 Appendix, p 14

site. He had also studied shale around Site F, to assess its stability for stables at Bayview Park, and industrial parks nearby. In Mr. Gray's view, a one meter thick liner would lead to exfiltration of 9 millimeters per year from the landfill, rather than the 8.14 millimeters per year shown on exhibit H-653. According to exhibit H-690 this corresponds to leachate losses of about 2,460 gallons/day, rather than about 2,720 gal/day.

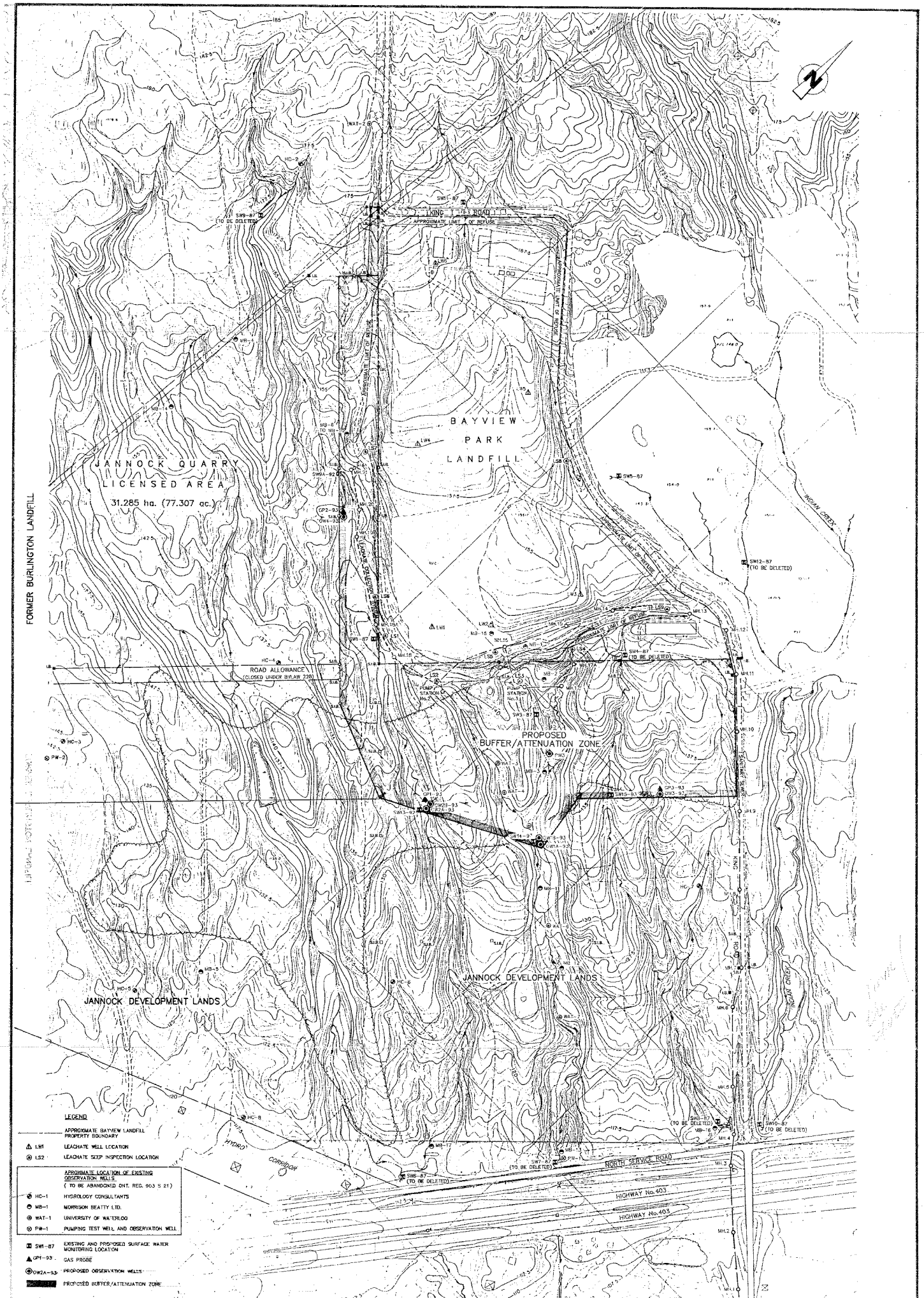
Mr Sobanski drew the attention of the Board to the very high concentrations of U.S.- EPA priority pollutants at the Burlington landfill site (H-40 p 92), compared to the Georgetown or Oakville landfill sites which were closed some years ago. These organics are not found in significant concentrations 25 meters from the site, and the witness could not say whether this meant the organics were not leaving the landfill, or whether there was simply an inadequate amount of time for the contaminant plume to have travelled 25 meters. The problem with loss of leachate is not just its volume, but rather the seriousness of organic contaminants therein. The waste may not be "hazardous", to use Mr. Sobanski's earlier language, but the Board heard no evidence to suggest it was benign. Conditions will be ordered to encourage actions by local governments to reduce toxic organic chemicals in domestic waste, in view of the landfill situation.

Mr. Sobanski felt that the installation of a few pumping wells near the of the North Service Road could successfully intercept and remove any leachate that might escape from the Site F landfill, assuming that the highly fractured zone exists beneath the landfill.

The firm for which Messrs. Crutcher and Petrie work had earlier (1982) recommended control of leachate egress by means of a clay key south of the Bayview site to intercept "the deeper groundwater flow". Mr. Crutcher explained that he thought that phrase meant groundwater flow to a depth of ten feet below the surface. He now considers the 'deeper groundwater flow' to be a zone between 10 feet and 20 feet below grade. Both Mr. Crutcher and Mr. Petrie explained that if the postulated discharge zone is not well defined, then it is not possible to model or monitor Site F.

Hydrogeology - Site Comparison

The fundamental flaw in the Region's hydrogeologic assessment is evident in both the early and late stages, where it appears that unlike situations were compared as though they were the same. The inappropriate comparison is seen in the comparative analysis document:



NOTE: CONTOUR INTERVAL 0.5m

Approved:

No. Revision Date Initial

CITY OF BURLINGTON
BAYVIEW PARK LANDFILL SITE

ENVIRONMENTAL PERFORMANCE REPORT

PROPOSED BUFFER / ATTENUATION ZONE AND MONITORING LOCATIONS

CRA Consulting Engineers
CONESTOGA-ROVERS & ASSOCIATES
651 Colby Drive, Waterloo, Ontario Canada N2V 1C2

Drawn by: KVM	Scale: 1:2000	Date: MAY 1993	File: 3000515
Designed by: P.H.			
Checked by: P.H.	Field book:	Project No.: 1354	Drawing No.: 1

1994 MONITORING REPORT

Bayview Park Landfill Site
Burlington, Ontario

MARCH 1995
REF. NO. 1354 (49)
This report is printed on recycled paper.

CONESTOGA-ROVERS & ASSOCIATES

CRA
Consulting Engineers

CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive
Waterloo, Ontario, Canada N2V 1C2
(519) 884-0510 Colby Office Fax: (519) 884-0525
(519) 725-3313 Bathurst Office (519) 725-1394

March 1, 1995 Reference No. 1354

John Budz, P.Eng.
District Officer
Halton-Peel District
Ministry of the Environment and Energy
1235 Trafalgar Road, Suite 401
Oakville, Ontario
L6H 3P1

Dear Mr. Budz:

Re: 1994 Monitoring Report
Bayview Park Landfill Site

Please find enclosed two copies of the above noted report. This report presents and interprets the current and historical surface water and groundwater quality data collected as part of the annual monitoring program.

An Environmental Performance Report for the Bayview Park Landfill was submitted to your office on November 4, 1994. The report documents the need for a rationalized monitoring program and a proposed buffer/attenuation zone for the Bayview Park Landfill. Complete MOEE comments with respect to that report are still outstanding. In the interim, pending MOEE concurrence with the findings of Environmental Performance Report, the 1995 Monitoring Program will be continued as was undertaken in 1994.

Should you have any questions on the above, please do not hesitate to contact our office.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Peter Hayes, B.Sc.
PH/af/7
Distribution: City of Burlington, Phil Verticchio (1 copy)
City of Burlington, Doug Brown (1 copy)
MOEE Oakville (2 copies)
CRA (2 copies)

TABLE OF CONTENTS

Page

1.0 INTRODUCTION 1
1.1 HISTORICAL PERSPECTIVE 1
1.2 HISTORICAL MONITORING PROGRAMS 2
1.3 CURRENT SITUATION 6
1.4 HYDROGEOLOGIC BACKGROUND 7

2.0 1994 MONITORING PROGRAM 9
2.1 SURFACE WATER MONITORING 9
2.2 LEACHATE WELL MONITORING 10
2.3 LEACHATE COLLECTION SYSTEM MONITORING 10
2.4 OFF-SITE GROUNDWATER MONITORING 11
2.5 LEACHATE SEEP INSPECTIONS 12

3.0 LEACHATE COLLECTION SYSTEM RESULTS 13
3.1 LEACHATE WELL LEVELS 13
3.2 LEACHATE SEEP INSPECTIONS 14
3.3 PERFORMANCE OF THE LEACHATE/SHALLOW GROUNDWATER COLLECTION SYSTEM 16

4.0 ANALYTICAL RESULTS 18
4.1 QUALITY ASSURANCE/QUALITY CONTROL PROGRAM 18
4.2 SURFACE WATER 20
4.2.1 General Chemistry 22
4.2.2 Volatile Priority Pollutant Sampling 28
4.2.3 Summary 29
4.3 LEACHATE/SHALLOW GROUNDWATER COLLECTION SYSTEM MONITORING 30
4.3.1 Metals and General Chemistry - Leachate 31
4.3.2 Priority Pollutants - Leachate 31
4.4 OFF-SITE GROUNDWATER MONITORING 32
4.4.1 Introduction 32
4.4.2 General Chemistry 33
4.4.3 VOCs in Groundwater 34

5.0 CONCLUSIONS AND RECOMMENDATIONS 35
5.1 CONCLUSIONS 35
5.2 RECOMMENDATIONS 36

REFERENCES 37

LIST OF FIGURES

		Following Report
FIGURE 1.1	SITE LOCATION	
FIGURE 2.1	LEACHATE AND SURFACE WATER MONITORING LOCATIONS	
FIGURE 2.2	ALDERSHOT SURFACE WATER SAMPLING LOCATION	
FIGURE 2.3	OFF-SITE GROUNDWATER MONITORING LOCATIONS	
FIGURE 3.1	LEACHATE ELEVATIONS	
FIGURE 3.2	JULY 1993 LEACHATE LEVELS	
FIGURE 3.3	LEACHATE SEEP INSPECTION LOCATIONS	

LIST OF TABLES

		Following Report
TABLE 2.1	HAMILTON REGION PRECIPITATION DATA FOR 1994	
TABLE 3.1	LEACHATE ELEVATIONS	
TABLE 3.2	SUMMARY OF LEACHATE DISCHARGE FLOW TO THE REGIONAL SANITARY SEWER	
TABLE 3.3	HISTORICAL LEACHATE DISCHARGE FLOW TO THE REGIONAL SANITARY SEWER	
TABLE 4.1	SURFACE WATER QUALITY, BACKGROUND	
TABLE 4.2	SURFACE WATER QUALITY AT HISTORICAL LEACHATE SEEP LOCATIONS	
TABLE 4.3	SURFACE WATER QUALITY, EAST OF KING ROAD	
TABLE 4.4	SURFACE WATER QUALITY, KING ROAD AND NORTH SERVICE ROAD	
TABLE 4.5	SURFACE WATER QUALITY, NORTH SERVICE ROAD	
TABLE 4.6	SURFACE WATER QUALITY, ALDERSHOT	
TABLE 4.7	SURFACE WATER QUALITY COMPARISON (APRIL 1994)	
TABLE 4.8	SURFACE WATER QUALITY COMPARISON (JULY 1994)	
TABLE 4.9	SUMMARY OF DETECTED OCCURRENCES OF METALS, LEACHATE COLLECTION SYSTEM	
TABLE 4.10	SUMMARY OF DETECTED OCCURRENCES OF GENERAL CHEMISTRY, LEACHATE COLLECTION SYSTEM	
TABLE 4.11	SUMMARY OF PRIORITY POLLUTANTS, LEACHATE COLLECTION SYSTEM	
TABLE 4.12	OFF-SITE OBSERVATION WELLS MONITORED	

LIST OF TABLES

		Following Report
TABLE 4.13	GENERAL CHEMISTRY OF OFF-SITE PUMPING WELLS	
TABLE 4.14	GENERAL CHEMISTRY OF OFF-SITE OBSERVATION WELLS	

LIST OF APPENDICES

APPENDIX A CERTIFICATE OF APPROVAL

APPENDIX B MOEE COMMENTS ON THE 1993 MONITORING REPORT AND CRA RESPONSES

APPENDIX C STRATIGRAPHIC AND INSTRUMENTATION LOGS

APPENDIX D 1994 MONITORING PROGRAM

APPENDIX E LEACHATE DISCHARGE FLOW REPORTS FOR 1994

APPENDIX F LEACHATE SEEP INSPECTION SUMMARY REPORTS

APPENDIX G DATA BASE

APPENDIX H 1994 ANALYTICAL ASSESSMENT AND VALIDATION REPORTS

1.0 INTRODUCTION

1.1 HISTORICAL PERSPECTIVE

The Bayview Park Landfill Site (Site) is located on the west side of King Road north of Hwy. 403 in the City of Burlington (COB), as shown on Figure 1.1. The Site was operated as a landfill by the COB from 1957 to 1972. In 1972, the Site was closed under Ministry of the Environment (MOE)[1] Provisional Certificate of Approval No. 210103. The Site is currently operated by the COB as a park facility.

From 1979 to 1985, the MOE performed site inspections which included the collection of samples for chemical analysis from leachate seeps around the Site and the upper reaches of Indian Creek. The MOE's sampling results indicated levels greater than surface water objectives for coliforms and heavy metals, and low levels of chlorinated organic compounds (including PCBs). The sampling results also indicated that the leachate seeps had impacted the water quality in the creek.

In a letter dated May 24, 1985, the MOE requested that COB respond to the observed leachate seeps and apparent Indian Creek contamination. On May 30, 1985, COB requested that Conestoga-Rovers & Associates (CRA) investigate this issue. The results of this investigation were summarized in a report entitled "Bayview Park Landfill/Indian Creek Contamination Investigation, City of Burlington" dated July 1985. This investigation verified the presence of leachate seeps and contaminated groundwater emanating from the Site and impacting surface water. The report identified a need for the implementation of leachate seepage control measures, and a monitoring program that would evaluate the impact of any control measures installed at the Bayview Park Landfill Site.

In a letter to COB dated October 2, 1985 from B.A. Singh, P. Eng., the MOE requested:

---

1 The Ministry of the Environment (MOE) became the Ministry of the Environment and Energy (MOEE) in early 1993.

"A comprehensive monitoring program assessing the impacts and recommending controls for gas and leachate both off site and on site is required. We ask that you submit terms of reference for this program for approval on or before November 15, 1985."

On behalf of COB, CRA prepared a draft "Terms of Reference 1986 Monitoring Program". In November 1985, this report was submitted to the MOE for comment. CRA then revised and implemented the 1986 monitoring program to reflect the general intent of the MOE comments.

Concurrent to the above, CRA designed a leachate collection system (LCS) to control leachate migration. The LCS was approved under MOE Certificate of Approval No. 3-0819-86-007 (Appendix A) dated July 16, 1986. The LCS was constructed in 1986-1987.

On July 16, 1986, the MOE revoked condition No. 1 of the Provisional Certificate of Approval No. 210103 dated October 11, 1973 and replaced it with four new conditions. Conditions 1 to 3 dealt specifically with the construction of the LCS. Condition 4 reads as follows:

"The City shall carry out the monitoring and inspection program as approved by the Regional Director with such modification as may be approved from time to time by the Regional Director. On or before March 1st of each year, the City shall file a report with the Regional Director containing an analysis and evaluation of the monitoring and inspection program for the previous year."

Monitoring has been undertaken since 1986 and eight annual monitoring reports have been submitted to the Director as per Condition 4 and are listed within References provided within this report.

1.2 HISTORICAL MONITORING PROGRAMS

The 1986 monitoring program was prepared to evaluate the present environmental impact of the Bayview Landfill Site on surface

water, and to provide a basis for evaluating the effectiveness of the LCS. The program included: landfill gas monitoring, leachate levels, leachate seep inspections, and the sampling of 10 surface water locations on a quarterly basis for general chemistry. In addition, 10 surface water and sediment samples were sampled on an annual basis for priority pollutant analysis.

Groundwater monitoring was not conducted in 1986 in order that a comprehensive review could be undertaken of the significant groundwater data base that had been developed for the adjacent National Sewer Pipe (NSP) lands to the southeast (which was designated as the proposed Halton Regional Landfill Site F). This comprehensive review of the groundwater database was undertaken as part of the 1986 monitoring program.

Due to the nature of the underlying near surface fractured shale bedrock and the natural poor water quality (i.e., very high chlorides, sulphate, total dissolved solids) it was generally stated that it may not be possible to delineate the extent of groundwater contamination. However, it was ultimately determined that through the presence of organic nitrogen or synthetic volatile organic compounds (VOCs) an approximation of the downgradient extent of contamination be examined.

As a result of the database review, a groundwater component to the annual monitoring program was implemented as part of the 1987 monitoring program. The groundwater component involved the collection of groundwater samples from selected well nests for the analysis of nitrate, nitrite, TKN, and free ammonia. In addition a limited suite of VOCs were analyzed at selected groundwater locations on an annual basis.

The 1986 Monitoring Report largely concluded the following:

1) Prior to the construction of the LCS, surface leachate discharge from the Site had exerted a measurable impact on surface water quality downstream of the Site. However, the impact could not be attributed to leachate seepage alone.

2) No polychlorinated biphenyls (PCBs) were detected in any of the leachate, water, or sediment samples.

3) Groundwater contamination as delineated by organic nitrogen and trichloroethane extended downgradient to, and possibly beyond, Highway 403.

The 1987 monitoring program concluded amongst other considerations that the installation of the LCS had resulted in a reduction of the impact on the surface water quality, however more data was required to further quantify this reduction. Impaired surface water quality was noted at background locations as well as downstream of the Site. No PCBs were detected at any surface water sampling locations. Furthermore, all major leachate seeps identified in 1986 and in 1987 had been contained. It was also determined that organic nitrogen was not a diagnostic indicator of groundwater contamination at this Site and concluded that the source of toluene concentrations within the groundwater be further documented. The recommended 1988 monitoring program included a re-evaluation of groundwater monitoring locations so as to ensure that the wells were screened within the active groundwater flow zones originating from the Site. In addition, those wells completed with suspect well construction materials, such as glued joints, were deleted from the program.

The 1988 report generally reiterated the same conclusions as previously outlined in the 1987 report. Salient conclusions included that the operation of the LCS had resulted in the reduction of impact on the surface water quality, however, more data would be required to fully evaluate the effects of the collection system. The report further concluded that bacteriological parameters were not a useful indicator of groundwater contamination. Also, off-Site groundwater appeared to be characterized by the sporadic occurrence of volatile organics at trace levels which were largely attributed to a natural source. No PCBs were detected within the surface water and further evaluation of background surface water quality was also required. It was further recommended that a refinement in the groundwater

monitoring network be undertaken to conduct widespread sampling of the shallow or active groundwater flow zone.

The conclusions presented within the 1989 report are generally consistent with those presented as part of previous reports.

The MOE provided comments on the 1990 and 1991 Monitoring Reports on November 5, 1992, with the primary MOE comments presented below:

- "It is very difficult to determine the impacts of leachate on the groundwater system at this Site because of poor background water quality and complex fracture characteristics of the underlying shales. The monitoring program conducted in 1990 and 1991 needs to be continued in order to expand the existing groundwater database. This will enable a more confident interpretation of the groundwater system in the future."

- "It is acceptable to measure leachate levels twice per year instead of four times per year provided there are no noticeable changes to leachate levels in the future."

Consistent with previous reports, the 1992 Monitoring Report found the occurrence of VOCs in leachate and groundwater to be sporadic and characterized by low or trace levels. There was a documented minor impact on general chemistry surface water quality immediately downstream of the Site. In 1992 it was also concluded that surface water quality downstream of the Site along the North Service Road is comparable to background quality, and persistent change in leachate elevations in leachate wells was not evident since installation of the LCS.

The 1993 Monitoring Report concurred with previous monitoring reports, indicating a minor impact of general chemistry parameters in surface water immediately downstream of the Site. Bacteria levels within the surface water were attributed to an upgradient surface water/groundwater source. Comments from the MOEE on the 1993

Monitoring Report and CRA Responses to the comments are contained in Appendix B.

In summary, the effectiveness of the leachate collection system has been demonstrated, and historical overland leachate seepage has been controlled and collected. The impact of the Site on groundwater quality has been difficult to assess due to the naturally poor groundwater quality and lack of proven and effective inorganic indicator parameters of leachate contamination.

1.3 CURRENT SITUATION

The property adjacent (to the southeast) of the Site was formerly owned by NSP. The NSP property was purchased by Jannock Ltd. through its subsidiary 873805 Ontario Inc. Jannock Ltd. is interested in establishing a brick factory and quarry within the licensed portion of the property and will also pursue the development of industrial land fronting on the North Service Road. As such, COB and Jannock Ltd. have undertaken a joint technical review of the performance and impacts of the Site. This review allows COB to determine the most appropriate buffer zone, monitoring requirements, and contingency measures for this closed landfill Site. The results of this review also allows Jannock Ltd. to evaluate the suitability of development of its adjacent lands south of the landfill in accordance with the provisions of the Ministry of the Environment Policy 07-07.

A joint COB/Jannock Ltd. report entitled, "Concept Proposal, Bayview Park Landfill Buffer Zone/Monitoring Requirements and Development of Lands of South of Bayview Park Landfill" dated January 1993, was prepared by CRA/Golder Associates and subsequently presented to the MOEE on February 8, 1993. The MOEE advised that they agree in principal with the Concept Proposal in a letter to COB dated February 23, 1993.

As part of the evaluation of Site Environmental Performance as outlined within the January 1993 Concept Proposal, newly installed observation wells OW1A/B-93, OW2A/B-93, OW3-93, and OW4-93 were sampled on two occasions in April 1993. Proposed surface water sample locations SW9A-93, SW13-93, SW14-93, and SW15-93 were sampled on one occasion in April 1993. The above groundwater and surface water results are presented in Appendix G.

Subsequently, a report entitled "Environmental Performance Report, Bayview Park Landfill" was prepared and submitted to the MOEE (J. Budz) on November 4, 1994. The purpose of the Environmental Performance Report is to present an environmental performance evaluation and rationalized monitoring program for the Bayview Park Landfill Site, based on the proposed Buffer/Alternative zone and recognition of the proposed adjacent land use developments. Complete comments with respect to the Environmental Performance Report are still outstanding.

1.4 HYDROGEOLOGIC BACKGROUND

As previously outlined, the Site lies adjacent to lands formerly owned by NSP (and currently owned by Jannock Ltd.) which were designated as "Site F" by the Region of Halton in their Waste Management Master Plan. Immediately west of Site F lies the Region of Halton Burlington Landfill Site (BLF). A number of hydrogeological reports addressing Site F, the adjacent BLF and the Site were presented as part of an Environmental Assessment Board Hearing for the selection of a new regional landfill site (CRA, 1988a; Feenstra, 1988; Gartner Lee, 1988: Geocon, 1987 and Trow, 1986).

In summarizing the above noted reports, the Site hydrogeology is characterized by a weathered and fractured shale mantle overlying a less fractured and relatively lower permeable shale bedrock. The fracture pattern within the shale mantle displays considerable variation both vertically and laterally across the Site. The pattern of groundwater flow within this fractured shale mantle is therefore expected to be complex. As shown by Feenstra (1988) the shallow or active groundwater flow system is

shown by Feenstra (1988) the shallow or active groundwater flow system is characterized by low chloride concentrations (<2,000 mg/L) relative to the underlying deep groundwater flow system found at the Site. As shown by Feenstra (1988) this flow system varies from as much as 20 m thick at HC4-85 to 0 m at HC8-85. In general this system varies from 0 to 5 m in thickness downgradient from the Site. Groundwater in this system generally flows laterally through a complex network of interconnected fractures with discharge to surface water bodies.

The underlying deep groundwater flow system is characterized by strong downward gradients and saline groundwaters. Chloride levels commonly exceed 10,000 mg/L in the underlying deep groundwater flow system.

A number of well nests and pumping wells were installed by Trow (1986) during the course of the hydrogeologic investigations on Site F. Of these wells, HC4-85, HC9-85, PW1, and PW3 lie generally downgradient of the Site and were incorporated into the 1988 Monitoring Program. In addition, well nests HC6-85 and HC7-85, which also lie generally downgradient of the Site, were incorporated into the 1989 Monitoring Program. In 1994, monitoring of these wells was continued except at HC6-85 (HC6-2, HC6-3) which had destroyed since April 1990. Geologic logs and observation well completion records for these wells are presented in Appendix C.

2.0 1994 MONITORING PROGRAM

The 1994 monitoring program was designed to continue to evaluate the effectiveness of the leachate collection system (LCS) and to determine if the groundwater and surface water downgradient of the Site is measurably impacted at the monitoring locations. The 1994 monitoring program consisted of the following components:

1) surface water monitoring;
2) leachate well monitoring;
3) leachate collection system monitoring;
4) off-Site groundwater monitoring; and
5) leachate seep inspections.

The monitoring program implemented in 1994 is outlined in Appendix D. Each of the five components of the monitoring program are presented with respect to sampling locations, frequency, monitoring requirements, and analytical requirements if applicable. The monitoring events in 1994 took place on April 19, 1994, July 6 and 7, 1994, and October 13, 1994.

2.1 SURFACE WATER MONITORING

The 1994 regular monitoring program provided surface water quality monitoring at 12 locations. These locations are provided on Figures 2.1 and 2.2. Samples were scheduled for collection during wet and dry weather, in April and July respectively, and in October if locations were dry during the July event.

Surface water samples were collected from all locations in April 1994 except for SW3-87 and SW11-87 which were reported as being moist without significant accumulations of water, and at SW4-87 where stagnant water conditions were observed. Samples were collected during the July sampling event from all of the surface water locations except for SW3-87, SW4-87, SW6-87, SW11-87, and SW13-89 which were dry. In October 1994, all

surface water sample locations were reported as dry. General Chemistry, VOCs, and Bacteriological parameters that were analyzed are presented in Table A.1 of the monitoring specifications contained in Appendix D.

2.2 LEACHATE WELL MONITORING

The six leachate well locations, LW1 to LW6, inclusive are shown on Figure 2.1. The leachate levels were measured on two occasions (April and July 1994) so as to evaluate the LCS. In addition, leachate well depths were measured. Levels were not obtained in LW4 as this well has been obstructed since 1991. In July 1994, a level was not obtained in LW2 due to the presence of condensate, on the solinst and "oil" like material in the well.

2.3 LEACHATE COLLECTION SYSTEM MONITORING

Leachate samples were collected from MH15 in April 1994. The manhole was reported dry in October 1994. The parameters that were analyzed are outlined in Table A.1 of the Monitoring Specifications (Appendix D).

Monitoring of the leachate flow at MH14 was not performed in 1994 as an estimated steady state flow of 0.43 m^3/day was established prior to the 1992 Monitoring Report. Leachate discharge flow rates for Pumping Stations #2 and #3 as well as MH14 were recorded for the entire year by COB (Appendix E). Precipitation data for the Hamilton Region are summarized in Table 2.1 in order to provide comparative information with respect to LCS annual pumped volumes versus the annual and average precipitation amounts.

2.4 OFF-SITE GROUNDWATER MONITORING

Monitoring of groundwater off Site was performed in 1994 to evaluate the presence of any measurable contamination of groundwater downgradient of the Site. The off-Site groundwater monitoring consisted of two components:

1) obtaining representative groundwater data for the shallow or active groundwater flow zone at the pumping wells; and
2) conducting widespread sampling of the shallow or active groundwater flow zone.

Two sampling events were conducted for off-Site monitoring; one event during each of April and July. Eight groundwater monitoring locations, including two pumping wells, PW1, PW3, and a total of six observation wells at three nest locations (HC-4, HC-7, and HC-9) were sampled. Off-Site groundwater monitoring locations are shown on Figure 2.3. However, as reported in April 1990, sampling at nest location HC6 was not possible as these wells have been destroyed. Also, it was determined in April 1994 that well HC4-3 has been destroyed. It is proposed that these wells will be replaced as part of the revised monitoring program as outlined in the January 1993 Concept Proposal and the November 1994 Environmental Performance Report. The parameters that were analyzed are provided in the Monitoring Specifications in Appendix D.

The two pumping wells (PW1 and PW3) were monitored so that representative samples of the groundwater quality downgradient of the Site could be measured. Prior to sampling, each pumping well was pumped for 5 hours. The samples were then obtained using a pre-cleaned bailer.

Prior to sampling, each observation well was purged, removing a minimum of three times the standing water volume in the well or until dry. In the event that the well was purged dry prior to achieving the three well volumes, the groundwater was allowed to recover to a level adequate for sample collection.

2.5 LEACHATE SEEP INSPECTIONS

There are nine historic leachate seep locations on Site. Seep inspections were performed on three occasions throughout 1994 (April 19th, July 7th and October 13, 1994) for seepage reoccurrence at historic seep locations and for the presence of new leachate seeps around the entire Site. Leachate Seep Inspection Reports for 1994 are presented in Appendix F.

3.0 LEACHATE COLLECTION SYSTEM RESULTS

3.1 LEACHATE WELL LEVELS

As mentioned previously, leachate level measurements were conducted on three occasions throughout 1994. Historical and current leachate level data are summarized in Table 3.1 and schematically illustrated on Figure 3.1. As noted on Figure 3.1, the LCS was placed on line in December 1986.

Leachate elevations at LW1 have remained reasonably consistent since the inception of operations at the LCS. Historically, fluctuations are attributed to seasonal variations in precipitation.

At LW2, the leachate elevations have historically remained either just above or below 137 metres above mean sea level (m AMSL) with a few exceptions. On three occasions since installation of the LCS, November 1988, November 1989, and July 1992, the leachate elevation has exceeded 141 m AMSL. These exceptionally high leachate elevations may reflect seasonal trends and/or may be a function of variations in the pumping rates of the LCS. A level was obtained in April 1994 which was consistent with historical measurements. The reported presence of "oil" like product at LW2 in July 1994 did not allow for the measurement of the leachate levels at this time. It is now recommended that a plopper and tape assembly be utilized to measure liquid levels at this and all leachate monitoring well locations.

Leachate elevations at LW3 are historically fairly consistent and have continued to be so throughout 1994.

Leachate well LW4 has been obstructed since 1991 and as such no recent leachate elevation levels have been measured. Pre-1991 leachate elevations are fairly stable with no obvious increasing/decreasing elevation trends being noted.

Leachate elevations at LW5 remained relatively stable throughout 1994 and consistent with historical data.

The leachate elevations in LW6 appears to show some seasonal variation similar to LW5 with decreasing levels in the summer and fall.

Leachate contours presented on Figure 3.2 were developed by utilizing leachate levels taken in July 1994 from all available leachate well locations. The leachate levels range from 142.11 to 165.26 m AMSL. As shown on Figure 3.2, the leachate flow is primarily in a southeasterly direction and mimics the underlying topographic slope. The average horizontal gradient across the Site for July 1994 was calculated to be 0.06 m/m. There has been no significant change in the horizontal gradient from initial measurements obtained in January 1986 (0.06 m/m), prior to installation of the collection system.

The leachate elevation monitoring results suggest that any decline in leachate elevation, as a result of the operation of the LCS is minimal. Moreover, the volume of leachate within the Site has not been significantly reduced. As will be discussed in Section 3.2 the LCS has proven effective in collecting leachate which historically seeped from the Site via toe of slope seepages. Leachate level monitoring should therefore be continued at a frequency of twice per year (April and July) in order to further monitor leachate levels at the Site.

3.2 LEACHATE SEEP INSPECTIONS

Leachate seep inspections were performed at the Site on three occasions: April, July and October throughout 1994. Inspections were inadvertently overlooked as scheduled in January 1994. The inspections are a continuation of the leachate seep inspection program established in 1986. On each occasion, a visual inspection was conducted at nine locations where leachate seepage has occurred historically. The inspection locations are identified on Figure 3.3. Leachate seep inspection reports summarizing

information pertaining to the condition of the seep locations were prepared during each inspection. The leachate seep inspection reports are provided in Appendix F.

As indicated in the 1986 Monitoring Report, leachate seepage was not observed at any inspection location during the late fall and early winter period following installation of the LCS. Although these locations did not exhibit any leachate seep discharge, they continued to be referred to as Leachate Seeps Nos. 1 through 9 for reference purposes during the 1987 through 1994 inspection programs.

Throughout 1994, leachate seepage was not observed at any of the nine historic leachate seep locations monitored. Soil patches at these three locations were however, noted as being wet to moist with no obvious overland seepage. These locations were LS1, LS7, and LS8.

In 1992, leachate seepage was observed at LS1. As a result, corrective measures including installation of riprap clear stone and drainage tile connected to the LCS were implemented in July 1992 in the vicinity of LS1. No seepage was observed at LS1 during the latter part of 1992 or during 1993. However, a localized wet soil area was observed at LS1 in both April and July 1994. The area was visually inspected, and reported to not emit a characteristic leachate odour or have a visible sheen in April 1994, however, a slight odour and slight sheen were observed in July 1994. The LS1 leachate seep location was observed to be dry in October 1994.

Soil dampness was observed at leachate seep location LS7 in April 1994. Visual inspection of the area indicated no characteristic leachate odour or visible sheen were present. Soil dampness was not evident in July 1994 or October 1994 and this location was recorded as being dry

Leachate seep location LS8 was reported as being damp in April 1994. No surface flow of liquid was reported. The dampness could have been due to precipitation that may have ponded at this location as no characteristic leachate odour or sheen was observed. This situation was

previously observed in July 1993. The location was dry in both July and October 1994.

3.3 PERFORMANCE OF THE LEACHATE/SHALLOW GROUNDWATER COLLECTION SYSTEM

The LCS is located along the south and west (downgradient) sides of the Site. The LCS consists of perforated pipe collectors and french drains. The pipe collectors generally are located parallel to the toe of the slope of the landfill at a depth of 4 m. The collector pipe consist of polyvinyl chloride (PVC) perforated pipe contained within a 2 m trench backfilled with clear stone. French drains are connected to the collector trenches and run up the landfill slopes into the refuse directly beneath the low permeable cover soils. The french drains are located where persistent leachate seepage through the cover previously occurred. A total of approximately 500 m of collector pipe and 350 m of french drains are in place. As noted earlier, the installation of the sideslope drainage swales and repair to the final cover in the vicinity of LS1 were undertaken in July 1992.

The collector pipe are connected to two pump stations located in deep ravines along the south side of the Site. The pump stations discharge leachate to the Region of Halton Sanitary sewer system for final treatment at the Skyway treatment plant. The King Road Sanitary sewer was extended beneath Highway 403 and up King Road to the Site. Approximately 800 m of gravity sanitary sewer were installed to accept leachate from the Site. The collected leachate is pumped through small diameter forcemains (2-inch and 3-inch) to the gravity sewer. Historically, flow measurements were obtained monthly from the two pump stations and measurements were recorded by COB staff. In 1994 flow measurements were recorded by COB staff on nine occasions.

Each pump station consists of two pumps which engage on an alternating basis. An elapsed time meter records the run time for each of the two pumps at each of the two stations. Therefore, similar elapsed time readings for each pump indicate normal operation. A copy of all the 1994

pump readings are provided in Appendix E. As noted in Appendix E, Pump No. 2 in Station No. 2 was shutdown during the period of October 1st to November 25, 1994 for repairs. The total pump hours and total flows for Station No. 2 and Station No. 3 are presented in Table 3.2. The estimated flow for the short lateral collector that discharges to the gravity sewer at MH14 is also presented in Table 3.2. It is evident that the short lateral collector is a small contributor to the total estimated flow of the collection system. Due to prohibitive confined space entry requirements and cognizant of collected data over the previous 4 years, it was recommended in the 1990 Monitoring Report that an estimated rate for the short collector be utilized as part of COB reporting and payment for treatment to the Region of Halton. This estimated rate is 0.43 m^3/day.

Based on the sum of the pumped volumes at Pumping Stations 2 and 3 as well as the flow from the short collector at the MH14 weir estimates the total volume of leachate removed by the system is estimated to be 54,044.83 m^3 for the period January 22, 1994 to December 27, 1994. It should be noted that the operational pumping hours and the total volume of leachate discharged has significantly decreased from the reported value in 1993 (100,198.63 m^3), but is comparable to the value reported in 1992 (41,442.58 m^3). The average 1987 to 1994 annual leachate discharge volume is approximately 70,500 m^3. Table 3.3 summarizes the historical leachate discharge volumes to the Regional sanitary sewer.

4.0 ANALYTICAL RESULTS

A description of the sampling program is outlined in the 1994 Site Monitoring Specifications provided in Appendix D. All surface water, groundwater, and leachate samples collected during this investigation were analyzed by the following laboratories:

General Chemistry	CRA Analytical Services (CAS)
Bacteria	NovaMann
Metals	NovaMann
VOC	NovaMann
Base/Neutral/Acid Extractables (BNAs)	NovaMann
Pesticides/PCBs	NovaMann

The data base containing the current and historical analytical data is compiled in Appendix G. These data were assessed and validated based upon a Quality Assurance/Quality Control (QA/QC) Program. These results are discussed in the following section of this report.

4.1 QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The analytical data received was assessed and validated by CRA's QA/QC program based upon a review of standard quality control criteria, which include field blank analyses, duplicate sample analyses, travel blank analyses, sample holding times, and laboratory QA/QC procedures.

Field blanks were used to provide an indicator of potential sources of target analyte contamination of the samples during sampling and analysis. A field blank was prepared by pouring Type I deionized water, supplied by the CRA laboratory, into a sample bottle while on Site. According to USEPA guidelines when target analytes are detected within the field blank, only analytical results which were greater than five times the levels reported in the field blank are considered to be true positive detections. Affected results are qualified as "U" - not detected above sample quantitation limit. In

essence, these guidelines correct the reported laboratory method detection limit for contributory influences not reflected in the limitations of the analytical method. The sample quantitation limit (SQL) is the true confidence threshold. Analytes detected at levels below the SQL are not regarded as being true positive detections.

In order to assess sampling variability, duplicate samples were also collected and submitted to the respective analytical facility as part of each sampling event.

Travel (trip) blanks were also collected as part of the QA/QC program. These samples were analyzed for VOCs. The purpose of a trip blank was to determine if cross-contamination occurred during shipping. The laboratory would prepare the trip blanks and send them to the field where they would be left unopened.

Allowable holding time of a sample is the maximum time, beginning with sample collection, which can be allowed to elapse before extracting or analyzing a sample. By comparing the collection date of all samples with the reported date of extraction or analysis, the actual holding time is determined and compared to the allowable holding time.

Analysis of laboratory duplicates, blanks, and check samples were also part of the laboratory QA/QC program. Laboratory duplicates consisted of laboratory prepared duplicates of field samples. The duplicates were prepared by subdividing the sample into two individual samples so that homogeneity was achieved. The purpose of these duplicates was to validate the precision of the laboratory analytical methods employed.

The laboratory performing the analysis would prepare a laboratory blank consisting of de-ionized water on the day the collected samples were to be analyzed. The objective of this blank was to determine the existence and magnitude of contamination, if any, occurred within the laboratory.

The analytical assessment and validation reports are presented in Appendix H. A summary of data qualifications is provided in Table 2 in Appendix H. The validation reports indicate that selected analytical results required qualifications in 1994. These qualifications were due to the following:

1) low level detections of certain metal analytes (zinc, iron, cadmium, copper, tin, lead, nickel, and aluminum) in the April field blank and lab blank samples;

2) a degree of variability in duplicate general chemistry sample results as part of the April sampling event; and

3) low laboratory method spike recovery for aldrin for leachate samples collected in April 1994.

4.2 SURFACE WATER

The Site monitoring specifications dictate that surface water sampling is to occur in wet weather conditions in April, and dry weather conditions in July, however, if surface water sampling locations are dry in July, surface water samples would be collected in October. These sampling condition specifications were observed and adhered to for April and July sampling in 1994.

There are 13 surface water sampling locations at the Site. During the installation of the LCS in 1986, surface water sampling point SW2 was contained by the collection system, and thus no longer exists. In April 1994, samples were collected from 9 of the 12 remaining sampling locations, with locations SW3, SW4, and SW11 being reported as containing stagnant water only. In July 1994, samples were collected from seven of the 12 remaining sampling locations, with locations SW3, SW4, SW6, SW11, and SW13 reported as dry. All locations were dry in October 1994. All historical

and present surface water data has been recorded in the data base provided in Appendix G.

Field measurements of pH and conductivity were obtained for all monitoring locations in 1994. All samples were analyzed for the following general chemistry parameters:

- alkalinity;
- ammonia nitrogen;
- chloride;
- total kjeldahl nitrogen (TKN);
- phenols; and
- sulphate.

Un-ionized ammonia concentrations were calculated from total ammonia results by applying a correction factor based on the temperature and pH of the surface water. This method of determining un-ionized ammonia concentrations is outlined in "Water Management - Policies, Guidelines, Provincial Water Quality Objectives of the Ministry of Environment and Energy" (July 1994).

Total kjeldahl nitrogen (TKN) is a measure of all the nitrogen in the trinegative state. It is primarily a measure of nitrogen present in the organic form such as proteins, amines, and urea, as well as nitrogen present as free ammonia. The organic nitrogen fraction can be estimated by taking the difference between the free ammonia and the total kjeldahl nitrogen results. Sewage and runoff from agricultural areas where fertilizers have been used are the primary sources of TKN besides the natural nitrogen fixation and anaerobic nitrate reduction processes. The degradation of food wastes may also be a source of TKN.

Priority pollutant VOC indicators and bacteriological parameters were also analyzed. Historically, fecal coliforms, total coliforms, and fecal streptococci were the bacteriological parameters analyzed. With the issuance of the updated Provincial Water Quality Objectives by the MOEE in July 1994, Escherichia coli (E. coli) were added to the parameter list. The

MOEE standard indicated E. coli is the most suitable and specific indicator of fecal contamination. The analysis of fecal and total coliforms will be continued at the Site to allow for monitoring trends in the water quality with time.

Coliform group bacteria are present in the gut and feces of warm blooded animals. An indication of the remoteness of the source of coliforms is the relative amounts of fecal coliform/and non fecal members of the coliform group. Non fecal members of the coliform group may be expected to survive longer then the fecal members of the group in the unfavourable environment provided by the water. The presence of total coliforms in water is not a specific indication of sewage as fecal pollution but may also indicate soil runoff and also contact with food wastes.

A complete listing of all parameters analyzed are outlined in the 1994 Site Monitoring Specifications presented in Appendix D.

As reported in the 1989 Monitoring Program Report (CRA 1990), the surface water samples collected in 1989 were during a period of relatively large surface water flow and as such may reflect the improved water quality due to dilution. This was considered when comparing these results.

It should also be noted that the surface water monitoring analytical list was refined in 1988, as such hardness, iron, DOC, nitrite and nitrate were removed from the analytical parameter list.

4.2.1 General Chemistry

Background Surface Water Quality Locations
SW9, SW11, and SW12

The sampling point SW9 was established to define the local (background) surface water chemical characteristics in order to

differentiate between any impacts related to the landfill and elevated concentrations typical of the area. Locations SW11 and SW12 were added in the 1987 Monitoring Program so that additional background surface water quality information could be established. A summary of historical and current surface water quality at the above-noted locations is presented in Table 4.1.

Comparison of historical results at SW9 with the current data show 1994 values for conductivity, alkalinity, chloride, sulphate, and TKN are comparable to historical values but have shown an increasing trend over the period 1992 to 1994. The concentrations of coliforms measured in April 1994 are comparable to historical results, but show an increase in July 1994. Ecoli counts of 540 were detected in the July 1994 sample collected at SW9. This strongly indicates an upstream source of animal wastes. Concentrations of un-ionized ammonia are also higher than available historic results. Since this is a background surface water monitoring location, an upstream groundwater and/or surface water source for TKN, coliform and unionized ammonia analytes is indicated.

At SW11, samples have only been obtained since 1989 as this location was dry throughout 1987 and 1988. This location was also dry throughout 1994. Historic results indicate concentrations of chloride, TKN, and coliforms are present. Again, as this is a background surface water monitoring location, there is an upstream groundwater/surface water source of these parameters.

The 1994 results for SW12 indicate increases in TKN and coliform concentrations over historic results. The Ecoli count was measured at greater than 1,600 which again strongly indicates an upstream source related to animal wastes. Also, in April 1994 the reported un-ionized ammonia concentration represents a significant increase (from not detected since 1991 to 3.2 µg/L in April 1994); however, in July 1994 ammonia is not detected. Again, an upstream source for TKN, coliform and unionized ammonia is indicated.

For the parameters analyzed, the background surface water quality results in 1994 are below their respective Provincial Water Quality Objectives (PWQOs) with the exception of July 1994 results for coliforms. General chemistry and bacteria results indicate that background water quality has generally deteriorated throughout 1992 to 1994. These results contrast a pattern of progressive improvements in background surface water quality since monitoring began in 1986. Future analyses will help to clarify whether these results values are anomalous or the start of a trend to poorer background water quality.

Leachate Seep Surface Water Locations
SW1, SW3, and SW4

Location SW1 monitored surface flow and leachate seepage in 1986 near the southern toe of the Landfill area. As shown on Figure 2.1 this point lies immediately outside the collection system. Locations SW3 and SW4 also monitored the surface water near the southern toe of the Landfill Site in 1986, but were relocated at a downstream position in 1987. Both SW3 and SW4 were dry or contained stagnant water, throughout the period between 1987 to 1994. It is reasoned that SW3 and SW4 are essentially dry due to the performance of the LCS. Comments from the MOEE in Appendix B suggest moving SW3 and SW4 further downstream to facilitate sample collection. The purpose of the continued monitoring of these locations is to demonstrate that the leachate collection system is effective in the containment of former seepage locations. The observation that these locations are essentially dry confirm that the leachate collection system is operating effectively. At location SW2 leachate historically emanated from the toe of the slope at the Site but was contained in 1986 and now discharges directly into the leachate collection system. A summary of the historical and present surface water quality at SW2 is presented in Table 4.2.

The reported water quality at SW1 continues to show improvement in 1994 as compared to that reported prior to the construction of the leachate collection system in 1986. However, the 1994 results are generally higher than the 1993 results. The reported concentrations of chloride showed a marked decrease from 1993 to 1994. However, the concentration of TKN and coliforms has shown a marked increase in 1994

compared to 1993. Concentrations of other parameters remained relatively consistent.

The 1994 concentrations at SW1 are comparable to or lower than those recorded at the background upstream location (SW9) with the exception of detected unionized ammonia, TKN and total coliform concentrations. Historically, the concentrations of most parameters at SW1 have been slightly elevated compared to SW9. This suggests some minor landfill derived impact or additional loading as a result of groundwater discharge of water that has been impacted by unionized ammonia, TKN and/or total coliform bacteria. Ecoli counts are comparable at both background location SW9 and landfill vicinity SW1 monitoring locations.

Discharge to East of King Road, SW5

Surface water location SW5 is located at the culvert which runs east beneath King Road and discharges on the adjacent Jannock quarry property. Much of the Bayview Park surface water flow drains to this point. Some remediation was conducted around SW5 in 1986/1987 in the form of soil cover, regrading and ditching.

The general chemistry parameter results at SW5 throughout 1986 to 1994 are presented in Table 4.3. Comparing the 1993 results with the 1986 results, indicates that an overall improvement in water quality has occurred. Detected general chemistry parameters generally decreased from 1986 until anomalously high values were reported in July 1992.

Water quality at SW5 in April 1993 and April 1994 showed an improvement since July 1992, but again a marked increase in general, chemistry analytes such as chloride, TKN, ammonia and coliform bacteria concentrations, was observed in July 1994 as compared to April 1993 and April 1994. Ecoli counts for a sample collected at SW5 were determined to be 540 as part of the July 1994 sampling event. The samples obtained at SW5 in July 1992 and July 1994 are the only two historic samples collected from this location during the summer months. SW5 has historically been dry during

this time period. This suggests a possible seasonal component to the observed fluctuations, with higher concentrations observed during periods of lower flow (less available dilution).

SW5 has historically shown elevated levels of conductivity, alkalinity, chlorides, TKN, sulphate, and coliforms when compared to the background location, SW11, suggesting minor landfill derived surface water impacts. Surface water location SW11-91 was reported as dry for the April 1994 and July 1994 monitoring events. The 1994 surface water quality at SW5 meets the applicable PWQO for the analyzed list of parameters (with the exception of coliform bacteria).

King Road and North Service Road, SW10

Surface water point SW10 is located at the northeast corner of King Road and North Service Road, approximately 600 m downstream of SW5. The headwaters draining to SW10 are generally located immediately to the east of the Site, but include some surface water drainage from the Site, as measured at SW5.

A summary of historical and current surface water quality at SW10 is presented in Table 4.4. Surface water quality at SW10 has improved since 1986 with the exception of general chemistry analyte, TKN. Values of TKN reported in 1994 (ranging from 0.35 to 1.34 mg/L) are higher than those in 1986 (ranging from 0.25 to 0.49 mg/L).

In April 1994, general chemistry analytes including conductivity, chloride, and sulphate demonstrated decreased concentrations over those reported in 1992 and 1993. General chemistry parameters reported in July 1994 were slightly above concentrations reported in April 1994. Of particular interest is the TKN result (1.34 mg/L) reported in July 1994. This value represents the highest recorded level of TKN at this location. It is noted that levels of TKN have progressively increased throughout 1990 to 1994. Total coliform concentrations reported in July 1994 represent the highest levels since 1989. Ecoli counts at SW10 were in excess of 1,600 for a SW10 sample collected as part of the July 1994 monitoring event.

In comparison with the April 1994 data at the upstream location SW5, location SW10 demonstrates improved water quality for the general chemistry parameters, conductivity, alkalinity, chloride, TKN, and ammonia, but decreased water quality as depicted by increased concentrations of sulphate.

The surface water quality at SW10 meets the established PWQOs with the exception of coliform guideline criteria. No PWQO is available for TKN.

North Service Road Locations
SW6, SW7, and SW8

Surface water monitoring locations SW6, SW7, and SW8 are located along the North Service Road and are downgradient of SW1, SW3, and SW4 respectively (Figure 2.2). These sampling points are located at a point on the stream upslope from any potential influence of road salting from Highway 403. A summary of the surface water quality for SW6, SW7, and SW8 is outlined in Table 4.5.

At SW6 all general chemistry parameters reported in April 1994 are below 1986 values. A general trend of improving water quality has evolved since 1986 with the exception of concentrations of TKN and coliforms.

Comparing SW6 1994 general chemistry values with those reported in 1993 reveals that most parameters have essentially remained the same or decreased slightly. Specifically, concentrations of TKN and coliforms which showed slightly elevated concentrations in July 1993 are decreased in April 1994.

Comparison of April 1994 data with the upstream location SW1, indicate that higher results for conductivity, chlorides, and sulphate were detected at SW6. Lower values of TKN, ammonia, and coliforms were detected at SW6 as compared with SW1.

General chemistry parameter results for SW7 indicate that a trend of continued improved water quality samples since 1986 was interrupted in 1993. The 1994 results are generally comparable to or slightly lower than the 1993 results with the exception of TKN concentrations. Coliform concentrations detected in July 1994 were detected above the applicable PWQOs. Ecoli counts were in excess of 1,600 for a surface water sample collected at this location in July 1994.

At SW8, surface water concentrations in 1994 are comparable to those reported in 1993 and are within the range historically reported. Concentrations of TKN (1.42 mg/L) and ammonia (0.15 mg/L) reported in 1994 are the highest detected concentrations since 1987. Concentrations of coliforms in July 1994 were detected above the applicable PWQOs with Ecoli counts in excess of 1,600.

Aldershot Sampling Location, SW13

Surface water location SW13 is located downstream of the Site, south of Highway 403, near the CNR tracks. This location was incorporated into the 1988 Monitoring Program because of the generally dry conditions encountered in 1987. Some surface drainage from SW6, SW7, and SW8 as well as surface drainage from west of the Site are incorporated at this sampling location. A summary of surface water quality is presented in Table 4.6.

The reported concentrations at SW13 are comparable with historical results, with the exception of a slightly elevated concentration of un-ionized ammonia reported in April 1994. Concentrations at SW13 are generally within the range observed at the upgradient locations, SW6, SW7, and SW8.

4.2.2 Volatile Priority Pollutant Sampling

In April 1994, samples were collected from 9 of the 13 surface water locations for priority pollutant volatile organic compounds

(VOCs) analysis. Surface water locations SW3, SW4 and SW11 were dry, and location SW2 no longer exists. In July 1994, seven surface water samples were collected for VOC analysis, while surface water locations SW3, SW4, SW6, SW11, and SW13 were dry.

No volatile organic compounds were detected in the surface water samples in 1994. The parameters analyzed are outlined in Appendix D. The VOC results are compiled in the data base presented in Appendix G.

MOEE comments in Appendix B related to the question of parameters indicative of leachate such as metals (specifically iron), toluene, and PCBs and stated that these analytes should be incorporated into the monitoring program, so as to gauge any changes in landfill impacts. VOCs including toluene are already analyzed at the surface water monitoring locations. With respect to PCBs, these parameters have been monitored in the surface water in the past and found to generally not be persistently present. Given the natural presence of iron within the iron rich red shale bedrock area over which the surface water directly flows, iron may not be appropriate as an indicator of landfill derived impacts in surface water. Metals, VOCs, pesticides and PCB parameters are monitored in the leachate itself to provide a basis for determining whether or not these parameters are of concern to surface water quality. The results of leachate analysis is provided in Section 4.3.

4.2.3 Summary

Volatile organic compounds were not detected at any surface water locations in 1994. This is consistent with historical results.

General chemistry parameter results indicate that surface water quality has improved since installation of the LCS in 1986. Throughout 1986 to April 1992 a trend of progressively improving surface water quality had developed at a number of locations. This trend was disrupted in

July 1992 when relatively elevated general chemistry values were reported at a number of locations.

The 1994 results indicate that, in general, conductivity, alkalinity, hardness, phenols, chloride, and sulphate concentrations at all surface water locations are comparable to recent historic concentrations and well below 1986 values. Whereas, TKN, ammonia, and coliform bacteria values have generally increased from recent historic data at background, landfill vicinity, and downstream locations. Coliform bacteria concentrations showed a marked increase in July 1994 over historical results at both background, landfill vicinity, and downstream locations.

An upstream/upgradient surface and groundwater source of coliform, ammonia, and TKN is indicated.

A comparison of upstream and downstream surface water quality for April 1994 and July 1994 is provided in Tables 4.7 and 4.8, respectively. The landfill appears to be affecting surface water quality as a result of shallow impacted groundwater discharge with respect to increased chloride, ammonia (including un-ionized ammonia), and TKN concentrations at landfill vicinity surface water monitoring locations based on a comparison of upstream and downstream monitoring points. Un-ionized ammonia concentrations are below the PWQO of 20 µg/L. Currently, no PWQO is available for chloride or TKN.

Concentrations of coliforms (including E. Coli) are found above PWQOs at upstream, landfill vicinity, and downstream monitoring locations.

4.3 LEACHATE/SHALLOW GROUNDWATER COLLECTION SYSTEM MONITORING

Leachate was sampled on a single occasion in 1994 for the analysis of all parameters listed in Table A.1 of the 1994 Site Monitoring Specifications located in Appendix D. Leachate samples were collected at MH15 in April 1994. The manhole was dry in October 1994. The sample was

collected at the base of the manhole while the collection system was pumping. The short lateral collectors that joins the main system at MH13 and MH14 were not sampled due to "confined space" entry restrictions. All historical and present leachate chemistry results are presented in the data base in Appendix G.

4.3.1 Metals and General Chemistry - Leachate

The results of leachate analysis for metals and general chemistry are presented in Tables 4.9 and 4.10 respectively. In these tables, the objective column represents the Halton Region Bylaw 192-89 parameters which are the limits for leachate discharge to the sanitary sewer system.

All parameters are below their respective objectives except total dissolved solids (TSS), which in April was detected at 352 mg/L, thereby just exceeding the Halton Regional objective of 350 mg/L (see Table 4.10). This result may be considered anomalous as it is five times greater than the three previous results of 57 mg/L, 76 mg/L, and 41 mg/L reported in October 1992, April 1993, and October 1993, respectively. Future analyses will determine the validity of the April 1994 result as representative of MH15 leachate. An elevated concentration of copper (18.9 mg/L) found in October 1993 was believed and proven to be anomalous as the April 1994 copper result of 1.52 mg/L is more indicative of, but still slightly elevated over historical results. Apart from the anomalous elevated TSS value, the levels detected are consistent with that generally found in a closed municipal landfill leachate.

4.3.2 Priority Pollutants - Leachate

A summary of the 1994 detected priority pollutant parameters in the collection system (MH15) is outlined in Table 4.11. Historical and present data is incorporated in the data base found in Appendix G.

Only four of the priority pollutants included in the list for analysis were detected during the 1994 Monitoring Program. These detected parameters were VOC compounds: chlorobenzene, 1,4-dichlorobenzene; and Pesticides: carbaryl and endrin. No PCBs were detected within the leachate.

In April 1994, chlorobenzene was reported at a concentration of 22 µg/L, 1,4-dichlorobenzene at 3.6 µg/L, carbaryl at 13 µg/L, and endrin at 0.005 µg/L. None of these exceed comparative MOEE Drinking Water Objectives. Carbaryl and endrin have not historically been detected within the analyzed leachate samples.

Historically, the leachate quality has been characterized by sporadic relatively low concentrations of volatile organic compounds.

4.4 OFF-SITE GROUNDWATER MONITORING

4.4.1 Introduction

The off-Site groundwater monitoring program was designed to assess the presence of contamination of groundwater downgradient of the Bayview Park Landfill. It is recognized that the Site is old and at present has relatively weak leachate. Previous monitoring programs utilized organic nitrogen as an indicator of groundwater contamination. Results of these investigations show that organic nitrogen was not a useful indicator for illustrating a relationship between organic nitrogen levels in the overburden and the bedrock, nor between background and downgradient locations (CRA, 1988). The 1988 monitoring program concluded that bacteriological parameters were not a useful indicator of groundwater contamination (CRA, 1989). It was also observed that the location of well screens in the downgradient monitors had not been demonstrated to be placed within the active groundwater flow zones originating from the landfill. The 1994 Monitoring Program was modelled after the 1990 to 1993 Monitoring Programs, and designed to obtain representative groundwater from the shallow flow system and continue

widespread sampling of the shallow or active groundwater flow zone (CRA, 1990).

Pumping wells PW1 and PW3 were pumped and sampled on two sampling occasions to ascertain the 'average' groundwater quality downgradient of the Site. PW1 is located approximately 600 m downgradient of the Site, along the North Service Road. This well is completed in the Queenston Shale at a depth of 31.37 m below top of casing (bTOC) within the deep bedrock flow system. PW3 is located between PW1 and the Site boundary, approximately 160 m downgradient of the Site. PW3 is located in the Queenston Shale but within the shallow groundwater flow system. Each well was pumped for 5 hours prior to sampling. The samples were analyzed for general chemistry parameters and VOCs.

In addition, the nest of the wells at HC7 (HC7-1, HC7-2), the uppermost two bedrock wells at HC4 (HC4-2 and HC4-4), and the two intermediate wells monitoring the bedrock and the till/bedrock contact at the HC9 nest (HC9-2 and HC9-3) were sampled in April and July 1994. Well HC4-3 (one of the three uppermost bedrock wells at HC4 sampled during previous years) was removed from the monitoring program in 1994 because the well was reported to have been buried and not possible to sample. The observation wells were monitored for the same suite of general chemistry parameters as the pumping wells. In July 1994 selected observation wells were also analyzed for VOC parameters.

Table 4.12 presents the details of those wells included in the 1994 monitoring program. The historical analytical data for all groundwater locations is presented in the data base found in Appendix G.

4.4.2 General Chemistry

General chemistry results for the 1994 monitoring of PW1 and PW3 are presented in Table 4.13. The results indicate that values of conductivity, chloride, ammonia and TKN were significantly higher in PW1

than in PW3. Alkalinity was also found to be higher in PW3 than in PW1. This is consistent with observations reported in the 1993 monitoring report.

Chloride concentrations in PW1 (1,014 to 2,604 µg/L) and PW3 (290 to 409 mg/L) exceed the MOEE Drinking Water Objectives (May 1984) of 250 mg/L.

The results for the general chemistry parameters measured at the off-Site observation wells are provided in Table 4.14. The results indicate that with the exception of chloride all parameters are within applicable MOEE Drinking Water Objectives. High concentrations of chloride and conductivity are observed at all monitoring locations and are interpreted to represent naturally poor groundwater quality.

The characteristically poor natural groundwater quality and relatively weak leachate quality does not allow for the quantification of leachate impact on groundwater quality.

4.4.3 VOCs in Groundwater

No VOCs were reported above the method detection limit in any of the observation wells or pumping wells during the 1994 Monitoring Program. This is consistent with 1993 results and represents a slight improvement in water quality since chlorobenzene and toluene were detected on occasion prior to 1993.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

Based on the available data it is concluded that:

1. No overland leachate seepage was observed at leachate seepage locations in 1994. Moist to wet soil conditions were as were noted at locations LS-1, LS-7 and LS-8, on at least one occasion during the 1994 inspection program.

2. The leachate elevations in the leachate wells do not show persistent change since the installation of the LCS.

3. Surface water quality has improved since 1986 at all sampling locations downgradient of the landfill, although a degradation of surface water quality has been generally noticed since 1992 at both background (upstream) and downstream locations. Ecoli counts at upstream locations strongly indicate an upstream source of these bacteria.

4. The landfill appears to be affecting surface water quality as a result of shallow impacted groundwater discharge with respect to increased chloride, TKN, and un-ionized ammonia concentrations at landfill vicinity surface water monitoring locations as compared with upstream and downstream surface water monitoring locations. It should be noted that un-ionized ammonia concentrations are below the Provincial Water Quality Objective of 20 µg/L, and no objectives are available for chloride or TKN.

5. Bacteria levels across the Site were detected above the Provincial Water Quality Objectives in July 1994 at both background and downstream locations. The bacteria levels showed a marked increase in July 1994 which is likely reflective of summer low flow conditions.

6. The characteristically poor natural groundwater quality and relatively weak leachate quality does not allow for the ready quantification of leachate impacts on groundwater quality.

7. The occurrences of volatile organics in the leachate and groundwater is generally seen to be sporadic and characterized by low or trace levels only.

8. Surface water monitoring locations SW3 and SW4 have been dry since the installation of the LCS indicating that the LCS is effective in controlling shallow groundwater and surface leachate seepage discharge.

5.2 RECOMMENDATIONS

Based on the above conclusions and pending the concurrence from the MOEE with respect to the findings of the Environmental Performance Report, the following recommendations are made:

1. In the interim, pending MOEE concurrence with the Environmental Performance Report, the 1995 Monitoring Program will be continued as was outlined for the 1994 Monitoring Program contained in Appendix D of this report.

2. The monitoring specifications for the Site will be revised to reflect the rationalized monitoring program as presented within the Environmental Performance Report upon concurrence from and/or acceptance by the MOEE.

REFERENCES

1) Conestoga-Rovers & Associates (1985), Bayview Park Landfill, Indian Creek Contamination Investigation Report. Prepared for the City of Burlington (July 1985).

2) Conestoga-Rovers & Associates (1986), Addendum No. 1, Detailed Design Report, Leachate Collection System and Surface Drainage Improvements, Bayview Landfill Site. Prepared for the City of Burlington (July 1986).

3) Conestoga-Rovers & Associates (1987), Updated 1986 Monitoring Report, Bayview Landfill Site Report. Prepared for City of Burlington (March 1987).

4) Conestoga-Rovers & Associates (1988a). Evaluation of Halton Region, Landfill Technical Studies, Site F-Burlington, Hydrogeologic Report. Prepared for the City of Burlington.

5) Conestoga-Rovers & Associates Ltd. (1988b). 1987 Surface Water and Groundwater Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

6) Conestoga-Rovers & Associates Ltd. (1989). 1988 Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

7) Conestoga-Rovers & Associates Ltd. (1990). 1989 Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

8) Conestoga-Rovers & Associates Ltd. (1991). 1990 Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

9) Conestoga-Rovers & Associates Ltd. (1992). 1991 Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

10) Conestoga-Rovers & Associates Ltd. (1993). 1992 Monitoring Report, Bayview Park Landfill Site. Prepared for the City of Burlington.

11) Conestoga-Rovers & Associates Ltd. (1994). 1993 Monitoring Report, Bayview Park Landfill Site. Prepared for the City of Burlington.

12) Dillon (1982) Bayview Park Landfill Site, Leachate Discharge Investigation Phase 1. Prepared for the City of Burlington.

13) Feenstra, Stanley (1988). Witness Statement for Reply Evidence. In the Matter of the Consolidated Hearing for the Environmental Assessment of the Proposed Halton Landfill.

14) Gartner Lee Ltd. (1988). Halton Regional Landfill-Burlington, 1987 Monitoring Report. Prepared for the Regional Municipality of Halton.

15) Geocon Inc., (1987). Review of Hydrological Report on Site F - Burlington, Proposed Landfill Region of Halton. Prepared for the Town of Milton.

16) Hewetson J.P. 1985 An Investigation of the Groundwater Zone in Fractured Shale at a Landfill- - MSc Thesis University of Waterloo.

17) Morrison Beatty Ltd. (1980) Phase II Hydrogeologic Investigation National Sewer Pipe Landfill Site Burlington. Prepared for Proctor and Redfern.

18) Trow Hydrology Consultants Ltd. (1986). Halton Region Landfill Technical Report, Site F - Burlington. Prepared for the Regional Municipality of Halton.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Hayes, B. Sc.

Anthony J. Crutcher, P. Eng.

Gregory D. Ferraro, P. Eng.

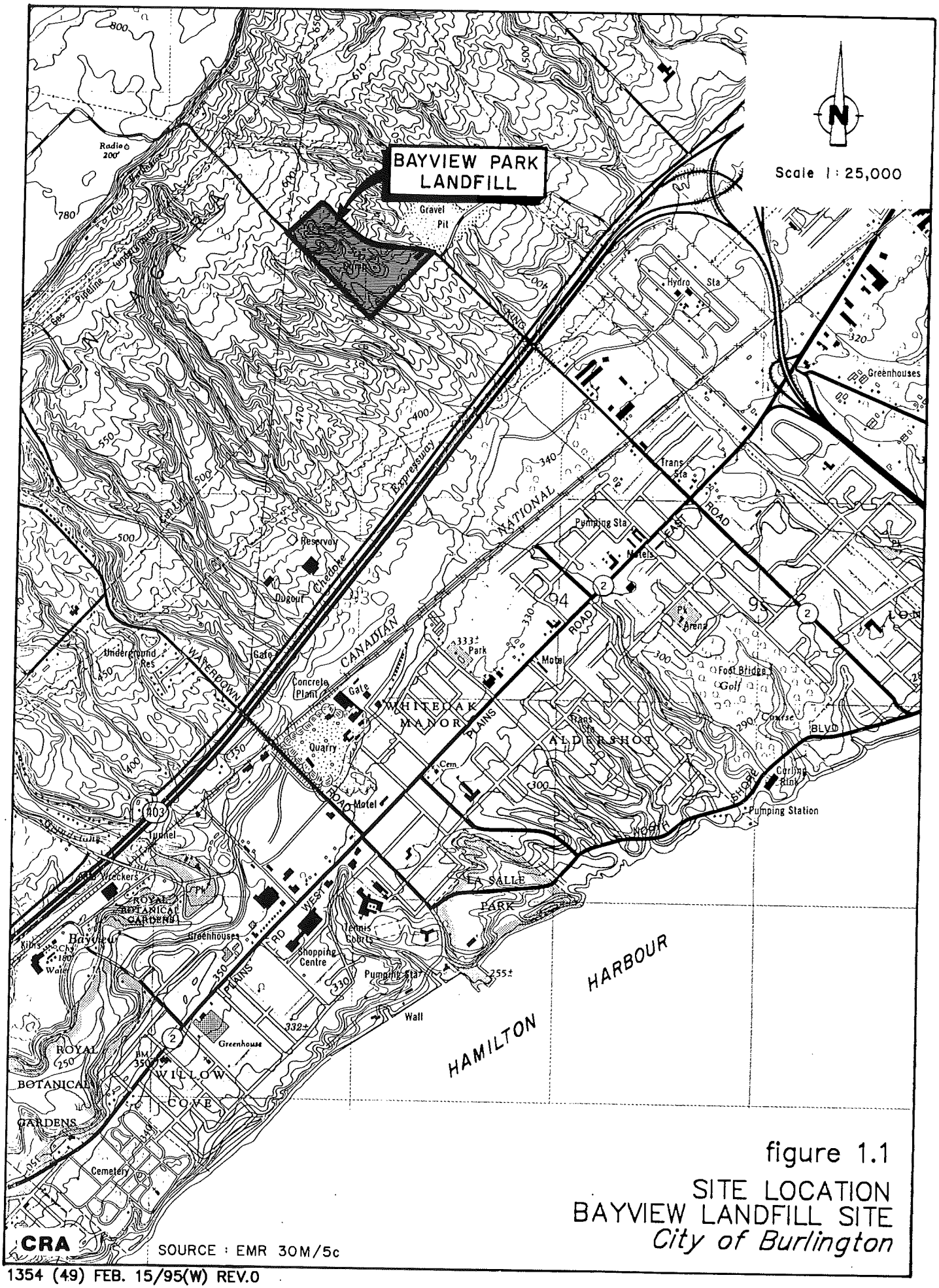


figure 1.1

SITE LOCATION
BAYVIEW LANDFILL SITE
City of Burlington

CRA

SOURCE : EMR 30M/5c

1354 (49) FEB. 15/95(W) REV.0

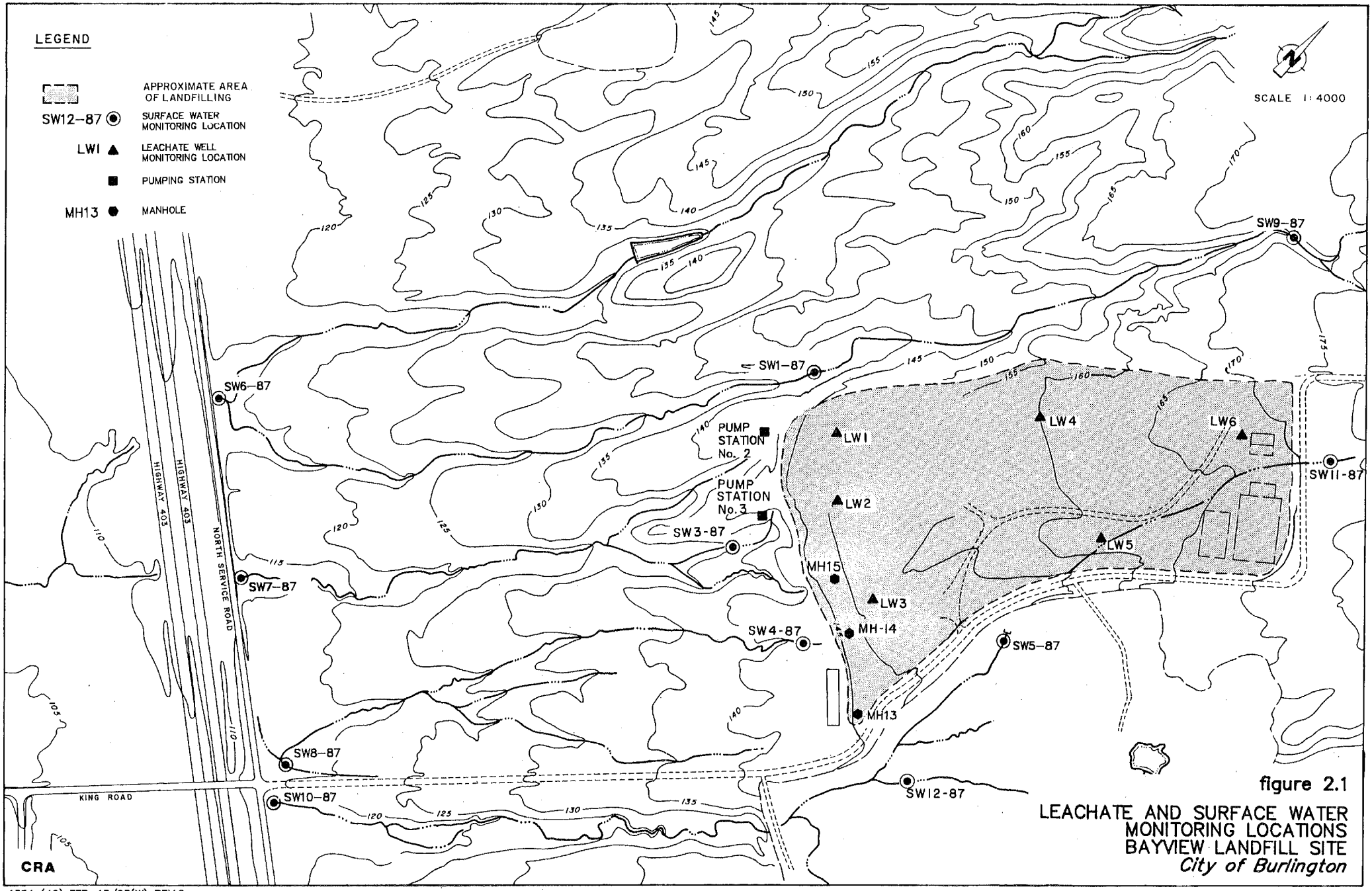


figure 2.1

LEACHATE AND SURFACE WATER MONITORING LOCATIONS
BAYVIEW LANDFILL SITE
City of Burlington

1354 (49) FEB. 15/95(W) REV.0

000563

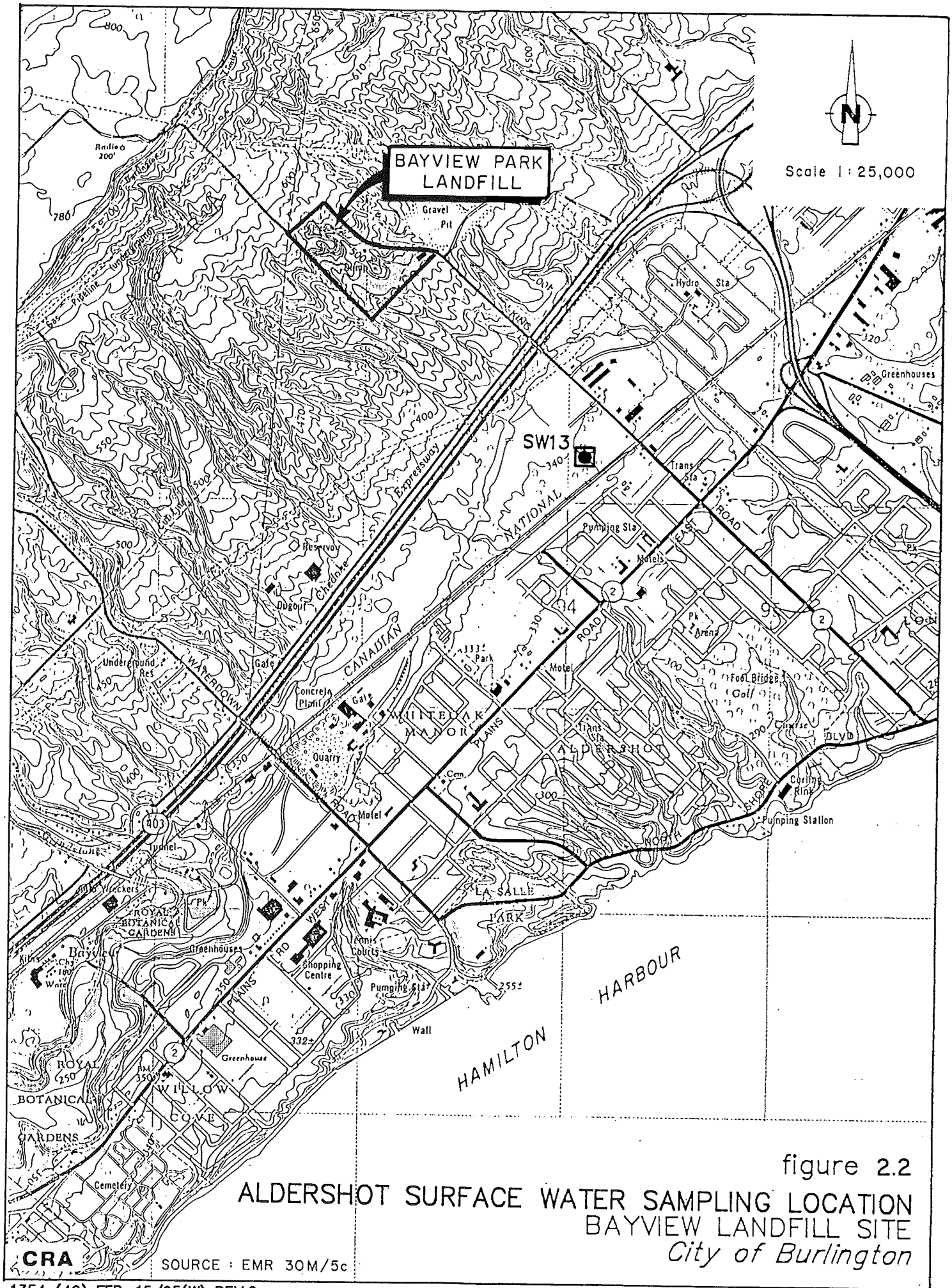


figure 2.2

ALDERSHOT SURFACE WATER SAMPLING LOCATION
BAYVIEW LANDFILL SITE
City of Burlington

CRA SOURCE : EMR 30M/5c

1354 (49) FEB. 15/95(W) REV.0

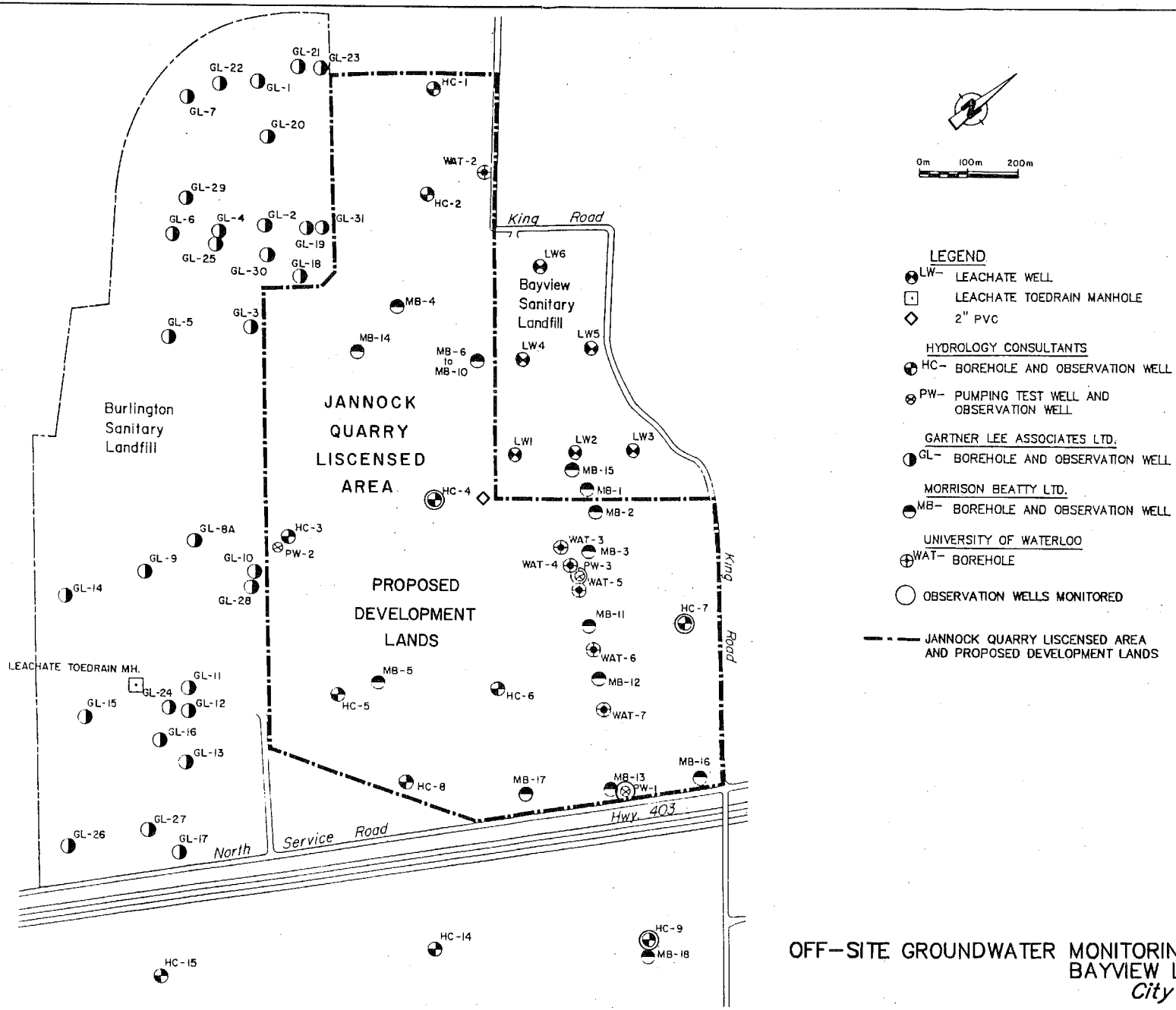


figure 2.3
OFF-SITE GROUNDWATER MONITORING LOCATIONS
BAYVIEW LANDFILL SITE
City of Burlington

CRA

1354 (49) FEB. 15/95(W) REV.0

000565

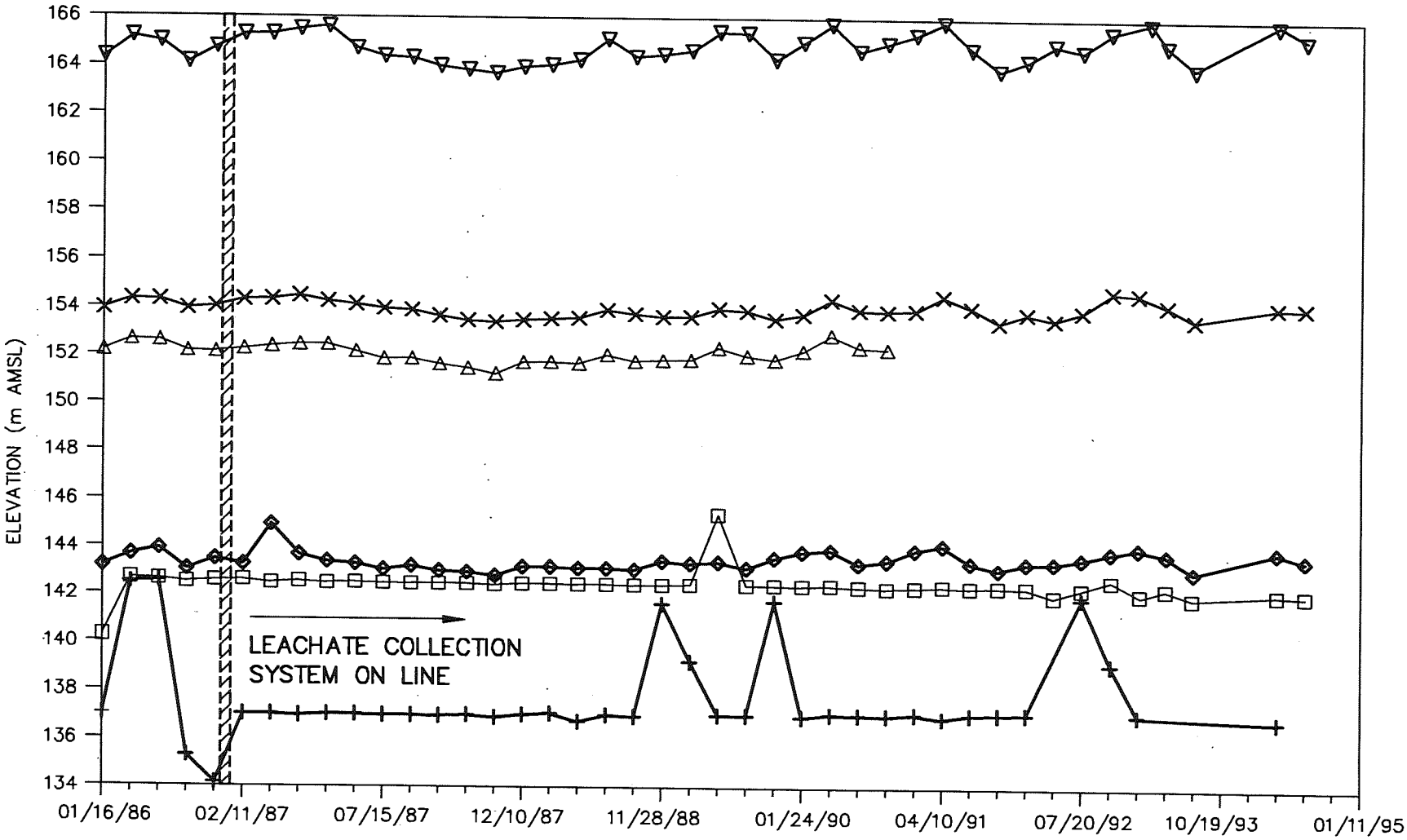


figure 3.1

LEACHATE ELEVATIONS
BAYVIEW LANDFILLSITE
City of Burlington

CRA

1354 (49) FEB 22/95(W) REV.0 (G-20)

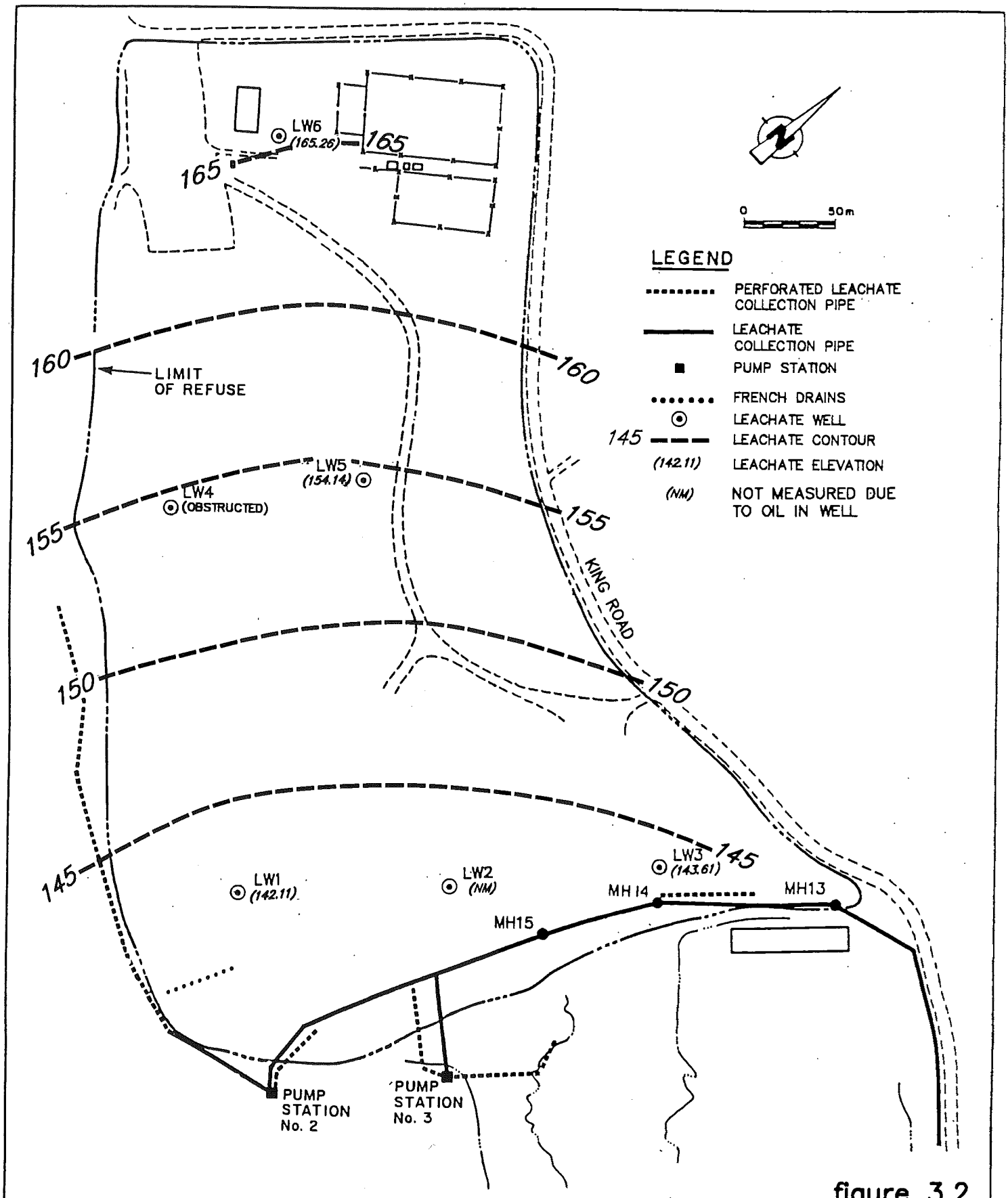


figure 3.2

JULY 1994
LEACHATE LEVELS
BAYVIEW LANDFILL SITE
City of Burlington

CRA

1354 (49) FEB. 15/95(W) REV.0

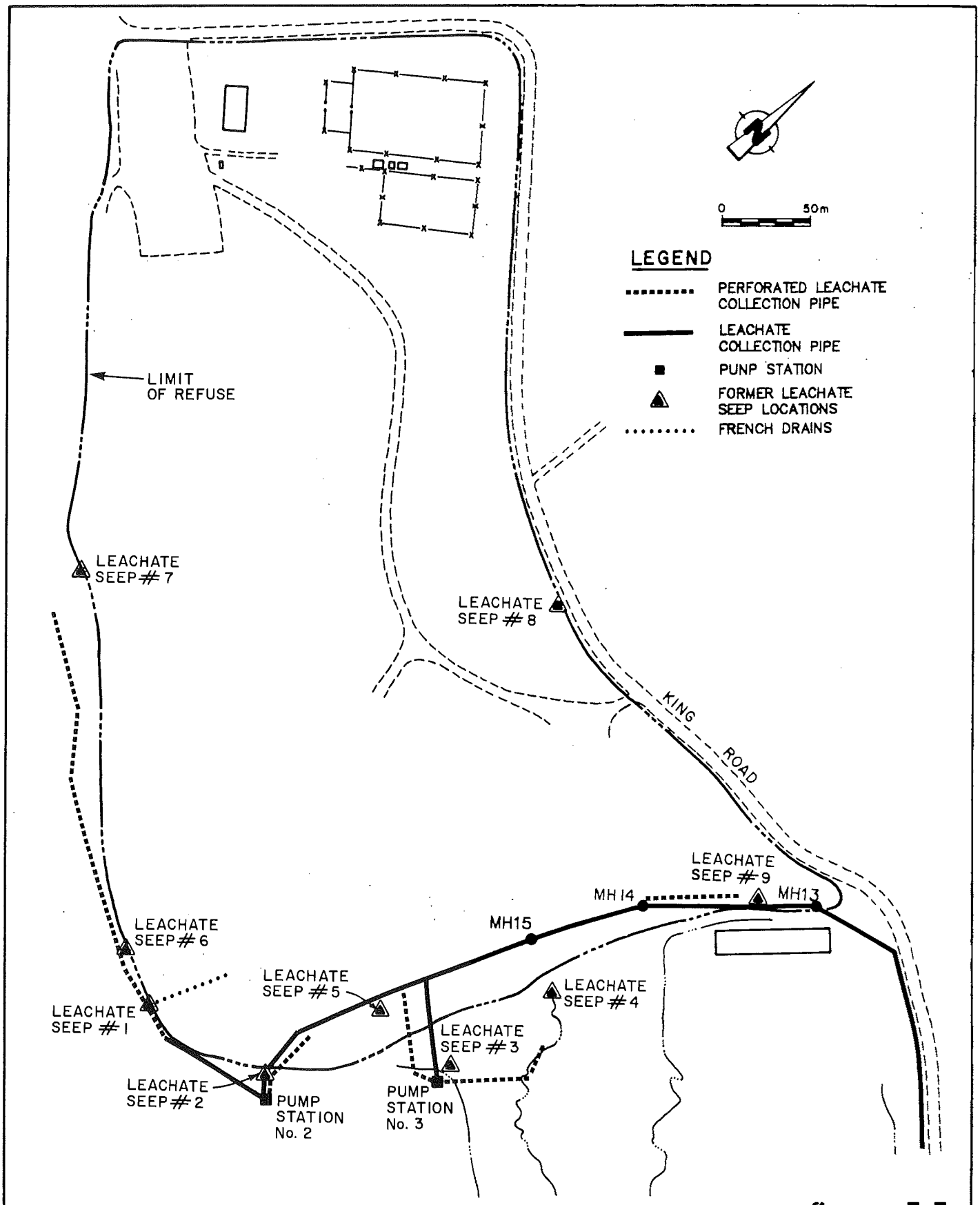


figure 3.3

LEACHATE SEEP INSPECTION LOCATIONS
BAYVIEW LANDFILL SITE
City of Burlington

CRA

1354 (49) FEB. 15/95(W) REV.0

TABLE 2.1

HAMILTON REGION PRECIPITATION DATA FOR 1994
1994 MONITORING PROGRAM
BAYVIEW PARK LANDFILL SITE

Month	*Total 1994 Precipitation (1) (mm)*	*Annual Average Precipitation (2) (mm)*
January	83.8	61.3
February	45.7	53.5
March	57.7	73.7
April	102.2	74.3
May	108.6	70.7
June	67.8	78.4
July	98.0	81.0
August	67.6	84.7
September	36.1	83.5
October	28.0	66.3
November	91.3	80.2
December	65.4	82.8
Total	852.2	890.4

Notes:

(1) Precipitation data from the Hamilton Airport as measured by the Hamilton Weather Office.

(2) Based on a 50-year average (1940-1990).

TABLE 3.1

LEACHATE ELEVATIONS
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Date (mm/dd/yy)	*LW1-86 (m AMSL)*	*LW2-86 (m AMSL)*	*LW3-86 (m AMSL)*	*LW4-86 (m AMSL)*	*LW5-86 (m AMSL)*	*LW6-86 (m AMSL)*
Ground Elevation	150.90	151.44	152.44	161.96	161.17	168.45
TOC Elevation	*151.64	*152.02	*153.22	162.73	162.04	169.21
January 16, 1986	140.26	137.01	143.20	152.19	153.93	164.35
March 26, 1986	142.68	142.50	143.67	152.64	154.33	165.18
May 28, 1986	142.64	142.54	143.92	152.60	154.31	164.98
August 14, 1986	142.51	135.29	143.06	152.17	153.95	164.13
November 3, 1986	142.59	134.14	143.50	152.15	154.04	164.74
February 11, 1987	142.61	137.02	143.27	152.25	154.32	165.28
November 19, 1987	142.50	137.01	144.95	152.38	154.34	165.29
April 6, 1987	142.56	136.97	143.70	152.45	154.49	165.50
May 4, 1987	142.50	137.02	143.40	152.45	154.27	165.61
June 26, 1987	142.52	137.01	143.31	152.17	154.14	164.72
July 15, 1987	142.49	136.98	143.08	151.85	153.98	164.40
August 17, 1987	142.47	136.98	143.21	151.88	153.90	164.35
September 24, 1987	142.47	136.96	143.01	151.63	153.68	164.02
October 21, 1987	142.48	137.00	142.97	151.47	153.49	163.87
November 10, 1987	142.44	136.91	142.82	151.24	153.41	163.72
December 10, 1987	142.48	137.02	143.20	151.72	153.51	163.98
January 22, 1988	142.48	137.08	143.20	151.75	153.57	164.07
February 11, 1988	142.46	136.74	143.14	151.70	153.60	164.28
March 12, 1988	142.46	137.01	143.15	152.06	153.94	165.15
August 15, 1988	142.43	136.97	143.10	151.79	153.79	164.42
November 28, 1988	142.43	141.64	143.45	151.83	153.68	164.51

Notes:

(1) * Indicates that Well Casing is slipping
(2) m AMSL - metres above mean sea level
(3) TOC - Top of casing
(4) NM - Not measured due to condensation in the well.
(5) NM - Not Measured, due to presence of "oil" like product.

TABLE 3.1

LEACHATE ELEVATIONS
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Date (mm/dd/yy)	*LW1-86 (m AMSL)*	*LW2-86 (m AMSL)*	*LW3-86 (m AMSL)*	*LW4-86 (m AMSL)*	*LW5-86 (m AMSL)*	*LW6-86 (m AMSL)*
Ground Elevation	150.90	151.44	152.44	161.96	161.17	168.45
TOC Elevation	*151.64	*152.02	*153.22	162.73	162.04	169.21
January 18, 1989	142.46	139.24	143.37	151.85	153.67	164.68
May 24, 1989	142.42	137.02	143.43	152.39	154.02	165.46
July 25, 1989	142.43	137.01	143.18	152.04	153.93	165.42
November 16, 1989	142.43	141.77	143.62	151.88	153.59	164.32
January 24, 1990	142.42	136.97	143.87	152.25	153.79	165.03
April 10, 1990	142.44	137.08	143.94	152.92	154.40	165.79
August 1, 1990	142.39	137.05	143.36	152.41	153.98	164.69
September 27, 1990	142.33	137.03	143.51	152.34	153.93	165.01
January 8, 1991	142.36	137.10	143.96	obstructed	153.98	165.36
April 10, 11, 1991	142.41	136.92	144.17	obstructed	154.56	165.86
July 9, 1991	142.37	137.07	143.44	obstructed	154.10	164.79
October 30, 1991	142.38	137.10	143.15	obstructed	153.47	163.92
January 17, 1992	142.36	137.11	143.41	obstructed	153.85	164.33
April 24, 1992	142.00	NM (4)	143.44	obstructed	153.60	164.98
July 20, 1992	142.33	141.92	143.62	obstructed	153.94	164.73
January 20, 1993	142.66	138.59	143.91	obstructed	154.36	165.64
April 6, 1993	142.17	137.02	144.05	obstructed	154.62	165.95
July 1, 1993	142.32	NM (4)	143.64	obstructed	154.29	165.15
October 19, 1993	142.17	NM (4)	143.24	obstructed	153.60	164.11
April 20, 1994	142.12	137.14	143.95	obstructed	154.17	165.87
July 7, 1994	142.11	NM (5)	143.61	obstructed	154.14	165.26

Notes:

(1) * Indicates that Well Casing is slipping
(2) m AMSL - metres above mean sea level
(3) TOC - Top of casing
(4) NM - Not measured due to condensation in the well.
(5) NM - Not Measured, due to presence of "oil" like product.

TABLE 3.2

SUMMARY OF LEACHATE DISCHARGE FLOW TO THE REGIONAL SANITARY SEWER
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Recording Period		*Station No. 2*		*Station No. 3*		*Manhole 14*	
From	*To*	*Total Pump Hours*	*Total Flow (1) (cubic metres)*	*Total Pump Hours*	*Total Flow (2) (cubic metres)*	*Estimated Flow Rate (cubic metres/day)*	*Total Flow Estimate (cubic metres)*
January 22, 1994	March 3, 1994	178.3	2,239.45	645.8	5,182.55	0.43	17.63
March 4, 1994	April 1, 1994	218.8	2,748.13	778.8	6,249.87	0.43	12.41
April 2, 1994	April 29, 1994	250.5	3,146.28	553.9	4,445.05	0.43	12.04
April 30, 1994	June 8, 1994	363.8	4,569.33	494.3	3,966.76	0.43	17.63
June 9, 1994	August 2, 1994	370.7	4,655.99	503.3	4,038.98	0.43	23.65
August 3, 1994	September 1, 1994	181.1	2,274.62	216.8	1,739.82	0.43	12.90
September 2, 1994	September 30, 1994	330.7	4,153.59	184.9	1,483.82	0.43	12.47
October 1, 1994	November 25, 1994	36.6	459.70	89.8	720.65	0.43	24.08
November 26, 1994	December 27, 1994	84.4	1,060.06	95.1	763.18	0.43	14.19
	Sub-Totals		25,307.15		28,590.68		147.00
	Total	54,044.83	cubic metres/ monitoring year				

Notes:

(1) Flow rate - 12.560 cu. m/hr.
(2) Flow rate - 8.025 cu. m/hr.
Information from letters from E. Verticchio, City of Burlington to Michael Skora, Region of Halton. (Appendix E).

TABLE 3.3

HISTORICAL TOTAL LEACHATE DISCHARGE FLOW TO THE REGIONAL SANITARY SEWER 1994 MONITORING PROGRAM BAYVIEW LANDFILL SITE

Year	*Total Leachate Discharge (m^3)*
1987	63,217.1
1988	56,369.5
1989	73,902.6
1990	93,413.33
1991	79,902.22
1992	41,422.58
1993	100,198.63
1994	54,044.83
Average	70,308.85

TABLE 4.2

SURFACE WATER QUALITY AT HISTORICAL LEACHATE SEEP LOCATIONS
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (3)*	*Water Quality - SW2 (3)* 1986	*Water Quality - SW3 (5)* 1986	*Water Quality - SW4 (8)* 1986
Conductivity (µmhos/cm) (1)		2,340 - 4,800	2,100 - 6,000	2,100 - 5,150
Alkalinity	no decrease >25%	1,560 - 2,080	866 - 1,770	1,580 - 1,890
Hardness		890 - 1,320	989 - 1,220	1,140 - 1,540
pH (1) (std. units)	6.5 - 8.5	6.77 - 6.94	7.44 - 7.58	7.11 - 7.50
Temperature (°C)		NA	NA	NA
Phenols (ug/L)	1	<2.0 - 24.3	<2.0 - 21.1	<2.0 - 35.2
Chloride		660 - 849	471 - 841	485 - 834
Sulphate		<5.0	95 - 135	<5.0 - 65
Iron	0.3	6.60 - 53.00	0.15 - 3.10	0.14 - 2.10
DOC		68.0 - 110.0	27.0 - 90.0	40.0 - 75.0
TKN		137.00 - 183.00	51.00 - 174.00	101.00 - 179.00
Ammonia-N		81.00 - 221.00	50.00 - 170.00	83.00 - 174.00
Un-ionized Ammonia (µg/L) (9)	20	NA	NA	NA
Nitrite-N		<0.002	<0.002 - 0.014	<0.002 - 0.004
Nitrate-N		<0.01 - 0.88	<0.01 - 1.60	<0.01 - 1.66
Fecal Coliform (per 100 mL)	100 (7)	<1 - 4	<1 - 50	<1 - 90
Total Coliform (per 100 mL)	1000 (7)	20 - 29,000	3,600 - 600,000	2,100 - 180,000
Fecal Streptococci (per 100 mL)		<1 - 60	2 - 610	2 - 1,200
Escherichia Coli (per 100 mL)	100	NA	NA	NA
Number of Samples Taken				

Notes:

All results are in mg/L unless specified otherwise.
(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986
(2) Samples collected in March and May 1987
(3) Surface water sampling location SW2 does not exist after 1987 as a result of installation of the Collection System
(4) Surface water location SW1 was dry in July 1989, August 1990, July 1991, July 1993 and October 1993.
(5) Surface water location SW3 was dry throughout 1987-1994 sampling periods
(6) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(7) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(8) Surface water location SW4 was dry throughout 1987-1994 sampling periods.
(9) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994)
J - The associated numerical value is an estimated quantity
NA - Not analyzed
< - Less than Method Detection Limit
[ ] - Concentration exceeds associated objective

TABLE 4.3

SURFACE WATER QUALITY, EAST OF KING ROAD
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (4)*	*Water Quality - SW5 (2)*										
		1986	*March 1987*	*1988 (3)*	*November 1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*April 1994*	*July 1994*
Conductivity (uhmos/cm) (1)		668 - 1,880	1,585	1,245 - 2,050	495	1,378	716	593	3300	865	1500	1500
Alkalinity	no decrease >25%	397 - 677	566	448 - 637	135	371	223	204	568	340	439	300
Hardness		550 - 840	664	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std. units)	6.5 - 8.5	7.11 - 7.63	6.38	7.30 - 7.35	7.53	7.52	7.5	7.52	7.66	8.05	7.6	7.9
Temperature (°C)		NA	NA	NA	NA	NA	NA	13.5	21	8	5	21
Phenols (ug/L)	1.0	<2.0 - 17.9	24.6	<1.0 - 7.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1
Chloride		90 - 242	157	130 - 560	32J	249	120	84.3	301	168	178	313
Sulphate		80 - 125	110	87.8 - 93.8	103J	134	451	106	108	90.3	114	72.4
Iron	0.3	0.03 - 1.35	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOC		5.0 - 14.0	8.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
TKN		0.97 - 1.64	1.69	0.40 - 0.70	0.37J	0.65	<0.06	<0.06	0.95	0.17	<0.10	1.64
Ammonia-N		0.63 - 1.81	0.99	<0.02	<0.02	0.52	<0.03	<0.03	0.03	0.14	<0.01	0.03
Un-ionized Ammonia (µg/L) (6)	20	NA	NA	NA	NA	NA	NA	<0.8	1.1	0.3	<0.04	1.2
Nitrite-N		0.012 - 0.130	0.030	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		<0.01 - 0.76	0.43	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (5)	14 - 98	<1	60 - 1,300	512	4	400	NA	10	<2	2	>1600
Total Coliform (per 100 mL)	1000 (5)	500 - 83,000	830	440 - 3,900	980	20	580	NA	10	<2	11	>1600
Fecal Streptococci (per 100 mL)		8 - 340	10	<1.0 - 370	1440	128	102	NA	240	<2	22	>1600
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	540
Number of Samples Taken		4	1	2	1	1	1	1	1	1	1	1

Notes:

All results are mg/L unless specified otherwise
(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986
(2) Surface water location SW5 was dry in July 1989, August 1990, July 1991, July 1993 and October 1994.
(3) Samples collected in May and August 1988
(4) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(5) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(6) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994)
J - The associated numerical value is an estimated quantity
< - Less than Method Detection Limit
[ ] - Concentration exceeds associated objective

TABLE 4.4

SURFACE WATER QUALITY, KING ROAD AND NORTH SERVICE ROAD
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (3)*	*Water Quality - SW10 (2)*												
		1986	*1987*	*1988*	*1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*July 1993*	*April 1994*	*July 1994*
Conductivity (µmhos/cm) (1)		495 - 971	700 - 1,400	780 - 1,110	521	684	544	475	1680	425	840 / 840	700	600
Alkalinity	no decrease >25%	245 - 331	317 - 350	263 - 322	154	277	226	210	294	245	282 / 282	279	157
Hardness		262 - 500	399 - 732	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std. units)	6.5 - 8.5	7.89 - 8.39	6.9 - 7.96	7.68 - 7.99	7.70	8.06	7.5	8.04	7.95	8.24	8.3 / 8.3	8.3	8.1
Temperature (°C)		NA	NA	NA	NA	NA	NA	14	20	8	18	7.4	21.5
Phenols (ug/L)	1.0	<2.0 - 190.0	<2.0 - 5.04	<1 - 37	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 / <1.0	<1	<1
Chloride		42 - 107	30 - 47.7	50 - 131	30.0J	31.5	43.6	29.3	51.6	19.1	62.5 / 63.0	27.8	41.0
Sulphate		58 - 195	93 - 250	130 - 202	107J	149	68.0	102	160	67.2	108 / 108	82.1	126
Iron	0.3	<0.02 - 1.36	<0.02 - 0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOC		3.5 - 6.5	2.5 - 6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TKN		0.25 - 0.49	0.12 - 0.27	<0.02	0.50J	<0.06	0.09	0.24	0.26	0.49	0.52 / 0.48	0.35	1.34
Ammonia-N		0.03 - 1.20	<0.01 - 0.15	<0.02 - 1.26	<0.02	<0.03	<0.03	<0.03	0.03	<0.03	<0.03 / <0.03	0.14	0.01
Un-ionized Ammonia (µg/L) (5)	20	NA	NA	NA	NA	NA	NA	<0.8	1.1	<0.5	<1.1 / <1.1	6.7	0.4
Nitrite-N		<0.002 - 0.004	<0.001 - 0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		<0.01 - 0.16	0.02 - <1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (4)	16 - 2,500	<1 - 3,100	160 - 1,700	840	146	100	24	<1	<2	5 / <2	11	>1600
Total Coliform (per 100 mL)	1000(4)	430 - 600,000	<1 - 18,000	20 - 8,300	900	264	210	30	240	40	350 / 640	350	>1600
Fecal Streptococci (per 100 mL)		2 - 1,300	40 - 2,300	58 - 440	1,140	70	136	18	200	<2	240 / 290	9.2	>1600
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	>1600
Number of Samples Taken		4	6	3	1	1	1	1	1	1	2	1	1

Notes:

All results are mg/L unless specified otherwise.

(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986.
(2) Sample location SW10 was dry in July 1989, August 1990, July 1991.
(3) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(4) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(5) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994).

NA - Not analyzed
< - Less than Method Detection Limit
[ ] - Concentration exceeds associated objective

TABLE 4.5

SURFACE WATER QUALITY, NORTH SERVICE ROAD
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (5)*	*WATER QUALITY - SW6 (4)* 1986	1987 (2)	1988	November 1989	April 1990	April 1991	April 1992	July 1992	April 1993	July 1993	April 1994
Conductivity (µmhos/cm) (1)		510 - 933	800 - 870	680 - 840	470	637	475	418	1,730 / 1,730	460	610	700
Alkalinity	no decrease >25%	255 - 358	318 - 367	230 - 364	156	273	218	210	334 / 334	259	304	292/288
Hardness		425 - 540	412 - 461	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std. units)	6.5 - 8.5	8.15 - 8.17	6.41 - 6.42	7.04 - 7.05	7.55	7.95	7.5	7.94	8.06 / 8.06	8.06	8.4	8.2
Température (°C)		NA	NA	NA	NA	NA	NA	14	25	13	19	6.8
Phenols (µg/L)	1.0	<2.0 - 79.3	<2.0 - 4.24	0.014 - 1.00	<1.0	<1.0	<1.0	<1.0	<1.0 / <1.0	<1.0	<1.0	<1/<1
Chloride		46 - 73	28 - 32.8	22.7 - 34.0	15.0J	17.0	12.4	12.7	30.3 / 34.7	16.2	18.6	20.6/23.3
Sulphate		105 - 150	134 - 145	67.1 - 163	89.4J	142	82.2	79.7	122 / 122	62.6	102	87.1/95.1
Iron	0.3	<0.02 - 0.30	<0.02 - 0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOC		5.0 - 11.0	3.0 - 6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
TKN		0.55 - 0.79	0.45 - 0.53	<0.02 - 0.48	0.42J	<0.06	<0.06	0.14	0.23 / 0.19	0.42	0.52	0.35J/<0.10UJ
Ammonia-N		0.10 - 1.40	0.02 - 0.04	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03 / <0.03	<0.03	<0.03	0.14J/<0.01UJ
Un-ionized Ammonia (µg/L) (9)	20	NA	NA	NA	NA	NA	NA	<0.8	<1.1 / <1.1	<0.5	<1.1	2J/<0.1UJ
Nitrite-N		0.003 - 0.016	0.001 - 0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		<0.01 - 1.10	<0.01 - 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (6)	18 - 1,700	<1.0	290 - 2,000	940	140	110	NA	<1 / <1	<2	290	17/33
Total Coliform (per 100 mL)	1000 (6)	940 - 33,000	1,400 - 1,600	5,700 - 18,000	1,260	336	180	NA	2 / <1	16	1,000	280/920
Fecal Streptococci (per 100 mL)		12 - 1,600	10 - 270	400 - 590	720	91	184	NA	250 / 200	<2	250	13/17
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Number of Samples Taken		3	2	2	1	1	1	1	1 / 1	1	1	2

Notes:

All results are mg/L unless specified otherwise

(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986.
(2) Samples collected in March and May 1987.
(3) Samples collected in March, May and November 1987.
(4) Surface water location SW6 was dry in July 1989, August 1990, July 1991, July 1994, and October 1994.
(5) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(6) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(7) Surface water location SW7 was dry in July 1989, August 1990, July 1991 and October 1994.
(8) Surface water location SW8 was dry in July 1989, August 1990, July 1991 and October 1994.
(9) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994).

J - The associated value is an estimated quantity
< - Less than Method Detection Limit
NA - Not analyzed
1,730/1,730 duplicate analysis performed
[ ] - Concentration exceeds associated objective
UJ - The analyte was not detected above the reported quantitation limit, however, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 4.5

SURFACE WATER QUALITY, NORTH SERVICE ROAD
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

		WATER QUALITY - SW7 (7)												
Parameter (mg/L)	*Objective (5)*	*1986*	*1987 (3)*	*1988*	*November 1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*July 1993*	*April 1994*	*July 1994*
Conductivity (µmhos/cm) (1)		1,150 - 3,060	1,525 - 2,120	1,400 - 20,100	1,573	1,060	725	710	2800	670	1,000	800	800
Alkalinity	no decrease >25%	573 - 637	410 - 447	380 - 412	281	348	282	324	414	341	412	324	294/272
Hardness		703 - 851	540 - 788	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std. units)	6.5 - 8.5	7.97 - 8.28	6.89 - 7.67	6.80 - 7.45	7.69	7.95	7.5	7.98	7.92	8.35	8.2	8.5	7.5
Temperature (°C)		NA	NA	NA	NA	NA	NA	13.5	23	9	20	6.4	19.7
Phenols (µg/L)	1.0	<2.0 - 10.4	<2.0 - 15.1	<1.0 - 4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1/<1
Chloride		475 - 646	183 - 1192	200 - 293	266J	117	83.7	118	166	296	93.2	72.2	78.9/72.6
Sulphate		10 - 120	120 - 300	202 - 367	400J	176	86.2	115	161	307	80.9	84.9	62.4/59.4
Iron	0.3	0.03 - 0.75	<0.02 - 0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOC		12.0 - 32.0	7.5 - 13.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TKN		0.19 - 192.00	0.19 - 0.83	0.18 - 0.77	0.62J	<0.06	<0.06	0.20	0.32	1.06	0.90	0.38	1.58/1.04
Ammonia-N		0.05 - 20.00	0.02 - 0.11	<0.02	<0.02	<0.03	<0.03	<0.03	0.03	0.90	<0.03	0.10	0.01/0.01
Un-ionized Ammonia (µg/L) (9)	20	NA	NA	NA	NA	NA	NA	<0.8	1.1	16.20	<1.1	4.1	0.1/0.1
Nitrite-N		0.020 - 0.200	<0.001 - 0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		<0.01 - 77.00	<1.0 - 1.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (6)	60 - 380	<1.0 - 10	12 - 1,600	246	8	104	28	<1	<2	2,800	<1.8	>1600/>1600
Total Coliform (per 100 mL)	1000 (6)	1,000 - 520,000	480 - 900	900 - 6,800	820	100	150	32	<1	96	13,000	33	>1600/>1600
Fecal Streptococci (per 100 mL)		2 - 4,600	58 - 140	120 - 400	330	11	292	68	500	<2	290	4	>1600/>1600
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	>1600/>1600
Number of Samples Taken		4	3	2	1	1	1	1	1	1	1	1	2

Notes:

All results are mg/L unless specified otherwise

(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986.
(2) Samples collected in March and May 1987.
(3) Samples collected in March, May and November 1987.
(4) Surface water location SW6 was dry in July 1989, August 1990, July 1991, July 1994, and October 1994.
(5) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(6) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(7) Surface water location SW7 was dry in July 1989, August 1990, July 1991 and October 1994.
(8) Surface water location SW8 was dry in July 1989, August 1990, July 1991 and October 1994.
(9) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994).

J - The associated value is an estimated quantity
< - Less than Method Detection Limit
NA - Not analyzed
1,730/1,730 duplicate analysis performed
[ ] - Concentration exceeds associated objective
UJ - The analyte was not detected above the reported quantitation limit, however, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 4.5

SURFACE WATER QUALITY, NORTH SERVICE ROAD
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

		WATER QUALITY - SW8 (8)											
Parameter (mg/L)	*Objective (5)*	*1986*	*1987 (3)*	*1988*	*November 1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*July 1993*	*April 1994*	*July 1994*
Conductivity (µmhos/cm) (1)		374 - 1,590	815 - 1,040	730 - 1,094	485	566	443	438	1800	420	800	600	800
Alkalinity	no decrease >25%	225 - 488	283 - 350	336 - 382	154	253	190	201	400	233	331	269	342
Hardness		343 - 1,030	358 - 538	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std. units)	6.5 - 8.5	7.10 - 8.16	6.26 - 7.31	7.34 - 7.52	7.30	7.75	7.5	7.80	7.52	7.92	8.4	8.4	7.5
Temperature (°C)		NA	NA	NA	NA	NA	NA	14.5	21	9	19	7.3	22.2
Phenols (µg/L)	1.0	<2.0 - 106.0	<2.0 - 16.5	<1.0 - 7.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1
Chloride		39 - 171	30 - 31.8	37.8 - 40.0	41.0J	28.5	30.3	43.3	41.4	31.8	24.4	38.4	49.5
Sulphate		54 - 137	85 - 170	62.7 - 226	57.2J	48	29.9	50.3	66.4	51.9	58.0	54.6	44.2
Iron	0.3	<0.02 - 0.75	0.02 - 0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOC		5.0 - 9.5	3.0 - 5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TKN		0.40 - 1.04	0.15 - 0.61	<0.02 - 6.29	0.44J	<0.06	<0.06	0.14	0.10	0.58	1.20	0.24	1.42
Ammonia-N		0.04 - 0.32	0.01 - 0.09	<0.02	<0.02	<0.03	<0.03	<0.03	0.03	0.08	<0.03	0.15	0.01
Un-ionized Ammonia (µg/L) (9)	20	NA	NA	NA	NA	NA	NA	<0.8	1.1	1.40	<1.1	6.7	0.1
Nitrite-N		0.004 - 0.020	<0.001 - 0.053	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		<0.01 - 0.29	0.01 - <1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (6)	12 - 3,500	<1.0	34 - 5,000	680	124	56	4	<1	<2	1,500	540	>1600
Total Coliform (per 100 mL)	1000 (6)	2,100 - 400,000	110 - 1,300	370 - 120,000	740	152	144	4	<1	16	4,500	920	>1600
Fecal Streptococci (per 100 mL)		2 - 3,600	10 - 60	220 - 1,400	1,080	15	152	20	320	<2	1,300	1.8	>1600
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	>1600
Number of Samples Taken		4	3	2	1	1	1	1	1	1	1	1	1

Notes:

All results are mg/L unless specified otherwise

(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986.
(2) Samples collected in March and May 1987.
(3) Samples collected in March, May and November 1987.
(4) Surface water location SW6 was dry in July 1989, August 1990, July 1991, July 1994, and October 1994.
(5) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(6) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(7) Surface water location SW7 was dry in July 1989, August 1990, July 1991 and October 1994.
(8) Surface water location SW8 was dry in July 1989, August 1990, July 1991 and October 1994.
(9) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994).

J - The associated value is an estimated quantity
< - Less than Method Detection Limit
NA - Not analyzed
1,730/1,730 duplicate analysis performed
[ ] - Concentration exceeds associated objective
UJ - The analyte was not detected above the reported quantitation limit, however, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 4.6

SURFACE WATER QUALITY, ALDERSHOT
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (2)*	*WATER QUALITY - SW13 (1)*								
		1988	*November 1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*July 1993*	*April 1994*
Conductivity (µmhos/cm) (1)		1,080 - 1,723	646	870	596	538	3,050	560	920	1000
Alkalinity	no decrease >25%	254 - 332	175	287	227	220	334	265	297	290
pH (Std. units)	6.5 - 8.5	7.39 - 8.10	7.57	8.11	7.5	7.92	8.26	8.40	8.4	8.4
Temperature (°C)		NA	NA	NA	NA	14	23	7	19	6.7
Phenols (µg/L)	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1
Chloride		130 - 353	64.0J	82.0	75.2	61.4	170	56.5	176	91.3
Sulphate		164 - 202	105J	172	67.7	85.8	151	86.2	144	99.4
TKN		0.19 - 0.87	0.55J	<0.06	<0.06	0.24	0.25	0.32	1.31	0.32
Ammonia-N		<0.02 - 0.26	<0.02	<0.03	<0.03	<0.03	<0.03	0.18	<0.03	0.12
Un-ionized Ammonia (µg/L) (4)	20	NA	NA	NA	NA	<0.8	<1.1	3.24	<1.1	5.3
Fecal Coliforms (per 100 mL)	100 (3)	142 - 2,100	520	168	80	4	<1	<2	520	13
Total Coliforms (per 100 mL)	1000 (3)	900- 24,000	960	260	170	14	2	24	11,000	920
Fecal Streptococci (per 100 mL)		120 - 3,400	960	62	224	50	400	4	360	17
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Number of Samples Taken		2	1	1	1	1	1	1	1	1

Notes:

All results are mg/L unless specified otherwise

(1) Surface water location SW13 was dry in July 1989, August 1990, July 1991 and July 1994

(2) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).

(3) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).

(4) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994).

J - The associated value is an estimated quantity

< - Less than Method Detection Limit

☐ - Concentration exceeds associated objective

TABLE 4.7

SURFACE WATER QUALITY COMPARISON (APRIL 1994)
UPSTREAM AND DOWNSTREAM LOCATIONS
1994 MONITORING PROGRAM
BAYVIEW PARK LANDFILL SITE

Parameter (mg/L)(1)	*Background SW9-87*	*Landfill Vicinity SW1-87*	*Downstream SW6-87*
pH	7.7	8.3	8.2
Temperature (°C)	6.7	5.4	6.8
Conductivity (umhos/cm)	700	600	700
Alkalinity	310	275	292/288
Phenols (µg/L)	<1	<1	<1/<1
Chloride	8.40	7.10	20.6/23.3
Sulphates	123	70.7	87.1/95.1
TKN	0.32	0.47	0.35J/<0.10UJ
Ammonia	0.16	0.19	0.14J/<0.01UJ
Unionized Ammonia (µg/L)	0.7	7.2	2J/<0.2UJ
Fecal Coliform (per 100 mL)	<1.8	31	17/33
Total Coliform (per 100 mL)	21	140	280/920
Fecal Streptococci (per 100 mL)	7.8	22	13/17
Escherichia Coli (per 100 mL)	NA	NA	NA

Parameter (mg/L)(1)	*Background SW11-87*	*Landfill Vicinity SW5-87*	*Downstream SW10-87*
pH	Dry	7.6	8.3
Temperature (°C)		5	7.4
Conductivity (umhos/cm)		1500	700
Alkalinity		439	279
Phenols (µg/L)		<1	<1
Chloride		178	27.8
Sulphates		114	82.1
TKN		<0.10	0.35
Ammonia		<0.01	0.14
Unionized Ammonia (µg/L)		<0.04	6.7
Fecal Coliform (per 100 mL)		2	11
Total Coliform (per 100 mL)		11	350
Fecal Streptococci (per 100 mL)		22	9.2
Escherichia Coli (per 100 mL)		NA	NA

Note:

(1) Concentrations are expressed in mg/L unless noted otherwise.

TABLE 4.8

SURFACE WATER QUALITY COMPARISON (JULY 1994)
UPSTREAM AND DOWNSTREAM LOCATIONS
1994 MONITORING PROGRAM
BAYVIEW PARK LANDFILL SITE

Parameter (mg/L) (1)	*Background SW9-87*	*Landfill Vicinity SW1-87*	*Downstream SW6-87*
pH	7.5	7.9	Dry
Temperature (°C)	17.7	21.9	
Conductivity (umhos/cm)	600	400	
Alkalinity	384	137	
Phenols (µg/L)	<1	<1	
Chloride	8.10	7.27	
Sulphates	130	76.3	
TKN	0.62	1.21	
Ammonia	0.08	0.01	
Unionized Ammonia (µg/L)	0.9	0.4	
Fecal Coliform (per 100 mL)	920	>1600	
Total Coliform (per 100 mL)	>1600	>1600	
Fecal Streptococci (per 100 mL)	>1600	>1600	
Escherichia Coli (per 100 mL)	540	>1600	

Parameter (mg/L) (1)	*Background SW11-87*	*Landfill Vicinity SW5-87*	*Downstream SW10-87*
pH	Dry	7.9	8.1
Temperature (°C)		21	21.5
Conductivity (umhos/cm)		1500	600
Alkalinity		300	157
Phenols (µg/L)		<1	<1
Chloride		313	41.0
Sulphates		72.4	126
TKN		1.64	1.34
Ammonia		0.03	0.01
Unionized Ammonia (µg/L)		1.2	0.4
Fecal Coliform (per 100 mL)		>1600	>1600
Total Coliform (per 100 mL)		>1600	>1600
Fecal Streptococci (per 100 mL)		>1600	>1600
Escherichia Coli (per 100 mL)		540	>1600

Note:

(1) Concentration expressed in mg/L unless otherwise noted.

TABLE 4.9

SUMMARY OF DETECTED METALS
LEACHATE COLLECTION SYSTEM
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*April 19, 1994*		*October 13, 1994*	
	(MH15)	*Field Blank*	*(MH15)*	*Objective (1)*
Copper	1.52	0.020 U	Dry	3
Manganese	0.521	<0.001		5
Nickel	0.042 U	0.065		3
Lead	0.022 U	0.009		3
Vanadium	0.009	<0.003		5
Zinc	0.111 U	0.024 U		3
Barium	0.337	<0.003		--
Iron	17.6	0.032 U		--
Aluminum	0.180 U	0.058		50
Chromium	0.006	<0.005		
Selenium	0.004	<0.002		
Tin	<0.018	0.052 U		

Notes:

all units in mg/L = ppm unless otherwise stated
(1) Halton Regional By-Law Parameters, By-Law 192-89 Limits (Section 2)
MH15 - Manhole location
NA - Not analyzed
< - Less than method detection limit
-- - No Halton Regional By-Law limit specified
U - The material was analyzed for but not detected above the sample quantitation limit
Qualification due to lab and/or field blank contamination.

TABLE 4.10

SUMMARY OF DETECTED GENERAL CHEMISTRY PARAMETERS
LEACHATE COLLECTION SYSTEM
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*April 19, 1994*		*October 13, 1994*	
	(MH15)	*Field Blank*	*(MH15)*	*Objective (1)*
pH (std. units)	7.7	8.5	Dry	6.0 - 10.0
Conductivity (µmhos/cm)	2800	NA		–
Temperature °C	9.7	9.1		–
Alkalinity	1061	<1.0		–
BOD	34	<2		300
Chloride	346	<0.10		1500
COD	125	<5		–
Hardness	1040	<1.0		–
Ammonia	29.2	<0.01		–
Unionized Ammonia	0.17	<0.0005		–
TKN	36.3	<0.10		100
Phenols	<0.001	<0.001		1.0
Total Phosphorus	0.14	<0.10		10
TSS	352	<1		350
Sulphate	153	<0.10		1500

Notes:

All units in mg/L = ppm unless otherwise stated
(1) Halton Regional By-Law Parameters, By-Law 192-89 Limits (Section 2)
MH15 - Manhole location
NA - Not analyzed
< - Less than method detection limit
– - No Halton Regional By-Law limit specified
[ ] - Exceeds applicable objective

TABLE 4.11

SUMMARY OF DETECTED PRIORITY POLLUTANTS
LEACHATE COLLECTION SYSTEM
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

		April 19, 1994		*October 13, 1994*
Volatile Organic Compounds (µg/L)	*Objective(1)*	*MH15*	*Field Blank*	*MH15*
Chlorobenzene	80	22	<0.5	Dry
1,4-Dichlorobenzene	5	3.6	<1	
Pesticides and PCBs (µg/L)				
Carbaryl	90	13	<5	
Endrin	--	0.005	<0.003	

Notes:

All units µg/L unless specified otherwise.
(1) - MOEE Drinking Water Objectives (Maximum acceptable concentration, March 1994)
MH15 - Manhole location.
MDL - Method Detection Limit.
< - Less than Method Detection Limit.
- - Not Available
U - The compound was undetected above the associated detection limit.
NA - Not Analyzed

TABLE 4.12

OFF-SITE OBSERVATION WELLS MONITORED
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Well	*Depth*	*Formation Monitored*	*Location*	*Comments*
HC4-2	17.72 m bTOC	Queenston Shale	Across gradient of landfill	Shallow System
HC4-3	11.60 m bTOC	Queenston Shale	Across gradient of landfill	Shallow System
HC4-4	6.45 m bTOC	Queenston Shale	Across gradient of landfill	Shallow System
HC6-2	22.0 m bTOC	Shale Bedrock	400 m downgradient of landfill	Destroyed
HC6-3	8.63 m bTOC	Shale Bedrock	400 m downgradient of landfill	Destroyed
HC7-1	30.5 m bTOC	Shale Bedrock	300 m downgradient of landfill	Deep System
HC7-2	18.21 m bTOC	Shale Bedrock	300 m downgradient of landfill	Shallow System
HC9-2	15.16 m bTOC	Shale Bedrock	Southeast of Hwy 403	Deep System
HC9-3	9.58 m bTOC	Till/bedrock contact	Southeast of Hwy 403	Shallow System
PW1	31.36 mbTOC	Shale Bedrock	North of North Service Rd.	Deep System
PW3	8.07 mbTOC	Shale Bedrock	160 m downgradient of landfill	Shallow System

Note:

mbTOC - metres below top of casing.
Locations HC4-3, HC6-2 and HC6-3 are no longer sampled as these wells have been destroyed.

TABLE 4.13

GENERAL CHEMISTRY OF OFF-SITE PUMPING WELLS
1994 MONTORING RESULTS
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*MDL*	*Objective (1)*	*PW1-86*		*PW3-86*		*Field Blank*	
			April 1994	*July 1994*	*April 1994*	*July 1994*	*April 1994*	*July 1994*
pH (std. units)		6.5 - 8.5	7.6	7.5	7.5	6.8	8.5	8.0
Conductivity (µmhos/cm)		-	5700	6700	2900	2200	NA	51
Alkalinity	1.0	-	110	77 / 62	556 / 558	566	<1.0	<1.0
Chloride	0.10	250	[1014]	[2604] / [2154]	[404] / [290]	[409]	<0.10	<0.10
Ammonia	0.01	-	4.27	7.05 / 6.05	1.07 / 1.08	0.89	<0.01	<0.01
TKN	0.10	-	4.36	13.7 / 13.4	1.30 / 1.32	1.19	<0.10	<0.10
Phenols	0.001	-	<0.001	<0.001 / <0.001	<0.001 / <0.001	<0.001	<0.001	<0.001

Notes:

All results are in mg/L unless specified otherwise.
(1) - MOEE Drinking Water Objectives (March 1994)
< - Less than Method Detection Limit.
MDL - Method Detection Limit.
- - Not Available.
77/62 - Duplicate samples.
NA - Not Analyzed.
[ ] - Exceeds applicable objective.

TABLE 4.14

GENERAL CHEMISTRY OF OFF-SITE OBSERVATION WELLS
1994 MONTORING RESULTS
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*MDL*	*Objectives (1)*	*HC4-2*		*HC4-3*		*HC4-4*	
			April 1994	*July 1994*	*April 1994*	*July 1994*	*April 1994*	*July 1994*
pH (std. units)		6.5 - 8.5	7.4	7.3	Destroyed	Destroyed	7.3	7.2
Conductivity (µmhos/cm)		-	4500	1200			1700	1900
Alkalinity	1	-	242	328 / 318			329	311
Phenols	0.001	-	<0.001	<0.001 / <0.001			<0.001	<0.001
Chloride	0.10	250	475	20.3 / 19.4			25.1	23.1
Nitrogen-TKN	0.10	-	3.81	1.32 / 1.61			3.30	0.66
Ammonia-Nitrogen	0.01	-	3.21	0.06 / 0.05			0.42	<0.01

Notes:

All results are in mg/L unless specified otherwise.
(1) - MOEE Drinking Water Objectives (January 1994).
< - Less than the Method Detection Limit.
MDL - Method Detection Limit.
-- - Not Available.
328/318 - Duplicate Samples.
J - The associated numerical value is an estimated quantity.
UJ - The analyte was not detected above the reported quantitation limit; however, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
[ ] Exceeds applicable objective.

TABLE 4.14

GENERAL CHEMISTRY OF OFF-SITE OBSERVATION WELLS
1994 MONTORING RESULTS
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*MDL*	*Objectives (1)*	*HC7-1*		*HC7-2*		*HC9-2*		*HC9-3*	
			April 1994	*July 1994*	*April 1994*	*July 1994*	*April 1994*	*July 1994*	*April 1994*	*July 1994*
pH (std. units)		6.5 - 8.5	7.3	7.3	7.2	7.5	7.1	7.0	7.6	7.7
Conductivity (µmhos/cm)		-	11300	8800	1000	900	>19,900	>19,000	1500	2200
Alkalinity	1	-	70.0	75.0	370 / 366	378	32.5	56.0	369	324
Phenols	0.001	-	<0.001	<0.001	<0.001 / <0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloride	0.10	250	3,483	5,426	100 / 81.3	66.1	16,878	14,092	81.9	139
Nitrogen-TKN	0.10	-	9.07	12.0	0.18J / 0.92J	0.30	21.5	21.8	0.27	1.33
Ammonia-Nitrogen	0.01	-	8.67	8.99	<0.01UJ / 0.19UJ	0.22	13.6	16.8	0.20	0.28

Notes:

All results are in mg/L unless specified otherwise.
(1) - MOEE Drinking Water Objectives (January 1994).
< - Less than the Method Detection Limit.
MDL - Method Detection Limit.
-- - Not Available.
328/318 - Duplicate Samples.
J - The associated numerical value is an estimated quantity.
UJ - The analyte was not detected above the reported quantitation limit; however, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
[ ] Exceeds applicable objective.

APPENDIX A

CERTIFICATE OF APPROVAL

NOTICE

OF THE ENVIRONMENT

JUL 17 1986

CENTRAL REGION
OAKVILLE OFFICE

TO: The Corporation of the
City of Burlington
P.O. Box 5013
426 Brant Street
Burlington, Ontario L7R 3Z6

ATTENTION: MS. HELEN MACRAE, CLERK

Take Notice that condition no. 1 of Provisional Certificate of Approval No. A 210103, dated October 11, 1973, is hereby revoked and replaced with the following conditions:

1. Prior to the excavation of any waste in connection with the construction of a leachate collection system approved under Certificate of Approval No. 3-0819-86-007, the City shall file with the Director of Central Region of the Ministry of the Environment (the Regional Director) plans and design details for the relocating and covering of the excavated waste and the recontouring of the site. No waste may be excavated or relocated without the approval of the Regional Director and except in accordance with such plans and design details.

2. All excavated waste shall be handled in accordance with the "Health and Safety Protocol" described in a letter from Greg Ferraro, P. Eng. of Conestoga-Rovers & Associates Limited, to Lyle Parsons of the Ministry dated July 14, 1986.

3. Surface improvements shall be completed in accordance with Section 8.0 of the "Detailed Design Report, Leachate Collection System and Surface Drainage Improvements" dated June 1986 and the "Contract Documents for Surface Drainage Improvements" and associated Plans 1 to 4 issued June 20, 1986.

4. The City shall carry out the monitoring and inspection program as approved by the Regional Director with such modifications as may be approved from time to time by the Regional Director. On or before March 1st of each year, the City shall file a report with the Regional Director containing an analysis and evaluation of the monitoring and inspection program for the previous year.

The reasons for the imposition of these conditions are as follows:

1. The reason for condition 1 is to ensure that the relocation of the waste is carried out in accordance with a defined protocol. Not doing so may create a nuisance and would not be in the public interest.

2. The reason for condition 2 is to protect the health and safety of persons involved in the relocation of the waste.

3. The reason for condition 3 is to reduce infiltration of surface water into the site, to eliminate exposed refuse which is creating a nuisance and to ensure proper control of the site.

4. The reason for condition 4 is to provide for the investigation of groundwater contamination in the area of the site and to ensure that the existing surface water contamination problem is abated by the installation of the leachate collection system.

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board.

This Notice should be served upon:

The Secretary
Environmental Appeal Board
1 St. Clair Avenue West
5th Floor
Toronto, Ontario M4V 1K7

AND

The Director
Section 38, E.P.A.
Ministry of the Environment
135 St. Clair Ave. W.,
Toronto, Ontario M4V 1P5

Dated at Toronto this 16th day of July, 1986.

Director,
Section 38, E.P.A.,
Ministry of the Environment

Ministry of the Environment / Ministère de l'Environnement
Ontario

Certificate of Approval (Sewage)
Certificat d'autorisation (eaux usées)

Number / *Numéro* 3-0819-86-007

Whereas / ***Attendu que***

THE CORPORATION OF THE CITY OF BURLINGTON

of / d'

has applied in accordance with Section 24 of the Ontario Water Resources Act for approval of:
a fait, conformément à l'article 24 de la loi sur les ressources en eau de l'Ontario, une demande d'autorisation:

A new leachate collection, pumping and transmission system to collect and dispose of (into the City of Burlington's municipal sanitary sewer system) surface leachate and contaminated shallow groundwater from the closed Bayview Park sanitay landfill site bounded by King Road to the northeast and the upper reaches of Indian Creek to the southwest in the City of Burlington, consisting of a toe drain system located at the base of a ravine to the west of the landfill area running approximately 250 metres north of the landfill south property line, two pre-fabricated leachate collection sumps having twin (one duty and 1 standby), 1.5 and 2.0 kW explosion proof submersible type pumps, each pump being rated at:

Pump	Rated Head (m)	Rated Capacity (L/min)
2	17.4	225
3	19.9	200

together with all associated pump level controls, access hatch, electrical control panel internal sump piping, fittings and appurtenances as well as a 200 mm buried perforated PVC leachate collector header at each sump location and 50-75 mm diameter high density polyethylene collected leachate forcemains located along the south edge of the landfill fill area discharging to a 200 mm diameter leachate collection sewer and forcemain, the forcemain section of the sewer being located within the fill area of the landfill (southern edge) for a distance of 120 metres to a height of land with the gravity section of the leachate collection sewer continuing along the south side of the landfill to King Road a distance of 470 m. The sewer then turns south following the west ditch of King Road down to the North Service Road, a distance of approximately 590 metres. The gravity sewer then changes diameter to 450 mm and crosses under the North Service Road and Highway 403 at a point 20 m west of the King Road Overpass. The sewer crosses Highway 403 (a distance of 80 m) and then continues south for 127 metres on the west side of King Road to an existing 450 mm municipal sanitary sewer located on King Road, all in accordance with the documents listed in Schedule "A" (attached) at a total estimated cost, including engineering and contingencies, of EIGHT HUNDRED AND FIFTY THOUSAND DOLLARS ($850,000.00), subject to the following special terms and conditions considered necessary by the undersigned:

....2

Now therefore this is to certify that after due enquiry the said proposed works have been approved under Section 24 of the Ontario Water Resources Act.

Le présent document certifie qu'après vérification en bonne et due forme la construction dudit projet d'ouvrages a été approuvée aux termes de l'article 24 de la loi sur les ressources en eau de l'Ontario.

This Certificate supercedes Certificate of Approval No. 3-0819-86-006 issued at Toronto, on June 27, 1986.

DATED AT TORONTO this 16th day of July, 1986
DATÉ À TORONTO ce *jour d'*

Attn: Ms. H. MacRae, Clerk, City of Burlington
cc: M. Koevoets, Dir. of Works
M.H. Boggs, Chief Admin. Officer
D.J. Varley, Clerk, R.M. of Halton
J. Tidball, MOE Legal Services Br.
D. Mizrynski, MOE W. Reg. Dir.
Conestoga-Rovers & Assoc. Ltd.

cc: G. Nelson, MOE Halton Peel Dist. Office
R.W.J. Moore, Reg. Engr.
R.S. Christensen, National Sewer Pipe

Director / *Directeur*

000593

Ontario Ministry of the Environment / Ministère de l'Environnement

Certificate of Approval (Sewage)
Certificat d'autorisation (eaux usées)

Number / *Numéro* 3-0819-86-007

Whereas / *Attendu que*

of / d

has applied in accordance with Section 24 of the Ontario Water Resources Act for approval of:
a fait, conformément à l'article 24 de la loi sur les ressources en eau de l'Ontario, une demande d'autorisation:

SPECIAL TERMS AND CONDITIONS

1. Upon completion of the sewage works the Corporation of the City of Burlington shall supply the Ministry of the Environment, Environmental Approvals and Land Use Planning Branch with as-constructed drawings for the on-site works namely those works between Manhole No. 12 and Manhole No. 21, including all works located within the Bayview Park Landfill site boundary as shown on the engineering drawing entitled Bayview Park Landfill Leachate Collection System, General Layout, Drawing No. 06, Sheet 1 of 15, prepared by Conestoga-Rovers & Associates Limited dated April, 1986 revised as per addendum No. 1 and Change Order No. 1.

2. All liquids which require dewatering for any reason during construction of all on-site works between Manhole No. 12 and Manhole No. 21 as described in Condition No. 1 shall be discharged to a sanitary sewer. Written records of volumes of liquids dewatered shall be supplied to the MOE inspector upon request.

Now therefore this is to certify that after due enquiry the said proposed works have been approved under Section 24 of the Ontario Water Resources Act.
Le présent document certifie qu'après vérification en bonne et due forme la construction dudit projet d'ouvrages a été approuvée aux termes de l'article 24 de la loi sur les ressources en eau de l'Ontario.

DATED AT TORONTO this 16th day of July, 1986
DATÉ À TORONTO ce jour d

/ec

Director / *Directeur*

ONTARIO MINISTRY
OF THE ENVIRONMENT

JUL 17 1986

CENTRAL REGION
OAKVILLE OFFICE

Ministry of the Environment

Ontario

NOTICE

TO: The Corporation of the City of Burlington
Box 5013
426 Brant Street
Burlington, Ontario
L7R 3Z6

You are hereby notified that a Conditional Certificate of Approval No. 3-0819-86-007 has been issued to you subject to the conditions outlined therein.

The reasons for the imposition of these conditions are as follows:

1. The filing of as-constructed drawings with the Ministry of the Environment, Environmental Approvals and Land Use Planning Branch is necessary to show that the sewage works were built in conformity with the approved documents listed as Schedule "A" in Certificate of Approval No. 3-0819-86-007 if any questions arise as to what was actually constructed.

2. Liquids from this site contain contaminants which may impair the quality of water in Indian Creek if discharged, contrary to Section 16 of the Act.

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board.

This Notice should be served upon:

The Secretary,
Environmental Appeal Board,
1 St. Clair Ave. West,
5th Floor,
Toronto, Ontario.
M4V 1K7

AND

The Director,
Section, 24, OWR Act,
Ministry of the Environment,
135 St. Clair Ave. West,
Toronto, Ontario.
M4V 1P5.

DATED at Toronto this 16th day of July , 19 86 .

Director,
Section,
Ministry of the Environment.

1771 (09/84)

SCHEDULE "A"

This Schedule "A" forms part of Certificate of Approval No. 3-0819-86-007 issued on July 16, 1986.

1. Detailed design drawings prepared by Conestoga-Rovers and Associates Limited, Consulting Engineers, issued June 23, 1986 and date stamped July 8, 1986 Environmental Approvals and Land Use Planning Branch entitled Bayview Park Landfill, Leachate Collection System, Contract No. 86-16.

2. Contract Specifications dated June, 1986 entitled City of Burlington, Bayview Landfill Site Leachate Collection System and Surface Drainage Improvements, Contract 86-16, File 760.04-2 (noted by MOE as a second submission).

3. A letter dated June 17, 1986 to Mr. Lyle Parsons from Greg Ferraro, P.Eng. entitled Addendum No. 1, Bayview Park Landfill, Leachate Collection System detailing changes to the Leachate Collection System, Contract 86-16.

4. A letter dated June 23, 1986 to Lyle Parsons, B.E.S. Systems Co-ordinator from Alan Ramsay, Environmental Management Co-ordinator, The Corporation of the City of Burlington, with attached Addendum No. 2, Bayview Park Landfill, Leachate Collection System detailing changes to the leachate pumping system, Contract 86-16.

5. Change Order No. 1 dated June 25, 1986 entitled Corporation of City of Burlington, Bayview Park Landfill, Leachate Collection System Contract 86-16, unsigned.

6. A letter dated June 26, 1986 to Mr. Lyle F. Parsons, B.E.S. Systems Co-ordinator from Greg Ferraro, P.Eng., entitled Change Order No. 1, City of Burlington, Bayview Park Landfill Leachate Collection Systems with attached Appendix A entitled PVC and HDPE Pipe Strength Calculations.

7. A letter dated July 4, 1986 to Mr. T. Armstrong, Acting Director Environmental Approvals and Land Use Planning Branch from Michael N. Boggs, Chief Administrative Officer entitled Bayview Park Landfill Site, Ontario Water Resources Act Application.

APPENDIX B

MOEE COMMENTS ON THE 1993 MONTIORING REPORT AND CRA RESPONSES

Ontario

Ministry of Environment and Energy

Ministère de l'Environnement et de l'Énergie

1235 Trafalgar Road
Suite 401
Oakville ON L6H 3P1

1235 chemin Trafalgar
Bureau 401
Oakville ON L6H 3P1

1995 02 21

Mr. Peter Hayes, B. Sc.
Conestoga-Rovers & Associates Limited
651 Colby Drive
Waterloo, Ontario
N2V 1C2

Dear Mr. Hayes:

Re: 1993 Bayview Park Landfill Site Monitoring Report
Conestoga Rowers & Associates, March 1994.

We reviewed the above report and offer the following comments:

A. Ground Water

1). The Bayview Park Landfill Site is underlain by shale bedrock, ground water is complex and largely controlled by the extent, geometry and fractures in the shale. Shallow ground water flow is predominantly lateral within the weathered and fractured upper shale. Ground water is to the surrounding surface water bodies. Within the deeper, less permeable section of the shale, ground water is characterized by pronounced downward gradients and highly mineralized waters.

2). Concurrent with be present assessment of all existing chemical and hydrogeological data, an environmental performance report is now under preparation. The objective of this report is to provide for an up to date environmental impact evaluation and rationalized monitoring program for the closed site. The results will allow for determining appropriate buffer, monitoring and contingency requirements with the respect to the proposed adjacent land use development.

0761-OFA (10/93)

100% Unbleached Post-Consumer Stock

3). Based on water quality monitoring results to date it has been difficult to assess the exact extent of leachate contaminated ground water. This is because of the naturally occurring highly mineralized water and the difficulty in finding a suitable landfill related indicator parameter. Trace levels of volatile organics have occasionally been detected but results are inconsistent.

4). We concur with the overall conclusions in the report. The proposed 1994 monitoring program as outlined in Appendix C in the report should continue for this year.After the Environmental Performance evaluation report is completed, the monitoring programme would require to be redesigned, taking into account the extent of buffer, contingency requirements and the prosed adjacent land use development

B. Surface Water

1). From the data provided, it appears that the leachate collection system put in place in 1986 does result in reduced impact on surface water. However, page 22 of the report indicates that the surface water locations SW3 and SW4 are dry due to the performance of the leachate collection system. It also indicates that these locations were moved downstream in 1987. Because the dryness could also be due the new locations, we suggest these locations be moved even further downstream so that samples may be collected to ensure that the leachate collection system is working.

2). The data presented in Appendix F (Section F-1) indicates an historical occurrence of toluene and iron in water. These parameters are not analyzed in the more recent sampling rounds. We suggest that these parameters (and others that may be characteristic of the leachate, including PCBs if found) be incorporated into the sampling rounds so that any changes in landfill impacts can be gauged.

3). As far as sampling trends are concerned, the report indicates an increase in TKN and coliform at SW10 (page 24), an increase in TKN at SW6 (page 25), an increase in unionized ammonia, TKN and coliform at SW7 (page 26), an increase in TKN and ammonia at SW8 (page 26), and an increase in TKN and ammonia at SW13 (page 27). Would you please provide explanation or hypotheses for these trends.

4). The above comments should be incorporated into ongoing monitoring program.

If you need clarification on the above, please call me at (905)815-5931.

Yours truly,

T. Brankovic, P. Eng.,
District Engineer
Halton-Peel Region

cc: J. D'Cruz
T. Asaria

[petercra.ltr]

Consulting Engineers

CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive
Waterloo, Ontario, Canada N2V 1C2
(519) 884-0510 Colby Office Fax: (519) 884-0525
(519) 725-3313 Bathurst Office (519) 725-1394

March 1, 1995

Reference No. 1354

Mr. Tom Brankovic
Ministry of Environment and Energy
Halton-Peel District Office
1235 Trafalgar Road, Suite 401
Oakville, Ontario
L6H 3P1

Dear Mr. Brankovic:

Re: Response to MOEE Comments
1993 Bayview Park Landfill Site Monitoring Report

Comments prepared by the MOEE regarding the above-noted report are outlined in a letter to Mr. Peter Hayes dated February 21, 1995. This letter serves to provide CRA's response to the comments made by the MOEE. They are addressed below on a point-by-point basis:

A. GROUNDWATER

MOEE Comment:

A-1) The Bayview Park Landfill Site is underlain by shale bedrock, groundwater is complex and largely controlled by the extent, geometry and fractures in the shale. Shallow groundwater flow is predominantly lateral within the weathered and fractured upper shale. Groundwater is to the surrounding surface water bodies. Within the deeper, less permeable section of the shale, groundwater is characterized by pronounced downward gradients and highly mineralized waters.

CRA Response:

A-1) CRA agrees with the intent of this statement.

MOEE Comment:

A-2) Concurrent with the present assessment of all existing chemical and hydrogeological data, an environmental performance report is now under preparation. The objective of this report is to provide for an up-to-date environmental impact evaluation and rationalized monitoring program for the closed Site. The results will allow for determining appropriate buffer,

monitoring and contingency requirements, with respect to the proposed adjacent land use development.

CRA Response:

A-2) CRA agrees with this statement. The referenced report is entitled "Environmental Performance Report, Bayview Park Landfill, Burlington, Ontario" and was submitted to Mr. J. Budz of the MOEE, Central Region on November 4, 1994. Complete MOEE Comments with respect to this report are pending.

MOEE Comment:

A-3) Based on water quality monitoring results to date it has been difficult to assess the exact extent of leachate contaminated groundwater. This is because of the naturally occurring highly mineralized water and the difficulty in finding a suitable landfill related indicator parameter. Trace levels of volatile organic have occasionally been detected but results are inconsistent.

CRA Response:

A-3) CRA concurs with this statement.

MOEE Comment:

A-4) We concur with the overall conclusions in the report. The proposed 1994 monitoring program as outlined in Appendix C in the report should continue for this year. After the Environmental Performance evaluation report is completed, the monitoring program would require to be redesigned, taking into account the extent of buffer, contingency requirements and the proposed adjacent land use development.

CRA Response:

A-4) CRA agrees with this statement. Two items are however noted for clarification between the monitoring program outlined in Appendix C of the 1993 Monitoring Report and the program carried out in 1994.

Firstly, surface water locations SW9A-93, SW13-93, SW14-93 and SW15-93 which were included in the 1993 Monitoring Specifications were not included in the 1994 Monitoring Specifications as these are new surface water monitoring locations proposed as part of the rationalized monitoring program included in the Environmental Performance Report, and have not been included in historical monitoring.

Secondly, monitoring of gas levels in GP1-93, GP2-93 and GP4-93 which are included in the 1993 Monitoring Specifications are not included in the 1994 Monitoring Specifications as these items are also included as part of the proposed rationized monitoring program, and have not been included as part of historical monitoring. It should be noted that GP4-93 should read GP3-93.

The reason for these two inclusions in 1993 monitoring program, namely the additional surface water locations and the gas probe monitoring, was to collect that data from these monitoring locations by CRA field personnel for specific use in the Environmental Performance Report. Once MOEE concurrence is received, the monitoring program will be revised to reflect that which is presented in the Environmental Performance Report.

B. SURFACE WATER

MOEE Comment:

B-1) *From the data provided, it appears that the leachate collection system put in place in 1986 does result in reduced impact on surface water. However, page 22 of the report indicates that the surface water location SW3 and SW4 are dry due to the performance of the leachate collection system. It also indicates that these locations were moved downstream in 1987. Because the dryness could also be due to the new locations, we suggest these locations be moved even further downstream so that samples may be collected to ensure that the leachate collection system is working.*

CRA Response:

B-1) The purpose of the installation of the leachate collection system was to control the overland leachate seepage and as a consequence mitigate landfill derived impacts on the adjacent Indian Creek and its' tributaries. The continued observations that SW3 and SW4 are essentially dry and the absence

of leachate seepage, indicate that the Leachate Collection System is operating effectively in this area, in keeping with the stated objectives of the system.

MOEE Comment:

B-2) *The data presented in Appendix F (Section F-1) indicates an historical occurrence of toluene and iron in water. These parameters are not analyzed in the more recent sampling rounds. We suggest that these parameters (and others that may be characteristic of the leachate, including PCBs if found) be incorporated into the sampling rounds so that any changes in landfill impacts can be gauged.*

CRA Response:

B-2) These parameters were monitoring in the surface water as part of the 1986 monitoring program at the Site. Contained within Section 6.1, Proposed 1987 Surface Water Monitoring of the CRA report entitled "Updated 1986 Monitoring Report, Bayview Landfill Site, City of Burlington" submitted to the City of Burlington and the MOE on March 12, 1987 is a statement regarding the analysis of priority pollutants within surface water. The report reads as follows:

"Some VOC analysis remains in the 1987 program because VOCs have been identified as migrating in the fractured bedrock aquifer. In addition, because of this mobility, VOCs are a useful check. Synthetically derived base/neutral and acid extractable species, for organic contaminants and PCB/pesticides have not been identified in the water column and therefore, are no longer regarded as necessary. In the event that VOCs increase substantially, the need for other priority pollutant analyses will be reevaluated."

In addition, the monitoring of metals, base/neutral and acid extractables, VOCs and Pesticides/PCBs continues to occur for leachate from the landfill. The results of this leachate monitoring provide a basis for determining whether or not these parameters present a potential concern within surface water at the Site.

MOEE Comment:

B-3) As far as sampling trends are concerned, the report indicates an increase in TKN and coliform at SW10 (page 24), an increase in TKN at SW6 (page 25), an increase in unionized ammonia, TKN and coliform at SW7 (page 26), an increase in TKN and ammonia at SW8 (page 26), and an increase in TKN and ammonia at SW13 (page 27). Would you please provide explanation or hypotheses for these trends.

CRA Response:

B-3) As stated on pages 27 and 28 and as indicated on Table 4.7 and 4.8 in the 1993 Progress Report an upstream source of total or fecal coliforms is indicated as landfill vicinity concentrations are less than upstream and downstream levels. Upstream TKN concentrations have also generally increased for this time period suggesting an upstream surface water/shallow groundwater source of this compound. As stated in the June 1981 MOE document "Outlines of Analytical Methods", sewage and industrial waste treatment effluents and runoff from agricultural areas where fertilizers have been used are the primary sources of TKN besides natural nitrogen fixation and anaerobic nitrate reduction processes.

The landfill does appear to be affecting surface water quality as a result of shallow impacted groundwater discharge with respect to increased chloride, ammonia (including unionized ammonia) concentrations at landfill vicinity surface water monitoring locations as compared with upstream and downstream monitoring points. Unionized ammonia concentrations are below the respective Provincial Water Quality Objective of 20 µg/L.

MOEE Comment:

B-4) The above comments should be incorporated into ongoing monitoring program.

CRA Response:

B-4) The above responses by CRA, where appropriate, have been incorporated into the 1994 Monitoring Report.

March 1, 1995 Reference No. 1354-30

If you have any questions or concerns regarding the above, please do not hesitate to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Peter Hayes, B.Sc.

PH/jdh/1

cc: Doug Brown, City of Burlington
Greg Ferraro, CRA
Tony Crutcher, CRA

APPENDIX C

STRATIGRAPHIC AND INSTRUMENTATION LOGS

APPENDIX 4

Observation Well Construction Details

Site F

Borehole No.	O.W. No.	Diameter (mm)	Surface Elev(m)	Depth (m)	Tip Elev(m)	Well Type	Geologic Setting	Screen Setting(m) Bottom	Screen Setting(m) Top	Screen Length	Sand Pack(m) Bottom	Sand Pack(m) Top	Bentonite Seals(m) Lower Seal Bottom	Bentonite Seals(m) Lower Seal Top	Bentonite Seals(m) Upper Seal Bottom	Bentonite Seals(m) Upper Seal Top
HC1-85	1	32	186.1	30.9	155.6	P	Sh	155.6	157.1	1.5	155.2	158.1	-	-	158.1	160.3
	2	32	186.1	19.5	167.2	P	WSh, CT	167.2	168.7	1.5	166.6	169.3	164.8	166.6	169.3	171.2
	3	32	186.1	5.8	180.6	S	CST	180.6	184.6	4.0	180.3	184.9	177.9	180.3	184.9	186.1
HC1-84	1	32	186.1	18.3	168.8	P	ST	168.8	170.3	1.5	167.8	171.3	-	-	186.0	187.0
HC2-85	1	32	175.5	10.1	165.7	S	CST, WSh	165.7	173.4	7.6	165.4	174.0	-	-	174.0	175.5
HC2-84	1	39	175.7	16.5	160.6	P	Sh	160.6	162.1	1.5	159.2	163.0	-	-	176.0	176.6
HC3-85	1	13	140.3	31	109.8	P	Sh	109.8	111.3	1.5	109.3	111.6	-	-	111.6	113.5
	2	13	140.3	15.5	125.1	P	FSh	125.1	126.6	1.5	124.8	126.9	122.9	124.8	126.9	128.4
	3	13	140.3	11.9	128.7	P	Sh	128.7	130.2	1.5	128.4	130.5	126.9	128.4	130.5	132.4
	4	13	140.3	7.9	132.7	P	WSh	132.7	134.2	1.5	132.4	134.5	130.5	132.4	134.5	136.3
	5	13	140.3	4.0	136.6	S	WSh	136.6	138.2	1.5	136.3	138.5	134.5	136.3	138.5	140.3
HC4-85	1	32	137.4	30.8	106.9	P	Sh	106.9	107.8	0.9	106.6	108.1	-	-	108.1	110.0
	2	32	137.4	18.3	120.0	P	FSh	120.0	120.9	0.9	119.1	121.5	117.3	119.1	121.5	125.5
	3	32	137.5	11.9	126.2	P	WSh	126.2	127.1	0.9	125.6	127.7	-	-	127.7	131.1
	4	32	137.5	6.4	131.4	S	WSh	131.4	136.3	4.9	131.1	136.7	127.7	131.1	136.7	137.5
HC5-85	1	32	125.9	31.0	95.1	P	Sh	95.1	96.6	1.5	94.9	97.2	-	-	97.2	98.9
	2	32	125.9	18.9	107.9	P	F.WSh	107.3	108.8	1.5	107.0	109.3	105.2	107.0	109.3	111.1
	3	32	126.0	9.5	116.7	P	WSh, CT	116.7	118.2	1.5	116.5	118.7	-	-	118.7	119.9
	4	32	126.0	6.1	120.2	S	CT	120.2	124.8	4.6	119.9	125.1	118.7	119.9	125.1	126.0

APPENDIX 4

Observation Well Construction Details

Site F

Borehole No.	O.W. No.	Diameter (mm)	Surface Elev(m)	Depth (m)	Tip Elev(m)	Well Type	Geologic Setting	Screen Setting(m) Bottom	Screen Setting(m) Top	Screen Length	Sand Pack(m) Bottom	Sand Pack(m) Top	Bentonite Seals(m) Lower Seal Bottom	Bentonite Seals(m) Lower Seal Top	Bentonite Seals(m) Upper Seal Bottom	Bentonite Seals(m) Upper Seal Top
HC6-85	1	13	127.8	30.8	97.3	P	Sh	97.3	98.2	0.9	97.0	98.5	-	-	98.5	100.4
	2	13	127.8	21.6	106.5	P	FSh	106.5	107.4	0.9	106.2	107.8	104.3	106.2	107.8	109.8
	3	13	127.8	11.8	110.1	P	FSh	110.1	111.0	0.9	109.8	111.3	107.8	109.8	111.3	113.2
	4	13	127.8	14.6	119.6	P	WFSh	119.6	120.5	0.9	113.2	120.8	111.3	113.2	120.8	122.6
	5	13	127.8	5.2	124.8	S	CST	124.8	125.7	0.9	122.6	126.0	120.8	122.6	126.0	127.8
HC7-85	1	32	130.9	30.5	103.2	P	FSh	103.2	104.7	1.5	100.4	105.1	-	-	105.1	106.2
	2	32	130.8	20.0	111.0	P	Sh	111.0	112.5	1.5	110.8	112.1	-	-	113.1	116.2
	3	32	130.9	7.9	123.3	S	CST, WSh	123.3	127.3	4.0	123.0	129.9	122.7	123.4	129.9	130.9
HC8-85	1	32	118.0	30.9	87.1	P	Sh	87.1	88.9	1.8	87.1	89.2	-	-	89.2	91.2
	2	32	118.0	18.6	100.9	P	WSh	100.9	102.5	1.8	99.4	103.1	97.6	99.4	103.1	106.4
	3	32	118.0	11.6	107.3	P	FSh	107.3	109.1	1.8	106.4	109.5	103.1	106.4	109.5	111.1
	4	32	118.0	6.9	111.6	S	CST, FSh	111.6	115.6	4.0	111.1	116.2	109.5	111.1	116.2	118.0
HC9-85	1	32	105.6	30.9	75.1	P	Sh	75.1	76.6	1.5	74.7	77.9	-	-	77.9	79.7
	2	32	105.6	17.7	89.1	P	Sh	89.1	90.0	0.9	87.9	90.7	86.1	87.9	90.7	91.9
	3	32	105.6	9.4	96.5	P	CST	96.5	98.0	1.5	96.2	98.6	-	-	98.6	100.4
	4	32	105.6	5.2	100.7	S	f-m Sa, C-G	100.7	103.8	3.1	100.4	104.4	98.6	100.4	104.4	105.6
HC10-85	1	32	94.2	15.1	79.6	P	FWSh	79.6	81.1	1.5	79.1	81.7	-	-	81.7	83.1
	2	32	94.2	11.1	84.3	P	SCT	84.3	85.2	0.9	83.1	85.5	81.7	83.1	85.5	88.1
	3	32	94.2	5.5	88.7	S	CST + OS	88.7	93.4	4.6	88.7	93.3	-	-	93.3	94.2

APPENDIX 4

Observation Well Construction Details

Site F

Borehole No.	O.W. No.	Diameter (mm)	Surface Elev(m)	Depth (m)	Tip Elev(m)	Well Type	Geologic Setting	Screen Setting(m) Bottom	Screen Setting(m) Top	Screen Length	Sand Pack(m) Bottom	Sand Pack(m) Top	Bentonite Seals(m) Lower Seal Bottom	Bentonite Seals(m) Lower Seal Top	Bentonite Seals(m) Upper Seal Bottom	Bentonite Seals(m) Upper Seal Top
HC11-85	1	32	93.2	21.5	71.7	P	WSh	71.7	73.2	1.5	71.7	73.8	-	-	73.8	77.2
	2	32	93.2	6.4	87.1	S	f-m Sa	87.1	91.7	4.6	86.8	92.0	85.1	86.8	92.0	93.2
HC12-85	1	32	85.5	29.4	61.0	P	Sh	61.0	62.89	1.8	56.0	65.3	-	-	65.3	67.1
	2	32	85.5	8.7	77.5	P	WSh	77.5	78.6	0.9	76.7	78.7	74.9	76.7	78.7	79.6
	3	32	85.5	4.9	80.8	S	Sa SCT	80.8	83.9	3.1	80.5	84.3	-	-	84.3	85.4
HC13-85	1	32	77.3	30.3	47.4	P	Sh	47.4	48.3	0.9	47.0	50.8	-	-	50.8	52.6
	2	32	77.3	9.4	68.2	P	FSh	68.2	69.1	0.9	67.9	69.7	66.0	67.9	69.7	71.2
	3	32	77.3	6.1	71.5	S	WSh, CT	71.5	75.5	4.0	71.2	75.8	69.7	71.2	75.8	77.3
HC14-86	1	32	113.839	30.5	83.3	P	Sh	83.3	84.2	0.9	83.3	84.5	-	-	84.5	86.4
	2	32	113.839	23.8	90.3	P	FSh	90.3	91.8	1.5	90.0	92.2	88.2	90.0	92.2	93.7
	3	32	113.839	20.1	94.0	P	FSh	94.0	95.5	1.5	93.7	95.8	92.2	93.7	95.8	97.6
	4	32	113.839	14.3	99.0	S	SSaT	99.0	102.2	2.4	99.5	102.5	97.6	99.5	102.5	104.7
HC15-86	1	32	111.7	25.9	85.8	P	FSh	85.8	87.3	1.5	85.8	87.6	-	-	87.59	89.4
	2	50	111.7	18.0	93.7	P	FSh	93.7	94.3	0.6	93.7	94.6	-	-	94.62	95.5
	3	50	111.7	11.9	99.8	P	WSh	99.8	100.4	0.6	99.8	100.7	-	-	100.67	101.6
	4	50	111.7	5.8	105.9	S	WS	105.9	107.1	1.2	105.9	107.4	-	-	107.37	108.3
HC16-86	1	32	79.0	22.9	56.4	P	Sh	56.4	57.3	0.9	56.1	57.7	-	-	57.74	59.5
	2	32	79.0	13.7	65.6	P	WSh, SaCT	65.6	66.5	0.9	65.3	66.8	63.64	65.04	67.14	68.6
	3	32	79.0	10.4	68.1	S	SaST	68.1	69.0	0.9	68.6	77.2	67.14	68.84	77.24	79.0

Note: Some figures may not add up exactly due to rounding off.

Depth refers to depth of borehole. Tip refers to Tip of observation well.

Source: Trow 1986

TABLE 1

LEACHATE WELL CONSTRUCTION SUMMARY

Well	Well Depth (m BGS)	Top of Casing Elevation (m AMSL)	Ground Elevation (m AMSL)	Bottom of Screen Elevation (m AMSL)	Screen Length (m)	Screen Type	Top of Sand Pack Elevation (m AMSL)	Riser Type
LW1	12.19	151.64	150.90	138.71	4.6 m	1 1/4" PVC SCH80 (.006 slot)	143.89	1 1/4" PVC
LW2	18.29	152.02	151.44	133.15	10.7 m	1 1/4" PVC SCH80 (.006 slot)	144.43	1 1/4" PVC
LW3	13.72	153.22	152.44	138.72	3 m	1 1/4" PVC SCH80 (.006 slot)	142.72	1 1/4" PVC
LW4	15.24	162.73	161.96	146.72	0.76 m	2" PVC SCH80 (#10 slot)	149.77	2" PVC
LW5	9.14	162.04	161.17	152.03	0.76 m	2" PVC SCH80 (#10 slot)	155.08	2" PVC
LW6	10.67	169.21	168.45	157.78	0.76 m	2" PVC SCH80 (#10 slot)	160.52	2" PVC

STRATIGRAPHY LOG (OVERBURDEN)

SHEET NO. 1 OF 1

PROJECT NAME Bayview Landfill
PROJECT NUMBER 1354
CLIENT City of Burlington
LOCATION Burlington, Ont.

DRILLING CONTRACTOR Atcost Soil Drilling
DRILLER
SURFACE ELEVATION 150.90 m AMSL
WEATHER (a.m.)
(p.m.)

HOLE DESIGNATION LW1-86
DATE STARTED Jan. 7 / 86
DATE COMPLETED Jan. 7 / 86
DRILLING METHOD HSA
CRA SUPERVISOR Bob Mayberry

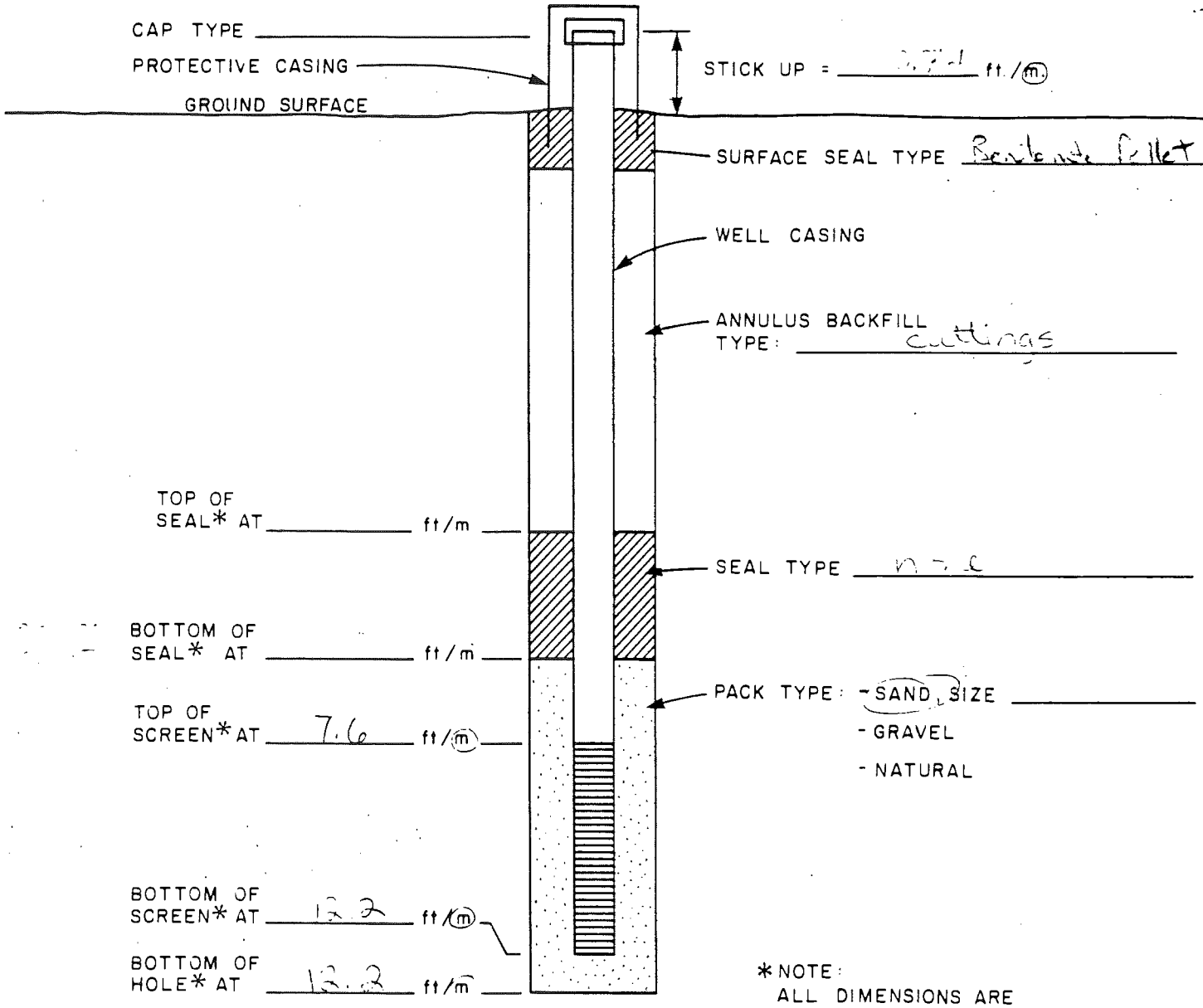
DEPTH OR ELEVATION (ft/m) FROM	AT	TO	SAMPLE #	SAMPLING METHOD	PENETRATION RECORD SPLIT SPOON BLOWS 6"	6"	6"	6"	RECOVERY LENGTH	SAMPLE DESCRIPTION (COMPONENTS, COLOUR, MOISTURE, NATIVE/FILL)	NOTES (STRUCTURES, DRILLER'S COMMENTS, GEOLOGIC CLASSIFICATION)
0		8								Cover Soil (no sample)	
8		31								Refuse	
31		40								Clay with silt, sand, red (no sample)	
	40			SS						- 134 Blows - 3"	
										- weathered shale	end of hole

000612

WELL INSTRUMENTATION LOG

PROJECT NAME: Bayview Landfill Site
PROJECT Nº: 1354
CLIENT: City of Burlington
LOCATION: Burlington, Ont

HOLE DESIGNATION: LW1-86
DATE COMPLETED: 7 Jan. /86
DRILLING METHOD: HSA
CRA SUPERVISOR: Ron Mayer



SCREEN TYPE: ☐ continuous slot ☒ perforated ☐ louvre ☐ other:

SCREEN MATERIAL: ☐ stainless steel ☒ plastic ☐ other:

SCREEN LENGTH: 4.6 ft/(m) SCREEN DIAMETER: 1¼ (in)/cm SCREEN SLOT SIZE: .010

WELL CASING MATERIAL: PVC WELL CASING DIAMETER: 1¼ (in)/cm

HOLE DIAMETER: 3"

DEVELOPMENT METHOD: DURATION:

000613

STRATIGRAPHY LOG (OVERBURDEN)

SHEET NO. 1 OF 1

PROJECT NAME Bayview Landfill
PROJECT NUMBER 1354
CLIENT City of Burlington
LOCATION Burlington, Ont.

DRILLING CONTRACTOR Atcost Soil Drilling
DRILLER
SURFACE ELEVATION 151.44 m AMSL
WEATHER (a.m.)
(p.m.)

HOLE DESIGNATION LW2-86
DATE STARTED Jan. 7 / 86
DATE COMPLETED Jan. 7 / 86
DRILLING METHOD HSA
CRA SUPERVISOR Bob Mayberry

DEPTH OR ELEVATION (ft/m) FROM	AT	TO	SAMPLE #	SAMPLING METHOD	PENETRATION RECORD SPLIT SPOON BLOWS 6"	6"	6"	6"	RECOVERY LENGTH	SAMPLE DESCRIPTION (COMPONENTS, COLOUR, MOISTURE, NATIVE/FILL)	NOTES (STRUCTURES, DRILLER'S COMMENTS, GEOLOGIC CLASSIFICATION)
0		8								Cover Soil (no sample)	
8		53								Refuse	
53		60								Clay with silt, sand, red (no sample)	
	60			SS						-120 Blows - 8"	
										- weathered shale, red	end of hole

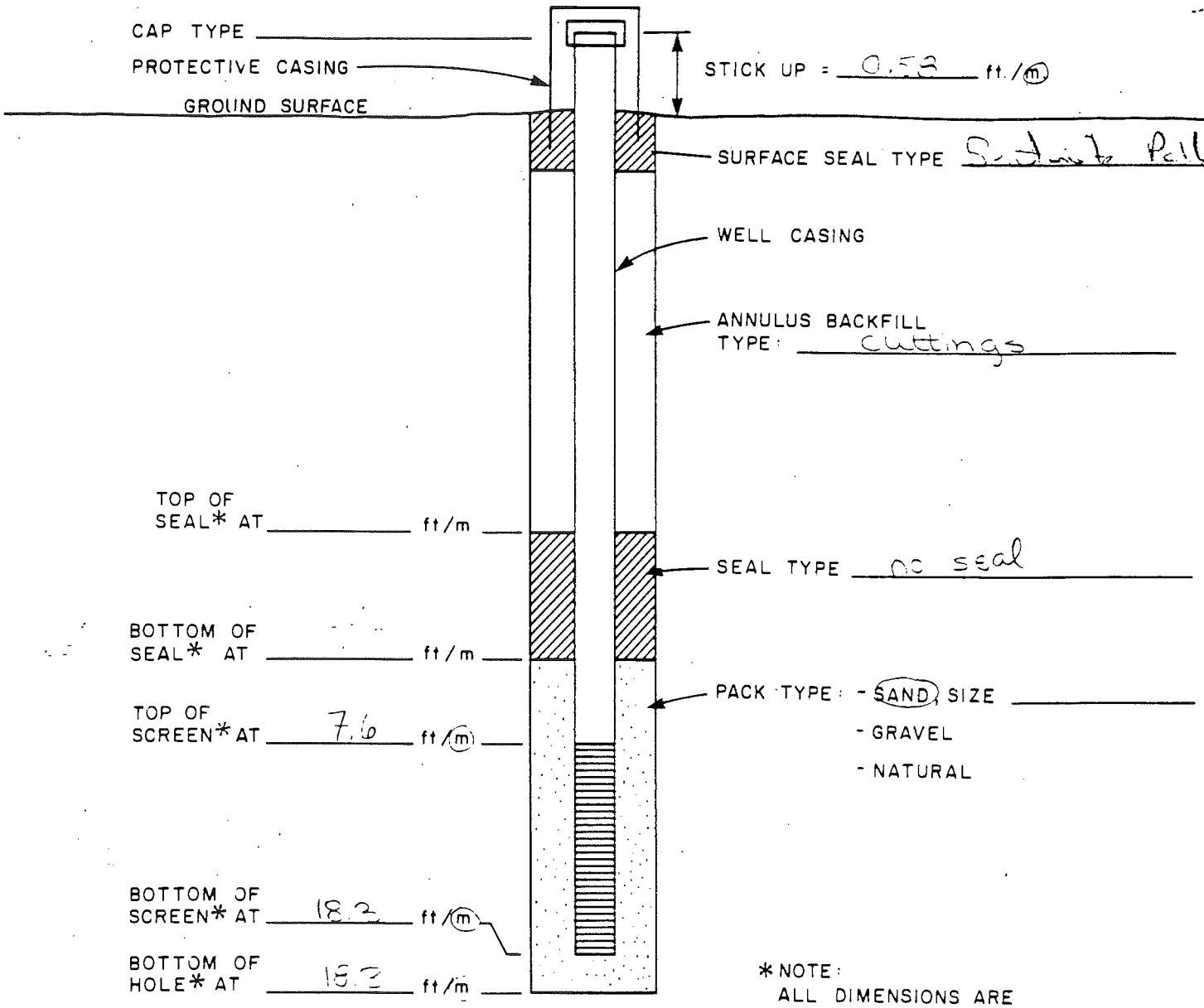
000614

2/05/85

WELL INSTRUMENTATION LOG

PROJECT NAME: Bayview Landfill Site
PROJECT Nº: 1354
CLIENT: City of Burlington
LOCATION: Burlington, Ont.

HOLE DESIGNATION: LW2-86
DATE COMPLETED: Jan 7, 86
DRILLING METHOD: HSA
CRA SUPERVISOR: Bob Mayberry
(INSTALLED BY)



SCREEN TYPE: ☐ continuous slot ☒ perforated ☐ louvre ☐ other:

SCREEN MATERIAL: ☐ stainless steel ☒ plastic ☐ other:

SCREEN LENGTH: 10.67 ft/m SCREEN DIAMETER: 1¼ in/cm SCREEN SLOT SIZE: .010

WELL CASING MATERIAL: PVC WELL CASING DIAMETER: 1¼ in/

HOLE DIAMETER: 8"

DEVELOPMENT METHOD: DURATION: 9 hrs.

95

000615

STRATIGRAPHY LOG (OVERBURDEN)

SHEET NO. 1 OF 1

PROJECT NAME Bayview Landfill
PROJECT NUMBER 1354
CLIENT City of Burlington
LOCATION Burlington, Ont.

DRILLING CONTRACTOR Atcost Soil Drilling
DRILLER
SURFACE ELEVATION 152.44m AMSL
WEATHER (a.m.)
(p.m.)

HOLE DESIGNATION LW3-86
DATE STARTED Jan. 6/86
DATE COMPLETED Jan. 6/86
DRILLING METHOD HSA
CRA SUPERVISOR Bob Mayberry

DEPTH OR ELEVATION (ft/m) FROM	AT	TO	SAMPLE #	SAMPLE TYPE AND METHOD	PENETRATION RECORD SPLIT SPOON BLOWS 6"	6"	6"	6"	RECOVERED LENGTH	SAMPLE DESCRIPTION (COMPONENTS, COLOUR, MOISTURE, NATIVE/FILL)	NOTES (STRUCTURES, DRILLER'S COMMENTS, GEOLOGIC CLASSIFICATION)
0		7								Cover Soil, clayey. (no sample)	
7		30								Refuse	
30		45								Clay with silt, sand, red (no sample)	
	45			SS						>100 Blows - 1"	
										- shale (no sample)	end of hole

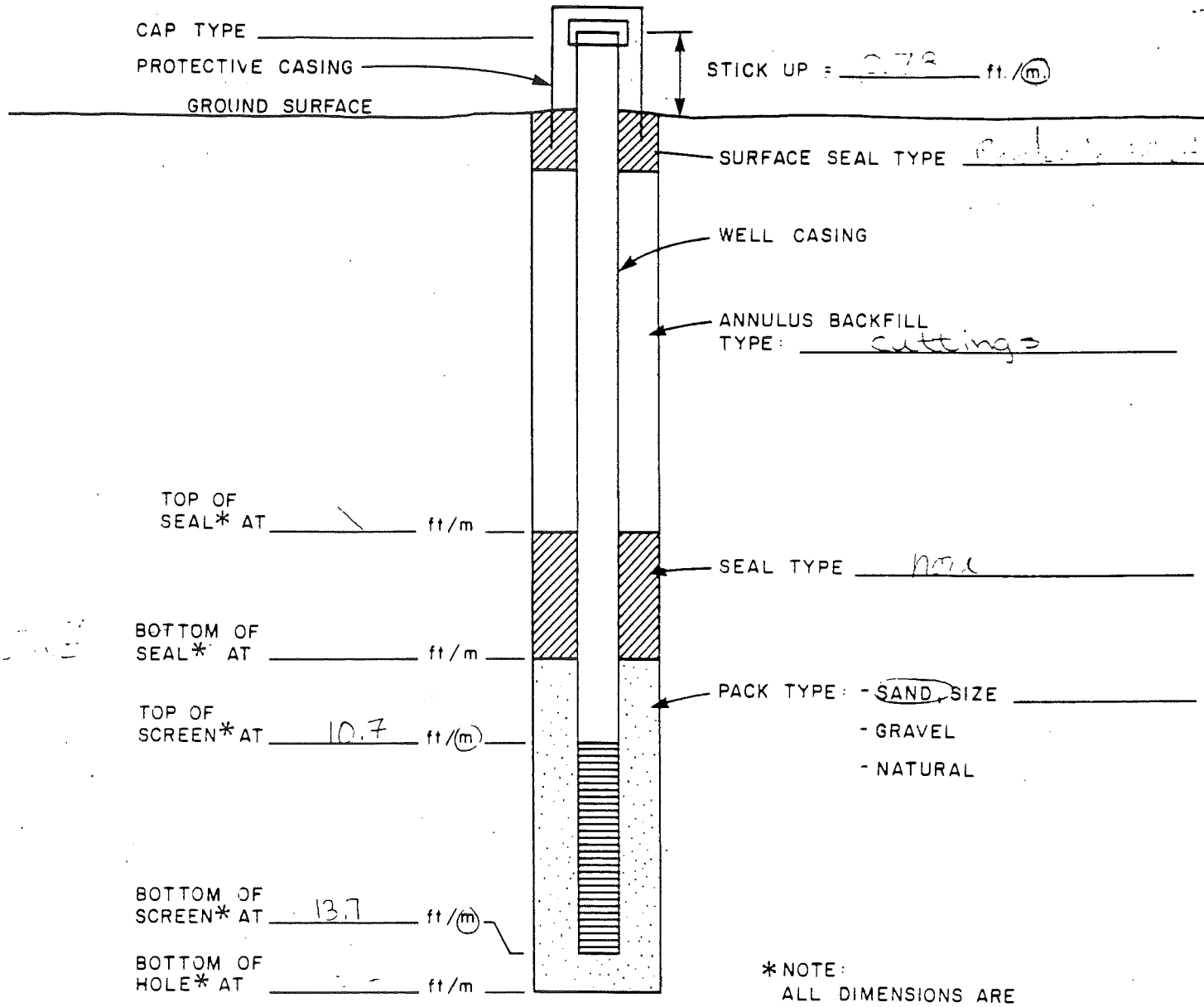
000616

2/05/85

WELL INSTRUMENTATION LOG

PROJECT NAME: Bayview Landfill Site
PROJECT Nº: 1354
CLIENT: City of Burlington
LOCATION: "Burlington", Ont.

HOLE DESIGNATION: LW3-86
DATE COMPLETED: Jan. 6, 1986
DRILLING METHOD: HSA
CRA SUPERVISOR: Bob Mayberry
(INSTALLED BY ...)



SCREEN TYPE: ☐ continuous slot ☒ perforated ☐ louvre ☐ other:

SCREEN MATERIAL: ☐ stainless steel ☒ plastic ☐ other:

SCREEN LENGTH: 3 ft/(m) SCREEN DIAMETER: 1¼ (in)/cm SCREEN SLOT SIZE: .006

WELL CASING MATERIAL: PVC WELL CASING DIAMETER: (in)/

HOLE DIAMETER: 6"

DEVELOPMENT METHOD: DURATION: 2½ hrs.

000617

STRATIGRAPHY LOG (OVERBURDEN)

SHEET NO. 1 OF 1

PROJECT NAME Bayview Landfill
PROJECT NUMBER 1354
CLIENT City of Burlington
LOCATION Burlington, Ont.

DRILLING CONTRACTOR Atcost Soil Drilling
DRILLER
SURFACE ELEVATION 161.962 m AMSL
WEATHER (a.m.)
(p.m.)

HOLE DESIGNATION LW4-86
DATE STARTED Jan. 8/86
DATE COMPLETED Jan. 8/86
DRILLING METHOD HSA
CRA SUPERVISOR Bob Mayberry

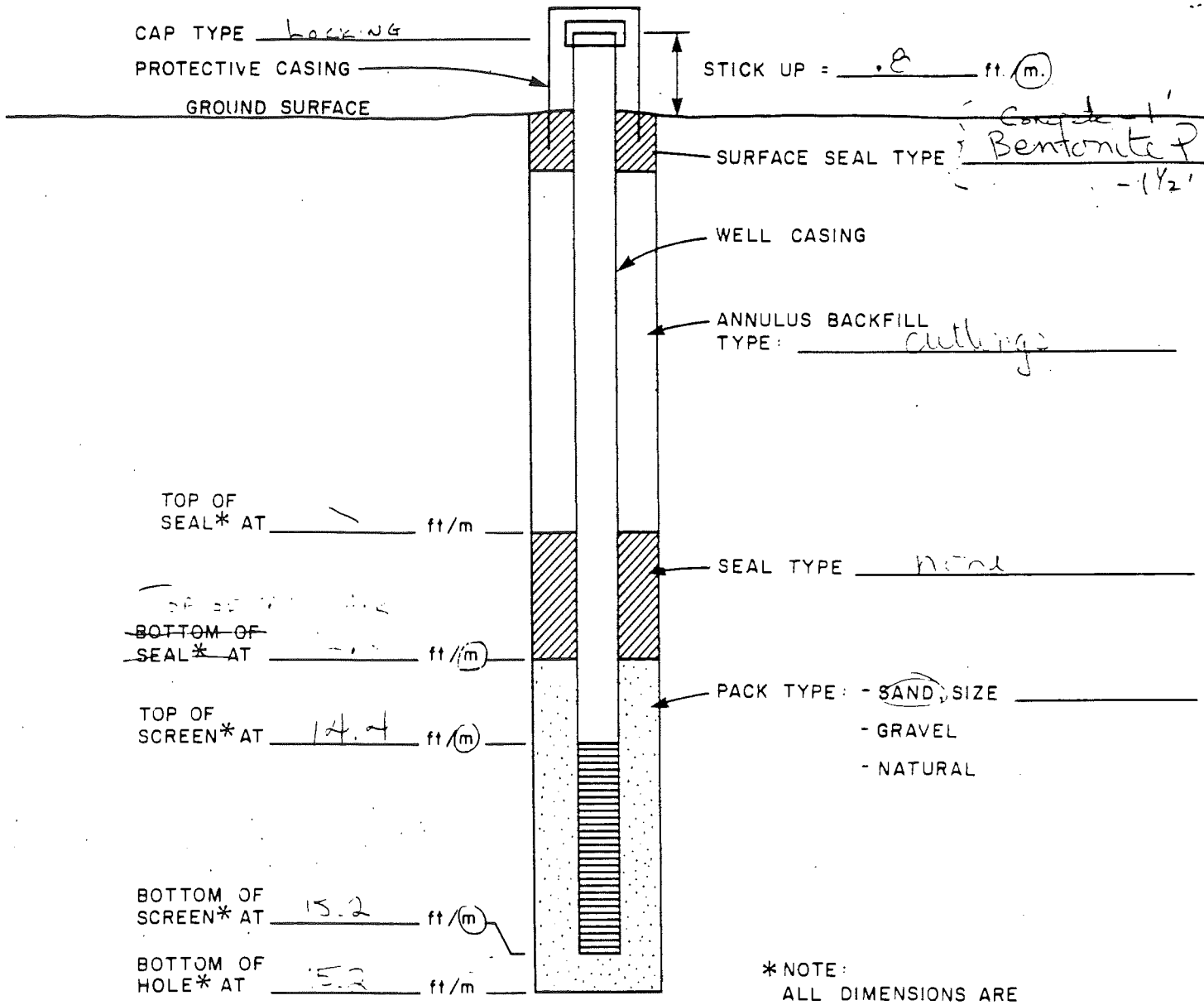
DEPTH OR ELEVATION (ft/m) FROM	AT	TO	SAMPLE #	SAMPLING METHOD	PENETRATION RECORD SPLIT SPOON BLOWS 6"	6"	6"	6"	RECOVERED LENGTH	SAMPLE DESCRIPTION (COMPONENTS, COLOUR, MOISTURE, NATIVE/FILL)	NOTES (STRUCTURES, DRILLER'S COMMENTS, GEOLOGIC CLASSIFICATION)
0		15								Cover Soil (no sample)	
15		38								Refuse	
38		45								Silty clay, red (no sample)	
45		50								Weathered shale	
	50									-100 Blows - 5"	
										Weathered shale	end of hole

000618

WELL INSTRUMENTATION LOG

PROJECT NAME: Bayview Landfill Site
PROJECT Nº: 1354
CLIENT: City of Burlington
LOCATION: Burlington, Ont

HOLE DESIGNATION: LW4-86
DATE COMPLETED: Jan 8 | 86
DRILLING METHOD: HSA
CRA SUPERVISOR: Bob Mauzer



SCREEN TYPE: ☐ continuous slot ☒ perforated ☐ louvre ☐ other:

SCREEN MATERIAL: ☐ stainless steel ☒ plastic ☐ other:

SCREEN LENGTH: ft/m SCREEN DIAMETER: 2 in/cm SCREEN SLOT SIZE: #10

WELL CASING MATERIAL: PVC WELL CASING DIAMETER: 2 in

HOLE DIAMETER: 8"

DEVELOPMENT METHOD: DURATION:

STRATIGRAPHY LOG (OVERBURDEN)

SHEET NO. 1 OF 1

PROJECT NAME Bayview Landfill
PROJECT NUMBER 1354
CLIENT City of Burlington
LOCATION Burlington, Ont.

DRILLING CONTRACTOR Atcost Soil Drilling
DRILLER
SURFACE ELEVATION 161.172 m AMSL
WEATHER (a.m.)
(p.m.)

HOLE DESIGNATION LW5-86
DATE STARTED Jan. 8/86
DATE COMPLETED Jan. 8/86
DRILLING METHOD HSA
CRA SUPERVISOR Bob Mayberry

DEPTH OR ELEVATION (ft/m) FROM	AT	TO	SAMPLE #	SAMPLE METHOD	PENETRATION RECORD SPLIT SPOON BLOWS 6"	6"	6"	6"	RECOVERY LENGTH	SAMPLE DESCRIPTION (COMPONENTS, COLOUR, MOISTURE, NATIVE/FILL)	NOTES (STRUCTURES, DRILLER'S COMMENTS, GEOLOGIC CLASSIFICATION)
0		7								Cover soil, clayey (no sample)	
7		22								Refuse	
22		30								Silty clay, red-brown (no sam)	
	30			SS	88					Weathered shale	end of hole

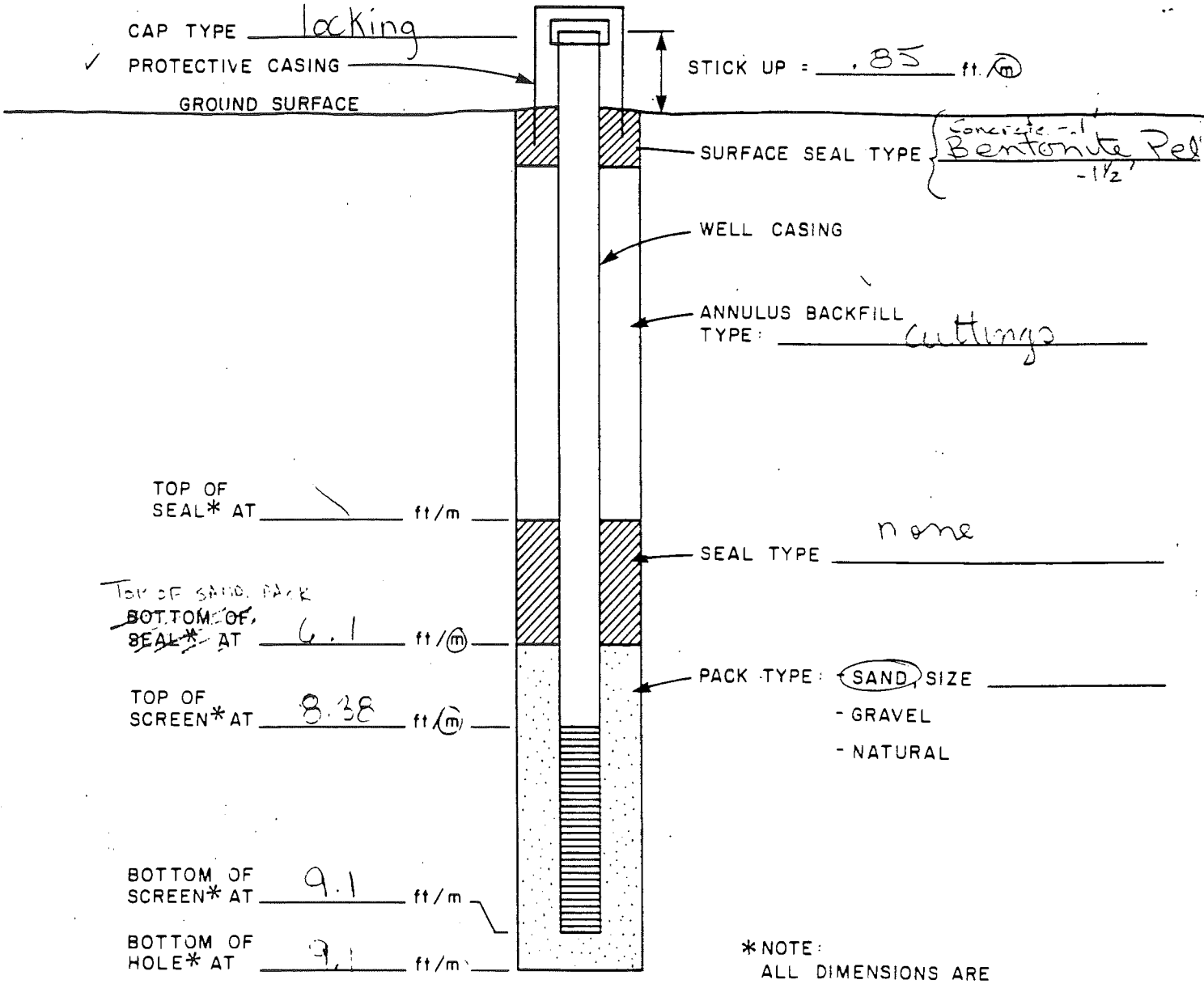
000620

2/05/85

WELL INSTRUMENTATION LOG

PROJECT NAME: Bayview Landfill Site
PROJECT Nº: 1354
CLIENT: City of Burlington
LOCATION: Burlington, Ont.

HOLE DESIGNATION: LW5-86
DATE COMPLETED: Jan 8 | 86
DRILLING METHOD: HSA
CRA SUPERVISOR: Bob Mayberry



SCREEN TYPE: ☐ continuous slot ☒ perforated ☐ louvre ☐ other:

SCREEN MATERIAL: ☐ stainless steel ☒ plastic ☐ other:

SCREEN LENGTH: ft/m SCREEN DIAMETER: 2 in/cm SCREEN SLOT SIZE: #10

WELL CASING MATERIAL: PVC WELL CASING DIAMETER: 2 in/

HOLE DIAMETER: 6"

DEVELOPMENT METHOD: DURATION: 1 hr.

000621

STRATIGRAPHY LOG (OVERBURDEN)

SHEET NO. 1 OF 1

PROJECT NAME Bayview Landfill
PROJECT NUMBER 1354
CLIENT City of Burlington
LOCATION Burlington, Ont.

DRILLING CONTRACTOR Atcost Soil Drilling
DRILLER
ELEVATION 168.44 ±
WEATHER (a.m.)
(p.m.)

HOLE DESIGNATION LW6-86
DATE STARTED Jan. 9/86
DATE COMPLETED Jan 9/86
DRILLING METHOD HSA
CRA SUPERVISOR Bob Mayberry

DEPTH OR ELEVATION (ft/m) FROM	AT	TO	SAMPLE #	SAMPLING METHOD	PENETRATION RECORD SPLIT SPOON BLOWS 6"	6"	6"	6"	RECOVERY LENGTH	SAMPLE DESCRIPTION (COMPONENTS, COLOUR, MOISTURE, NATIVE/FILL)	NOTES (STRUCTURES, DRILLER'S COMMENTS, GEOLOGIC CLASSIFICATION)
0		10								Cover soil (no sample)	
10		21								Refuse	
21		30								Silty clay, red (no sample)	
30		35								Weathered shale	
	35									- 100 Blows - 7"	
										- Weathered shale	end of hole

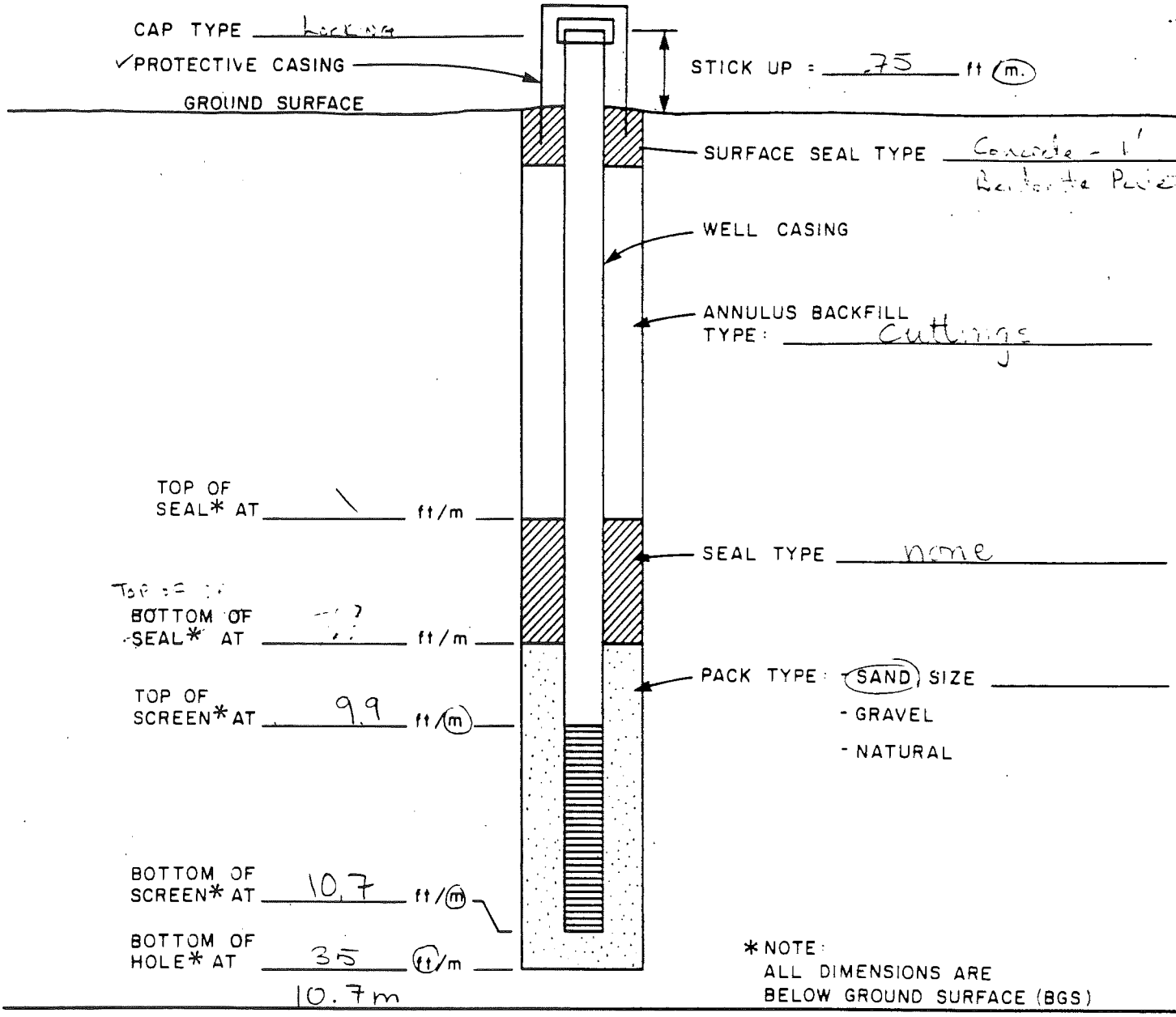
000622

2/05/85

WELL INSTRUMENTATION LOG

PROJECT NAME: Bayview Landfill Site
PROJECT Nº: 1354
CLIENT: City of Burlington
LOCATION: Burlington, Ont

HOLE DESIGNATION: LW6-86
DATE COMPLETED: 9 Jan /86
DRILLING METHOD: HSA
CRA SUPERVISOR: Bob Mayberry



SCREEN TYPE: ☐ continuous slot ☒ perforated ☐ louvre ☐ other:

SCREEN MATERIAL: ☐ stainless steel ☒ plastic ☐ other:

SCREEN LENGTH: ft/(m) SCREEN DIAMETER: 2 (in)/cm SCREEN SLOT SIZE: #10

WELL CASING MATERIAL: PVC WELL CASING DIAMETER: 2 (in)/

HOLE DIAMETER: 8"

DEVELOPMENT METHOD: DURATION: 4 hrs

000623

SPT (N) Value ○ ○ □
Dynamic Cone Test ——
Sheiby Tube ● ●
Field Vane Test + s
Lab Vane Test c

Plastic and Liquid Limit —o
Undrained Triaxial at Overburden Pressure 0 / 15 ⊕ 5 / 10
% Strain at Failure
Penetrometer ▲

Project: HALTON EPA STUDY
SITE F. BURLINGTON
Hole location and datum see drawing No 1

Dwg No 1
Borehole No HC 4-85
Project No T 6600-HY

GWL	SYMBOL	Soil Description	ELEV m	DEPTH m
		RED SHALE with occasional mottled or bands of GREEN SHALE moderately weathered vertical fractures to ∿ 6m. Horizontal partings 50 to 100 mm apart.	137.40	0
		Refusal	131.30	6

Notes: Borehole advanced to 6.1m. Bedrock cored from 6.1m to 30.8m. See corresponding sheets. Continuous split barrel sampling.

Shear Strength (ASTM D1558 CSA A119.1) kPa
20 40 60 80

Natural Moisture Content %
Atterberg Limits
Dry Weight
10 20 30

0 2 3 4 5 6 7 8 9 10

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 137.40	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 26/85	Completed: SEPT 28/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 4-85 | Sheet 1 of 6 | Project No. T 5500-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No / CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	5.5																
	6.0																
131.30			Shale-unweathered to highly weathered; very low strength to 30.8 m. Very close to wide spacing. The roughness of the fracture plane varies from rough undulating to smooth planar.	1	B	F	C	SP	T	O				1 95	69	HQ	
	6.5		Dipping joints at: 8.7-8.9 m, 9.75-10.0 m, 12.2-12.6 m, 16.1-16.2 m, 16.5-16.6 m, 23.55-24.0 m, 29.2-29.3 m.				C/M										
	7.0		Vertical joints at 16.9-77.1 m, 25.0-25.3 m, 26.6-27.8 m, 28.5, 30.1-30.8 m.														
	7.5		Dipping and vertical joints at 17.1-17.5 m, 30.0 - 30.1 m.														
			Reddish brown to greyish green, mottled in sections.														
	8.0		Ground up core/possible.														
			Fracture zones at 10.0-10.1 m, 10.5-10.6 m, 10.7-10.72 m, 11.9 - 11.92 m, 16.9-17.1 m, 23.5-23.55 m, 27.6-27.61 m, 27.9-28.4 m, 28.5-28.9 m, 28.95-29.2 m, 29.8- 29.81 m, 30.0-30.01 m.				VC/M	RP/SP/SU							
	8.5		Clay/mud/seams at 10.7 m.	2	B/J	F/D	C/VC	RP									
			Vugs/gypsum filled vugs and fracture zone surface coatings at 6.6-8.7 m, 12.6-14.2 m, 16.5-16.9 m, 17.1-17.93 m, 18.6-21.7 m, 24.6-24.7 m, 25.3-26.6 m, 28.5-28.9 m, 29.3-29.8 m.	1	B	F	C/M	SP						2 83	76	HQ	
	9.0																
	9.5			2	B/J	F/D	C										
	10.0			1	B	F	C/VC	RP									
	10.5						C										

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 137.40	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 26/85	Completed: SEPT 28/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 4-85

Sheet 2 of 6

Project No. T 6600-HY

1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No / CORE RECOVERY %	16 R Q D %	17 CORE SIZE/CASING	18 WATER RECOVERY,	19 LEVEL & TESTS
	10.5			1	B	F	VC	RP	T	O								
	11.0						M	SP										
								RP										
	11.5																	
							C	SP										
	12.0																	
	12.5			2	B/J	F/D	C/VC	RU						3 98	59			
				1	B	F	C/M	RP										
	13.0																	
	13.5																	
	14.0																	
	14.5																	
							VC											
	15.0						C											
							VC											
	15.5						C/M	RU										

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 137.40	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 26/85	Completed: SEPT 28/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No: HC 4-85

Sheet 3 of 6

Project No.: T 5600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No / CORE RECOVERY %	ROD %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

15.5
16.0
16.5
17.0
17.5
18.0
18.5
19.0
19.5
20.0
20.5

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 137.40	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 26/85	Completed: SEPT 28/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 4-85 | Sheet 4 of 6 | Project No. T 5600-HY

1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No / CORE RECOVERY %	16 R Q D %	17 CORE SIZE/CASING	18 WATER RECOVERY, LEVEL & TESTS	19
	20.5			1	B	F	M/C	SP/SU	T	O								
	21.0																	
	21.5																	
							M/C	SP						5 89	57			
	22.0																	
	22.5																	
	23.0																	
	23.5						C/VC	SU/RP										
				2	G/J	F/D		SP										
	24.0			1	B	F	C											
	24.5						C/VC	RP										
				4	B/J	F/V	C	SU						7 98	87			
	25.0			2		F/V	C/VC	RU/SU										
	25.5			1	B	F	M/C	SP										

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 137.40	Datum: GEODETIC	Borehole No: HC 4-85	
Location: SITE F, BURLINGTON	Date Started: SEPT 26/85	Completed: SEPT 28/85	Logged By: J.R. EVANS	Sheet: 5 of 6	
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No: T 5600-HY	

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No / CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

25.5
26.0
26.5
27.0
27.5
28.0
28.5
29.0
29.5
30.0
30.5

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 137.40	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 26/85	Completed: SEPT 28/85	Logged By: L.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 4-85

Sheet 6 of 6

Project No. T 5600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No / CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	30.5			2	B/J	F/V	C/M	SP/RU	O	T							
106.90			Borehole terminated at 30.80 m														
	31.0																

Remarks

SPT 'N' Value ○ ○ □
Dynamic Cone Test ——
Shelby Tube ● ●
Field Vane Test +s
Lab Vane Test L

Plastic and Liquid Limit ⊢○
Undrained Triaxial at Overburden Pressure 0 / 15 ⊕ 5
% Strain at Failure 10
Penetrometer ▲

Project HALTON EPA STUDY
SITE F. BURLINGTON

Dwg No 1
Borehole No HC 6-8
Project No T 6600

Hole location and datum see drawing No 1

GWL	Symbol	Soil Description	ELEV m
		CLAYEY SILT TILL: yellow brown highly weathered mottled, trace of gravel, organics and roots noted to 2.59m. Vertical fracturing noted from 1.07m to 4.88m. Horizontal fractures noted from 2.59 to 4.11m becoming greenish brown with depth.	127.78
		WEATHERED RED SHALE thinly bedded.	122.90
		GREEN SHALE, hard.	122.15
		REFUSAL	121.68

Notes: Borehole advanced to 6.10m. Bedrock cored from 30.80m. to 27.74m. See corresponding core sheets.

Continuous split barrel sampling.

DEPTH m

(ASTM D1586 CSA A119.1)
Shear Strength MPa
20 40 60 80

Natural Moisture Content and Atterberg Limits % Dry Weight

0 1 2 3 4 5 6 7 8 9 10

TL101r0

000631

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 127.78	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 22/85	Completed: SEPT 25/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC-6-85 | Sheet 1 of 6 | Project No. T 5600-HY

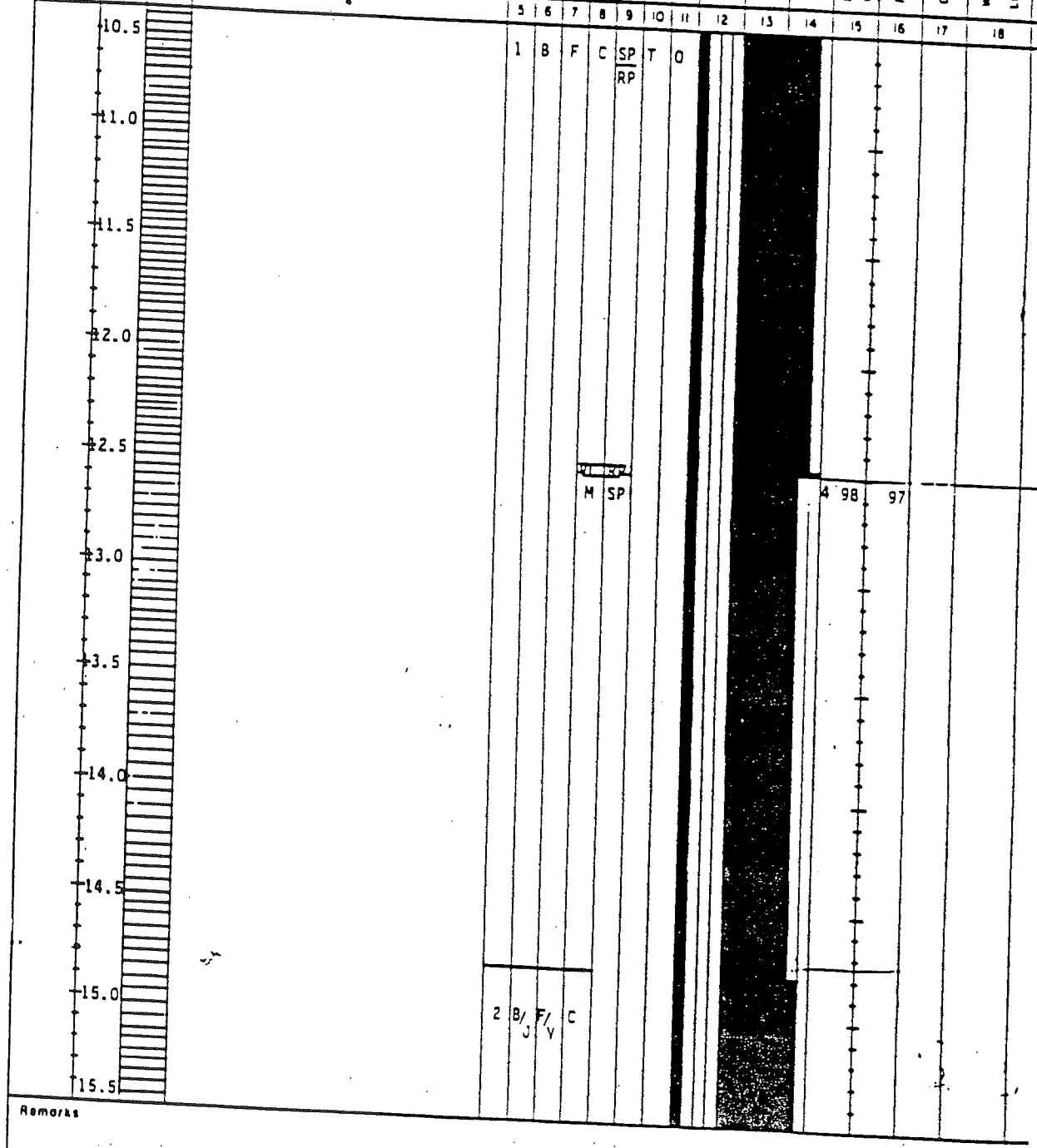
ELEVATION	(m) DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No / CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18 19
121.68	6.0																
	6.5		Shale-unweathered to highly weathered in sections. Unweathered below 15.5 m very low strength to 30.8 m.	1	B	F	VC/C	RP	T	O				1 66	33		
			Bedding spacing ranges from very close to moderate. The roughness of the fracture surface varies from slickensided planar to rough undulating.	2	B/J	F/V	C							2 93	63		
	7.0		Dipping joints at 7.3 - 7.4 m, 26.1 - 26.8 m, 27.2 - 27.7 m.	1	B	F	M	RP/LP									
			Vertical joints at 6.4 - 6.7 m, 7.4 - 8.2 m, 9.4 - 9.8 m, 14.8 - 15.5 m, 26.8 - 27.2 m.	2	B/J	F/V	C	LP									
	7.5		Reddish brown to greyish green, mottled in sections. Ground up core / possible.	1	B	F		RP									
	8.0		Fracture zones at 7.4 - 7.44 m, 8.2 - 8.23 m, 8.6 - 8.7 m, 16.9 - 17.0 m, 19.5 - 19.8 m, 20.6 - 20.64 m.	2	B/J	F/V	VC										
	8.5		Clay/mud seams at 19.5 m, 29.08 m, 29.11 m.				M										
			Gypsum coated fracture surface at 19.1 m.	1	B	F	C										
	9.0		Possible slickensides at 6.7 - 7.4 m, 8.9 - 9.0 m, 16.1 - 16.6 m, 17.0 - 18.0 m.				VC	LP/RP									
	9.5			2	B/J	F/V	C/VC	RP						3 94	98		
	10.0			1	B	F	C	SP									
	10.5							RP/SP									

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 127.78	Datum: GEODETIC	Borehole No.: HC 6-85
Location: SITE F, BURLINGTON	Date Started: SEPT 22/85	Completed: SEPT 25/85	Logged By: J.R. EVANS	Sheet 2 of
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No.: T 6600-HY



Remarks

CORE LOG

Traw Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 127.78	Datum: GEODETIC	Borehole No: HC 6-85
Location: SITE F, BURLINGTON	Date Started: SEPT 22/85	Completed: SEPT 25/85	Logged By: J.R. EVANS	Sheet 3 of 6
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No.: T 6600-HY

1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No / CORE RECOVERY %	16 R Q D %	17 CORE SIZE/CASING	18 WATER RECOVERY, LEVEL & TESTS	19
	15.5			1	B	F	C/M	SP	T	O				5 93	62			
	16.0						C	SP/LP										
	16.5																	
	17.0							SP										
								SP/LP										
	17.5																	
	18.0							SP										
	18.5																	
	19.0																	
	19.5						C/VC	SP/SU						6 96	50			
	20.0						C	SP										
	20.5							SP/SU										

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 127.78	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 22/85	Completed: SEPT 25/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 6-85

Sheet 4 of

Project No. T-5600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No / CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY / LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	20.5			1	B	F	C	SP	T	O							
								SU									
								SP									
	21.0						C/M										
	21.5																
							M	SP						7 99	93		
	22.0																
							VC	RU									
	22.5						M										
	23.0																
	23.5																
	24.0																
	24.5																
							M/C	SP						8 97	78		
	25.0																
	25.5																

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUOY	Orientation: VERTICAL	Collar Elevation: 127.78	Datum: GEODETIC	Borehole No.: HC 6-85	
Location: SITE F, BURLINGTON	Date Started: SEPT 22/85	Completed: SEPT 25/85	Logged By: J.R. EVANS	Sheet: 5 of 6	
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No.: T 6600-HY	

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No. OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No. / CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

25.5
26.0
26.5
27.0
27.5
28.0
28.5
29.0
29.5
30.0
30.5

1 B F M/C SP T O
C
2 B/J F/D M/C
C
C/VC
1 B F C
9 99 89
C
VC
VC SH
C/M SP

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 127.78	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 22/85	Completed: SEPT 25/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 6-85

Sheet 6 of 6

Project No. T 5600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
				1	B	F	C/M	SP	T	O							
96.82	31.0		Borehole terminated at 30.80 m													-	-

Remarks

SPT (N) Value ○ ○ □
Dynamic Cone Test ——
Shelby Tube ● ●
Field Vane Test
Lab Vane Test
Plastic and Liquid Limit
Undrained Triaxial at
Overburden Pressure
% Strain at Failure
Penetrometer ▲

Project HALTON EPA STUDY
SITE F. BURLINGTON
Borehole No HC 7-85
Project No T 6600-
Hole location and datum see drawing No 1

GWL	Symbol	Soil Description	ELEV m
		Sandy SILT TILL with occasional gravel, traces of organics and seams of fine sand.	130.86
		Greyish brown clayey SILT -TILL.	130.25
		REFUSAL	126.47

Notes: Borehole advanced to 4.39m. Bedrock cored from 4.39m. to 30.69m. See corresponding core sheets.

Continuous split spoon sampling.

Shear Strength (ASTM D1586 CRA A119.1) MPa

Natural Moisture Content and Atterberg Limits Dry Weight

TLOIrO

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 130.86	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 10/85	Completed: SEPT 13/85	Logged By: H. LOHSE/ J. EVANS/S. KHAN
Client: REGION OF HALTON	Drilling Agency: MASTER SOIL	Drill Type: CME 55	Core Barrel & Bit Design: HQ

Borehole No. HC-7-85 | Sheet 1 of | Project No. T 6600-HY

1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No. OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No. / CORE RECOVERY %	16 R Q D %	17 CORE SIZE/CASING	18 WATER RECOVERY, LEVEL & TESTS
	4.0																
126.47	4.5		Shale: unweathered to weathered (largely in first 2 m) very low strength to 30.69 m.	1	B	F	VC	RP	T	O							
			Bedding spacing ranges from very close to moderate and roughness of the fracture surface from rough planar to smooth planar.	2	B/C	F/V	C							1 71	47		
	5.0					F/D											
			Dipping joints - (m) 4.89-5.24, 6.44-6.65, 7.70-7.82, 8.04-8.14, 9.99-10.68, 11.25-11.37, 11.48-12.29, 21.79-22.09, 24.00-24.48, 30.13-30.27, 30.41-30.46 m.	3		F/V											
	5.5			Broken Core													
			Vertical Joints (m) 4.41-4.89, 5.24-5.37, 6.23-6.44, 6.85-6.95, 8.14-8.43, 9.65-9.99, 10.68-10.99, 12.29-12.37, 12.65-12.68, 13.84-14.47, 15.87-15.95, 17.13-17.30, 17.77-18.07, 19.46-19.53, 21.31-21.34, 22.71-22.73, 22.91-22.96, 23.69-23.77, 26.23-26.25 m.		B/C	F/D	C								
	6.0			Clay Seam													
			Flat, Vertical, Dipping Joints (m) 5.42-5.57, 22.28-22.71, 24.48-24.60, 28.53-26.68 m.	3	B/C	F/V								2 69	39		
	6.5			Broken Core													
			Reddish brown to greenish grey mottled in sections, ground up core possible fracture zone at 5.37-5.42, 6.30-6.35, 7.68-7.70, 7.02-7.84, 9.15-9.17, 13.16-13.18, 13.44-13.55, 15.48-15.99, 18.94-18.98, 21.31-21.34, 22.28-22.13, 22.96-23.22, 24.48-24.60, 26.23-26.25, 26.75-27.05 m.	3	B/C	F/V									
				2		F/D											
	7.0			1	B	F											
				2	B/C	F/V											
				1	B	F											
	7.5		Clay/mud seams - 5.57-6.23, 10.12-10.13 m.	Broken Core													
			Vugs/Gypsum filled vugs and fracture surface coatings at 4.39-5.42, 6.40-6.71, 6.99-7.09, 7.84-8.04, 8.14-8.33, 8.54-8.67, 10.99-11.62, 11.73-12.29, 12.37-12.92, 13.49-13.51 m.	2	B/	F/		RP						3 84	44		
				Broken Core													
	8.0			1	B	F											
				2	B/C	F/D		SP									
								RP									
	8.5		Fine Gravel and sand seams at 13.82-13.84, 13.93-13.94 m.	1	B	F	VC											
				-			C										
	9.00																

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 130.86	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 10/85	Completed: SEPT 13/85	Logged By: LOHSE/ J. EVANS/S. KHAN
Client: REGION OF HALTON	Drilling Agency: MASTER SOIL	Drill Type: CME 55	Core Barrel & Bit Design: HQ

Borehole No. HC-7-85

Sheet 2 of 6

Project No. T 5600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No. OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No.	CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		17	18 19
	9.0			1	B	F	C	RP	T	O								
				B	R	O	KE	N	CO	RE								
	9.5			1	G	F	C	RP	T	O								
							C											
				2	B/J	F/V	C/VC											
	10.0																	
					B/J	F/D												
	10.5					F/V	C											
							C/VC							5	81	55		
	11.0			1	B	F	C											
				2	B/J	F/D												
	11.5			1	R	F	VC											
							C											
				2	B/J	F/D												
	12.0																	
					B/C	F/	VC	RP						6	100	67		
	12.5			1	B	F	C	RP										
				2	B/C	F/V												
				1	B	F	VC											
	13.0						C											
							VC											
							C											
	13.5						VC											
							C											
	14.0			2	B/C	F/V		RU	T	O								

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 130.86	Datum: GEODETIC	Borehole No.: HC-7-85
Location: SITE F, BURLINGTON	Date Started: SEPT 10/85	Completed: SEPT 13/85	Logged By: LOHSE/ J. EVANS/S. KHAN	Sheet: 3 of
Client: REGION OF HALTON	Drilling Agency: MASTER SOIL	Drill Type: CME 55	Core Barrel & Bit Design: HQ	Project No.: 6600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No. OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No. / CORE RECOVERY %	RQD %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

14.0
14.5
15.0
15.5
16.0
16.5
17.0
17.5
18.0
18.5
19.0

7 98 93

8 92 88

9 100 71

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 130.86	Datum: GEODETIC	Borehole No.: HC-7-85
Location: SITE F, BURLINGTON	Date Started: SEPT 10/85	Completed: SEPT 13/85	Logged By: LOHSE/ J. EVANS/S. KHAN	Sheet 4 of 6
Client: REGION OF HALTON	Drilling Agency: MASTER SOIL	Drill Type: CME 55	Core Barrel & Bit Design: HQ	Project No.: T 5600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No	CORE RECOVERY %	R.Q.D. %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		17	18	19

19.0
19.5
20.0
20.5
21.0
21.5
22.0
22.5
23.0
23.5
24.0

10 100 100

11 75 40

12 82 40

Remarks

CORE LOG

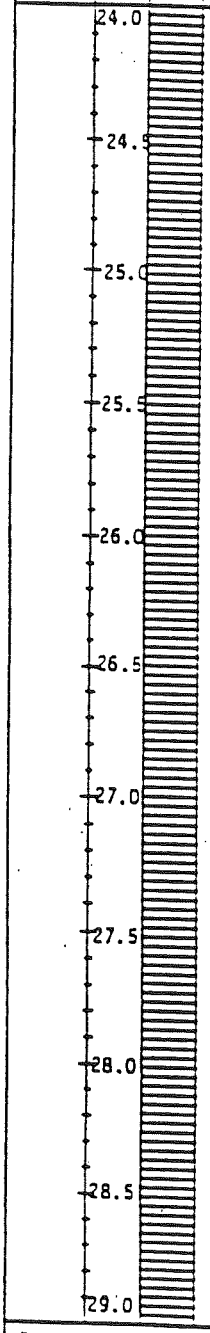
Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 130.86	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 10/85	Completed: SEPT 13/85	Logged By: H. LOHSE/ D. EVANS/S. KHAN
Client: REGION OF HALTON	Drilling Agency: MASTER SOIL	Drill Type: CME 55	Core Barrel & Bit Design: HQ

Borehole No. HC-7-85

Sheet 5 of 6

Project No. T 6600-HY



1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No / CORE RECOVERY %	16 RQD %	17 CORE SIZE/CASING	18 WATER RECOVERY, LEVEL & TESTS
				2		F/O	VC	RP									
				3	B/J	F/O/								13 100	93		
				1	B	F	C	SP									
							M										
							C	SP/RP									
				2	B/c	F/V	VC	RP						14 84	31		
				1	B	F	C										
							VC										
							C										
							VC										
							C										
							M	SP						15 61	60		
				3	B/G	F/O/	VC	RP									
				1	B	F	M	SP									

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 130.86	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 10/85	Completed: SEPT 13/85	Logged By: H. LOHSE/ J. EVANS/S. KHAN
Client: REGION OF HALTON	Drilling Agency: MASTER SOIL	Drill Type: CME 55	Core Barrel & Bit Design: HQ

Borehole No. HC-7-85 | Sheet 6 of 6 | Project No. T 6600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No. OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No. / CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18 19
	29.0																
	29.5						C	RP SP						16 100	95		
	30.0			2		F/ D	C VC	RP							30		
	30.5			1 1		F F	C VC										
100.17			Borehole terminated at 30.69 m														
	31.0																

Remarks

SPT 'N' Value ○ ○ □ | Plastic and Liquid Limit ——o | Project: HALTON EPA STUDY | Date No 1

Dynamic Cone Test —— | Undrained Triaxial at Overburden Pressure 0 / 15 ⊕ 5 / 10 | SITE F. BURLINGTON | Borehole No HC 9-8

Shelby Tube ● ● | % Strain at Failure

Field Vane Test +s | Penetrometer ▲ | Project No T 6600

Lab Vane Test L | Hole location and datum see drawing No 1

GWL	SYMBOL	Soil Description	ELEV m
		TOPSOIL dark reddish brown	105.58
		CLAY TILL red brown thin silt seams to 1.5m, trace of gravel, vertical fractures, some mottling at depth.	105.43
		FINE to MEDIUM INTERBEDDED SAND yellow brown with some clay layers.	102.50
		RED BROWN CLAY interbedded with silt and sand	101.40
		MEDIUM RED BROWN SAND and fine gravel.	101.31
		GRAVEL TILL with reddish brown silty sand matrix.	101.16
		FINE to MEDIUM SAND bedded loose trace of gravel.	
		SAND TILL some clay lumps and gravel.	99.86
		RED BROWN SHALE BOULDER.	99.48
		RED BROWN CLAY TILL.	99.18
		YELLOW BROWN CLAY SILT TILL trace of gravel.	98.94
		GREY BROWN CLAY SILT TILL with gravel and trace of sand.	97.96
		Refusal	96.48

9.12 m

Notes: Borehole advanced to 9.10 m. Bedrock cored from 9.10 m to 30.90 m.

See corresponding core sheets

See Grain Size Curves

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 105.58	Datum: GEODETIC	Borehole No.: HC 9-85
Location: SITE F, BURLINGTON	Date Started: OCT 9/85	Completed: OCT 15/85	Logged By: I. D. EVANS	Sheet: 1 of 5
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No.: T 6600-HY

ELEVATION	(m) DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No	CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		17	18	19
95.48	9.0																	
	9.5		Shale - slightly to moderately weathered, very low strength to 30.9 m. Bedding spacing ranges from very close to wide and the roughness of the fracture plane from rough undulating to smooth planar. Dipping joints at 9.2 - 9.4 m, 11.6 - 11.9 m, 15.7 - 15.9 m, 28.1 - 28.2 m. Vertical joints at 9.1 - 9.2 m, 9.4 - 9.6 m, 17.2 - 17.3 m, 19.6 - 20.3 m, 23.85 23.9 m, 24.3 - 24.5 m. Reddish brown to greyish green, mottled in sections. Ground up core / fracture zone at 9.6 - 9.7 m, 15.9 - 16.0 m, 17.1 m, 18.9 - 18.92 m, 24.8 - 24.85 m, 27.0 - 27.5 m, 30.8 m. Clay/mud seams at 9.1 - 9.2 m. Gypsum coated fracture zone at 16.5 m, 17.3 m, 19.6 m, 20.9 m.	2	B/ J	F/ D	C/ VC	PR	SC	T			1	89	28			
	10.0			1	B	F	C/ VC	RU/ SU	O	T				2	92	73		
	10.5						C/	SU										
	11.0																	
	11.5			2	B/ J	F/ D	C	SP	O	T								
	12.0			1	B	F	C	RU/ SU	O	T								
	12.5													3	99	89		
	13.0						VC C	SB										
	13.5																	

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 105.58	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: OCT 9/85	Completed: OCT 15/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 9-85

Sheet 2 of 5

Project No. T 6600-HY

1 ELEVATION	2 DEPTH (m)	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No / CORE RECOVERY %	16 R Q D %	17 CORE SIZE/CASING	18 WATER RECOVERY, LEVEL & TESTS
	13.5			1	B	F	W	SP	T	O							
	14.0						C	5/8									
	14.5						C/M										
	15.0																
	15.5						C	SP						4 93	76		
	16.0			2	B/J	F/D											
				1	B	F											
	16.5																
	17.0							5/12									
				2	B/	F/V	VC	SP									
	17.5						M										
	18.0																
	18.5						C	RP									

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 105.58	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: OCT 9/85	Completed: OCT 15/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 9-85 | Sheet 1 of 5 | Project No. T 6600-HY

1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No / CORE RECOVERY %	16 R Q D %	17 CORE SIZE/CASING	18 WATER RECOVERY, LEVEL & TESTS	19
	18.5			1	B	F	C	RP	T	O								
							VC	SP/						5 92	92			
	19.0						C											
							C/	SP										
	19.5						M	SP										
				2	B/J	F/V												
	20.0																	
	20.5			1	B	F												
	21.0																	
	21.5																	
							C							6 100	80			
	22.0																	
	22.5																	
	23.0																	
	23.5																	

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 105.58	Datum: GEODETIC	Borehole No.: HC 9-85	
Location: SITE F, BURLINGTON	Date Started: OCT 9/85	Completed: OCT 15/85	Logged By: J.R. EVANS	Sheet: 4 of 5	
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No.: T 5600-HY	

ELEVATION	DEPTH (m)	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No. OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No. CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

23.5
1 B F C SP T O
24.0
2 B/ F/
1 B F
24.5
2 B/ F/
1 B F VC
25.0
C/M
7 95 91
25.5
C
26.0
26.5
M
27.0
D M
27.5
C
28.0
8 99 88
2 B/ F/
28.5
1 B F

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUOY	Orientation: VERTICAL	Collar Elevation: 105.58	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: OCT 9/85	Completed: OCT 15/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No.: HC 9-85

Sheet 5 of 5

Project No.: T 6600-HY

1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No. OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No / CORE RECOVERY %	16 R Q D %	17 CORE SIZE/CASING	18 WATER RECOVERY, LEVEL & TESTS	19
	28.5			1	B	F	C	SP	T	O								
	29.0																	
	29.5						C/M											
	30.0																	
							M											
	30.5																	
							C	RP										
74.64	31.0		Borehole terminated at 30.90 m															

Remarks

APPENDIX D

1994 MONITORING PROGRAM

CONESTOGA-ROVERS & ASSOCIATES
1994 SITE MONITORING SPECIFICATIONS

PROJECT: Bayview Park Landfill Site

PROJECT NO.: 1354-30

PROJECT MANAGER: Greg Ferraro

PROJECT COORDINATOR: Peter Hayes

MONITORING STAFF:

	RESPONSIBILITY
Roger Waller	Field Technician
John Duda	Field Technician
Rob Toth	Coordinator/Chemist QA/QC

LABORATORY USED: CAS, Novamann (Ontario) Ltd. (Mann)

AUTHORIZATION:

MONITORING EVENT	SIGNATURE	DATE
April		
July		
October		Oct 19/94

MONITORING PROGRAM DESCRIPTION
- surface water monitoring Section 1.0
- leachate level monitoring Section 2.0
- leachate collection monitoring Section 3.0
- off-Site groundwater monitoring Section 4.0
- leachate seep inspection Section 5.0

SPECIAL INSTRUCTION
- January event: water levels only
- April event:
- July event:
- **October event:**

REVISION:

DATE	REVISION
March 2, 1994	review April '94 for monitoring event
June 2, 1994	review July '94 for monitoring event
June 13, 1994	HC4-3, HC6-2 and HC6-3 were destroyed since April 10, 1991. Add Escherichia Coli (E. Coli) coliform bacteria to SW analytical test.
Sep.9, 1994	review Oct'94 for monitoring event

1.0 SURFACE WATER MONITORING

1.1 Locations: 12 surface water: SW1-87, SW3-87, SW4-87, SW5-87, SW6-87, SW7-87, SW8-87, SW9-87, SW10-87, SW11-87, SW12-87, SW13-88

sample locations	12
duplicates	1
field Blank	1
Total	14

(additional trip blank for VOCs)

1.2 Monitoring Frequency:

Semiannually: April, after significant rainfall (wet weather sampling) July (dry weather sampling), if July sampling event is dry then surface water samples will be collected in October

1.3 Types of Monitoring

1. measure flow rate accurately at each location using flow meter and record as L/sec or gpm

2. sampling:

VOCs	see Table A.1
General Chemistry	field pH, field conductivity, alkalinity, chloride, sulfate, TKN, ammonia-N, phenols
Bacteria	total coliforms, fecal coliforms, fecal streptococci, E. Coli coliforms

3. laboratory detection limit for ammonia must be less than 0.02mg/l

2.0 LEACHATE WELL MONITORING

2.1 Location: 6 Leachate Wells LW1, LW2, LW3, LW4, LW5, LW6

2.2 Monitoring Frequency:

Twice per year: April and July

2.3 Types of Monitoring

1. measure depth with plopper (sound) of each leachate well
2. monitor leachate level in each well

3.0 LEACHATE COLLECTION SYSTEM MONITORING

3.1 Location: 2 Manholes MH15 and MH14

Sample location	1 (MH15 only)
Field blank	1

(additional trip blank for VOCs in October only)

3.2 Monitoring Frequency:

Two times per year for leachate quality at MH15: April and October

3.3 Types of Monitoring

1. Sampling (at MH15):

General chemistry	see Table A.1, includes Field pH and Field Conductivity
Metals & Cyanide	see Table A.1
VOCs	see Table A.1
BNAEs	see Table A.1
Pesticides & PCBs	see Table A.1

NOTE: Attached parameter list (Table A.1) must be followed with no emissions.

4.0 OFF-SITE GROUNDWATER MONITORING

4.1 APRIL - WET WEATHER MONITORING EVENT

4.1.1 Locations:

11 Groundwater	PW1, PW3, HC4-2, HC4-3, HC4-4, HC6-2, HC6-3, HC7-1, HC7-2 HC9-2, HC9-3

General chemistry	
Sample locations	11
Duplicates	2 (one each of PW series and HC series)
Field Blank	1
Total	14
VOCs	
Sample locations	2 (PW1, PW3)
Duplicate	1
Total	3

4.1.2 Monitoring Frequency:

APRIL, after significant rainfall

4.1.3 Types of Monitoring

1. measure well depth and water level at each well

2. pump PW1 and PW3 for a minimum of 5 (five) hours (keck pump or well wizard purge pump may be used)

- sample PW1 and PW3, after pumping

3.	Sampling:	General Chemistry	field pH, field conductivity, alkalinity, TKN, ammonia-N, chloride
			phenol
		VOCs	see Table A.1 for VOC analyses

4.2 JULY - DRY WEATHER MONITORING EVENT

4.2.1 Locations:

11 Groundwater	PW1, PW3, HC4-2, HC4-4, HC7-1, HC7-2, HC9-2, HC9-3

General chemistry	
Sample locations	8
Duplicates	2 (one each of PW series and HC series)
Field Blank	1
Total	11

VOCs	
Sample locations	6 (2 PW series and 4 HC series wells)
Duplicate	2 (one each of PW series and HC series)
Field Blank	1
Total	9

4.2.2 Monitoring Frequency:

JULY, after significant dry period

4.2.3 Types of Monitoring

1. measure well depth and water level at each well

2. pump PW1 and PW3 for a minimum of 5 (five) hours (Keck pump or Well Wizard purge pump may be used)
   - sample PW1 and PW3 after pumping for VOCs and general chemistry

3. sample select HC series for VOCs, one well at each HC nest, wells to be sampled will be verified by Peter H. prior to monitoring event

4.	Sampling:	General Chemistry	field pH, field conductivity, alkalinity, TKN, ammonia-N, chloride
			phenol
		VOCs	see Table A.1 for VOC analyses

5.0 LEACHATE SEEP INSPECTION

5.1	Locations:	9 Leachate Seeps	LS1, LS2, LS3, LS4, LS5, LS6, LS7, LS8, LS9

5.2 Monitoring Frequency:

Four times per year: January, April, July and October

5.3 Types of Monitoring:

1. Identify and photograph any leachate seep that has re-occured
2. Estimate flow rate at the seep and report as L/sec or gpm
3. Complete leachate seep inspection sheets
4. Report any occurrences of leachate seeps immediately to Greg Ferraro or Peter Hayes.

6.0 BOTTLE REQUIREMENTS

Analytical Destination	Samples Analyzed	Test Parameters
a) April		
CAS	30 X 1000 mL	General Chemistry
	30 x 500 ml	Phenols
Mann	15 x bacteria kits	Bacteria
Mann	20 x 2 x 40 ml (+ 2 trip blanks)	VOCs
	2 x 500 ml	metals
	2 x 250 ml	mercury
	2 x 250 ml	cyanide
	2 x 1000 ml	BNAEs
	2 x 1000 ml	Pesticides & PCBs
b) July		
CAS	30 X 1000 mL	General Chemistry
	30 x 500 ml	Phenols
Mann	15 x bacteria kits	Bacteria
Mann	25 x 2 x 40 ml (+ 2 trip blanks)	VOCs
c) October		
CAS	2 x 1000 ml	General Chemistry
	2 x 500 ml	Phenols
Mann	3 x 2 x 40 ml	VOCs
	2 x 500 ml	metals
	2 x 250 ml	mercury
	2 x 250 ml	cyanide
	2 x 1000 ml	BNAEs
	2 x 1000 ml	Pesticides & PCBs

TABLE A.1
LEACHATE PARAMETER LIST
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

GENERAL CHEMISTRY (CAS)

Hardness	Alkalinity	Fluoride
Chloride	Sulfate	Phosphorous (total)
TKN	Ammonia-N	Phenols
BOD	COD	Suspended Solids

METALS & CYANIDE (Mann)

Aluminum (total)	Antimony (total)	Arsenic (total)
Barium (total)	Bismuth (total)	Cadmium (total)
Chromium (total)	Cobalt (total)	Copper (total)
Iron (total)	Lead (total)	Manganese (total)
Mercury (total)	Molybdenum (total)	Nickel (total)
Selenium (total)	Silver (total)	Tin (total)
Titanium (total)	Vanadium (total)	Zinc (total)
Cyanide (total)		

VOCs (Mann)

1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane
Benzene	Trichloroethylene	Toluene
Tetrachloroethylene	Ethylbenzene	Chlorobenzene
1,3-Dichlorobenzene	1,4-Dichlorobenzene	m + p-Xylene
o-Xylene		

BNAEs (Mann)

bis(2-ethylhexyl)Phthalate

PESTICIDES & PCBs (Mann)

Aldrin	Carbaryl	Chlordane (Alpha and Gamma)
DDT	Diazinon	Dieldrin
Endrin	Heptachlor	Heptachlor Epoxide
Lindane (Gamma BHC)	Methoxychlor	Methyl Parathion
Parathion (Ethyl Parathion)	Toxaphene	PCBs

APPENDIX E

LEACHATE DISCHARGE FLOW REPORTS FOR 1994

P Bauer → (1354 - 40)

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone:

Fax No.: 333-6143
333-5866

March 4, 1994

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

FROM OPS

MAR - 9 1994

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees
Regional Sanitary System
File: 760-04-1

as per conversation E. Verticchio Feb 16/95 CLS

During the period of January ~~11~~ 22, 1994 to March 3, 1994 inclusive the leachate discharge flow from the closed Bayview Landfill Site top the Regional Sanitary Sewer were as follows:

Location	Pump	Pump Hours	Rate (M3 Hr.)	Total Flow
Station 2	1	82.9	12.560	1,041.22
Station 2	2	95.4	12.560	~~1,195.71~~ 1198.22
Station 3	1	308.7	8.025	2,477.32
Station 3	2	337.1	8.025	2,705.23
Colleciton (M.H. 14)		-	-	17.63
TOTAL				~~7,437.11~~ 7439.62

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Manager of Contract and
Client Services

EV/lk
125-94
c.c. - R. Young, Director of Civic Operations
- V. Lesnicki, Manager of Industrial Waste & Sludge
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank, Maintenance Operations Supervisor

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone:

Fax No.: 333-6143
333-5866

April 12, 1994

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
P.O. Box 7000
Oakville, Ontario
L6J 6E1

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-04-1

During the period of March 4, 1994 to April 1, 1994 inclusive the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows:

Location	Pump	Pump Hours	Rate (M^3)	Total Flow
Station 2	1	105.3	12.560	1,322.56
Station 2	2	113.5	12.560	1,425.56
Station 3	1	410.5	8.025	3,294.26
Station 3	2	368.3	8.025	2,955.61
Collection (M.H. 14)				12.41
TOTAL				9,010.46

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly.

E. Verticchio,
Manager of Contract and
Client Services

EV/lk
c.c. - R. Young, Director of Civic Operations
- V. Lesnicki, Manager of Industrial Waste & Sludge
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank

Phil B →

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone:

Fax No.: 333-6143
333-5866

May 11, 1994

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
P.O. Box 7000
Oakville, Ontario
L6J 6E1

MAY 16 1994

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-04-1

During the period of April 2, 1994 to April 29, 1994 inclusive the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows:

Location	Pump	Pump Hours	Rate (M^3)	Total Flow
Station 2	1	125.1	12.560	1,571.25
Station 2	2	125.4	12.560	1,575.02
Station 3	1	295.9	8.025	2,374.59
Station 3	2	258.0	8.025	2,070.45
Collection (M.H. 14)				12.04
TOTAL				7,603.35

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly.

E. Verticchio,
Manager of Contract and
Client Services

EV/lk
c.c. - R. Young, Director of Civic Operations
- V. Lesnicki, Manager of Industrial Waste & Sludge
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank

1354-42

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

June 14, 1994

Mr.Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

JUN 0 1994

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-4-1

During the period April 30, 1994 to June 8, 1994 inclusive the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows:

Location	Pump #	Pump Hours	Rate (M^3/hr)	Total Flow
Station 2	1	179.5	12.560	2,254.52
Station 2	2	184.3	12.560	2,314.80
Station 3	1	200.9	8.025	1,612.22
Station 3	2	293.4	8.025	2,354.54
Collection (M.H., 14)				17.63
Total				8,553.71

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flor of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Manager of Contract and
Client Services

EV/lk
c.c. - R. Young, Director of Civic Operations
- V. Lesnicki, Manager of Industrial Waste & Sludge
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank

1354-40

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone:

Fax No.: 333-6143
333-5866

August 4, 1994

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

AUG 9 1994

Dear Sir:

Re: Bayview Park Landfill Site
Leachate Discharge Fees
Regional Sanitary System
File: 760-04

During the period of June 9, 1994 to August 2, 1994 inclusive the leachate discharge flow from the closed Bayview Park Landfill site to the Regional Sanitary Sewer were as follows:

LOCATION	PUMP	PUMP HOURS	RATE (m^3 Hr)	Total Flow
Station 2	1	176.8	12.560	2,220.60
Station 2	2	193.9	12.560	2,435.38
Station 3	1	211.5	8.025	1,697.28
Station 3	2	291.8	8.025	2,341.69
Collection (M.H. 14)				23.65
TOTAL				8,718.60

Estimates of flow volumes for the collector located at Manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Manager of Contract and
Client Services

EV/lk
501-94
c.c. - R. Young, Director of Civic Operations
- V. Lesnicki, Manager of Industrial Waste & Sludge
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank, Operations Supervisor

Phil → file
1354-4

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

September 6, 1994

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

Region of Halton
SEP 13 1994

Dear Sir:

Re: Bayview Park Landfill Site
Leachate Discharge Fees
Regional Sanitary System
File: 760-04

During the period of August 3, 1994 to September 1, 1994 inclusive the leachate discharge flow from the closed Bayview Park Landfill site to the Regional Sanitary Sewer were as follows:

LOCATION	PUMP	PUMP HOURS	RATE (m^3 Hr)	Total Flow
Station 2	1	84.8	12.560	1,065.08
Station 2	2	96.3	12.560	1,209.52
Station 3	1	78.4	8.025	629.16
Station 3	2	138.4	8.025	1,110.66
Collection (M.H. 14)				12.90
TOTAL				4,027.32

Estimates of flow volumes for the collector located at Manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Manager of Contract and
Client Services

EV/lk
554-94
c.c. - R. Young, Director of Civic Operations
- V. Lesnicki, Manager of Industrial Waste & Sludge
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank, Operations Supervisor

1354-40

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. B... Canada L7R 3Z6

3-6143
3-5866

ober 5, 1994

Mr. Michael Skora
Finance Analyst - Utili
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

Rec'd ORA

Dear Sir:

Re: Bayvi ...ill Site
Leachate Discharge Fees
Regional Sanitary System
File: 760-04

as per conversation w E. Verticchio Feb. 16/95 CLS

During the period of September ~~12~~ 2, 1994 to September 30, 1994 inclusive the leachate discharge flow from the closed Bayview Park Landfill site to the Regional Sanitary Sewer were as follows:

LOCATION	PUMP	PUMP HOURS	RATE (m^3 Hr)	Total Flow
Station 2	1	86	12.560	1,080.16
Station 2	2	244.7	12.560	3,073.43
Station 3	1	9.8	8.025	78.65
Station 3	2	175.1	8.025	1,405.18
Collection (M.H. 14)				12.47
TOTAL				5,649.89

Estimates of flow volumes for the collector located at Manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Manager of Contract and
Client Services

EV/lk
554-94
c.c. - R. Young, Director of Civic Operations
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank, Operations Supervisor

1354-40

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

December 6, 1994

Mr. Nichael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-4-1

During the period of October 1, 1994 to November 25, 1994 inclusive the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows:

LOCATION	PUMP	PUMP HOURS	RATE (m^3/hour)	TOTAL FLOW
Station 2	1	36.6	12.560	459.70
Station 2	2	-	12.560	-
Station 3	1	58.3	8.025	467.86
Station 3	2	31.5	8.025	252.79
Collection	(MH 14)	-	-	24.08
TOTAL				1,204.43

(Please note that the pump #2 in station #2 was down for repairs)

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Manager of Contract and
Client Services

EV/lk
783-94
c.c. - R. Young, Director of Maintenance Services
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

January 10, 1995

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
P.O. Box 7000
Oakville, Ontario
L6J 6E1

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-4-1

During the period November 26, 1994 to December 27, 1994 inclusive the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows:

Location	Pump	Pump Hours	Rate (M^3Hr)	Total Flow
Station 2	1	53.7	12.560	674.47
Station 2	2	30.7	12.560	385.59
Station 3	1	47.6	8.025	381.99
Station 3	2	47.5	8.025	381.19
Collection (M.H. 14)			-	14.19
TOTAL				1,837.43

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Manager of Contract and
Client Services

EV/lk
17-95
c.c. - R. Young
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank

APPENDIX F

LEACHATE SEEP INSPECTION SUMMARY REPORTS

1354
FIELD FILE

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

PROJECT NAME BAYVIEW PARK

PROJECT NUMBER 1354-30

DATE INSPECTED 04/19/94

INSPECTED BY Dan Dacm

LEACHATE SEEP 1

- condition of soil patch Patch moist to wet
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes ✓ no _____
  if yes, describe Patch was not moist
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

LEACHATE SEEP 2

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

LEACHATE SEEP 3

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

LEACHATE SEEP 4

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

LEACHATE SEEP 5

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point ___
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

LEACHATE SEEP 6

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point ___
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

LEACHATE SEEP 7

- condition of soil patch Patch moist to wet
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes ✓ no _____
  if yes, describe Patch was not moist
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

LEACHATE SEEP 8

- condition of soil patch Patch damp to moist
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes ✓ no _____
  if yes, describe Patch was not damp
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

LEACHATE SEEP 9

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

PROJECT NAME BAYVIEW PARK

PROJECT NUMBER 1354-30

DATE INSPECTED 07 07 94

INSPECTED BY Dan Daum

LEACHATE SEEP 1

- condition of soil patch Patch moist to wet
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes ✓ no _____
  if yes, describe Slight odour, Leachate
- change from previous inspection yes ✓ no _____
  if yes, describe Odour, Slight Sheen
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

LEACHATE SEEP 2

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

LEACHATE SEEP 3

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

LEACHATE SEEP 4

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

LEACHATE SEEP 5

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

LEACHATE SEEP 6

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

LEACHATE SEEP 7

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes ✓ no _____
  if yes, describe Patch was moist last ev
- photograph taken yes _____ no _____
- action required yes _____ no _____

LEACHATE SEEP 8

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes ✓ no _____
  if yes, describe Patch was moist last ev
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

LEACHATE SEEP 9

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

PROJECT NAME BAYVIEW PARK

PROJECT NUMBER 1354-30

DATE INSPECTED 101394

INSPECTED BY Dan Dawn

LEACHATE SEEP 1

- condition of soil patch Dry
- discharge observed yes ____ no ✓
  if yes, estimated flow ____ size of discharge point ____
- odour/gas emission yes ____ no ✓
  if yes, describe ____
- change from previous inspection yes ✓ no ____
  if yes, describe Patch was moist last time
- photograph taken yes ____ no ✓
- action required yes ____ no ✓

LEACHATE SEEP 2

- condition of soil patch Dry
- discharge observed yes ____ no ✓
  if yes, estimated flow ____ size of discharge point ____
- odour/gas emission yes ____ no ✓
  if yes, describe ____
- change from previous inspection yes ____ no ✓
  if yes, describe ____
- photograph taken yes ____ no ✓
- action required yes ____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

LEACHATE SEEP 3

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

LEACHATE SEEP 4

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

LEACHATE SEEP 5

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

LEACHATE SEEP 6

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

LEACHATE SEEP 7

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

LEACHATE SEEP 8

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

CONESTOGA-ROVERS AND ASSOCIATES LIMITED
LEACHATE SEEP INSPECTION

LEACHATE SEEP 9

- condition of soil patch Dry
- discharge observed yes _____ no ✓
  if yes, estimated flow _____ size of discharge point _____
- odour/gas emission yes _____ no ✓
  if yes, describe _____
- change from previous inspection yes _____ no ✓
  if yes, describe _____
- photograph taken yes _____ no ✓
- action required yes _____ no ✓

APPENDIX G

DATA BASE

APPENDIX G-1

SURFACE WATER

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 1(a)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Apr.'90
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DINITROPHENOL	-	ug/l	--	< 3.0	--	--	--	--	--	--	--
2-CHLOROPHENOL	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
2-NITROPHENOL	0.5p	ug/l	--	< 5.0	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	< 5.0	--	--	--	--	--	--	--
4-NITROPHENOL	48p	ug/l	--	< 5.0	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
PENTACHLOROPHENOL	0.5	ug/l	--	< 2.0	--	--	--	--	--	--	--
PHENOL	5p	ug/l	--	< 3.0	--	--	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	4p	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,6-DINITROTOLUENE	3p	ug/l	--	< 2.0	--	--	--	--	--	--	--
2-CHLORONAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
9H-FLUORENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ACENAPHTHENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ACENAPHTHYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ANTHRACENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 1(b)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Apr.'90
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(A)PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	14.2	--	--	--	--	--	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	3.4	--	--	--	--	--	--	--
CHRYSENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	14.3	--	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIETHYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
FLUORANTHENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
ISOPHORONE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	< 3.0	--	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	< 4.0	--	--	--	--	--	--	--
NAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
NITROBENZENE	0.02p	ug/l	--	< 1.0	--	--	--	--	--	--	--
PHENANTHRENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

689000

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 1(c)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Apr.'90
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
METALS											
IRON	0.300	mg/l	0.70	0.05	0.13	0.10	< 0.02	0.04	--	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	58	6	930	400	< 1	< 1	500	440	10
FAECAL STREPTOCOCCI	-	/100ml	4	600	4,900	1,100	10	60	82	1440	43
TOTAL COLIFORMS	-	/100ml	2100	27000	800,000	11,000	1100	210	1300	740	144
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	351	580	786	367	338	362	322	133	267
AMMONIA NITROGEN	0.020	mg/l	4.20	14.50	35.00	5.03	0.04	0.03	< 0.02	< 0.02	< 0.03
CHLORIDE	-	mg/l	--	220	497	54	12	8.95	14.0	20.0 J	7.0
CONDUCTIVITY	-	umhos/cm	--	1386	2900	581	840	810	650	380	586
DOC	-	mg/l	39.0	25.0	38.0	12.0	3.0	2.0	--	--	--
HARDNESS	-	mg/l	535	845	962	518	434	493	--	--	--
KJELDAHL NITROGEN	-	mg/l	4.60	15.20	41.00	3.60	0.44	0.29	0.07	0.36 J	< 0.06
NITRATE	-	mg/l	2.40	1.31	70.00	< 0.01	0.07	0.02	--	--	--
NITRITE	-	mg/l	0.010	0.166	0.480	0.004	0.017	0.003	--	--	--
PH	6.5-8.5		--	8.10	7.42	7.95	6.35	6.48	7.53	7.56	7.90
PHENOLS	1	ug/l	< 2.0	< 2.0	19.0	< 2.0	< 2.0	< 2.0	5	< 1	< 1
SULFATE	-	mg/l	128	145	195	130	140	125	112	22.4 J	130
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	< 0.020	--	--	--	--	--	--	--

069000

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 1(d)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Apr.'90
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
4,4-DDE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
4,4-DDT	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
ALDRIN	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
BETA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
BETA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
DELTA-BHC	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
DIELDRIN	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
ENDRIN	0.002	ug/l	--	< 0.010	--	--	--	--	--	--	--
GAMMA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
GAMMA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
HEPTACHLOR	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	< 0.020	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 0.010	--	--	--	--	--	--	--
METHOXYCHLOR	0.04	ug/l	--	< 0.020	--	--	--	--	--	--	--
MIREX	0.001	ug/l	--	< 0.020	--	--	--	--	--	--	--
OXYCHLORDANE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
TOTAL PCB	-	ug/l	--	< 0.050	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 2	--	--
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	< 1.0	--	--	--	< 1.0	< 2	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
1,1-DICHLOROETHANE	200	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 1(e)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Apr.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
1,2-DICHLOROETHANE	100	ug/l	--	< 1.0	--	--	--	< 1.0	< 2	--	--
1,2-DICHLOROPROPANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	TR	--	--	--	< 1.0	< 1	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	--	< 10	--	--
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	--	< 1	--	--
BENZENE	100p	ug/l	--	< 0.5	--	--	--	< 0.5	< 1	--	--
BROMOFORM	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 2	--	--
BROMOMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	< 16	--	--
CARBON TETRACHLORIDE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 2	--	--
CHLOROBENZENE	15	ug/l	--	< 0.5	--	--	--	< 0.5	< 1	--	--
CHLOROETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	< 10	--	--
CHLOROFORM	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1.0	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	--
ETHYLBENZENE	8p	ug/l	--	2.4	--	--	--	--	< 1	--	--
M&P-XYLENE	-	ug/l	--	8.7	--	--	--	< 0.5	< 2	--	--
MESITYLENE	-	ug/l	--	--	--	--	--	--	< 1	--	--
METHYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	--	< 50	--	--
METHYLENE CHLORIDE	-	ug/l	--	2.3	--	--	--	--	11	--	27 UJ
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	--	< 1	--	--
O-XYLENE	40p	ug/l	--	4.4	--	--	--	< 0.5	< 1	--	--
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	--	< 1	--	--
TETRACHLOROETHYLENE	50	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 1(f)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Apr.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TOLUENE	0.8p	ug/l	--	14.3	--	--	--	< 0.5	< 2	--	--
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	< 1.0	--	--
TRICHLOROETHYLENE	20	ug/l	--	< 1.0	--	--	--	< 1.0	< 1	--	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	< 2	--	--
VINYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	< 2.0	< 12	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 2(a)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Apr.'91	Apr.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	Apr.'94	Jul.'94	SW2-87 Mar.'86	May.'86
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,4-DICHLOROPHENOL	0.2	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,4-DIMETHYL PHENOL	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,4-DINITROPHENOL	-	ug/l	--	--	--	--	--	--	--	--	< 3.0
2-CHLOROPHENOL	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
2-NITROPHENOL	0.5p	ug/l	--	--	--	--	--	--	--	--	< 5.0
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	--	--	--	--	--	--	--	< 5.0
4-NITROPHENOL	48p	ug/l	--	--	--	--	--	--	--	--	< 5.0
P-CHLORO-M-CRESOL	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
PENTACHLOROPHENOL	0.5	ug/l	--	--	--	--	--	--	--	--	< 2.0
PHENOL	5p	ug/l	--	--	--	--	--	--	--	--	< 3.0
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	--	--	--	--	--	31.0
2,4-DINITROTOLUENE	4p	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,6-DINITROTOLUENE	3p	ug/l	--	--	--	--	--	--	--	--	< 2.0
2-CHLORONAPHTHALENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
3,3'-DICHLOROBENZIDINE	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
9H-FLUORENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
ACENAPHTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
ACENAPHTHYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
ANTHRACENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 2(b)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Apr.'91	Apr.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	Apr.'94	Jul.'94	SW2-87 Mar.'86	May.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
BENZO(A)ANTHRACENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(A)PYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(B)FLUORANTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(GHI)PERYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(K)FLUORANTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	17.7
BUTYL BENZYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	6.4
CHRYSENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DI-N-BUTYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	13.8
DI-N-OCTYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DIETHYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	13.4
DIMETHYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	5.4
FLUORANTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROBUTADIENE	0.07p	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
ISOPHORONE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	--	--	--	--	--	--	--	< 3.0
N-NITROSODIPHENYLAMINE	-	ug/l	--	--	--	--	--	--	--	--	< 4.0
NAPHTHALENE	-	ug/l	--	--	--	--	--	--	--	--	4.0
NITROBENZENE	0.02p	ug/l	--	--	--	--	--	--	--	--	< 1.0
PHENANTHRENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 2(c)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Apr.'91	Apr.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	Apr.'94	Jul.'94	SW2-87 Mar.'86	May.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
METALS											
IRON	0.300	mg/l	--	--	--	--	--	--	--	53.00	11.30
BIOLOGICAL TESTING											
ESCHERICHIA COLI	-	/100ml	--	--	--	--	--	--	> 1600	--	--
FAECAL COLIFORM	-	/100ml	90	--	6 (a)	< 1	< 1 (a)	31	> 1600	4	< 1
FAECAL STREPTOCOCCI	-	/100ml	384	--	37 (a)	320	< 1 (a)	22	> 1600	< 1	24
TOTAL COLIFORMS	-	/100ml	180	--	6 (a)	14	< 1 (a)	140	> 1600	300	20
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	219	--	192	342	268	275	137	1560	2080
AMMONIA NITROGEN	0.020	mg/l	< 0.03	--	0.06	0.03	0.09	0.19	0.01	81.00	138.00
CHLORIDE	-	mg/l	14.4	--	18.1	17.4	24.9	7.10	7.27	--	849
CONDUCTIVITY	-	umhos/cm	453	--	377	1500	450	600	400	--	4200
DOC	-	mg/l	--	--	--	--	--	--	--	80.0	110.0
HARDNESS	-	mg/l	--	--	--	--	--	--	--	1160	1320
KJELDAHL NITROGEN	-	mg/l	< 0.06	--	0.15	0.42	0.23	0.47	1.21	137.00	150.00
NITRATE	-	mg/l	--	--	--	--	--	--	--	0.02	< 0.01
NITRITE	-	mg/l	--	--	--	--	--	--	--	< 0.002	< 0.002
PH	6.5-8.5		7.5	--	7.70	8.05	8.38	8.3	7.9	--	6.94
PHENOLS	1	ug/l	< 1	--	< 1	< 1.0	< 1.0	< 1	< 1	< 2.0	17.9
SULFATE	-	mg/l	51.1	--	64.7	91.9	70.2	70.7	76.3	< 5	< 5

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 2(d)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Apr.'91	Apr.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	Apr.'94	Jul.'94	SW2-87 Mar.'86	May.'86
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDD	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDE	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDT	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
ALDRIN	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.010
ALPHA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
ALPHA-CHLORDANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
ALPHA-ENDOSULFAN	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
BETA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
BETA-ENDOSULFAN	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
DELTA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
DIELDRIN	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.010
ENDOSULFAN SULFATE	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
ENDRIN	0.002	ug/l	--	--	--	--	--	--	--	--	< 0.010
GAMMA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
GAMMA-CHLORDANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
HEPTACHLOR	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.020
HEPTACHLOR EPOXIDE	0.001	ug/l	--	--	--	--	--	--	--	< 0.010	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	--	--	--	--	--	< 0.020
METHOXYCHLOR	0.04	ug/l	--	--	--	--	--	--	--	--	< 0.020
MIREX	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.020
OXYCHLORDANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.050
TOTAL PCB	-	ug/l	--	--	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1	< 1	--	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	--	< 2.0	--	--	--	< 1.0
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	--	< 2.0	--	--	--	< 1.0

000697

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 2(e)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Apr.'91	Apr.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	Apr.'94	Jul.'94	SW2-87 Mar.'86	May.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHANE	200	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1	< 1	--	< 1.0
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	< 1.0	--	--	--	1.0
1,2-DICHLOROETHANE	100	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1	< 1	--	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1	< 1	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1	< 1	--	48.3
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	< 10	--	--	--	--
BENZENE	100p	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	16.1
BROMOFORM	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 1.0
BROMOMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0
CARBON TETRACHLORIDE	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
CHLOROBENZENE	15	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	124.5
CHLOROETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0
CHLOROFORM	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 1.0
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
ETHYLBENZENE	8p	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	1.1
M&P-XYLENE	-	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	9.9
METHYL CHLORIDE	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0
METHYLENE CHLORIDE	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
O-XYLENE	40p	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	2.4
TETRACHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--	< 1.0
TOLUENE	0.8p	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	6.1
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0

869000

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 2(f)

COMPOUND (by Class)	MOE Obj.	Units	SW1-87 Apr.'91	Apr.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	Apr.'94	Jul.'94	SW2-87 Mar.'86	May.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRICHLOROETHYLENE	20	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1	< 1	--	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0
VINYL CHLORIDE	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0

669000

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 3(a)

COMPOUND (by Class)	MOE Obj.	Units	SW2-87 Aug.'86	SW2-87 Nov.'86	SW3-87 Mar.'86	SW3-87 May.'86	SW3-87 Aug.'86	SW3-87 Nov.'86	SW4-87 Mar.'86	SW4-87 May.'86	SW4-87 Aug.'86
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
2,4-DIMETHYL PHENOL	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
2,4-DINITROPHENOL	-	ug/l	--	--	--	< 3.0	--	--	--	< 3.0	--
2-CHLOROPHENOL	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
2-NITROPHENOL	0.5p	ug/l	--	--	--	< 5.0	--	--	--	< 5.0	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	--	--	< 5.0	--	--	--	< 5.0	--
4-NITROPHENOL	48p	ug/l	--	--	--	< 5.0	--	--	--	< 5.0	--
P-CHLORO-M-CRESOL	-	ug/l	--	--	--	< 5.0	--	--	--	< 5.0	--
PENTACHLOROPHENOL	0.5	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
PHENOL	5p	ug/l	--	--	--	< 3.0	--	--	--	< 3.0	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	--	--	< 5.0	--	--	--	< 5.0	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	< 1.0	--	--	--	1.1	--
2,4-DINITROTOLUENE	4p	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
2,6-DINITROTOLUENE	3p	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
2-CHLORONAPHTHALENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	--	--	< 5.0	--	--	--	< 5.0	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
9H-FLUORENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
ACENAPHTHENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
ACENAPHTHYLENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
ANTHRACENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 3(b)

COMPOUND (by Class)	MOE Obj.	Units	SW2-87 Aug.'86	SW2-87 Nov.'86	SW3-87 Mar.'86	SW3-87 May.'86	SW3-87 Aug.'86	SW3-87 Nov.'86	SW4-87 Mar.'86	SW4-87 May.'86	SW4-87 Aug.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	--	--	< 5.0	--	--	--	< 5.0	--
BENZO(A)ANTHRACENE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
BENZO(A)PYRENE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
BENZO(B)FLUORANTHENE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
BENZO(GHI)PERYLENE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
BENZO(K)FLUORANTHENE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	--	--	25.3	--	--	--	25.8	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	--	--	8.6	--	--	--	8.1	--
CHRYSENE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	--	--	26.8	--	--	--	16.1	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
DIETHYL PHTHALATE	-	ug/l	--	--	--	16.3	--	--	--	15.3	--
DIMETHYL PHTHALATE	-	ug/l	--	--	--	< 2.0	--	--	--	6.2	--
FLUORANTHENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
HEXACHLOROETHANE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
ISOPHORONE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	--	--	< 3.0	--	--	--	< 3.0	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	--	--	< 4.0	--	--	--	< 4.0	--
NAPHTHALENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
NITROBENZENE	0.02p	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
PHENANTHRENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 3(c)

COMPOUND (by Class)	MOE Obj.	Units	SW2-87 Aug.'86	SW2-87 Nov.'86	SW3-87 Mar.'86	SW3-87 May.'86	SW3-87 Aug.'86	SW3-87 Nov.'86	SW4-87 Mar.'86	SW4-87 May.'86	SW4-87 Aug.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
METALS											
IRON	0.300	mg/l	6.60	13.00	3.10	0.15	0.65	0.17	2.1	0.71	0.25
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	< 1	< 1	2	< 1	50	< 1	< 1	< 1	90
FAECAL STREPTOCOCCI	-	/100ml	< 1	60	2	52	610	490	2	110	1200
TOTAL COLIFORMS	-	/100ml	16000	29000	3600	7000	600000	15000	42000	2100	180000
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	1710	1570	965	866	1770	1220	1800	1830	1890
AMMONIA NITROGEN	0.020	mg/l	180.00	221.00	50.00	105.00	170.00	160.00	98.00	83.00	170.00
CHLORIDE	-	mg/l	797	660	--	841	471	596	--	834	769
CONDUCTIVITY	-	umhos/cm	4800	2340	--	3920	6000	2100	--	4420	5150
DOC	-	mg/l	68.0	70.0	27.0	90.0	70.0	35.0	40.0	75.0	46.0
HARDNESS	-	mg/l	890	1120	1070	1220	1170	989	1540	1420	1140
KJELDAHL NITROGEN	-	mg/l	183.00	148.00	51.00	108.00	174.00	77.00	129.00	130.00	179.00
NITRATE	-	mg/l	0.88	< 0.01	1.60	1.04	0.68	< 0.01	0.07	0.92	1.66
NITRITE	-	mg/l	< 0.002	< 0.002	0.014	< 0.002	< 0.002	< 0.002	0.004	< 0.002	0.002
PH	6.5-8.5		6.77	6.79	--	7.58	7.48	7.44	--	7.50	7.26
PHENOLS	1	ug/l	24.3	< 2.0	< 2.0	< 2.0	21.1	< 2.0	< 2.0	< 2.0	35.2
SULFATE	-	mg/l	< 5	< 5	95	135	100	125	< 5	< 5	65
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	--	--	< 0.020	--	--	--	< 0.020	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 3(d)

COMPOUND (by Class)	MOE Obj.	Units	SW2-87 Aug.'86	SW2-87 Nov.'86	SW3-87 Mar.'86	SW3-87 May.'86	SW3-87 Aug.'86	SW3-87 Nov.'86	SW4-87 Mar.'86	SW4-87 May.'86	SW4-87 Aug.'86
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	--	--	< 0.020	--	--	--	< 0.020	--
4,4-DDE	-	ug/l	--	--	--	< 0.020	--	--	--	< 0.020	--
4,4-DDT	-	ug/l	--	--	--	< 0.020	--	--	--	< 0.020	--
ALDRIN	0.001	ug/l	--	--	--	< 0.010	--	--	--	< 0.010	--
ALPHA-BHC	-	ug/l	--	--	--	< 0.010	--	--	--	< 0.010	--
ALPHA-CHLORDANE	-	ug/l	--	--	--	< 0.010	--	--	--	< 0.010	--
ALPHA-ENDOSULFAN	-	ug/l	--	--	--	< 0.020	--	--	--	< 0.020	--
BETA-BHC	-	ug/l	--	--	--	< 0.010	--	--	--	< 0.010	--
BETA-ENDOSULFAN	-	ug/l	--	--	--	< 0.020	--	--	--	< 0.020	--
DELTA-BHC	-	ug/l	--	--	--	< 0.020	--	--	--	< 0.020	--
DIELDRIN	0.001	ug/l	--	--	--	< 0.010	--	--	--	< 0.010	--
ENDOSULFAN SULFATE	-	ug/l	--	--	--	< 0.020	--	--	--	< 0.020	--
ENDRIN	0.002	ug/l	--	--	--	< 0.010	--	--	--	< 0.010	--
GAMMA-BHC	-	ug/l	--	--	--	< 0.010	--	--	--	< 0.010	--
GAMMA-CHLORDANE	-	ug/l	--	--	--	< 0.010	--	--	--	< 0.010	--
HEPTACHLOR	0.001	ug/l	--	--	--	< 0.010	--	--	--	< 0.010	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	--	--	< 0.020	--	--	--	< 0.020	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	< 0.010	--	--	--	< 0.010	--
METHOXYCHLOR	0.04	ug/l	--	--	--	< 0.020	--	--	--	< 0.020	--
MIREX	0.001	ug/l	--	--	--	< 0.020	--	--	--	< 0.020	--
OXYCHLORDANE	-	ug/l	--	--	--	< 0.020	--	--	--	< 0.020	--
TOTAL PCB	-	ug/l	--	--	--	< 0.050	--	--	--	< 0.050	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
1,1-DICHLOROETHANE	200	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 3(e)

COMPOUND (by Class)	MOE Obj.	Units	SW2-87 Aug.'86	SW2-87 Nov.'86	SW3-87 Mar.'86	SW3-87 May.'86	SW3-87 Aug.'86	SW3-87 Nov.'86	SW4-87 Mar.'86	SW4-87 May.'86	SW4-87 Aug.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
1,2-DICHLOROETHANE	100	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	< 1.0	--	--	--	1.0	--
BENZENE	100p	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	--
BROMOFORM	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
BROMOMETHANE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
CARBON TETRACHLORIDE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
CHLOROBENZENE	15	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	--
CHLOROETHANE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
CHLOROFORM	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
ETHYLBENZENE	8p	ug/l	--	--	--	0.5	--	--	--	TR	--
M&P-XYLENE	-	ug/l	--	--	--	1.8	--	--	--	1.3	--
METHYL CHLORIDE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--
METHYLENE CHLORIDE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
O-XYLENE	40p	ug/l	--	--	--	1.1	--	--	--	0.7	--
TETRACHLOROETHYLENE	50	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
TOLUENE	0.8p	ug/l	--	--	--	3.0	--	--	--	2.1	--
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
TRICHLOROETHYLENE	20	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 3(f)

COMPOUND (by Class)	MOE Obj.	Units	SW2-87 Aug.'86	SW2-87 Nov.'86	SW3-87 Mar.'86	SW3-87 May.'86	SW3-87 Aug.'86	SW3-87 Nov.'86	SW4-87 Mar.'86	SW4-87 May.'86	SW4-87 Aug.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
VINYL CHLORIDE	-	ug/l	--	--	--	< 2.0	--	--	--	< 2.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 4(a)

COMPOUND (by Class)	MOE Obj.	Units	SW4-87 Nov.'86	SW4-87 Apr.'93	SW5-87 Mar.'86	SW5-87 May.'86	SW5-87 Aug.'86	SW5-87 Nov.'86	SW5-87 Mar.'87	SW5-87 May.'88	SW5-87 Aug.'88
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	--	--	< 2.0	--	--	--	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	--	--	< 2.0	--	--	--	--	--
2,4-DIMETHYL PHENOL	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
2,4-DINITROPHENOL	-	ug/l	--	--	--	< 3.0	--	--	--	--	--
2-CHLOROPHENOL	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
2-NITROPHENOL	0.5p	ug/l	--	--	--	< 5.0	--	--	--	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	--	--	< 5.0	--	--	--	--	--
4-NITROPHENOL	48p	ug/l	--	--	--	< 5.0	--	--	--	--	--
P-CHLORO-M-CRESOL	-	ug/l	--	--	--	< 5.0	--	--	--	--	--
PENTACHLOROPHENOL	0.5	ug/l	--	--	--	< 2.0	--	--	--	--	--
PHENOL	5p	ug/l	--	--	--	< 3.0	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	< 1.0	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	--	--	< 5.0	--	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	--	--	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	< 1.0	--	--	--	--	--
2,4-DINITROTOLUENE	4p	ug/l	--	--	--	< 2.0	--	--	--	--	--
2,6-DINITROTOLUENE	3p	ug/l	--	--	--	< 2.0	--	--	--	--	--
2-CHLORONAPHTHALENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	--	--	< 5.0	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
9H-FLUORENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
ACENAPHTHENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
ACENAPHTHYLENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
ANTHRACENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 4(b)

COMPOUND (by Class)	MOE Obj.	Units	SW4-87 Nov.'86	SW4-87 Apr.'93	SW5-87 Mar.'86	SW5-87 May.'86	SW5-87 Aug.'86	SW5-87 Nov.'86	SW5-87 Mar.'87	SW5-87 May.'88	SW5-87 Aug.'88
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	--	--	< 5.0	--	--	--	--	--
BENZO(A)ANTHRACENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BENZO(A)PYRENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BENZO(B)FLUORANTHENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BENZO(GHI)PERYLENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BENZO(K)FLUORANTHENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	--	--	19.0	--	--	--	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	--	--	2.8	--	--	--	--	--
CHRYSENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
DIETHYL PHTHALATE	-	ug/l	--	--	--	8.2	--	--	--	--	--
DIMETHYL PHTHALATE	-	ug/l	--	--	--	4.6	--	--	--	--	--
FLUORANTHENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	< 1.0	--	--	--	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	--	--	< 1.0	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
HEXACHLOROETHANE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
ISOPHORONE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	--	--	< 3.0	--	--	--	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	--	--	< 4.0	--	--	--	--	--
NAPHTHALENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
NITROBENZENE	0.02p	ug/l	--	--	--	< 1.0	--	--	--	--	--
PHENANTHRENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 4(c)

COMPOUND (by Class)	MOE Obj.	Units	SW4-87 Nov.'86	SW4-87 Apr.'93	SW5-87 Mar.'86	SW5-87 May.'86	SW5-87 Aug.'86	SW5-87 Nov.'86	SW5-87 Mar.'87	SW5-87 May.'88	SW5-87 Aug.'88
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	--	--	< 2.0	--	--	--	--	--
METALS											
IRON	0.300	mg/l	0.14	--	1.35	0.11	0.14	0.03	< 0.02	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	70	< 1 (a)	14	14	98	60	< 1	60	1300
FAECAL STREPTOCOCCI	-	/100ml	60	< 1 (a)	8	180	340	90	10	< 1	370
TOTAL COLIFORMS	-	/100ml	5500	< 1 (a)	4700	2200	83000	500	830	440	3900
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	1580	240	397	677	657	428	566	637	448
AMMONIA NITROGEN	0.020	mg/l	174.00	0.12	0.63	1.25	0.64	1.81	0.99	< 0.02	< 0.02
CHLORIDE	-	mg/l	485	35.1	--	242	228	90	157	560	130
CONDUCTIVITY	-	umhos/cm	2100	490	--	1670	1880	668	1585	2050	1245
DOC	-	mg/l	65.0	--	7.5	14.0	12.5	5.0	8.0	--	--
HARDNESS	-	mg/l	1280	--	550	840	688	610	664	--	--
KJELDAHL NITROGEN	-	mg/l	101.00	0.32	1.45	1.64	1.05	0.97	1.69	0.70	0.40
NITRATE	-	mg/l	< 0.01	--	0.52	0.40	0.76	< 0.01	0.43	--	--
NITRITE	-	mg/l	< 0.002	--	0.012	0.130	0.030	0.016	0.030	--	--
PH	6.5-8.5		7.11	7.92	--	7.63	7.11	7.45	6.38	7.30	7.35
PHENOLS	1	ug/l	< 2.0	< 1.0	11.5	17.9	12.1	< 2.0	24.6	7	< 1
SULFATE	-	mg/l	< 5	85.1	110	100	80	125	110	93.8	87.8
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	--	--	< 0.020	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 4(d)

COMPOUND (by Class)	MOE Obj.	Units	SW4-87 Nov.'86	SW4-87 Apr.'93	SW5-87 Mar.'86	SW5-87 May.'86	SW5-87 Aug.'86	SW5-87 Nov.'86	SW5-87 Mar.'87	SW5-87 May.'88	SW5-87 Aug.'88
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
4,4-DDE	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
4,4-DDT	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
ALDRIN	0.001	ug/l	--	--	--	< 0.010	--	--	--	--	--
ALPHA-BHC	-	ug/l	--	--	--	< 0.010	--	--	--	--	--
ALPHA-CHLORDANE	-	ug/l	--	--	--	< 0.010	--	--	--	--	--
ALPHA-ENDOSULFAN	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
BETA-BHC	-	ug/l	--	--	--	< 0.010	--	--	--	--	--
BETA-ENDOSULFAN	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
DELTA-BHC	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
DIELDRIN	0.001	ug/l	--	--	--	< 0.010	--	--	--	--	--
ENDOSULFAN SULFATE	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
ENDRIN	0.002	ug/l	--	--	--	< 0.010	--	--	--	--	--
GAMMA-BHC	-	ug/l	--	--	--	< 0.010	--	--	--	--	--
GAMMA-CHLORDANE	-	ug/l	--	--	--	< 0.010	--	--	--	--	--
HEPTACHLOR	0.001	ug/l	--	--	--	< 0.010	--	--	--	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	--	--	< 0.020	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	< 0.010	--	--	--	--	--
METHOXYCHLOR	0.04	ug/l	--	--	--	< 0.020	--	--	--	--	--
MIREX	0.001	ug/l	--	--	--	< 0.020	--	--	--	--	--
OXYCHLORDANE	-	ug/l	--	--	--	< 0.020	--	--	--	--	--
TOTAL PCB	-	ug/l	--	--	--	< 0.050	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 2	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	< 2.0	--	< 1.0	--	--	--	< 2	< 1.0
1,1,2-TRICHLOROETHANE	800	ug/l	--	< 2.0	--	< 1.0	--	--	--	< 1	< 1.0
1,1-DICHLOROETHANE	200	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 1	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 4(e)

COMPOUND (by Class)	MOE Obj.	Units	SW4-87 Nov.'86	SW4-87 Apr.'93	SW5-87 Mar.'86	SW5-87 May.'86	SW5-87 Aug.'86	SW5-87 Nov.'86	SW5-87 Mar.'87	SW5-87 May.'88	SW5-87 Aug.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 1	< 1.0
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	< 1.0	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 1	< 1.0
1,2-DICHLOROETHANE	100	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 2	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 1	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 1	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	--	3.4	--	--	--	< 1	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	< 10	--	--	--	--	--	< 10	--
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	--	--	< 1	--
BENZENE	100p	ug/l	--	< 0.5	--	< 0.5	--	--	--	< 1	< 0.5
BROMOFORM	-	ug/l	--	< 2.0	--	< 1.0	--	--	--	< 2	< 1.0
BROMOMETHANE	-	ug/l	--	< 2.0	--	< 2.0	--	--	--	< 16	< 2.0
CARBON TETRACHLORIDE	-	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 2	< 1.0
CHLOROBENZENE	15	ug/l	--	< 0.5	--	< 0.5	--	--	--	< 1	< 0.5
CHLOROETHANE	-	ug/l	--	< 2.0	--	< 2.0	--	--	--	< 10	< 2.0
CHLOROFORM	-	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 1	< 1.0
CIS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	--	--	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 1	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	--	< 2.0	--	< 1.0	--	--	--	< 1	< 1.0
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	--	--	--	--	< 2.0
ETHYLBENZENE	8p	ug/l	--	< 0.5	--	1.2	--	--	--	< 1	< 0.5
M&P-XYLENE	-	ug/l	--	< 0.5	--	5.2	--	--	--	< 2	< 0.5
MESITYLENE	-	ug/l	--	--	--	--	--	--	--	< 1	--
METHYL CHLORIDE	-	ug/l	--	< 2.0	--	< 2.0	--	--	--	< 50	< 2.0
METHYLENE CHLORIDE	-	ug/l	--	< 1.0	--	< 1.0	--	--	--	11	< 1.0
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	--	--	< 1	--
O-XYLENE	40p	ug/l	--	< 0.5	--	2.9	--	--	--	< 1	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	--	--	< 1	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 4(f)

COMPOUND (by Class)	MOE Obj.	Units	SW4-87 Nov.'86	SW4-87 Apr.'93	SW5-87 Mar.'86	SW5-87 May.'86	SW5-87 Aug.'86	SW5-87 Nov.'86	SW5-87 Mar.'87	SW5-87 May.'88	SW5-87 Aug.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TETRACHLOROETHYLENE	50	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 1	< 1.0
TOLUENE	0.8p	ug/l	--	< 0.5	--	2.6	--	--	--	2.6	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 1	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 1.0	< 1.0
TRICHLOROETHYLENE	20	ug/l	--	< 1.0	--	< 1.0	--	--	--	< 1	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	--	< 2.0	--	--	--	< 2	< 2.0
VINYL CHLORIDE	-	ug/l	--	< 2.0	--	< 2.0	--	--	--	< 12	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 5(a)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Apr.'94	Jul.'94	SW6-87 Mar.'86
METALS											
IRON	0.300	mg/l	--	--	--	--	--	--	--	--	0.30
BIOLOGICAL TESTING											
ESCHERICHIA COLI	-	/100ml	--	--	--	--	--	--	--	540	--
FAECAL COLIFORM	-	/100ml	512	4	400	--	10	< 1 (a)	2	> 1600	18
FAECAL STREPTOCOCCI	-	/100ml	1440	128	102	--	240	< 1 (a)	22	> 1600	12
TOTAL COLIFORMS	-	/100ml	980	20	580	--	< 1	< 1 (a)	11	> 1600	940
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	135	371	223	204	568	340	439	300	255
AMMONIA NITROGEN	0.020	mg/l	< 0.02	0.52	< 0.03	< 0.03	0.03	0.14	< 0.01	0.03	0.47
CHLORIDE	-	mg/l	32.0 J	249	120	84.3	301	168	178	313	--
CONDUCTIVITY	-	umhos/cm	495	1378	716	593	3300	865	1500	1500	--
DOC	-	mg/l	--	--	--	--	--	--	--	--	7.0
HARDNESS	-	mg/l	--	--	--	--	--	--	--	--	425
KJELDAHL NITROGEN	-	mg/l	0.37 J	0.65	< 0.06	< 0.06	0.95	0.17	< 0.10	1.64	0.79
NITRATE	-	mg/l	--	--	--	--	--	--	--	--	0.48
NITRITE	-	mg/l	--	--	--	--	--	--	--	--	0.016
PH	6.5-8.5		7.53	7.52	7.5	7.52	7.66	8.05	7.6	7.9	--
PHENOLS	1	ug/l	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1	< 1	30.2
SULFATE	-	mg/l	103 J	134	451	106	108	90.3	114	72.4	118
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 0.50	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--
1,1,2,2-TETRACHLOROETHANE	70	ug/l	< 0.33	--	--	--	--	< 2.0	--	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	< 0.21	--	--	--	--	< 2.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 5(b)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Apr.'94	Jul.'94	SW6-87 Mar.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHANE	200	ug/l	< 0.20	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--
1,1-DICHLOROETHYLENE	40	ug/l	< 0.32	--	--	--	--	< 1.0	--	--	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	< 0.50	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	-	ug/l	< 0.18	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	< 0.24	--	--	--	--	< 1.0	--	--	--
1,2-DICHLOROETHANE	100	ug/l	< 0.82	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--
1,2-DICHLOROPROPANE	-	ug/l	< 0.20	--	--	--	--	< 1.0	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	< 0.23	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--
1,4-DICHLOROBENZENE	4	ug/l	< 0.22	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	< 10	--	--	--
BENZENE	100p	ug/l	0.19 U	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
BROMOFORM	-	ug/l	< 0.49	--	--	--	--	< 2.0	--	--	--
BROMOMETHANE	-	ug/l	< 0.83	--	--	--	--	< 2.0	--	--	--
CARBON TETRACHLORIDE	-	ug/l	< 0.93	--	--	--	--	< 1.0	--	--	--
CHLOROBENZENE	15	ug/l	< 0.27	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
CHLOROETHANE	-	ug/l	< 0.50	--	--	--	--	< 2.0	--	--	--
CHLOROFORM	-	ug/l	3.6 U	12.0 UJ	--	--	--	< 1.0	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 0.27	--	--	--	--	< 1.0	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	< 0.24	--	--	--	--	< 1.0	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	< 0.50	--	--	--	--	< 2.0	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	< 0.50	--	--	--	--	--	--	--	--
ETHYLBENZENE	8p	ug/l	< 0.24	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
M&P-XYLENE	-	ug/l	0.21 U	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
METHYL CHLORIDE	-	ug/l	0.72 U	--	--	--	--	< 2.0	--	--	--
METHYLENE CHLORIDE	-	ug/l	19.4 U	39.0 UJ	--	--	--	< 1.0	--	--	--
O-XYLENE	40p	ug/l	< 0.19	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
TETRACHLOROETHYLENE	50	ug/l	0.21 U	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--
TOLUENE	0.8p	ug/l	0.34 U	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	< 0.20	--	--	--	--	< 1.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 5(c)

COMPOUND (by Class)	MOE Obj.	Units	SW5-87 Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Apr.'94	Jul.'94	SW6-87 Mar.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	--	--	< 1.0	--	--	--
TRICHLOROETHYLENE	20	ug/l	< 0.92	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--
TRICHLOROFLUOROMETHANE	-	ug/l	0.26 U	--	--	--	--	< 2.0	--	--	--
VINYL CHLORIDE	-	ug/l	< 0.74	--	--	--	--	< 2.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 6(a)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 May.'86	Nov.'86	Mar.'87	May.'87	May.'88	Aug.'88	Nov.'89	Apr.'90	Apr.'91
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	< 2.0	--	--	--	--	--	--	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	< 2.0	--	--	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
2,4-DINITROPHENOL	-	ug/l	< 3.0	--	--	--	--	--	--	--	--
2-CHLOROPHENOL	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
2-NITROPHENOL	0.5p	ug/l	< 5.0	--	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	< 5.0	--	--	--	--	--	--	--	--
4-NITROPHENOL	48p	ug/l	< 5.0	--	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	-	ug/l	< 5.0	--	--	--	--	--	--	--	--
PENTACHLOROPHENOL	0.5	ug/l	< 2.0	--	--	--	--	--	--	--	--
PHENOL	5p	ug/l	< 3.0	--	--	--	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	< 1.0	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	< 1.0	--	--	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	< 5.0	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	--	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	--	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	4p	ug/l	< 2.0	--	--	--	--	--	--	--	--
2,6-DINITROTOLUENE	3p	ug/l	< 2.0	--	--	--	--	--	--	--	--
2-CHLORONAPHTHALENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	< 5.0	--	--	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
9H-FLUORENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
ACENAPHTHENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
ACENAPHTHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
ANTHRACENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 6(b)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 May.'86	Nov.'86	Mar.'87	May.'87	May.'88	Aug.'88	Nov.'89	Apr.'90	Apr.'91
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	< 5.0	--	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
BENZO(A)PYRENE	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	16.4	--	--	--	--	--	--	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	9.2	--	--	--	--	--	--	--	--
CHRYSENE	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	19.7	--	--	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
DIETHYL PHTHALATE	-	ug/l	17.0	--	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	-	ug/l	7.8	--	--	--	--	--	--	--	--
FLUORANTHENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	< 1.0	--	--	--	--	--	--	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	< 1.0	--	--	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
HEXACHLOROETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
ISOPHORONE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	< 3.0	--	--	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	< 4.0	--	--	--	--	--	--	--	--
NAPHTHALENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
NITROBENZENE	0.02p	ug/l	< 1.0	--	--	--	--	--	--	--	--
PHENANTHRENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 6(c)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 May.'86	Nov.'86	Mar.'87	May.'87	May.'88	Aug.'88	Nov.'89	Apr.'90	Apr.'91
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	< 2.0	--	--	--	--	--	--	--	--
METALS											
IRON	0.300	mg/l	0.02	< 0.02	< 0.02	0.06	--	--	--	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	1700	790	< 1	< 1	290	2000	940	140	110
FAECAL STREPTOCOCCI	-	/100ml	1400	1600	10	270	400	590	720	91	184
TOTAL COLIFORMS	-	/100ml	33000	1600	1400	1600	5700	18000	1260	336	180
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	358	357	318	367	364	230	156	273	218
AMMONIA NITROGEN	0.020	mg/l	0.10	1.40	0.04	0.02	< 0.02	< 0.02	< 0.02	< 0.03	< 0.03
CHLORIDE	-	mg/l	73	46	28	32.8	34.0	22.7	15.0 J	17.0	12.4
CONDUCTIVITY	-	umhos/cm	933	510	800	870	840	680	470	637	475
DOC	-	mg/l	11.0	5.0	3.0	6.0	--	--	--	--	--
HARDNESS	-	mg/l	540	532	412	461	--	--	--	--	--
KJELDAHL NITROGEN	-	mg/l	0.71	0.55	0.45	0.53	< 0.02	0.48	0.42 J	< 0.06	< 0.06
NITRATE	-	mg/l	1.10	< 0.01	0.10	< 0.01	--	--	--	--	--
NITRITE	-	mg/l	0.010	0.003	0.007	0.001	--	--	--	--	--
PH	6.5-8.5		8.15	8.17	6.42	6.41	7.04	7.05	7.55	7.95	7.5
PHENOLS	1	ug/l	79.3	< 2.0	4.24	< 2.0	1	0.014	< 1	< 1	< 1
SULFATE	-	mg/l	105	150	145	134	163	67.1	89.4 J	142	82.2
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	< 0.020	--	--	--	--	--	--	--	--

000717

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 6(d)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 May.'86	Nov.'86	Mar.'87	May.'87	May.'88	Aug.'88	Nov.'89	Apr.'90	Apr.'91
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	< 0.020	--	--	--	--	--	--	--	--
4,4-DDE	-	ug/l	< 0.020	--	--	--	--	--	--	--	--
4,4-DDT	-	ug/l	< 0.020	--	--	--	--	--	--	--	--
ALDRIN	0.001	ug/l	< 0.010	--	--	--	--	--	--	--	--
ALPHA-BHC	-	ug/l	< 0.010	--	--	--	--	--	--	--	--
ALPHA-CHLORDANE	-	ug/l	< 0.010	--	--	--	--	--	--	--	--
ALPHA-ENDOSULFAN	-	ug/l	< 0.020	--	--	--	--	--	--	--	--
BETA-BHC	-	ug/l	< 0.010	--	--	--	--	--	--	--	--
BETA-ENDOSULFAN	-	ug/l	< 0.020	--	--	--	--	--	--	--	--
DELTA-BHC	-	ug/l	< 0.020	--	--	--	--	--	--	--	--
DIELDRIN	0.001	ug/l	< 0.010	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	-	ug/l	< 0.020	--	--	--	--	--	--	--	--
ENDRIN	0.002	ug/l	< 0.010	--	--	--	--	--	--	--	--
GAMMA-BHC	-	ug/l	< 0.010	--	--	--	--	--	--	--	--
GAMMA-CHLORDANE	-	ug/l	< 0.010	--	--	--	--	--	--	--	--
HEPTACHLOR	0.001	ug/l	< 0.010	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	< 0.020	--	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	< 0.010	--	--	--	--	--	--	--	--
METHOXYCHLOR	0.04	ug/l	< 0.020	--	--	--	--	--	--	--	--
MIREX	0.001	ug/l	< 0.020	--	--	--	--	--	--	--	--
OXYCHLORDANE	-	ug/l	< 0.020	--	--	--	--	--	--	--	--
TOTAL PCB	-	ug/l	< 0.050	--	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	--	--	< 1.0	< 2	< 1.0	< 0.50	--	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	< 1.0	--	--	< 1.0	< 2	< 1.0	< 0.33	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	< 1.0	--	--	< 1.0	< 1	< 1.0	< 0.21	--	--
1,1-DICHLOROETHANE	200	ug/l	< 1.0	--	--	< 1.0	< 1	< 1.0	< 0.20	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 6(e)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 May.'86	Nov.'86	Mar.'87	May.'87	May.'88	Aug.'88	Nov.'89	Apr.'90	Apr.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	< 1.0	--	--	< 1.0	< 1	< 1.0	< 0.32	--	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	< 1.0	--	--	< 1.0	--	--	< 0.50	--	--
1,2-DIBROMOETHANE	-	ug/l	--	--	--	--	--	--	< 0.18	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	< 1.0	--	--	< 1.0	< 1	< 1.0	< 0.24	--	--
1,2-DICHLOROETHANE	100	ug/l	< 1.0	--	--	< 1.0	< 2	< 1.0	< 0.82	--	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 1.0	--	--	< 1.0	< 1	< 1.0	< 0.20	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	--	--	< 1.0	< 1	< 1.0	< 0.23	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	--	--	< 1.0	< 1	< 1.0	< 0.22	--	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	< 10	--	--	--	--
A-METHYLSTYRENE	-	ug/l	--	--	--	--	< 1	--	--	--	--
BENZENE	100p	ug/l	< 0.5	--	--	< 0.5	< 1	< 0.5	0.19 U	--	< 0.5
BROMOFORM	-	ug/l	< 1.0	--	--	< 1.0	< 2	< 1.0	< 0.49	--	--
BROMOMETHANE	-	ug/l	< 2.0	--	--	< 2.0	< 16	< 2.0	< 0.83	--	--
CARBON TETRACHLORIDE	-	ug/l	< 1.0	--	--	< 1.0	< 2	< 1.0	< 0.93	--	--
CHLOROBENZENE	15	ug/l	< 0.5	--	--	< 0.5	< 1	< 0.5	< 0.27	--	< 0.5
CHLOROETHANE	-	ug/l	< 2.0	--	--	< 2.0	< 10	< 2.0	< 0.50	--	--
CHLOROFORM	-	ug/l	< 1.0	--	--	TR	< 1	< 1.0	2.4 U	1.25 UJ	--
CIS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	--	< 1.0	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	< 1.0	< 1.0	< 1.0	< 0.27	--	--
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	--	--	< 1.0	< 1	< 1.0	< 0.24	--	--
DICHLOROBROMOMETHANE	-	ug/l	< 1.0	--	--	< 1.0	< 1	< 1.0	< 0.50	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	< 2.0	--	--	< 2.0	--	< 2.0	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	< 0.50	--	--
ETHYLBENZENE	8p	ug/l	TR	--	--	--	< 1	< 0.5	< 0.24	--	< 0.5
M&P-XYLENE	-	ug/l	1.0	--	--	< 0.5	< 2	< 0.5	0.21 U	--	< 0.5
MESITYLENE	-	ug/l	--	--	--	--	< 1	--	--	--	--
METHYL CHLORIDE	-	ug/l	< 2.0	--	--	--	< 50	< 2.0	0.65 U	--	--
METHYLENE CHLORIDE	-	ug/l	< 1.0	--	--	--	11	< 1.0	16.8 U	18.3 UJ	--
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	< 1	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 6(f)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 May.'86	Nov.'86	Mar.'87	May.'87	May.'88	Aug.'88	Nov.'89	Apr.'90	Apr.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)											
O-XYLENE	40p	ug/l	0.5	--	--	< 0.5	< 1	< 0.5	< 0.19	--	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	< 1	--	--	--	--
TETRACHLOROETHYLENE	50	ug/l	< 1.0	--	--	TR	< 1	< 1.0	0.21 U	--	< 1.0
TOLUENE	0.8p	ug/l	2.4	--	--	< 0.5	< 2	< 0.5	0.36 U	--	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	< 1.0	--	--	< 1.0	< 1	< 1.0	< 0.20	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	< 1.0	< 1.0	< 1.0	--	--	--
TRICHLOROETHYLENE	20	ug/l	< 1.0	--	--	< 1.0	< 1	< 1.0	< 0.92	--	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	< 2.0	--	--	< 2.0	< 2	< 2.0	0.65 U	--	--
VINYL CHLORIDE	-	ug/l	< 2.0	--	--	< 2.0	< 12	< 2.0	< 0.74	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 7(a)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 Apr.'92	Jul.'92	Jul.'92 (Dupl)	Apr.'93	Jul.'93	Apr.'94	Apr.'94 (Dupl)	SW7-87 Mar.'86	May.'86
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,4-DICHLOROPHENOL	0.2	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,4-DIMETHYL PHENOL	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,4-DINITROPHENOL	-	ug/l	--	--	--	--	--	--	--	--	< 3.0
2-CHLOROPHENOL	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
2-NITROPHENOL	0.5p	ug/l	--	--	--	--	--	--	--	--	< 5.0
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	--	--	--	--	--	--	--	< 5.0
4-NITROPHENOL	48p	ug/l	--	--	--	--	--	--	--	--	< 5.0
P-CHLORO-M-CRESOL	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
PENTACHLOROPHENOL	0.5	ug/l	--	--	--	--	--	--	--	--	< 2.0
PHENOL	5p	ug/l	--	--	--	--	--	--	--	--	< 3.0
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	--	--	--	--	--	< 1.0
2,4-DINITROTOLUENE	4p	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,6-DINITROTOLUENE	3p	ug/l	--	--	--	--	--	--	--	--	< 2.0
2-CHLORONAPHTHALENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
3,3'-DICHLOROBENZIDINE	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
9H-FLUORENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
ACENAPHTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
ACENAPHTHYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
ANTHRACENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 7(b)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 Apr.'92	Jul.'92	Jul.'92 (Dupl)	Apr.'93	Jul.'93	Apr.'94	Apr.'94 (Dupl)	SW7-87 Mar.'86	May.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
BENZO(A)ANTHRACENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(A)PYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(B)FLUORANTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(GHI)PERYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(K)FLUORANTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	8.3
BUTYL BENZYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	2.8
CHRYSENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DI-N-BUTYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	5.6
DI-N-OCTYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DIETHYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	5.4
DIMETHYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	TR
FLUORANTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROBUTADIENE	0.07p	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
ISOPHORONE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	--	--	--	--	--	--	--	< 3.0
N-NITROSODIPHENYLAMINE	-	ug/l	--	--	--	--	--	--	--	--	< 4.0
NAPHTHALENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
NITROBENZENE	0.02p	ug/l	--	--	--	--	--	--	--	--	< 1.0
PHENANTHRENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 7(c)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 Apr.'92	Jul.'92	Jul.'92 (Dupl)	Apr.'93	Jul.'93	Apr.'94	Apr.'94 (Dupl)	SW7-87 Mar.'86	May.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
METALS											
IRON	0.300	mg/l	--	--	--	--	--	--	--	0.75	0.04
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	--	< 1	< 1	< 1 (a)	290	17	33	66	60
FAECAL STREPTOCOCCI	-	/100ml	--	250	200	< 1 (a)	250	13	17	2	1000
TOTAL COLIFORMS	-	/100ml	--	2	< 1	8 (a)	1000	280	920	2900	6200
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	210	334	334	259	304	292	288	573	582
AMMONIA NITROGEN	0.020	mg/l	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	0.14 J	< 0.01 UJ	20.00	0.10
CHLORIDE	-	mg/l	12.7	30.3	34.7	16.2	18.6	20.6	23.3	--	537
CONDUCTIVITY	-	umhos/cm	418	1730	1730	460	--	700	700	--	2260
DOC	-	mg/l	--	--	--	--	--	--	--	22.0	32.0
HARDNESS	-	mg/l	--	--	--	--	--	--	--	703	800
KJELDAHL NITROGEN	-	mg/l	0.14	0.23	0.19	0.42	0.52	0.35 J	< 0.10 UJ	23.00	1.64
NITRATE	-	mg/l	--	--	--	--	--	--	--	3.00	14.00
NITRITE	-	mg/l	--	--	--	--	--	--	--	0.062	0.020
PH	6.5-8.5		7.94	8.06	8.06	8.06	--	8.2	8.2	--	8.26
PHENOLS	1	ug/l	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 2.0	2.4
SULFATE	-	mg/l	79.7	122	122	62.6	102	87.1	95.1	93	90
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	--	--	--	--	--	--	--	< 0.020

000723

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 7(d)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 Apr.'92	Jul.'92	Jul.'92 (Dupl)	Apr.'93	Jul.'93	Apr.'94	Apr.'94 (Dupl)	SW7-87 Mar.'86	May.'86
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDE	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDT	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
ALDRIN	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.010
ALPHA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
ALPHA-CHLORDANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
ALPHA-ENDOSULFAN	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
BETA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
BETA-ENDOSULFAN	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
DELTA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
DIELDRIN	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.010
ENDOSULFAN SULFATE	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
ENDRIN	0.002	ug/l	--	--	--	--	--	--	--	--	< 0.010
GAMMA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
GAMMA-CHLORDANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
HEPTACHLOR	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.010
HEPTACHLOR EPOXIDE	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.020
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	--	--	--	--	--	< 0.010
METHOXYCHLOR	0.04	ug/l	--	--	--	--	--	--	--	--	< 0.020
MIREX	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.020
OXYCHLORDANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
TOTAL PCB	-	ug/l	--	--	--	--	--	--	--	--	< 0.050
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	< 2.0	--	--	--	--	< 1.0
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	< 2.0	--	--	--	--	< 1.0
1,1-DICHLOROETHANE	200	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 7(e)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 Apr.'92	Jul.'92	Jul.'92 (Dupl)	Apr.'93	Jul.'93	Apr.'94	Apr.'94 (Dupl)	SW7-87 Mar.'86	May.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	< 1.0	--	--	--	--	< 1.0
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	--	--	--	--	< 1.0
1,2-DICHLOROETHANE	100	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	< 1.0	--	--	--	--	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	< 10	--	--	--	--	--
BENZENE	100p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5
BROMOFORM	-	ug/l	--	--	--	< 2.0	--	--	--	--	< 1.0
BROMOMETHANE	-	ug/l	--	--	--	< 2.0	--	--	--	--	< 2.0
CARBON TETRACHLORIDE	-	ug/l	--	--	--	< 1.0	--	--	--	--	< 1.0
CHLOROBENZENE	15	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5
CHLOROETHANE	-	ug/l	--	--	--	< 2.0	--	--	--	--	< 2.0
CHLOROFORM	-	ug/l	--	--	--	< 1.0	--	--	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	< 1.0	--	--	--	--	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	< 2.0	--	--	--	--	< 1.0
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
ETHYLBENZENE	8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	1.0
METHYL CHLORIDE	-	ug/l	--	--	--	< 2.0	--	--	--	--	< 2.0
METHYLENE CHLORIDE	-	ug/l	--	--	--	< 1.0	--	--	--	--	< 1.0
O-XYLENE	40p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	0.5
TETRACHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	--	< 1.0
TOLUENE	0.8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	2.7
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	< 1.0	--	--	--	--	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	--	--	--	--	< 1.0
TRICHLOROETHANE	-	ug/l	--	--	--	--	< 1.0	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 7(f)

COMPOUND (by Class)	MOE Obj.	Units	SW6-87 Apr.'92	Jul.'92	Jul.'92 (Dupl)	Apr.'93	Jul.'93	Apr.'94	Apr.'94 (Dupl)	SW7-87 Mar.'86	May.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRICHLOROETHYLENE	20	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1	< 1	--	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	--	--	--	--	< 2.0
VINYL CHLORIDE	-	ug/l	--	--	--	< 2.0	--	--	--	--	< 2.0

000726

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 8(a)

COMPOUND (by Class)	MOE Obj.	Units	SW7-87 Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88	Nov.'89	Nov.'89 (Dupl)
METALS											
IRON	0.300	mg/l	0.06	0.03	< 0.02	0.02	0.04	--	--	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	380	170	< 1	10	< 1	12	1600	246	--
FAECAL STREPTOCOCCI	-	/100ml	4600	820	120	140	58	120	400	330	--
TOTAL COLIFORMS	-	/100ml	520000	1000	700	900	480	900	6800	820	--
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	637	632	414	447	410	412	380	281	--
AMMONIA NITROGEN	0.020	mg/l	0.05	9.13	0.04	0.02	0.11	< 0.02	< 0.02	< 0.02	--
CHLORIDE	-	mg/l	646	475	1192	183	--	200	293	266 J	--
CONDUCTIVITY	-	umhos/cm	3060	1150	1525	1545	2120	1400	20100	1573	--
DOC	-	mg/l	12.0	15.0	7.5	8.0	13.0	--	--	--	--
HARDNESS	-	mg/l	736	851	540	548	788	--	--	--	--
KJELDAHL NITROGEN	-	mg/l	192.00	0.19	0.83	0.68	0.19	0.18	0.77	0.62 J	--
NITRATE	-	mg/l	77.00	< 0.01	1.20	0.16	< 1.0	--	--	--	--
NITRITE	-	mg/l	0.192	0.200	0.011	0.011	< 0.001	--	--	--	--
PH	6.5-8.5		8.28	7.97	7.03	6.89	7.67	6.80	7.45	7.69	--
PHENOLS	1	ug/l	10.4	< 2.0	15.1	< 2.0	8.6	4	< 1	< 1	--
SULFATE	-	mg/l	10	120	130	120	300	202	367	400 J	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	< 1.0	--	< 2	< 1.0	< 0.50	< 0.50
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	< 1.0	--	< 2	< 1.0	< 0.33	< 0.33
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	< 1.0	--	< 1	< 1.0	< 0.21	< 0.21
1,1-DICHLOROETHANE	200	ug/l	--	--	--	< 1.0	--	< 1	< 1.0	< 0.20	< 0.20

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 8(b)

COMPOUND (by Class)	MOE Obj.	Units	SW7-87 Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88	Nov.'89	Nov.'89 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	< 1.0	--	< 1	< 1.0	< 0.32	< 0.32
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	< 1.0	--	--	--	< 0.50	< 0.50
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	--	< 1	< 1.0	< 0.24	< 0.24
1,2-DICHLOROETHANE	100	ug/l	--	--	--	< 1.0	--	< 2	< 1.0	< 0.82	< 0.82
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	< 1.0	--	< 1	< 1.0	< 0.20	< 0.20
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	--	< 1	< 1.0	< 0.23	< 0.23
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	< 1.0	--	< 1	< 1.0	< 0.22	< 0.22
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	< 10	--	< 0.50	< 0.50
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	< 1	--	--	--
BENZENE	100p	ug/l	--	--	--	< 0.5	--	< 1	< 0.5	< 0.19	< 0.19
BROMOFORM	-	ug/l	--	--	--	< 1.0	--	< 2	< 1.0	< 0.49	< 0.49
BROMOMETHANE	-	ug/l	--	--	--	< 2.0	--	< 16	< 2.0	< 0.83	< 0.83
CARBON TETRACHLORIDE	-	ug/l	--	--	--	< 1.0	--	< 2	< 1.0	< 0.93	< 0.93
CHLOROBENZENE	15	ug/l	--	--	--	< 0.5	--	< 1	< 0.5	< 0.27	< 0.27
CHLOROETHANE	-	ug/l	--	--	--	< 2.0	--	< 10	< 2.0	< 0.50	< 0.50
CHLOROFORM	-	ug/l	--	--	--	TR	--	< 1	< 1.0	0.51 U	0.51
CIS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	--	--	< 1.0	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	--	< 1.0	< 1.0	< 0.27	< 0.27
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	< 1.0	--	< 1	< 1.0	< 0.24	< 0.24
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	< 1.0	--	< 1	< 1.0	< 0.50	< 0.50
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 0.50	< 0.50
ETHYLBENZENE	8p	ug/l	--	--	--	--	--	< 1	< 0.5	< 0.24	< 0.24
M&P-XYLENE	-	ug/l	--	--	--	< 0.5	--	< 2	< 0.5	0.21 U	0.21 U
MESITYLENE	-	ug/l	--	--	--	--	--	< 1	--	--	--
METHYL CHLORIDE	-	ug/l	--	--	--	--	--	< 50	< 2.0	< 0.65	< 0.65
METHYLENE CHLORIDE	-	ug/l	--	--	--	--	--	< 10	< 1.0	0.92 U	0.92 U
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	< 1	--	--	--
O-XYLENE	40p	ug/l	--	--	--	< 0.5	--	< 1	< 0.5	< 0.19	< 0.19

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 8(c)

COMPOUND (by Class)	MOE Obj.	Units	SW7-87 Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88	Nov.'89	Nov.'89 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	< 1	--	--	--
TETRACHLOROETHYLENE	50	ug/l	--	--	--	< 1.0	--	< 1	< 1.0	< 0.21	< 0.21
TOLUENE	0.8p	ug/l	--	--	--	< 0.5	--	< 2	< 0.5	< 0.24	< 0.24
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	< 1.0	--	< 1	< 1.0	< 0.20	< 0.20
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0
TRICHLOROETHYLENE	20	ug/l	--	--	--	< 1.0	--	< 1	< 1.0	< 0.92	< 0.92
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	--	< 2	< 2.0	< 0.26	< 0.26
VINYL CHLORIDE	-	ug/l	--	--	--	< 2.0	--	< 12	< 2.0	< 0.74	< 0.74

000729

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 9(a)

COMPOUND (by Class)	MOE Obj.	Units	SW7-87 Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	Apr.'94	Jul.'94	Jul.'94 (Dupl)
BIOLOGICAL TESTING											
ESCHERICHIA COLI	-	/100ml	--	--	--	--	--	--	--	> 1600	> 1600
FAECAL COLIFORM	-	/100ml	8	104	14 (a)	< 1	< 1 (a)	2800	< 1.8	> 1600	> 1600
FAECAL STREPTOCOCCI	-	/100ml	11	292	34 (a)	500	< 1 (a)	290	4	> 1600	> 1600
TOTAL COLIFORMS	-	/100ml	100	150	16 (a)	< 1	48 (a)	13000	33	> 1600	> 1600
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	348	282	324	414	341	412	324	294	272
AMMONIA NITROGEN	0.020	mg/l	< 0.03	< 0.03	< 0.03	0.03	0.90	< 0.03	0.10	0.01	0.01
CHLORIDE	-	mg/l	117	83.7	118	166	296	93.2	72.2	78.9	72.6
CONDUCTIVITY	-	umhos/cm	1060	725	710	2800	670	--	800	800	800
KJELDAHL NITROGEN	-	mg/l	< 0.06	< 0.06	0.20	0.32	1.06	0.90	0.38	1.58	1.04
PH	6.5-8.5		7.95	7.5	7.98	7.92	8.35	--	8.5	7.5	7.5
PHENOLS	1	ug/l	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1
SULFATE	-	mg/l	176	86.2	115	161	307	80.9	84.9	62.4	59.4
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	--	< 2.0	--	--	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	--	< 2.0	--	--	--	--
1,1-DICHLOROETHANE	200	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	--	< 1.0	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	< 1.0	--	--	--	--
1,2-DICHLOROETHANE	100	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	< 1.0	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	< 10	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 9(b)

COMPOUND (by Class)	MOE Obj.	Units	SW7-87 Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	Apr.'94	Jul.'94	Jul.'94 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
BENZENE	100p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	-	ug/l	--	--	--	--	< 2.0	--	--	--	--
BROMOMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	--
CARBON TETRACHLORIDE	-	ug/l	--	--	--	--	< 1.0	--	--	--	--
CHLOROBENZENE	15	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	--
CHLOROFORM	-	ug/l	--	--	--	--	< 1.0	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	< 1.0	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	--
ETHYLBENZENE	8p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYL CHLORIDE	-	ug/l	--	--	--	--	< 2.0	--	--	--	--
METHYLENE CHLORIDE	-	ug/l	11.0 UJ	--	--	--	< 1.0	--	--	--	--
O-XYLENE	40p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	50	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1
TOLUENE	0.8p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	< 1.0	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	--	--	--
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
TRICHLOROETHYLENE	20	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1	< 1	< 1
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	--
VINYL CHLORIDE	-	ug/l	--	--	--	--	< 2.0	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 10(a)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DINITROPHENOL	-	ug/l	--	< 3.0	--	--	--	--	--	--	--
2-CHLOROPHENOL	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
2-NITROPHENOL	0.5p	ug/l	--	< 5.0	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	< 5.0	--	--	--	--	--	--	--
4-NITROPHENOL	48p	ug/l	--	< 5.0	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
PENTACHLOROPHENOL	0.5	ug/l	--	< 2.0	--	--	--	--	--	--	--
PHENOL	5p	ug/l	--	< 3.0	--	--	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	4p	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,6-DINITROTOLUENE	3p	ug/l	--	< 2.0	--	--	--	--	--	--	--
2-CHLORONAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
9H-FLUORENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ACENAPHTHENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ACENAPHTHYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ANTHRACENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 10(b)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(A)PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	11.0	--	--	--	--	--	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	5.7	--	--	--	--	--	--	--
CHRYSENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIETHYL PHTHALATE	-	ug/l	--	5.7	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	-	ug/l	--	TR	--	--	--	--	--	--	--
FLUORANTHENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
ISOPHORONE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	< 3.0	--	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	< 4.0	--	--	--	--	--	--	--
NAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
NITROBENZENE	0.02p	ug/l	--	< 1.0	--	--	--	--	--	--	--
PHENANTHRENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 10(c)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
METALS											
IRON	0.300	mg/l	0.75	0.02	0.48	< 0.02	--	0.02	0.04	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	12	50	3500	550	< 1	< 1	< 1	34	5000
FAECAL STREPTOCOCCI	-	/100ml	2	280	3600	390	60	30	10	220	1400
TOTAL COLIFORMS	-	/100ml	2900	6300	400000	2100	1300	110	620	370	120000
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	225	358	488	342	283	342	350	336	382
AMMONIA NITROGEN	0.020	mg/l	0.04	0.17	0.06	0.32	0.09	0.01	0.09	< 0.02	< 0.02
CHLORIDE	-	mg/l	--	48	171	39	30	31.8	--	40.0	37.8
CONDUCTIVITY	-	umhos/cm	--	776	1590	374	815	820	1040	730	1094
DOC	-	mg/l	9.5	6.0	5.0	5.0	3.0	5.0	5.5	--	--
HARDNESS	-	mg/l	343	490	1030	486	358	416	538	--	--
KJELDAHL NITROGEN	-	mg/l	0.51	1.04	0.78	0.40	0.61	0.25	0.15	< 0.02	6.29
NITRATE	-	mg/l	0.29	0.25	0.09	< 0.01	0.50	0.01	< 1.0	--	--
NITRITE	-	mg/l	0.008	0.020	0.005	0.004	0.053	0.002	< 0.001	--	--
PH	6.5-8.5		--	8.16	7.10	7.91	6.38	6.26	7.31	7.52	7.34
PHENOLS	1	ug/l	< 2.0	106.0	65.2	< 2.0	< 2.0	< 2.0	16.5	< 1	7
SULFATE	-	mg/l	72	54	137	90	85	85	170	62.7	226
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	< 0.020	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 10(d)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
4,4-DDE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
4,4-DDT	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
ALDRIN	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
BETA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
BETA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
DELTA-BHC	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
DIELDRIN	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
ENDRIN	0.002	ug/l	--	< 0.010	--	--	--	--	--	--	--
GAMMA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
GAMMA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
HEPTACHLOR	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	< 0.020	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 0.010	--	--	--	--	--	--	--
METHOXYCHLOR	0.04	ug/l	--	< 0.020	--	--	--	--	--	--	--
MIREX	0.001	ug/l	--	< 0.020	--	--	--	--	--	--	--
OXYCHLORDANE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
TOTAL PCB	-	ug/l	--	< 0.050	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 2	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 2	< 1.0
1,1,2-TRICHLOROETHANE	800	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
1,1-DICHLOROETHANE	200	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 10(e)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
1,2-DICHLOROETHANE	100	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 2	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	--	--	< 10	--
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	--	--	< 1	--
BENZENE	100p	ug/l	--	< 0.5	--	--	--	< 0.5	--	< 1	< 0.5
BROMOFORM	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 2	< 1.0
BROMOMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	< 16	< 2.0
CARBON TETRACHLORIDE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 2	< 1.0
CHLOROBENZENE	15	ug/l	--	< 0.5	--	--	--	< 0.5	--	< 1	< 0.5
CHLOROETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	< 10	< 2.0
CHLOROFORM	-	ug/l	--	< 1.0	--	--	--	1.0	--	< 1	< 1.0
CIS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	--	--	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
DICHLORODIFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	--	< 2.0
ETHYLBENZENE	8p	ug/l	--	< 0.5	--	--	--	--	--	< 1	< 0.5
M&P-XYLENE	-	ug/l	--	0.7	--	--	--	< 0.5	--	< 2	< 0.5
MESITYLENE	-	ug/l	--	--	--	--	--	--	--	< 1	--
METHYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	--	--	< 50	< 2.0
METHYLENE CHLORIDE	-	ug/l	--	< 1.0	--	--	--	--	--	< 10	< 1.0
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	--	--	< 1	--
O-XYLENE	40p	ug/l	--	TR	--	--	--	< 0.5	--	< 1	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	--	--	< 1	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 10(f)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Mar.'86	May.'86	Aug.'86	Nov.'86	Mar.'87	May.'87	Nov.'87	May.'88	Aug.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TETRACHLOROETHYLENE	50	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
TOLUENE	0.8p	ug/l	--	2.0	--	--	--	< 0.5	--	< 2	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1.0	< 1.0
TRICHLOROETHYLENE	20	ug/l	--	< 1.0	--	--	--	< 1.0	--	< 1	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	< 2	< 2.0
VINYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	< 2.0	--	< 12	< 2.0

000737

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 11(a)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	Apr.'94	Jul.'94
BIOLOGICAL TESTING											
ESCHERICHIA COLI	-	/100ml	--	--	--	--	--	--	--	--	> 1600
FAECAL COLIFORM	-	/100ml	680	124	56	2 (a)	< 1	< 1 (a)	1500	540	> 1600
FAECAL STREPTOCOCCI	-	/100ml	1080	15	152	10 (a)	320	< 1 (a)	1300	1.8	> 1600
TOTAL COLIFORMS	-	/100ml	740	152	144	2 (a)	< 1	8 (a)	4500	920	> 1600
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	154	253	190	201	400	233	331	269	342
AMMONIA NITROGEN	0.020	mg/l	< 0.02	< 0.03	< 0.03	< 0.03	0.03	0.08	< 0.03	0.15	0.01
CHLORIDE	-	mg/l	41.0 J	28.5	30.3	43.3	41.4	31.8	24.4	38.4	49.5
CONDUCTIVITY	-	umhos/cm	485	566	443	438	1800	420	--	600	800
KJELDAHL NITROGEN	-	mg/l	0.44 J	< 0.06	< 0.06	0.14	0.10	0.58	1.20	0.24	1.42
PH	6.5-8.5		7.30	7.75	7.5	7.80	7.52	7.92	--	8.4	7.5
PHENOLS	1	ug/l	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1
SULFATE	-	mg/l	57.2 J	48	29.9	50.3	66.4	51.9	58.0	54.6	44.2
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 0.50	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	70	ug/l	< 0.33	--	--	--	--	< 2.0	--	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	< 0.21	--	--	--	--	< 2.0	--	--	--
1,1-DICHLOROETHANE	200	ug/l	< 0.20	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1
1,1-DICHLOROETHYLENE	40	ug/l	< 0.32	--	--	--	--	< 1.0	--	--	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	< 0.50	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	< 0.24	--	--	--	--	< 1.0	--	--	--
1,2-DICHLOROETHANE	100	ug/l	< 0.82	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1
1,2-DICHLOROPROPANE	-	ug/l	< 0.20	--	--	--	--	< 1.0	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	< 0.23	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1
1,4-DICHLOROBENZENE	4	ug/l	< 0.22	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 11(b)

COMPOUND (by Class)	MOE Obj.	Units	SW8-87 Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	Apr.'94	Jul.'94
VOLATILE ORGANIC COMPOUNDS (cont'd)											
2-CHLOROETHYLVINYLETHER	-	ug/l	< 0.50	--	--	--	--	< 10	--	--	--
BENZENE	100p	ug/l	< 0.19	2.6 J	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	-	ug/l	< 0.49	--	--	--	--	< 2.0	--	--	--
BROMOMETHANE	-	ug/l	< 0.83	--	--	--	--	< 2.0	--	--	--
CARBON TETRACHLORIDE	-	ug/l	< 0.93	--	--	--	--	< 1.0	--	--	--
CHLOROBENZENE	15	ug/l	< 0.27	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	< 0.50	--	--	--	--	< 2.0	--	--	--
CHLOROFORM	-	ug/l	3.2 U	--	--	--	--	< 1.0	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 0.27	--	--	--	--	< 1.0	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	< 0.24	--	--	--	--	< 1.0	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	< 0.50	--	--	--	--	< 2.0	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	< 0.50	--	--	--	--	--	--	--	--
ETHYLBENZENE	8p	ug/l	< 0.24	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	0.21 U	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYL CHLORIDE	-	ug/l	< 0.65	--	--	--	--	< 2.0	--	--	--
METHYLENE CHLORIDE	-	ug/l	0.92 U	250 UJ	--	--	--	< 1.0	--	--	--
O-XYLENE	40p	ug/l	< 0.19	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	50	ug/l	< 0.21	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1
TOLUENE	0.8p	ug/l	0.29	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	< 0.20	--	--	--	--	< 1.0	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	--	--	< 1.0	--	--	--
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
TRICHLOROETHYLENE	20	ug/l	< 0.92	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1	< 1
TRICHLOROFLUOROMETHANE	-	ug/l	< 0.26	--	--	--	--	< 2.0	--	--	--
VINYL CHLORIDE	-	ug/l	< 0.74	--	--	--	--	< 2.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 12(a)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Mar.'86	May.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Nov.'89 (Dupl)	Apr.'90
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DICHLOROPHENOL	0.2	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,4-DINITROPHENOL	-	ug/l	--	< 3.0	--	--	--	--	--	--	--
2-CHLOROPHENOL	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
2-NITROPHENOL	0.5p	ug/l	--	< 5.0	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	< 5.0	--	--	--	--	--	--	--
4-NITROPHENOL	48p	ug/l	--	< 5.0	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
PENTACHLOROPHENOL	0.5	ug/l	--	< 2.0	--	--	--	--	--	--	--
PHENOL	5p	ug/l	--	< 3.0	--	--	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	4p	ug/l	--	< 2.0	--	--	--	--	--	--	--
2,6-DINITROTOLUENE	3p	ug/l	--	< 2.0	--	--	--	--	--	--	--
2-CHLORONAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
9H-FLUORENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ACENAPHTHENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ACENAPHTHYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
ANTHRACENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 12(b)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Mar.'86	May.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Nov.'89 (Dupl)	Apr.'90
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	< 5.0	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(A)PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	14.4	--	--	--	--	--	--	--
BUTYL BENZYL PHTHALATE	-	ug/l	--	5.8	--	--	--	--	--	--	--
CHRYSENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	-	ug/l	--	10.2	--	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
DIETHYL PHTHALATE	-	ug/l	--	4.1	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
FLUORANTHENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROBUTADIENE	0.07p	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
HEXACHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
ISOPHORONE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	< 3.0	--	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	-	ug/l	--	< 4.0	--	--	--	--	--	--	--
NAPHTHALENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
NITROBENZENE	0.02p	ug/l	--	< 1.0	--	--	--	--	--	--	--
PHENANTHRENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 12(c)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Mar.'86	May.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Nov.'89 (Dupl)	Apr.'90
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	< 2.0	--	--	--	--	--	--	--
METALS											
IRON	0.300	mg/l	0.25	0.01	0.08	< 0.02	0.02	--	--	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	18	330	490	< 1	< 1	24	282	400	720
FAECAL STREPTOCOCCI	-	/100ml	< 1	260	560	< 1	< 1	20	470	1010	120
TOTAL COLIFORMS	-	/100ml	320	2800	2800	280	200	500	580	960	1600
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	260	358	260	374	427	357	54.1	52.0	328
AMMONIA NITROGEN	0.020	mg/l	0.03	0.10	0.10	0.01	0.02	< 0.02	< 0.02	< 0.02	< 0.03
CHLORIDE	-	mg/l	--	12	5	8	8.46	8.0	1.0 J	2.0	5.0
CONDUCTIVITY	-	umhos/cm	--	782	396	900	910	820	222	--	685
DOC	-	mg/l	4.0	5.0	4.5	2.0	4.5	--	--	--	--
HARDNESS	-	mg/l	435	465	385.	464	509	--	--	--	--
KJELDAHL NITROGEN	-	mg/l	0.39	0.43	0.21	0.29	0.2	< 0.02	1.18 J	0.59	< 0.06
NITRATE	-	mg/l	0.30	0.02	< 0.01	0.29	0.02	--	--	--	--
NITRITE	-	mg/l	0.004	< 0.002	< 0.002	0.001	0.001	--	--	--	--
PH	6.5-8.5		--	7.81	7.55	6.48	6.53	7.27	7.00	--	7.39
PHENOLS	1	ug/l	24.4	< 2.0	< 2.0	11.2	3.17	< 1	< 1	< 1	< 1
SULFATE	-	mg/l	138	125	145	150	141	199	13.0 J	< 1.0	172
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	< 0.020	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 12(d)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Mar.'86	May.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Nov.'89 (Dupl)	Apr.'90
PESTICIDES AND PCB's (cont'd)											
4,4-DDD	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
4,4-DDE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
4,4-DDT	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
ALDRIN	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
ALPHA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
BETA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
BETA-ENDOSULFAN	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
DELTA-BHC	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
DIELDRIN	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
ENDRIN	0.002	ug/l	--	< 0.010	--	--	--	--	--	--	--
GAMMA-BHC	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
GAMMA-CHLORDANE	-	ug/l	--	< 0.010	--	--	--	--	--	--	--
HEPTACHLOR	0.001	ug/l	--	< 0.010	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	0.001	ug/l	--	< 0.020	--	--	--	--	--	--	--
HEXACHLOROBENZENE	0.0065	ug/l	--	< 0.010	--	--	--	--	--	--	--
METHOXYCHLOR	0.04	ug/l	--	< 0.020	--	--	--	--	--	--	--
MIREX	0.001	ug/l	--	< 0.020	--	--	--	--	--	--	--
OXYCHLORDANE	-	ug/l	--	< 0.020	--	--	--	--	--	--	--
TOTAL PCB	-	ug/l	--	< 0.050	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	--	< 1.0	< 2	--	--	--
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	< 1.0	--	--	< 1.0	< 2	--	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--
1,1-DICHLOROETHANE	200	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 12(e)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Mar.'86	May.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Nov.'89 (Dupl)	Apr.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	< 1.0	--	--	< 1.0	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--
1,2-DICHLOROETHANE	100	ug/l	--	< 1.0	--	--	< 1.0	< 2	--	--	--
1,2-DICHLOROPROPANE	-	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	< 10	--	--	--
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	< 1	--	--	--
BENZENE	100p	ug/l	--	< 0.5	--	--	< 0.5	< 1	--	--	--
BROMOFORM	-	ug/l	--	< 1.0	--	--	< 1.0	< 2	--	--	--
BROMOMETHANE	-	ug/l	--	< 2.0	--	--	< 2.0	< 16	--	--	--
CARBON TETRACHLORIDE	-	ug/l	--	< 1.0	--	--	< 1.0	< 2	--	--	--
CHLOROBENZENE	15	ug/l	--	< 0.5	--	--	< 0.5	< 1	--	--	--
CHLOROETHANE	-	ug/l	--	< 2.0	--	--	< 2.0	< 10	--	--	--
CHLOROFORM	-	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	< 1.0	< 1.0	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	< 2.0	--	--	--	--
ETHYLBENZENE	8p	ug/l	--	< 0.5	--	--	--	< 1	--	--	--
M&P-XYLENE	-	ug/l	--	0.8	--	--	< 0.5	< 2	--	--	--
MESITYLENE	-	ug/l	--	--	--	--	--	< 1	--	--	--
METHYL CHLORIDE	-	ug/l	--	< 2.0	--	--	--	< 50	--	--	--
METHYLENE CHLORIDE	-	ug/l	--	< 1.0	--	--	1.5	< 10	--	--	70 UJ
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	< 1	--	--	--
O-XYLENE	40p	ug/l	--	TR	--	--	< 0.5	< 1	--	--	--
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	< 1	--	--	--
TETRACHLOROETHYLENE	50	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 12(f)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Mar.'86	May.'86	Nov.'86	Mar.'87	May.'87	May.'88	Nov.'89	Nov.'89 (Dupl)	Apr.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TOLUENE	0.8p	ug/l	--	1.9	--	--	< 0.5	2.9	--	--	--
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	< 1.0	ND	--	--	--
TRICHLOROETHYLENE	20	ug/l	--	< 1.0	--	--	< 1.0	< 1	--	--	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	--	--	< 2.0	< 2	--	--	--
VINYL CHLORIDE	-	ug/l	--	< 2.0	--	--	< 2.0	< 12	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 13(a)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Apr.'91	SW9-87 Apr.'92	SW9-87 Apr.'93	SW9-87 Apr.'94	SW9-87 Jul.'94	SW9A-93 Apr.'93	SW9A-93 Jul.'94	SW10-87 Mar.'86	SW10-87 May.'86
ACID EXTRACTABLES											
2,4,6-TRICHLOROPHENOL	18	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,4-DICHLOROPHENOL	0.2	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,4-DIMETHYL PHENOL	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,4-DINITROPHENOL	-	ug/l	--	--	--	--	--	--	--	--	< 3.0
2-CHLOROPHENOL	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
2-NITROPHENOL	0.5p	ug/l	--	--	--	--	--	--	--	--	< 5.0
4,6-DINITRO-O-CRESOL	0.2p	ug/l	--	--	--	--	--	--	--	--	< 5.0
4-NITROPHENOL	48p	ug/l	--	--	--	--	--	--	--	--	< 5.0
P-CHLORO-M-CRESOL	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
PENTACHLOROPHENOL	0.5	ug/l	--	--	--	--	--	--	--	--	< 2.0
PHENOL	5p	ug/l	--	--	--	--	--	--	--	--	< 3.0
BASE/NEUTRAL EXTRACTABLES											
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,2-DIPHENYLHYDRAZINE	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	--	--	--	--	--	< 1.0
2,4-DINITROTOLUENE	4p	ug/l	--	--	--	--	--	--	--	--	< 2.0
2,6-DINITROTOLUENE	3p	ug/l	--	--	--	--	--	--	--	--	< 2.0
2-CHLORONAPHTHALENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
3,3'-DICHLOROBENZIDINE	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
4-BROMOPHENYL PHENYL ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
4-CHLOROPHENYL PHENYL ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
9H-FLUORENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
ACENAPHTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
ACENAPHTHYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
ANTHRACENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 13(b)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Apr.'91	Apr.'92	Apr.'93	Apr.'94	Jul.'94	SW9A-93 Apr.'93	Jul.'94	SW10-87 Mar.'86	May.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)											
BENZIDINE	-	ug/l	--	--	--	--	--	--	--	--	< 5.0
BENZO(A)ANTHRACENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(A)PYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(B)FLUORANTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(GHI)PERYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BENZO(K)FLUORANTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BIS(2-CHLOROETHOXY)METHANE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
BIS(2-CHLOROETHYL)ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
BIS(2-CHLOROISOPROPYL)ETHER	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
BIS(2-ETHYLHEXYL)PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	8.6
BUTYL BENZYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	6.2
CHRYSENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DI-N-BUTYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
DI-N-OCTYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DIBENZO(A,H)ANTHRACENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
DIETHYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	4.6
DIMETHYL PHTHALATE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
FLUORANTHENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROBUTADIENE	0.07p	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROCYCLOPENTADIENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
HEXACHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
INDENO(1,2,3-CD)PYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
ISOPHORONE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
N-NITROSO-DI-N-PROPYLAMINE	-	ug/l	--	--	--	--	--	--	--	--	< 3.0
N-NITROSODIPHENYLAMINE	-	ug/l	--	--	--	--	--	--	--	--	< 4.0
NAPHTHALENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
NITROBENZENE	0.02p	ug/l	--	--	--	--	--	--	--	--	< 1.0
PHENANTHRENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 13(c)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Apr.'91	Apr.'92	Apr.'93	Apr.'94	Jul.'94	SW9A-93 Apr.'93	Jul.'94	SW10-87 Mar.'86	May.'86
BASE/NEUTRAL EXTRACTABLES (cont'd)											
PYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
METALS											
IRON	0.300	mg/l	--	--	--	--	--	--	--	0.30	0.01
BIOLOGICAL TESTING											
ESCHERICHIA COLI	-	/100ml	--	--	--	--	540	--	> 1600	--	--
FAECAL COLIFORM	-	/100ml	52	2 (a)	< 1 (a)	< 1.8	920	< 1 (a)	> 1600	16	2000
FAECAL STREPTOCOCCI	-	/100ml	180	4 (a)	< 1 (a)	7.8	> 1600	< 1 (a)	> 1600	2	150
TOTAL COLIFORMS	-	/100ml	96	2 (a)	24 (a)	21	> 1600	38 (a)	> 1600	430	4000
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	161	116	258	310	384	239	263	245	298
AMMONIA NITROGEN	0.020	mg/l	< 0.03	< 0.03	< 0.03	0.16	0.08	< 0.03	0.04	0.03	0.10
CHLORIDE	-	mg/l	9.34	1.68	5.02	8.40	8.10	6.81	6.07	--	42
CONDUCTIVITY	-	umhos/cm	363	263	460	700	600	360	500	--	693
DOC	-	mg/l	--	--	--	--	--	--	--	3.5	5.0
HARDNESS	-	mg/l	--	--	--	--	--	--	--	370	437
KJELDAHL NITROGEN	-	mg/l	< 0.06	< 0.06	0.16	0.32	0.62	0.96	1.30	0.25	0.44
NITRATE	-	mg/l	--	--	--	--	--	--	--	0.12	0.04
NITRITE	-	mg/l	--	--	--	--	--	--	--	0.004	0.002
PH	6.5-8.5		7.5	7.31	7.99	7.7	7.5	8.29	7.8	--	8.39
PHENOLS	1	ug/l	< 1	< 1	< 1.0	< 1	< 1	< 1.0	< 1	36.8	190.0
SULFATE	-	mg/l	58.0	71.8	95.1	123	130	59.1	74.5	100	88

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 13(d)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Apr.'91	SW9-87 Apr.'92	SW9-87 Apr.'93	SW9-87 Apr.'94	SW9-87 Jul.'94	SW9A-93 Apr.'93	SW9A-93 Jul.'94	SW10-87 Mar.'86	SW10-87 May.'86
PESTICIDES AND PCB's											
2,4-DDD	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDD	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDE	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDT	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
ALDRIN	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.010
ALPHA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
ALPHA-CHLORDANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
ALPHA-ENDOSULFAN	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
BETA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
BETA-ENDOSULFAN	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
DELTA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
DIELDRIN	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.010
ENDOSULFAN SULFATE	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
ENDRIN	0.002	ug/l	--	--	--	--	--	--	--	--	< 0.010
GAMMA-BHC	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
GAMMA-CHLORDANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.010
HEPTACHLOR	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.010
HEPTACHLOR EPOXIDE	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.020
HEXACHLOROBENZENE	0.0065	ug/l	--	--	--	--	--	--	--	--	< 0.010
METHOXYCHLOR	0.04	ug/l	--	--	--	--	--	--	--	--	< 0.020
MIREX	0.001	ug/l	--	--	--	--	--	--	--	--	< 0.020
OXYCHLORDANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.020
TOTAL PCB	-	ug/l	--	--	--	--	--	--	--	--	< 0.050
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1	--	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	< 2.0	--	--	< 2.0	--	--	< 1.0
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	< 2.0	--	--	< 2.0	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 13(e)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Apr.'91	Apr.'92	Apr.'93	Apr.'94	Jul.'94	SW9A-93 Apr.'93	Jul.'94	SW10-87 Mar.'86	May.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHANE	200	ug/l	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1	--	< 1.0
1,1-DICHLOROETHYLENE	40	ug/l	--	--	< 1.0	--	--	< 1.0	--	--	< 1.0
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	--	--	--	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	< 1.0	--	--	< 1.0	--	--	< 1.0
1,2-DICHLOROETHANE	100	ug/l	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1	--	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	--	< 1.0	--	--	< 1.0	--	--	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1	--	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	< 10	--	--	< 10	--	--	--
BENZENE	100p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5
BROMOFORM	-	ug/l	--	--	< 2.0	--	--	< 2.0	--	--	< 1.0
BROMOMETHANE	-	ug/l	--	--	< 2.0	--	--	< 2.0	--	--	< 2.0
CARBON TETRACHLORIDE	-	ug/l	--	--	< 1.0	--	--	< 1.0	--	--	< 1.0
CHLOROBENZENE	15	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5
CHLOROETHANE	-	ug/l	--	--	< 2.0	--	--	< 2.0	--	--	< 2.0
CHLOROFORM	-	ug/l	--	--	< 1.0	--	--	< 1.0	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	--	--	< 1.0	--	--	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	--	< 1.0	--	--	< 1.0	--	--	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	--	--	< 2.0	--	--	< 2.0	--	--	< 1.0
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
ETHYLBENZENE	8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	0.8
METHYL CHLORIDE	-	ug/l	--	--	< 2.0	--	--	< 2.0	--	--	< 2.0
METHYLENE CHLORIDE	-	ug/l	--	--	< 1.0	--	--	< 1.0	--	--	< 1.0
O-XYLENE	40p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	TR
TETRACHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1	--	< 1.0
TOLUENE	0.8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--	1.4
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	< 1.0	--	--	< 1.0	--	--	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	--	--	< 1.0	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 13(f)

COMPOUND (by Class)	MOE Obj.	Units	SW9-87 Apr.'91	Apr.'92	Apr.'93	Apr.'94	Jul.'94	SW9A-93 Apr.'93	Jul.'94	SW10-87 Mar.'86	May.'86
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRICHLOROETHYLENE	20	ug/l	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1.0	< 1	--	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	< 2.0	--	--	< 2.0	--	--	< 2.0
VINYL CHLORIDE	-	ug/l	--	--	< 2.0	--	--	< 2.0	--	--	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 14(a)

COMPOUND (by Class)	MOE Obj.	Units	SW10-87 Aug.'86	Nov.'86	Mar.'87	May.'87	May.'87 (Dupl)	Aug.'87	Aug.'87 (Dupl)	Nov.'87	May.'88
METALS											
IRON	0.300	mg/l	1.36	< 0.02	< 0.02	0.02	0.02	0.06	0.06	0.06	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	2500	270	< 1	10	< 1	3100	1800	< 1	420
FAECAL STREPTOCOCCI	-	/100ml	1300	1300	< 1	40	50	2300	2300	110	58
TOTAL COLIFORMS	-	/100ml	600000	4300	250	180	200	18000	14000	290	20
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	259	331	318	317	327	--	--	350	322
AMMONIA NITROGEN	0.020	mg/l	0.05	1.20	0.01	< 0.01	< 0.01	0.15	0.09	0.14	1.26
CHLORIDE	-	mg/l	107	42	30	46.7	47.7	--	--	--	50.0
CONDUCTIVITY	-	umhos/cm	971	495	715	700	700	1065	1065	1400	780
DOC	-	mg/l	5.0	6.5	2.5	4.0	3.0	3.5	4.0	6.0	--
HARDNESS	-	mg/l	262	500	416	399	401	--	--	732	--
KJELDAHL NITROGEN	-	mg/l	0.39	0.49	0.27	0.17	0.16	0.22	0.12	0.22	< 0.02
NITRATE	-	mg/l	0.16	< 0.01	0.05	0.02	0.05	--	--	< 1.0	--
NITRITE	-	mg/l	0.003	< 0.002	0.004	< 0.001	< 0.001	--	--	< 0.001	--
PH	6.5-8.5		7.89	8.18	7.82	7.80	7.80	6.90	6.90	7.96	7.99
PHENOLS	1	ug/l	12.9	< 2.0	5.04	3.77	< 2.0	--	--	4.1	< 1
SULFATE	-	mg/l	195	58	115	94	93	--	--	250	130
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 2
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 2
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1
1,1-DICHLOROETHANE	200	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 14(b)

COMPOUND (by Class)	MOE Obj.	Units	SW10-87 Aug.'86	Nov.'86	Mar.'87	May.'87	May.'87 (Dupl)	Aug.'87	Aug.'87 (Dupl)	Nov.'87	May.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1
1,2-DICHLOROETHANE	100	ug/l	--	--	--	TR	< 1.0	--	--	--	< 2
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1
1,3-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1
1,4-DICHLOROBENZENE	4	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	--	--	--	< 10
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	--	--	--	< 1
BENZENE	100p	ug/l	--	--	--	< 0.5	< 0.5	--	--	--	< 1
BROMOFORM	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 2
BROMOMETHANE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	< 16
CARBON TETRACHLORIDE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 2
CHLOROBENZENE	15	ug/l	--	--	--	< 0.5	< 0.5	--	--	--	< 1
CHLOROETHANE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	< 10
CHLOROFORM	-	ug/l	--	--	--	1.1	< 1.0	--	--	--	< 1
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	--
ETHYLBENZENE	8p	ug/l	--	--	--	--	--	--	--	--	< 1
M&P-XYLENE	-	ug/l	--	--	--	< 0.5	0.5	--	--	--	< 2
MESITYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 1
METHYL CHLORIDE	-	ug/l	--	--	--	--	--	--	--	--	< 50
METHYLENE CHLORIDE	-	ug/l	--	--	--	--	TR	--	--	--	10
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	--	--	--	< 1
O-XYLENE	40p	ug/l	--	--	--	< 0.5	< 0.5	--	--	--	< 1
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	--	--	--	< 1
TETRACHLOROETHYLENE	50	ug/l	--	--	--	TR	< 1.0	--	--	--	< 1

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 14(c)

COMPOUND (by Class)	MOE Obj.	Units	SW10-87 Aug.'86	Nov.'86	Mar.'87	May.'87	May.'87 (Dupl)	Aug.'87	Aug.'87 (Dupl)	Nov.'87	May.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TOLUENE	0.8p	ug/l	--	--	--	< 0.5	< 0.5	--	--	--	< 2
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1.0
TRICHLOROETHYLENE	20	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	< 1
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	< 2
VINYL CHLORIDE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	< 12

000754

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 15(a)

COMPOUND (by Class)	MOE Obj.	Units	SW10-87 Aug.'88	Aug.'88 (Dupl)	Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	160	1700	840	146	100	12 (a)	< 1	< 1 (a)	< 2
FAECAL STREPTOCOCCI	-	/100ml	380	440	1140	70	136	9 (a)	200	< 1 (a)	290
TOTAL COLIFORMS	-	/100ml	8300	6100	900	264	210	15 (a)	240	20 (a)	640
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	263	263	154	277	226	210	294	245	282
AMMONIA NITROGEN	0.020	mg/l	< 0.02	< 0.02	< 0.02	< 0.03	< 0.03	< 0.03	0.03	< 0.03	< 0.03
CHLORIDE	-	mg/l	131	126	30.0 J	31.5	43.6	29.3	51.6	19.1	62.5
CONDUCTIVITY	-	umhos/cm	1110	1110	521	684	544	475	1680	425	--
KJELDAHL NITROGEN	-	mg/l	< 0.02	< 0.02	0.50 J	< 0.06	0.09	0.24	0.26	0.49	0.52
PH	6.5-8.5		7.68	7.68	7.70	8.06	7.5	8.04	7.95	8.24	--
PHENOLS	1	ug/l	37	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0
SULFATE	-	mg/l	180	202	107 J	149	68.0	102	160	67.2	108
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 2.0	--
1,1,2-TRICHLOROETHANE	800	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 2.0	--
1,1-DICHLOROETHANE	200	ug/l	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	40	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 1.0	--
1,2-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 1.0	--
1,2-DICHLOROETHANE	100	ug/l	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 1.0	--
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	--	--	< 10	--
BENZENE	100p	ug/l	< 0.5	< 0.5	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 15(b)

COMPOUND (by Class)	MOE Obj.	Units	SW10-87 Aug.'88	Aug.'88 (Dupl)	Nov.'89	Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
BROMOFORM	-	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 2.0	--
BROMOMETHANE	-	ug/l	< 2.0	< 2.0	--	--	--	--	--	< 2.0	--
CARBON TETRACHLORIDE	-	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 1.0	--
CHLOROBENZENE	15	ug/l	< 0.5	< 0.5	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	< 2.0	< 2.0	--	--	--	--	--	< 2.0	--
CHLOROFORM	-	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 1.0	--
CIS-1,2-DICHLOROETHYLENE	200	ug/l	< 1.0	< 1.0	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 1.0	--
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 1.0	--
DICHLOROBROMOMETHANE	-	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 2.0	--
DICHLORODIFLUOROMETHANE	-	ug/l	< 2.0	< 2.0	--	--	--	--	--	--	--
ETHYLBENZENE	8p	ug/l	< 0.5	< 0.5	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYL CHLORIDE	-	ug/l	< 2.0	< 2.0	--	--	--	--	--	< 2.0	--
METHYLENE CHLORIDE	-	ug/l	< 1.0	< 1.0	--	4.9 UJ	--	--	--	< 1.0	--
O-XYLENE	40p	ug/l	< 0.5	< 0.5	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TOLUENE	0.8p	ug/l	< 0.5	< 0.5	--	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	< 1.0	--	--	--	--	--	< 1.0	--
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
TRICHLOROETHYLENE	20	ug/l	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0	< 1.0	--
TRICHLOROFLUOROMETHANE	-	ug/l	< 2.0	< 2.0	--	--	--	--	--	< 2.0	--
VINYL CHLORIDE	-	ug/l	< 2.0	< 2.0	--	--	--	--	--	< 2.0	--

000756

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 16(a)

COMPOUND (by Class)	MOE Obj.	Units	SW10-87 Jul.'93 (Dupl)	Apr.'94	Jul.'94	SW11-87 Nov.'89	Apr.'90	Apr.'91	Apr.'91 (Dupl)	Apr.'92	Apr.'92 (Dupl)
BIOLOGICAL TESTING											
ESCHERICHIA COLI	-	/100ml	--	--	> 1600	--	--	--	--	--	--
FAECAL COLIFORM	-	/100ml	5	11	> 1600	720	< 4	400 J	260 J	2 (a)	< 1 (a)
FAECAL STREPTOCOCCI	-	/100ml	240	9.2	> 1600	910	6	124 J	328 J	9 (a)	14 (a)
TOTAL COLIFORMS	-	/100ml	350	350	> 1600	1280	108	600 J	360 J	3 (a)	< 1 (a)
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	282	279	157	74.9	141	129	130	124	131
AMMONIA NITROGEN	0.020	mg/l	< 0.03	0.14	0.01	< 0.02	< 0.03	< 0.03	< 0.03	< 0.03	0.04
CHLORIDE	-	mg/l	63.0	27.8	41.0	10.0 J	39.0	53.3 J	11.2 J	20.4	26.4
CONDUCTIVITY	-	umhos/cm	--	700	600	380	517	353	--	305	305
KJELDAHL NITROGEN	-	mg/l	0.48	0.35	1.34	0.45 J	0.06	< 0.06	< 0.06	< 0.06	0.07
PH	6.5-8.5		--	8.3	8.1	6.95	7.30	7.5	--	7.28	7.28
PHENOLS	1	ug/l	< 1.0	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
SULFATE	-	mg/l	108	82.1	126	115 J	116	62.4	63.0	80.9	82.7
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1	< 1	< 0.50	--	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	< 0.33	--	--	--	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	< 0.21	--	--	--	--	--
1,1-DICHLOROETHANE	200	ug/l	< 1.0	< 1	< 1	< 0.20	--	< 1.0	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	< 0.32	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	< 0.50	--	--	--	--	--
1,2-DIBROMOETHANE	-	ug/l	--	--	--	< 0.18	--	--	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	< 0.24	--	--	--	--	--
1,2-DICHLOROETHANE	100	ug/l	< 1.0	< 1	< 1	< 0.82	--	< 1.0	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	< 0.20	--	--	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 1	< 1	< 0.23	--	< 1.0	< 1.0	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 16(b)

COMPOUND (by Class)	MOE Obj.	Units	SW10-87 Jul.'93 (Dupl)	SW10-87 Apr.'94	SW10-87 Jul.'94	SW11-87 Nov.'89	SW11-87 Apr.'90	SW11-87 Apr.'91	SW11-87 Apr.'91 (Dupl)	SW11-87 Apr.'92	SW11-87 Apr.'92 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	< 1	< 1	< 0.22	--	< 1.0	< 1.0	< 1.0	< 1.0
BENZENE	100p	ug/l	< 0.5	< 0.5	< 0.5	0.19 U	--	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	-	ug/l	--	--	--	< 0.49	--	--	--	--	--
BROMOMETHANE	-	ug/l	--	--	--	< 0.83	--	--	--	--	--
CARBON TETRACHLORIDE	-	ug/l	--	--	--	< 0.93	--	--	--	--	--
CHLOROBENZENE	15	ug/l	< 0.5	< 0.5	< 0.5	< 0.27	--	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	--	--	--	< 0.50	--	--	--	--	--
CHLOROFORM	-	ug/l	--	--	--	0.51 U	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 0.27	--	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	< 0.24	--	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	< 0.50	--	--	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	< 0.50	--	--	--	--	--
ETHYLBENZENE	8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.24	--	< 0.5	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	< 0.5	0.21 U	--	< 0.5	< 0.5	< 0.5	< 0.5
METHYL CHLORIDE	-	ug/l	--	--	--	0.65 U	--	--	--	--	--
METHYLENE CHLORIDE	-	ug/l	--	--	--	7.1 U	7.3 UJ	--	--	--	--
O-XYLENE	40p	ug/l	< 0.5	< 0.5	< 0.5	< 0.19	--	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	50	ug/l	< 1.0	< 1	< 1	0.21 U	--	< 1.0	--	< 1.0	< 1.0
TOLUENE	0.8p	ug/l	< 0.5	< 0.5	< 0.5	0.24 U	--	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	< 0.20	--	--	--	--	--
TRICHLOROETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	20	ug/l	--	< 1	< 1	< 0.92	--	< 1.0	< 1.0	< 1.0	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	0.26 U	--	--	--	--	--
VINYL CHLORIDE	-	ug/l	--	--	--	< 0.74	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 17(a)

COMPOUND (by Class)	MOE Obj.	Units	SW11-87 Apr.'93	SW12-87 Mar.'87	May.'87	May.'88	Aug.'88	Nov.'89	Apr.'90	Apr.'90 (Dupl)	Apr.'91
METALS											
IRON	0.300	mg/l	--	< 0.02	0.06	--	--	--	--	--	--
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/50ml	< 1 (a)	< 1	< 1	110	750	1520	120 J	24 J	46
FAECAL STREPTOCOCCI	-	/50ml	22 (a)	< 1	< 1	170	390	1600	83	72	72
TOTAL COLIFORMS	-	/50ml	50 (a)	6800	600	7100	3400	1460	200	140	124
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	156	328	719	336	115	125	257	267	214
AMMONIA NITROGEN	0.020	mg/l	< 0.03	0.06	0.95	< 0.02	< 0.02	< 0.02	0.04	< 0.03	< 0.03
CHLORIDE	-	mg/l	59.2	46	217	40.0	39.9	17.0 J	12.0	9.0	47.6
CONDUCTIVITY	-	umhos/cm	380	915	925	780	1265	562	550	550	416
DOC	-	mg/l	--	5.0	8.5	--	--	--	--	--	--
HARDNESS	-	mg/l	--	425	897	--	--	--	--	--	--
KJELDAHL NITROGEN	-	mg/l	0.33	0.42	1.48	< 0.02	< 0.02	0.50 J	0.07	0.09	< 0.06
NITRATE	-	mg/l	--	0.01	0.56	--	--	--	--	--	--
NITRITE	-	mg/l	--	0.012	0.030	--	--	--	--	--	--
PH	6.5-8.5		7.40	6.20	6.28	7.65	7.55	7.65	8.05	8.05	8.0
PHENOLS	1	ug/l	< 1.0	8.29	< 2.0	< 1	< 1	< 1	< 1	< 1	< 1
SULFATE	-	mg/l	46.4	110	138	220	518	158 J	97	104	222
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	--	< 1.0	< 2	< 1.0	< 0.50	--	--	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	< 2.0	--	< 1.0	< 2	< 1.0	< 0.33	--	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	< 2.0	--	< 1.0	< 1	< 1.0	< 0.21	--	--	--
1,1-DICHLOROETHANE	200	ug/l	< 1.0	--	< 1.0	< 1	< 1.0	< 0.20	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 17(b)

COMPOUND (by Class)	MOE Obj.	Units	SW11-87 Apr.'93	SW12-87 Mar.'87	May.'87	May.'88	Aug.'88	Nov.'89	Apr.'90	Apr.'90 (Dupl)	Apr.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,1-DICHLOROETHYLENE	40	ug/l	< 1.0	--	< 1.0	< 1	< 1.0	< 0.32	--	--	--
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	< 1.0	--	--	< 0.50	--	--	--
1,2-DIBROMOETHANE	-	ug/l	--	--	--	--	--	< 0.18	--	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	< 1.0	--	< 1.0	< 1	< 1.0	< 0.24	--	--	--
1,2-DICHLOROETHANE	100	ug/l	< 1.0	--	< 1.0	< 2	< 1.0	< 0.82	--	--	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 1.0	--	< 1.0	< 1	< 1.0	< 0.20	--	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	--	< 1.0	< 1	< 1.0	< 0.23	--	--	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	--	< 1.0	< 1	< 1.0	< 0.22	--	--	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	< 10	--	--	< 10	--	--	--	--	--
A-METHYLSTYRENE	-	ug/l	--	--	--	< 1	--	--	--	--	--
BENZENE	100p	ug/l	< 0.5	--	TR	< 1	< 0.5	0.19 U	--	--	< 0.5
BROMOFORM	-	ug/l	< 2.0	--	< 1.0	< 2	< 1.0	< 0.49	--	--	--
BROMOMETHANE	-	ug/l	< 2.0	--	< 2.0	< 16	< 2.0	< 0.83	0.83 J	17.0 J	--
CARBON TETRACHLORIDE	-	ug/l	< 1.0	--	< 1.0	< 2	< 1.0	< 0.93	--	--	--
CHLOROBENZENE	15	ug/l	< 0.5	--	1.3	< 1	< 0.5	< 0.27	--	--	< 0.5
CHLOROETHANE	-	ug/l	< 2.0	--	< 2.0	< 10	< 2.0	< 0.50	--	--	--
CHLOROFORM	-	ug/l	< 1.0	--	< 1.0	< 1	< 1.0	1.10 U	--	--	--
CIS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	< 1.0	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	< 0.27	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	--	< 1.0	< 1	< 1.0	< 0.24	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	< 2.0	--	< 1.0	< 1	< 1.0	< 0.50	--	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	< 2.0	--	< 2.0	--	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	< 0.50	--	--	--
ETHYLBENZENE	8p	ug/l	< 0.5	--	--	< 1	< 0.5	< 0.24	--	--	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	--	TR	< 2	< 0.5	0.21 U	--	--	< 0.5
MESITYLENE	-	ug/l	--	--	--	< 1	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	< 2.0	--	--	< 50	< 2.0	0.65 U	--	--	--
METHYLENE CHLORIDE	-	ug/l	< 1.0	--	--	10	< 1.0	26 U	52 UJ	110 UJ	--
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	< 1	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 17(c)

COMPOUND (by Class)	MOE Obj.	Units	SW11-87 Apr.'93	SW12-87 Mar.'87	May.'87	May.'88	Aug.'88	Nov.'89	Apr.'90	Apr.'90 (Dupl)	Apr.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)											
O-XYLENE	40p	ug/l	< 0.5	--	< 0.5	< 1	< 0.5	< 0.19	--	--	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	< 1	--	--	--	--	--
TETRACHLOROETHYLENE	50	ug/l	< 1.0	--	TR	< 1	< 1.0	0.21 U	--	--	< 1.0
TOLUENE	0.8p	ug/l	< 0.5	--	< 0.5	< 2	< 0.5	0.29 U	--	--	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	< 1.0	--	< 1.0	< 1	< 1.0	< 0.20	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	--	--	--
TRICHLOROETHYLENE	20	ug/l	< 1.0	--	< 1.0	< 1	< 1.0	< 0.92	--	--	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	< 2.0	--	< 2.0	< 2	< 2.0	0.26 U	--	--	--
VINYL CHLORIDE	-	ug/l	< 2.0	--	< 2.0	< 12	< 2.0	< 0.74	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 18(a)

COMPOUND (by Class)	MOE Obj.	Units	SW12-87 Apr.'92	Jul.'92	Apr.'93	Jul.'93	Apr.'94	Jul.'94	SW13-88 May.'88	Aug.'88	Nov.'89
BIOLOGICAL TESTING											
ESCHERICHIA COLI	-	/100ml	--	--	--	--	--	> 1600	--	--	--
FAECAL COLIFORM	-	/50ml	2 (a)	8	< 1 (a)	82	13	> 1600	142	2100	520
FAECAL STREPTOCOCCI	-	/50ml	8 (a)	250	< 1 (a)	190	4.5	> 1600	120	3400	960
TOTAL COLIFORMS	-	/50ml	11 (a)	250	2 (a)	550	33	> 1600	900	24000	960
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	221	363	224	345	272	213	332	254	175
AMMONIA NITROGEN	0.020	mg/l	< 0.03	< 0.03	< 0.03	< 0.03	0.09	< 0.01	< 0.02	0.26	< 0.02
CHLORIDE	-	mg/l	8.81	18.4	7.09	19.9	10.4	12.5	130	353	64.0 J
CONDUCTIVITY	-	umhos/cm	372	1400	315	--	500	500	1080	1723	646
KJELDAHL NITROGEN	-	mg/l	< 0.06	0.06	0.28	0.67	0.36	0.99	0.19	0.87	0.55 J
PH	6.5-8.5		7.74	8.08	8.49	--	8.3	8.3	7.39	8.10	7.57
PHENOLS	1	ug/l	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1	< 1
SULFATE	-	mg/l	55.1	49.2	35.5	24.9	46.7	20.9	202	164	105 J
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 2	< 1.0	< 0.50
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	< 2.0	--	--	--	< 2	< 1.0	< 0.33
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	< 2.0	--	--	--	< 1	< 1.0	< 0.21
1,1-DICHLOROETHANE	200	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1.0	< 0.20
1,1-DICHLOROETHYLENE	40	ug/l	--	--	< 1.0	--	--	--	< 1	< 1.0	< 0.32
1,2,4-TRICHLOROBENZENE	0.5	ug/l	--	--	--	--	--	--	--	--	< 0.50
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	< 1.0	--	--	--	< 1	< 1.0	< 0.24
1,2-DICHLOROETHANE	100	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 2	< 1.0	< 0.82
1,2-DICHLOROPROPANE	-	ug/l	--	--	< 1.0	--	--	--	< 1	< 1.0	< 0.20
1,3-DICHLOROBENZENE	2.5	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1.0	< 0.23
1,4-DICHLOROBENZENE	4	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1.0	< 0.22

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 18(b)

COMPOUND (by Class)	MOE Obj.	Units	SW12-87 Apr.'92	Jul.'92	Apr.'93	Jul.'93	Apr.'94	Jul.'94	SW13-88 May.'88	Aug.'88	Nov.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)											
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	< 10	--	--	--	< 10	--	< 0.50
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	--	< 1	--	--
BENZENE	100p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.19
BROMOFORM	-	ug/l	--	--	< 2.0	--	--	--	< 2	< 1.0	< 0.49
BROMOMETHANE	-	ug/l	--	--	< 2.0	--	--	--	< 16	< 2.0	< 0.83
CARBON TETRACHLORIDE	-	ug/l	--	--	< 1.0	--	--	--	< 2	< 1.0	< 0.93
CHLOROBENZENE	15	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.27
CHLOROETHANE	-	ug/l	--	--	< 2.0	--	--	--	< 10	< 2.0	< 0.50
CHLOROFORM	-	ug/l	--	--	< 1.0	--	--	--	< 1	< 1.0	0.51 U
CIS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	--	--	--	< 1.0	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	--	--	--	< 1.0	< 1.0	< 0.27
DIBROMOCHLOROMETHANE	-	ug/l	--	--	< 1.0	--	--	--	< 1	< 1.0	< 0.24
DICHLOROBROMOMETHANE	-	ug/l	--	--	< 2.0	--	--	--	< 1	< 1.0	< 0.50
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 0.50
ETHYLBENZENE	8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.24
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5	0.21 U
MESITYLENE	-	ug/l	--	--	--	--	--	--	< 1	--	--
METHYL CHLORIDE	-	ug/l	--	--	< 2.0	--	--	--	< 50	< 2.0	< 0.65
METHYLENE CHLORIDE	-	ug/l	--	--	< 1.0	--	--	--	< 10	< 10	1.18 U
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	--	< 1	--	--
O-XYLENE	40p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.19
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	--	< 1	--	--
TETRACHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	< 1.0	< 0.21
TOLUENE	0.8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 2	< 0.5	< 0.24
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	< 1.0	--	--	--	< 1	< 1.0	< 0.20
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1.0	--	--	--	< 1.0	< 1.0	< 1.0
TRICHLOROETHANE	-	ug/l	--	--	--	< 1.0	--	--	--	--	--
TRICHLOROETHYLENE	20	ug/l	< 1.0	< 1.0	< 1.0	--	< 1	< 1	< 1	< 1.0	< 0.92

000763

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 18(c)

COMPOUND (by Class)	MOE Obj.	Units	SW12-87 Apr.'92	Jul.'92	Apr.'93	Jul.'93	Apr.'94	Jul.'94	SW13-88 May.'88	Aug.'88	Nov.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	< 2.0	--	--	--	< 2	< 2.0	< 0.26
VINYL CHLORIDE	-	ug/l	--	--	< 2.0	--	--	--	< 12	< 2.0	< 0.74

000764

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 19(a)

COMPOUND (by Class)	MOE Obj.	Units	SW13-88 Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Apr.'93 (Dupl)	Jul.'93	Apr.'94	SW13-93 Apr.'93
BIOLOGICAL TESTING											
FAECAL COLIFORM	-	/100ml	168	80	2 (a)	< 1	< 1 (a)	< 1 (a)	520	13	--
FAECAL STREPTOCOCCI	-	/100ml	62	224	25 (a)	400	< 1 (a)	2 (a)	360	17	--
TOTAL COLIFORMS	-	/100ml	260	170	7 (a)	2	8 (a)	12 (a)	11000	920	--
GENERAL CHEMISTRY											
ALKALINITY	-	mg/l	287	227	220	334	265	--	297	290	268
AMMONIA NITROGEN	0.020	mg/l	< 0.03	< 0.03	< 0.03	< 0.03	0.18	--	< 0.03	0.12	0.07
CHLORIDE	-	mg/l	82.0	75.2	61.4	170	56.5	--	176	91.3	22.4
CONDUCTIVITY	-	umhos/cm	870	596	538	3050	560	--	--	1000	440
KJELDAHL NITROGEN	-	mg/l	< 0.06	< 0.06	0.24	0.25	0.32	--	1.31	0.32	0.57
PH	6.5-8.5		8.11	7.5	7.92	8.26	8.40	--	--	8.4	8.37
PHENOLS	1	ug/l	1	< 1	< 1	< 1.0	< 1.0	--	< 1.0	< 1	< 1.0
SULFATE	-	mg/l	172	67.7	85.8	151	86.2	--	144	99.4	58.9
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1	< 1.0
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0
1,1,2-TRICHLOROETHANE	800	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0
1,1-DICHLOROETHANE	200	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1	< 1.0
1,1-DICHLOROETHYLENE	40	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
1,2-DICHLOROBENZENE	2.5	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
1,2-DICHLOROETHANE	100	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
1,3-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1	< 1.0
1,4-DICHLOROBENZENE	4	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	< 10	--	--	--	< 10
BENZENE	100p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 19(b)

COMPOUND (by Class)	MOE Obj.	Units	SW13-88 Apr.'90	Apr.'91	Apr.'92	Jul.'92	Apr.'93	Apr.'93 (Dupl)	Jul.'93	Apr.'94	SW13-93 Apr.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
BROMOFORM	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0
BROMOMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0
CARBON TETRACHLORIDE	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
CHLOROBENZENE	15	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0
CHLOROFORM	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0
ETHYLBENZENE	8p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
METHYL CHLORIDE	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0
METHYLENE CHLORIDE	-	ug/l	1.02 UJ	--	--	--	< 1.0	--	--	--	< 1.0
O-XYLENE	40p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	50	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	< 1.0	< 1	< 1.0
TOLUENE	0.8p	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	--	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	--	--	< 1.0
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
TRICHLOROETHYLENE	20	ug/l	--	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0
VINYL CHLORIDE	-	ug/l	--	--	--	--	< 2.0	--	--	--	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 20(a)

COMPOUND (by Class)	MOE Obj.	Units	SW13-93 Jul.'94	SW14-93 Apr.'93	SW15-93 Apr.'93	SWFB2 Apr.'94	SWFBLK Jul.'94
BIOLOGICAL TESTING							
ESCHERICHIA COLI	-	/100ml	> 1600	--	--	--	< 1.8
FAECAL COLIFORM	-	/100ml	> 1600	< 1 (a)	< 1 (a)	< 1.8	< 1.8
FAECAL STREPTOCOCCI	-	/100ml	> 1600	< 1 (a)	< 1 (a)	< 1.8	< 1.8
TOTAL COLIFORMS	-	/100ml	> 1600	< 1 (a)	2 (a)	< 1.8	< 1.8
GENERAL CHEMISTRY							
ALKALINITY	-	mg/l	142	370	194	--	--
AMMONIA NITROGEN	0.020	mg/l	0.39	2.57	< 0.03	--	--
CHLORIDE	-	mg/l	7.72	95.4	18.7	--	--
CONDUCTIVITY	-	umhos/cm	300	700	400	--	44
KJELDAHL NITROGEN	-	mg/l	4.13	2.80	1.68	--	--
PH	6.5-8.5		7.9	7.85	7.88	8.5	8.1
PHENOLS	1	ug/l	< 1	< 1.0	< 1.0	--	--
SULFATE	-	mg/l	42.3	86.7	39.5	--	--
VOLATILE ORGANIC COMPOUNDS							
1,1,1-TRICHLOROETHANE	-	ug/l	< 1	< 1.0	< 1.0	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	70	ug/l	--	< 2.0	< 2.0	--	--
1,1,2-TRICHLOROETHANE	800	ug/l	--	< 2.0	< 2.0	--	--
1,1-DICHLOROETHANE	200	ug/l	< 1	< 1.0	< 1.0	< 1	< 1
1,1-DICHLOROETHYLENE	40	ug/l	--	< 1.0	< 1.0	--	--
1,2-DICHLOROBENZENE	2.5	ug/l	--	< 1.0	< 1.0	--	--
1,2-DICHLOROETHANE	100	ug/l	< 1	< 1.0	< 1.0	< 1	< 1
1,2-DICHLOROPROPANE	-	ug/l	--	< 1.0	< 1.0	--	--
1,3-DICHLOROBENZENE	2.5	ug/l	< 1	< 1.0	< 1.0	< 1	< 1
1,4-DICHLOROBENZENE	4	ug/l	< 1	< 1.0	< 1.0	< 1	< 1
2-CHLOROETHYLVINYLETHER	-	ug/l	--	< 10	< 10	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Sample Locations

Report 20(b)

COMPOUND (by Class)	MOE Obj.	Units	SW13-93 Jul.'94	SW14-93 Apr.'93	SW15-93 Apr.'93	SWFB2 Apr.'94	SWFBLK Jul.'94
VOLATILE ORGANIC COMPOUNDS (cont'd)							
BENZENE	100p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	-	ug/l	--	< 2.0	< 2.0	--	--
BROMOMETHANE	-	ug/l	--	< 2.0	< 2.0	--	--
CARBON TETRACHLORIDE	-	ug/l	--	< 1.0	< 1.0	--	--
CHLOROBENZENE	15	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	--	< 2.0	< 2.0	--	--
CHLOROFORM	-	ug/l	--	< 1.0	< 1.0	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	< 1.0	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1.0	< 1.0	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	< 2.0	< 2.0	--	--
ETHYLBENZENE	8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYL CHLORIDE	-	ug/l	--	< 2.0	< 2.0	--	--
METHYLENE CHLORIDE	-	ug/l	--	< 1.0	< 1.0	--	--
O-XYLENE	40p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	50	ug/l	< 1	< 1.0	< 1.0	< 1	< 1
TOLUENE	0.8p	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	200	ug/l	--	< 1.0	< 1.0	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	< 1.0	--	--
TRICHLOROETHYLENE	20	ug/l	< 1	< 1.0	< 1.0	< 1	< 1
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	< 2.0	--	--
VINYL CHLORIDE	-	ug/l	--	< 2.0	< 2.0	--	--

000768

LEGEND (MOE Obj.: Ontario Surface Water or Groundwater Objectives, revised July 1993)

J - The associated value is an estimated quantity.
U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ - The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.
-- - The parameter was not analyzed.
ND - The material was analyzed, but not detected above an unstated method detection limit.
TR - Trace level detection.
< - Indicates result less than that shown.
> - Indicates result greater than that shown.
R - The data was not useable.
NS - Insufficient sample.
p - Proposed MOE Surface Water Objective.
* - for PH >6.5 to 9.0
*** - a) Cadmium-0.15 ug/l (if hardness 0-100)
0.45 ug/l (if hardness >100)
b) Copper-1 ug/l (if hardness 0-20)
5 ug/l (if hardness >20)
c) Lead-1 ug/l (if hardness 0-30)
3 ug/l (if hardness 30-80)
5 ug/l (if hardness >80)
d) Beryllium- 11 ug/l (if hardness <75)
1100 ug/l (if hardness >75)
(a) - Indicates units were /50ml rather than that shown.
- for pH of 6.5 to 9.0

APPENDIX G-2

GROUNDWATER

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 1(a)

COMPOUND (by Class)	MOE Obj.	Units	HC1-1 Jun.'87	Aug.'87	Aug.'87 (Dupl)	HC2-1 Jun.'87	Jun.'87 (Dupl)	Aug.'87	HC4-1 May.'88	Aug.'88	Nov.'89
BIOLOGICAL TESTING											
FAECAL COLIFORM	0/100ml/100ml		--	--	--	--	--	--	< 1	< 1	--
FAECAL STREPTOCOCCI	0/100ml/100ml		--	--	--	--	--	--	< 1	< 1	--
TOTAL COLIFORMS	5/100ml/100ml		--	--	--	--	--	--	< 1	< 1	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	--	--	--	--	--	--	82	79	297
AMMONIA NITROGEN	-	mg/l	0.21	0.32	0.21	0.77	0.76	0.87	< 0.02	9.28	< 0.03
CHLORIDE	250	mg/l	--	--	--	--	--	--	9750	9000	26
CONDUCTIVITY	-	umhos/cm	6250	5530	5580	1370	1380	1763	19460	18290	1249
FREE AMMONIA	-	mg/l	0.26	0.39	0.26	0.94	0.93	1.06	--	--	--
KJELDAHL NITROGEN	-	mg/l	2.56	0.37	0.64	5.16	2.84	1.00	11	9.3	0.20 J
ORGANIC NITROGEN	0.150	mg/l	2.35	0.05	0.43	4.39	2.08	0.13	--	--	--
PH	6.5-8.5		7.16	7.07	7.09	7.44	7.53	7.54	6.29	6.93	7.30
PHENOLS	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
SULFATE	500	mg/l	--	--	--	--	--	--	2510	2230	659
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,1-DICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,1-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,2-DICHLOROBENZENE	200	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,2-DICHLOROETHANE	5	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,3-DICHLOROBENZENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
1,4-DICHLOROBENZENE	5	ug/l	--	--	--	--	--	--	--	< 1.0	--

000771

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 1(b)

COMPOUND (by Class)	MOE Obj.	Units	HC1-1 Jun.'87	HC1-1 Aug.'87	HC1-1 Aug.'87 (Dupl)	HC2-1 Jun.'87	HC2-1 Jun.'87 (Dupl)	HC2-1 Aug.'87	HC4-1 May.'88	HC4-1 Aug.'88	HC4-1 Nov.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)											
BENZENE	5	ug/l	--	--	--	--	--	--	--	< 0.5	--
BROMOFORM	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
BROMOMETHANE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--
CARBON TETRACHLORIDE	5	ug/l	--	--	--	--	--	--	--	< 1.0	--
CHLOROBENZENE	80	ug/l	--	--	--	--	--	--	--	< 0.5	--
CHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--
CHLOROFORM	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--
ETHYLBENZENE	2.4	ug/l	--	--	--	--	--	--	--	< 0.5	--
M&P-XYLENE	-	ug/l	--	--	--	--	--	--	--	< 0.5	--
METHYL CHLORIDE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--
METHYLENE CHLORIDE	50	ug/l	--	--	--	--	--	--	--	< 1.0	--
O-XYLENE	300	ug/l	--	--	--	--	--	--	--	< 0.5	--
TETRACHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
TOLUENE	24	ug/l	--	--	--	--	--	--	--	< 0.5	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	--	--	--	< 1.0	--
TRICHLOROETHYLENE	50	ug/l	--	--	--	--	--	--	--	< 1.0	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 2.0	--
VINYL CHLORIDE	2.0	ug/l	--	--	--	--	--	--	--	< 2.0	--

000772

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 2(a)

COMPOUND (by Class)	MOE Obj.	Units	HC4-2 May.'88	Aug.'88	Jul.'89	Nov.'89	Apr.'90	Aug.'90	Apr.'91	Apr.'91 (Dupl)	Jul.'91
BIOLOGICAL TESTING											
FAECAL COLIFORM	0/100ml	/100ml	48	< 1	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	0/100ml	/100ml	12	2	--	--	--	--	--	--	--
TOTAL COLIFORMS	5/100ml	/100ml	200	55	--	--	--	--	--	--	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	328	333	298	248	84	258	226	210	253
AMMONIA NITROGEN	-	mg/l	< 0.02	< 0.02	< 0.02	0.91 J	13.0	7.63	5.17	4.10	1.58
CHLORIDE	250	mg/l	136	35	58	860	6778	655	920	852	710
CONDUCTIVITY	-	umhos/cm	5480	20900	2200	2850	12300	3810	3450	--	3150
KJELDAHL NITROGEN	-	mg/l	5.42	0.95	0.59	1.15 J	16.8	12.4	8.47	7.10	2.34
PH	6.5-8.5		7.15	7.07	6.80	7.70	7.09	6.92	6.5	--	7.0
PHENOLS	-	ug/l	< 1.0	--	--	--	< 1	1 J	< 1	< 1	1
SULFATE	500	mg/l	1050	1100	444	861	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	< 0.50	--	--	--	--	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	< 1.0	--	< 0.33	--	--	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	< 0.21	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	--	< 1.0	--	< 0.20	--	--	--	--	--
1,1-DICHLOROETHYLENE	-	ug/l	--	< 1.0	--	< 0.32	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	-	ug/l	--	--	--	< 0.50	--	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	--	< 1.0	--	< 0.24	--	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	--	< 1.0	--	< 0.82	--	--	--	--	--
1,2-DICHLOROPROPANE	-	ug/l	--	< 1.0	--	< 0.20	--	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	--	< 1.0	--	< 0.23	--	--	--	--	--
1,4-DICHLOROBENZENE	5	ug/l	--	< 1.0	--	< 0.22	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	< 0.50	--	--	--	--	--

000773

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 2(b)

COMPOUND (by Class)	MOE Obj.	Units	HC4-2 May.'88	Aug.'88	Jul.'89	Nov.'89	Apr.'90	Aug.'90	Apr.'91	Apr.'91 (Dupl)	Jul.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)											
BENZENE	5	ug/l	--	< 0.5	--	< 0.19	--	--	--	--	--
BROMOFORM	-	ug/l	--	< 1.0	--	< 0.49	--	--	--	--	--
BROMOMETHANE	-	ug/l	--	< 2.0	--	< 0.83	--	--	--	--	--
CARBON TETRACHLORIDE	5	ug/l	--	< 1.0	--	< 0.93	--	--	--	--	--
CHLOROBENZENE	80	ug/l	--	< 0.5	--	< 0.27	--	--	--	--	--
CHLOROETHANE	-	ug/l	--	< 2.0	--	< 0.50	--	--	--	--	--
CHLOROFORM	-	ug/l	--	< 1.0	--	3.4 U	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	< 0.27	--	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	< 1.0	--	< 0.24	--	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	< 1.0	--	< 0.50	--	--	--	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	< 2.0	--	< 0.50	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	--	< 0.5	--	< 0.24	--	--	--	--	--
M&P-XYLENE	-	ug/l	--	< 0.5	--	< 0.21	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	--	< 2.0	--	< 0.65 UJ	--	--	--	--	--
METHYLENE CHLORIDE	50	ug/l	--	< 1.0	--	3.5 J	--	--	--	--	--
O-XYLENE	300	ug/l	--	< 0.5	--	< 0.19	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	--	< 1.0	--	< 0.21	--	--	--	--	--
TOLUENE	24	ug/l	--	< 0.5	--	0.35	--	--	--	--	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 1.0	--	< 0.20	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	--	< 1.0	--	< 0.92	--	--	--	--	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	--	< 0.26	--	--	--	--	--
VINYL CHLORIDE	2.0	ug/l	--	< 2.0	--	< 0.74	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 3

COMPOUND (by Class)	MOE Obj.	Units	HC4-2 Apr.'92	Jul.'92	Apr.'93	Jul.'93	Apr.'94	Jul.'94	Jul.'94 (Dupl)	HC4-3 Jul.'89	Nov.'89
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	216	226	212	209	242	328	318	317	326
AMMONIA NITROGEN	-	mg/l	5.18	4.49	7.00	4.60	3.21	0.06	0.05	< 0.02	< 0.03 UJ
CHLORIDE	250	mg/l	653	522	713	646	475	20.3	19.4	32	30
CONDUCTIVITY	-	umhos/cm	3600	8910	3400	4800	4500	1200	1200	1030	1988
KJELDAHL NITROGEN	-	mg/l	5.51	5.03	7.28	5.44	3.81	1.32	1.61	1.84	< 0.06 UJ
PH	6.5-8.5		7.60	6.93	7.11	7.4	7.4	7.3	7.3	6.90	7.20
PHENOLS	-	ug/l	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1	< 1	--	--
SULFATE	500	mg/l	--	--	--	--	--	--	--	1530	1775
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	< 1.0	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	--	--	--	--	--	--	--	--
BENZENE	5	ug/l	< 0.5	--	--	--	--	--	--	--	--
CHLOROBENZENE	80	ug/l	< 0.5	--	--	--	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	< 0.5	--	--	--	--	--	--	--	--
M&P-XYLENE	-	ug/l	< 0.5	--	--	--	--	--	--	--	--
O-XYLENE	300	ug/l	< 0.5	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
TOLUENE	24	ug/l	< 0.5	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	< 1.0	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 4

COMPOUND (by Class)	MOE Obj.	Units	HC4-3 Apr.'90	Aug.'90	Apr.'91	Jul.'91	Apr.'92	Jul.'92	Apr.'93	Jul.'93	Jul.'93 (Dupl)
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	330	400	320	333	326	302	330	308	300
AMMONIA NITROGEN	-	mg/l	0.42	0.27	< 0.03	0.35	0.06	0.18	0.14	< 0.03	0.35
CHLORIDE	250	mg/l	68.0	15.0	29.8	19.4	29.2	20.6	30.6	23.0	78.7
CONDUCTIVITY	-	umhos/cm	2240	1740	1610	1072	1620	3640	1600	1950	--
KJELDAHL NITROGEN	-	mg/l	0.68	0.83 U	< 0.06	0.65	0.15	0.47	1.03	3.53	4.73
PH	6.5-8.5		7.15	6.73	6.5	7.1	7.33	6.83	7.08	7.3	--
PHENOLS	-	ug/l	< 1	2 J	< 1	2	< 1	< 1.0	< 1.0	< 1.0	< 1.0
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0
1,1-DICHLOROETHANE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0
1,2-DICHLOROETHANE	5	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0
1,3-DICHLOROBENZENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0
1,4-DICHLOROBENZENE	5	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0
BENZENE	5	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	< 0.5
CHLOROBENZENE	80	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	< 0.5
ETHYLBENZENE	2.4	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	< 0.5
O-XYLENE	300	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	< 0.5
TETRACHLOROETHYLENE	-	ug/l	--	--	--	< 1.0	--	--	--	< 1.0	< 1.0
TOLUENE	24	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	< 0.5
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 1.0	< 1.0
TRICHLOROETHYLENE	50	ug/l	--	--	--	< 1.0	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 5(a)

COMPOUND (by Class)	MOE Obj.	Units	HC4-4 Jul.'89	Nov.'89	Apr.'90	Aug.'90	Apr.'91	Jul.'91	Apr.'92	Jul.'92	Apr.'93
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	210	320	512	436	306	336	327	325	368
AMMONIA NITROGEN	-	mg/l	5.49	< 0.03 UJ	0.05	0.43	< 0.03	0.36	0.04	0.11	0.03
CHLORIDE	250	mg/l	710	26.0	28.0	15.0	27.6	14.6	26.1	17.0	36.2
CONDUCTIVITY	-	umhos/cm	9760	1820	1478	1810	1323	1015	1450	3300	1200
KJELDAHL NITROGEN	-	mg/l	9.45	0.40 J	1.28	1.08 U	< 0.06	1.15	0.14	0.39	0.60
PH	6.5-8.5		6.99	7.10	7.25	7.03	6.5	7.0	7.43	7.00	7.16
PHENOLS	-	ug/l	--	--	< 1	< 1	< 1	< 1	< 1	< 1.0	< 1.0
SULFATE	500	mg/l	3080	1348	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	< 1	--	--	--	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	--	--	< 2	--	--	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	--	< 2	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	--	--	--	< 1	--	--	--	< 1.0	--
1,1-DICHLOROETHYLENE	-	ug/l	--	--	--	< 1	--	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	--	--	--	< 1	--	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	--	--	--	< 1	--	--	--	< 1.0	--
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	< 1	--	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	--	--	--	< 1	--	--	--	< 1.0	--
1,4-DICHLOROBENZENE	5	ug/l	--	--	--	< 1	--	--	--	< 1.0	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	< 10	--	--	--	--	--
BENZENE	5	ug/l	--	--	--	TR U	--	--	--	< 0.5	--
BROMOFORM	-	ug/l	--	--	--	< 2	--	--	--	--	--
BROMOMETHANE	-	ug/l	--	--	--	< 2	--	--	--	--	--
CARBON TETRACHLORIDE	5	ug/l	--	--	--	< 1	--	--	--	--	--
CHLOROBENZENE	80	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	--
CHLOROETHANE	-	ug/l	--	--	--	< 2	--	--	--	--	--
CHLOROFORM	-	ug/l	--	--	--	< 1	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 5(b)

COMPOUND (by Class)	MOE Obj.	Units	HC4-4 Jul.'89	Nov.'89	Apr.'90	Aug.'90	Apr.'91	Jul.'91	Apr.'92	Jul.'92	Apr.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	< 1	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1	--	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	< 1	--	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	< 2	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	--
M&P-XYLENE	-	ug/l	--	--	--	--	--	--	--	< 0.5	--
METHYL CHLORIDE	-	ug/l	--	--	--	< 2	--	--	--	--	--
METHYLENE CHLORIDE	50	ug/l	--	--	--	< 1	--	--	--	--	--
O-XYLENE	300	ug/l	--	--	--	--	--	--	--	< 0.5	--
TETRACHLOROETHYLENE	-	ug/l	--	--	--	< 1	--	--	--	< 1.0	--
TOLUENE	24	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	< 1	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1	--	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	--	--	--	< 1	--	--	--	< 1.0	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	< 2	--	--	--	--	--
VINYL CHLORIDE	2.0	ug/l	--	--	--	< 2	--	--	--	--	--

000778

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 6(a)

COMPOUND (by Class)	MOE Obj.	Units	HC4-4 Jul.'93	HC4-4 Apr.'94	HC4-4 Jul.'94	HC6-1 Nov.'89	HC6-2 Nov.'89	HC6-3 Jul.'89	HC6-3 Nov.'89	HC6-4 Nov.'89	HC7-1 Jul.'89
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	321	329	311	216	148	107	NS	156	44
AMMONIA NITROGEN	-	mg/l	< 0.03	0.42	< 0.01	4.59 J	5.13 J	13.40	NS	4.80 J	10.4
CHLORIDE	250	mg/l	26.5	25.1	23.1	2524	2799	10700	115	2724	6750
CONDUCTIVITY	-	umhos/cm	2000	1700	1900	5720	5950	1840	NS	6030	12050
KJELDAHL NITROGEN	-	mg/l	3.04	3.30	0.66	7.21 J	6.20 J	13.40	NS	5.42 J	12.10
PH	6.5-8.5		7.6	7.3	7.2	7.00	7.00	7.10	NS	7.00	7.08
PHENOLS	-	ug/l	< 1.0	< 1	< 1	--	--	--	--	--	--
SULFATE	500	mg/l	--	--	--	979	1805	2530	203	1390	1470
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	< 1	--	< 0.50	--	--	--	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	--	--	--	< 0.33	--	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	--	--	0.31 U	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	--	--	< 1	--	< 0.20	--	--	--	--
1,1-DICHLOROETHYLENE	-	ug/l	--	--	--	--	< 0.32	--	--	--	--
1,2,4-TRICHLOROBENZENE	-	ug/l	--	--	--	--	< 0.50	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	--	--	--	--	< 0.24	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	--	--	< 1	--	< 0.82	--	--	--	--
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	< 0.20	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	--	--	< 1	--	< 0.23	--	--	--	--
1,4-DICHLOROBENZENE	5	ug/l	--	--	< 1	--	< 0.22	--	--	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	< 0.50	--	--	--	--
BENZENE	5	ug/l	--	--	< 0.5	--	< 0.19	--	--	--	--
BROMOFORM	-	ug/l	--	--	--	--	< 0.49	--	--	--	--
BROMOMETHANE	-	ug/l	--	--	--	--	< 0.83	--	--	--	--
CARBON TETRACHLORIDE	5	ug/l	--	--	--	--	< 0.93	--	--	--	--
CHLOROBENZENE	80	ug/l	--	--	< 0.5	--	< 0.27	--	--	--	--
CHLOROETHANE	-	ug/l	--	--	--	--	< 0.50	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 6(b)

COMPOUND (by Class)	MOE Obj.	Units	HC4-4 Jul.'93	HC4-4 Apr.'94	HC4-4 Jul.'94	HC6-1 Nov.'89	HC6-2 Nov.'89	HC6-3 Jul.'89	HC6-3 Nov.'89	HC6-4 Nov.'89	HC7-1 Jul.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CHLOROFORM	-	ug/l	--	--	--	--	3.5 U	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 0.27	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	< 0.24	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	< 0.50	--	--	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	< 0.50	--	--	--	--
ETHYLBENZENE	2.4	ug/l	--	--	< 0.5	--	< 0.24	--	--	--	--
M&P-XYLENE	-	ug/l	--	--	< 0.5	--	< 0.21	--	--	--	--
METHYL CHLORIDE	-	ug/l	--	--	--	--	< 0.65	--	--	--	--
METHYLENE CHLORIDE	50	ug/l	--	--	--	--	< 0.92	--	--	--	--
O-XYLENE	300	ug/l	--	--	< 0.5	--	< 0.19	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	--	--	< 1	--	< 0.21	--	--	--	--
TOLUENE	24	ug/l	--	--	< 0.5	--	< 0.24	--	--	--	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	1.37 U	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	--	--	< 1	--	< 0.92	--	--	--	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	< 0.26	--	--	--	--
VINYL CHLORIDE	2.0	ug/l	--	--	--	--	0.94	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 7

COMPOUND (by Class)	MOE Obj.	Units	HC7-1 Nov.'89	Apr.'90	Aug.'90	Apr.'91	Jul.'91	Apr.'92	Jul.'92	Jul.'92 (Dupl)	Apr.'93
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	374	202	54	66	99	56	97	87	91.4
AMMONIA NITROGEN	-	mg/l	7.61 J	11.3	14.3	11.2	1.42	9.37	8.03	7.84	8.50
CHLORIDE	250	mg/l	6198	5418	5478	11717	5350	4315	4240	4364	5148
CONDUCTIVITY	-	umhos/cm	8840	9800	8750	9140	7560	12400	2800	2800	8200
KJELDAHL NITROGEN	-	mg/l	10.9 J	15.9	21.9	16.4	5.70	10.8	9.59	8.76	8.62
PH	6.5-8.5		6.80	7.05	6.56	7.0	6.6	6.28	7.55	7.55	7.07
PHENOLS	-	ug/l	--	< 1	1 J	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0
SULFATE	500	mg/l	1531	--	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	< 1.0	--
1,1-DICHLOROETHANE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	< 1.0	--
1,2-DICHLOROETHANE	5	ug/l	--	--	--	--	< 1.0	--	< 1.0	< 1.0	--
1,3-DICHLOROBENZENE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	< 1.0	--
1,4-DICHLOROBENZENE	5	ug/l	--	--	--	--	< 1.0	--	< 1.0	< 1.0	--
BENZENE	5	ug/l	--	--	--	--	< 0.5	--	< 0.5	< 0.5	--
CHLOROBENZENE	80	ug/l	--	--	--	--	< 0.5	--	< 0.5	< 0.5	--
ETHYLBENZENE	2.4	ug/l	--	--	--	--	< 0.5	--	< 0.5	< 0.5	--
M&P-XYLENE	-	ug/l	--	--	--	--	< 0.5	--	< 0.5	< 0.5	--
O-XYLENE	300	ug/l	--	--	--	--	< 0.5	--	< 0.5	< 0.5	--
TETRACHLOROETHYLENE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	< 1.0	--
TOLUENE	24	ug/l	--	--	--	--	2.3	--	< 0.5	< 0.5	--
TRICHLOROETHYLENE	50	ug/l	--	--	--	--	< 1.0	--	< 1.0	< 1.0	--

000781

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 8(a)

COMPOUND (by Class)	MOE Obj.	Units	HC7-1 Apr.'93 (Dupl)	Jul.'93	Apr.'94	Jul.'94	HC7-2 Jul.'89	Nov.'89	Apr.'90	Aug.'90	Aug.'90 (Dupl)
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	88.4	59.2	70.0	75.0	348	358	339	300	338
AMMONIA NITROGEN	-	mg/l	9.50	6.40	8.67	8.99	0.18	0.91 J	1.48	4.43	3.75
CHLORIDE	250	mg/l	4992	4408	3483	5426	156	144	156	190	230
CONDUCTIVITY	-	umhos/cm	--	12000	11300	8800	1202	1230	1223	1390	--
KJELDAHL NITROGEN	-	mg/l	10.1	7.11	9.07	12.0	0.67	1.33 J	2.53	6.64	8.60
PH	6.5-8.5		--	7.5	7.3	7.3	6.82	7.20	7.08	6.61	--
PHENOLS	-	ug/l	< 1.0	2.2	< 1	< 1	--	--	< 1	< 1	9 J
SULFATE	500	mg/l	--	--	--	--	248	205	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	< 1	--	--	--	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 2	< 2
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 2	< 2
1,1-DICHLOROETHANE	-	ug/l	--	--	--	< 1	--	--	--	< 1	< 1
1,1-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 1	< 1
1,2-DICHLOROBENZENE	200	ug/l	--	--	--	--	--	--	--	< 1	< 1
1,2-DICHLOROETHANE	5	ug/l	--	--	--	< 1	--	--	--	< 1	< 1
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	--	--	--	--	< 1	< 1
1,3-DICHLOROBENZENE	-	ug/l	--	--	--	< 1	--	--	--	< 1	< 1
1,4-DICHLOROBENZENE	5	ug/l	--	--	--	< 1	--	--	--	< 1	< 1
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	--	--	--	--	< 10	< 10
BENZENE	5	ug/l	--	--	--	< 0.5	--	--	--	TR U	TR U
BROMOFORM	-	ug/l	--	--	--	--	--	--	--	< 2	< 2
BROMOMETHANE	-	ug/l	--	--	--	--	--	--	--	< 2	< 2
CARBON TETRACHLORIDE	5	ug/l	--	--	--	--	--	--	--	< 1	< 1
CHLOROBENZENE	80	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	--	--	--	--	--	--	--	< 2	< 2
CHLOROFORM	-	ug/l	--	--	--	--	--	--	--	< 1	< 1

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 8(b)

COMPOUND (by Class)	MOE Obj.	Units	HC7-1 Apr.'93 (Dupl)	Jul.'93	Apr.'94	Jul.'94	HC7-2 Jul.'89	Nov.'89	Apr.'90	Aug.'90	Aug.'90 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 1	< 1
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	--	--	--	< 1	< 1
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 1	< 1
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	--	--	--	--	< 2	< 2
ETHYLBENZENE	2.4	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	--	--	--	< 0.5	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	--	--	--	--	--	--	--	< 2	< 2
METHYLENE CHLORIDE	50	ug/l	--	--	--	--	--	--	--	< 1	1.3 U
O-XYLENE	300	ug/l	--	--	--	< 0.5	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	--	--	--	< 1	--	--	--	< 1	< 1
TOLUENE	24	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	< 1	< 1
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	--	--	--	< 1	< 1
TRICHLOROETHYLENE	50	ug/l	--	--	--	< 1	--	--	--	< 1	< 1
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	< 2	< 2
VINYL CHLORIDE	2.0	ug/l	--	--	--	--	--	--	--	< 2	< 2

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 9

COMPOUND (by Class)	MOE Obj.	Units	HC7-2 Apr.'91	Jul.'91	Apr.'92	Apr.'92 (Dupl)	Jul.'92	Apr.'93	Jul.'93	Apr.'94	Apr.'94 (Dupl)
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	312	286	373	382	335	370	360	370	366
AMMONIA NITROGEN	-	mg/l	1.04	0.64	0.70	0.48	1.44	0.90	< 0.03	< 0.01 UJ	0.19 J
CHLORIDE	250	mg/l	131	208	110	107	159	50.0	47.3	100	81.3
CONDUCTIVITY	-	umhos/cm	1285	1386	18000	18000	21000	740	890	1000	1000
KJELDAHL NITROGEN	-	mg/l	1.50	1.86	0.89	0.59	1.80	1.03	0.63	0.18 J	0.92 J
PH	6.5-8.5		7.0	7.0	6.56	6.56	7.63	7.26	7.7	7.2	7.2
PHENOLS	-	ug/l	< 1	< 1	< 1	< 1	< 1.0	< 1.0	2.2	< 1	< 1
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
1,1-DICHLOROETHANE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
1,2-DICHLOROETHANE	5	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
1,3-DICHLOROBENZENE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
1,4-DICHLOROBENZENE	5	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
BENZENE	5	ug/l	--	--	--	--	< 0.5	--	< 0.5	--	--
CHLOROBENZENE	80	ug/l	--	--	--	--	< 0.5	--	< 0.5	--	--
ETHYLBENZENE	2.4	ug/l	--	--	--	--	< 0.5	--	< 0.5	--	--
M&P-XYLENE	-	ug/l	--	--	--	--	< 0.5	--	< 0.5	--	--
O-XYLENE	300	ug/l	--	--	--	--	< 0.5	--	< 0.5	--	--
TETRACHLOROETHYLENE	-	ug/l	--	--	--	--	< 1.0	--	< 1.0	--	--
TOLUENE	24	ug/l	--	--	--	--	< 0.5	--	< 0.5	--	--
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
TRICHLOROETHYLENE	50	ug/l	--	--	--	--	< 1.0	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 10(a)

COMPOUND (by Class)	MOE Obj.	Units	HC7-2 Jul.'94	HC7-3 Jul.'89	Nov.'89	HC9-1 Jun.'87	Aug.'87	Dec.'87	Feb.'88	Nov.'89	HC9-2 Dec.'87
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	378	354	372	--	--	--	--	37.4	--
AMMONIA NITROGEN	-	mg/l	0.22	< 0.02	< 0.03 UJ	3.52	11.50	5.45	--	19.3 J	3.95
CHLORIDE	250	mg/l	66.1	84	124	--	--	--	--	34889	--
CONDUCTIVITY	-	umhos/cm	900	849	1037	> 20000	> 20000	10900	--	> 20000	42000
FREE AMMONIA	-	mg/l	--	--	--	4.29	14.00	6.65	--	--	4.82
KJELDAHL NITROGEN	-	mg/l	0.30	2.20	4.99 J	11.40	13.40	13.50	--	26.6 J	8.25
ORGANIC NITROGEN	0.150	mg/l	--	--	--	7.88	1.90	8.05	--	--	4.30
PH	6.5-8.5		7.5	6.74	7.30	6.49	7.09	6.93	--	6.70	6.64
PHENOLS	-	ug/l	< 1	--	--	--	--	--	--	--	--
SULFATE	500	mg/l	--	88.8	95.0	--	--	--	--	1318	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	--	< 0.50	--	--	< 0.2	< 1.0	--	< 0.2
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	--	< 0.33	--	--	< 2	< 1.0	--	< 2
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	< 0.21	--	--	< 0.5	< 1.0	--	< 0.5
1,1-DICHLOROETHANE	-	ug/l	--	--	< 0.20	--	--	< 0.2	< 1.0	--	< 0.2
1,1-DICHLOROETHYLENE	-	ug/l	--	--	< 0.32	--	--	< 0.2	< 1.0	--	< 0.2
1,2,4-TRICHLOROBENZENE	-	ug/l	--	--	< 0.50	--	--	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	--	--	< 0.24	--	--	< 0.3	< 1.0	--	< 0.3
1,2-DICHLOROETHANE	5	ug/l	--	--	< 0.82	--	--	< 0.2	< 1.0	--	< 0.2
1,2-DICHLOROPROPANE	-	ug/l	--	--	< 0.20	--	--	< 0.2	< 1.0	--	< 0.2
1,3-DICHLOROBENZENE	-	ug/l	--	--	< 0.23	--	--	< 0.3	< 1.0	--	< 0.3
1,4-DICHLOROBENZENE	5	ug/l	--	--	< 0.22	--	--	< 0.3	< 1.0	--	< 0.3
2-BUTANONE	-	ug/l	--	--	--	--	--	--	4.49	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	< 0.50	--	--	< 10	--	--	< 10
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	< 0.2	--	--	< 0.2
ACETONE	-	ug/l	--	--	--	--	--	--	ND	--	--
BENZENE	5	ug/l	--	--	< 0.19	--	--	< 2	0.62	--	< 2

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 10(b)

COMPOUND (by Class)	MOE Obj.	Units	HC7-2 Jul.'94	HC7-3 Jul.'89	Nov.'89	HC9-1 Jun.'87	Aug.'87	Dec.'87	Feb.'88	Nov.'89	HC9-2 Dec.'87
VOLATILE ORGANIC COMPOUNDS (cont'd)											
BROMOFORM	-	ug/l	--	--	< 0.49	--	--	< 2	< 1.0	--	< 2
BROMOMETHANE	-	ug/l	--	--	< 0.83	--	--	< 0.2	< 2.0	--	< 0.2
CARBON TETRACHLORIDE	5	ug/l	--	--	< 0.93	--	--	< 1	< 1.0	--	< 1
CHLOROBENZENE	80	ug/l	--	--	< 0.27	--	--	< 0.2	< 0.5	--	< 0.2
CHLOROETHANE	-	ug/l	--	--	< 0.50	--	--	< 0.2	< 2.0	--	< 0.2
CHLOROFORM	-	ug/l	--	--	3.5 U	--	--	< 0.2	TR	--	< 0.2
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 0.27	--	--	< 0.5	< 1.0	--	< 0.5
DIBROMOCHLOROMETHANE	-	ug/l	--	--	< 0.24	--	--	< 0.2	< 1.0	--	< 0.2
DICHLOROBROMOMETHANE	-	ug/l	--	--	< 0.50	--	--	< 0.2	< 1.0	--	< 0.2
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	< 0.50	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
ETHYLBENZENE	2.4	ug/l	--	--	< 0.24	--	--	0.6	TR	--	< 0.2
M&P-XYLENE	-	ug/l	--	--	< 0.21	--	--	0.3	< 0.5	--	< 0.3
MESITYLENE	-	ug/l	--	--	--	--	--	< 0.2	--	--	< 0.2
METHYL CHLORIDE	-	ug/l	--	--	< 0.65	--	--	< 0.2	< 2.0	--	< 0.2
METHYLENE CHLORIDE	50	ug/l	--	--	2.2	--	--	< 10	2.47	--	< 10
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	< 0.2	--	--	< 0.2
O-XYLENE	300	ug/l	--	--	< 0.19	--	--	< 0.2	< 0.5	--	< 0.2
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	< 0.2	--	--	< 0.2
STYRENE	-	ug/l	--	--	--	--	--	< 0.2	ND	--	< 0.2
TETRACHLOROETHYLENE	-	ug/l	--	--	< 0.21	--	--	< 0.2	< 1.0	--	< 0.2
THF	-	ug/l	--	--	--	--	--	--	ND	--	--
TOLUENE	24	ug/l	--	--	0.32	--	--	190	72.27	--	13
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	< 0.20	--	--	< 0.2	< 1.0	--	< 0.2
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	--	< 0.2	< 1.0	--	--
TRICHLOROETHYLENE	50	ug/l	--	--	< 0.92	--	--	< 0.2	< 1.0	--	< 0.2
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	< 0.26	--	--	< 0.5	< 2.0	--	< 0.5
VINYL CHLORIDE	2.0	ug/l	--	--	< 0.74	--	--	< 0.5	< 2.0	--	< 0.5

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 10(c)

COMPOUND (by Class)	MOE Obj.	Units	HC7-2 Jul.'94	HC7-3 Jul.'89	HC7-3 Nov.'89	HC9-1 Jun.'87	HC9-1 Aug.'87	HC9-1 Dec.'87	HC9-1 Feb.'88	HC9-1 Nov.'89	HC9-2 Dec.'87

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 11(a)

COMPOUND (by Class)	MOE Obj.	Units	HC9-2 Dec.'87 (Dupl)	Feb.'88	May.'88	Aug.'88	Jul.'89	Nov.'89	Apr.'90	Aug.'90	Jul.'91
BIOLOGICAL TESTING											
FAECAL COLIFORM	0/100ml/100ml		--	--	60	< 1	--	--	--	--	--
FAECAL STREPTOCOCCI	0/100ml/100ml		--	--	< 1	< 1	--	--	--	--	--
TOTAL COLIFORMS	5/100ml/100ml		--	--	65	60	--	--	--	--	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	--	--	38	30	35	22.9	61	35	65
AMMONIA NITROGEN	-	mg/l	4.95	--	< 0.02	19.2	21.2	15.7 J	16.7	25.5	2.00
CHLORIDE	250	mg/l	--	--	17400	22500	17200	16895	15695	16395	17056
CONDUCTIVITY	-	umhos/cm	42000	--	42800	> 99000	9990	15800	18820	15060	1515
FREE AMMONIA	-	mg/l	6.04	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	-	mg/l	9.05	--	16.5	20.1	24.8	17.6 J	19.5	33.0	7.25
ORGANIC NITROGEN	0.150	mg/l	4.10	--	--	--	--	--	--	--	--
PH	6.5-8.5		6.64	--	6.78	6.9	6.11	6.70	6.80	6.46	6.6
PHENOLS	-	ug/l	--	--	< 1.0	--	--	--	< 1	2 J	< 1
SULFATE	500	mg/l	--	--	1870	1840	1660	1653	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 0.4	< 1.0	< 2	< 1.0	--	--	--	--	< 1.0
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 4	< 1.0	< 2	< 1.0	--	--	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	< 1	< 1.0	< 1	< 1.0	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	< 0.4	< 1.0	< 1	< 1.0	--	--	--	--	< 1.0
1,1-DICHLOROETHYLENE	-	ug/l	< 0.4	< 1.0	< 1	< 1.0	--	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	< 0.6	< 1.0	< 1	< 1.0	--	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	< 0.4	< 1.0	< 2	< 1.0	--	--	--	--	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 0.4	< 1.0	< 1	< 1.0	--	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	< 0.6	< 1.0	< 1	< 1.0	--	--	--	--	< 1.0
1,4-DICHLOROBENZENE	5	ug/l	< 0.6	< 1.0	< 1	< 1.0	--	--	--	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 11(b)

COMPOUND (by Class)	MOE Obj.	Units	HC9-2 Dec.'87 (Dupl)	Feb.'88	May.'88	Aug.'88	Jul.'89	Nov.'89	Apr.'90	Aug.'90	Jul.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)											
2-BUTANONE	-	ug/l	--	ND	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	< 20	--	< 10	--	--	--	--	--	--
A-METHYLSTYRENE	-	ug/l	< 0.4	--	< 1	--	--	--	--	--	--
ACETONE	-	ug/l	--	ND	--	--	--	--	--	--	--
BENZENE	5	ug/l	< 4	TR	< 1	< 0.5	--	--	--	--	< 0.5
BROMOFORM	-	ug/l	< 4	< 1.0	< 2	< 1.0	--	--	--	--	--
BROMOMETHANE	-	ug/l	< 0.4	< 2.0	< 16	< 2.0	--	--	--	--	--
CARBON TETRACHLORIDE	5	ug/l	< 2	< 1.0	< 2	< 1.0	--	--	--	--	--
CHLOROBENZENE	80	ug/l	< 0.4	< 0.5	< 1	< 0.5	--	--	--	--	< 0.5
CHLOROETHANE	-	ug/l	< 0.4	< 2.0	< 10	< 2.0	--	--	--	--	--
CHLOROFORM	-	ug/l	< 0.4	< 1.0	< 1	< 1.0	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 1.0	--	< 1.0	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1	< 1.0	< 1	< 1.0	--	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	< 0.4	< 1.0	< 1	< 1.0	--	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	< 0.4	< 1.0	< 1	< 1.0	--	--	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	< 2.0	--	< 2.0	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	< 0.4	< 0.5	< 1	< 0.5	--	--	--	--	< 0.5
M&P-XYLENE	-	ug/l	< 0.6	< 0.5	< 2	< 0.5	--	--	--	--	< 0.5
MESITYLENE	-	ug/l	< 0.4	--	< 1	--	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	< 0.4	< 2.0	< 50	< 2.0	--	--	--	--	--
METHYLENE CHLORIDE	50	ug/l	< 20	3.37	< 10	< 1.0	--	--	--	--	--
METHYLSTYRENE ISOMERS	-	ug/l	< 0.4	--	< 1	--	--	--	--	--	--
O-XYLENE	300	ug/l	< 0.4	< 0.5	< 1	< 0.5	--	--	--	--	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	< 0.4	--	< 1	--	--	--	--	--	--
STYRENE	-	ug/l	< 0.4	ND	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	< 0.4	< 1.0	< 1	< 1.0	--	--	--	--	< 1.0
THF	-	ug/l	--	ND	--	--	--	--	--	--	--
TOLUENE	24	ug/l	13	12.88	< 2	TR	--	--	--	--	0.7
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 0.4	< 1.0	< 1	< 1.0	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 11(c)

COMPOUND (by Class)	MOE Obj.	Units	HC9-2 Dec.'87 (Dupl)	Feb.'88	May.'88	Aug.'88	Jul.'89	Nov.'89	Apr.'90	Aug.'90	Jul.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)											
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	< 1.0	--	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	< 0.4	< 1.0	< 1	< 1.0	--	--	--	--	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	< 1	< 2.0	< 2	< 2.0	--	--	--	--	--
VINYL CHLORIDE	2.0	ug/l	< 1	< 2.0	< 12	< 2.0	--	--	--	--	--

000790

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 12

COMPOUND (by Class)	MOE Obj.	Units	HC9-2 Jul.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	Jul.'93	Apr.'94	Jul.'94	HC9-3 Jun.'87	Aug.'87
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	58	50	42	45.0	32.4	32.5	56.0	--	--
AMMONIA NITROGEN	-	mg/l	1.59	18.3	17.0	22.0	9.78	13.6	16.8	0.76	0.52
CHLORIDE	250	mg/l	16333	14281	17150	15466	16178	16878	14092	--	--
CONDUCTIVITY	-	umhos/cm	--	18520	6080	16000	27500	> 19900	> 19000	3080	3660
FREE AMMONIA	-	mg/l	--	--	--	--	--	--	--	0.92	0.67
KJELDAHL NITROGEN	-	mg/l	7.35	23.5	19.7	23.5	13.7	21.5	21.8	9.14	0.52
ORGANIC NITROGEN	0.150	mg/l	--	--	--	--	--	--	--	8.38	0.00
PH	6.5-8.5		--	6.69	6.75	6.91	7.1	7.1	7.0	7.39	7.34
PHENOLS	-	ug/l	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	--	< 1.0	--	--	--	< 1	--	--
1,1-DICHLOROETHANE	-	ug/l	< 1.0	--	< 1.0	--	--	--	< 1	--	--
1,2-DICHLOROETHANE	5	ug/l	< 1.0	--	< 1.0	--	--	--	< 1	--	--
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	--	< 1.0	--	--	--	< 1	--	--
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	--	< 1.0	--	--	--	< 1	--	--
BENZENE	5	ug/l	< 0.5	--	< 0.5	--	--	--	< 0.5	--	--
CHLOROBENZENE	80	ug/l	< 0.5	--	< 0.5	--	--	--	< 0.5	--	--
ETHYLBENZENE	2.4	ug/l	< 0.5	--	< 0.5	--	--	--	< 0.5	--	--
M&P-XYLENE	-	ug/l	< 0.5	--	< 0.5	--	--	--	< 0.5	--	--
O-XYLENE	300	ug/l	< 0.5	--	< 0.5	--	--	--	< 0.5	--	--
TETRACHLOROETHYLENE	-	ug/l	< 1.0	--	< 1.0	--	--	--	< 1	--	--
TOLUENE	24	ug/l	0.7	--	< 0.5	--	--	--	< 0.5	--	--
TRICHLOROETHYLENE	50	ug/l	< 1.0	--	< 1.0	--	--	--	< 1	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 13(a)

COMPOUND (by Class)	MOE Obj.	Units	HC9-3 Jul.'89	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Aug.'90	Apr.'91	Jul.'91	Apr.'92	Jul.'92
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	388	322	322	2874	300	322	294	360	320
AMMONIA NITROGEN	-	mg/l	1.61	0.58 J	0.25 J	0.52	1.20	< 0.03	0.71	0.52	0.93
CHLORIDE	250	mg/l	190	186	186	236	262	124	272	115	176
CONDUCTIVITY	-	umhos/cm	1930	2020	2020	2420	2020	1428	2430	29500	5400
KJELDAHL NITROGEN	-	mg/l	2.08	0.70 J	0.39 J	7.22	1.43 U	< 0.06	1.29	0.75	1.07
PH	6.5-8.5		6.92	7.40	7.40	7.20	6.57	7.0	7.1	6.54	7.23
PHENOLS	-	ug/l	--	--	--	1	2 J	< 1	< 1	< 1	< 1.0
SULFATE	500	mg/l	1060	1196	1257	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 0.50	< 0.50	--	< 1	--	--	--	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	< 0.33	< 0.33	--	< 2	--	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	< 0.21	< 0.21	--	< 2	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	--	< 0.20	< 0.20	--	< 1	--	--	--	--
1,1-DICHLOROETHYLENE	-	ug/l	--	< 0.32	< 0.32	--	< 1	--	--	--	--
1,2,4-TRICHLOROBENZENE	-	ug/l	--	< 0.50	< 0.50	--	--	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	--	< 0.24	< 0.24	--	< 1	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	--	< 0.82	< 0.82	--	< 1	--	--	--	--
1,2-DICHLOROPROPANE	-	ug/l	--	< 0.20	< 0.20	--	< 1	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	--	< 0.23	< 0.23	--	< 1	--	--	--	--
1,4-DICHLOROBENZENE	5	ug/l	--	< 0.22	< 0.22	--	< 1	--	--	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	< 0.50	< 0.50	--	< 10	--	--	--	--
BENZENE	5	ug/l	--	< 0.19	< 0.19	--	< 0.5	--	--	--	--
BROMOFORM	-	ug/l	--	< 0.49	< 0.49	--	< 2	--	--	--	--
BROMOMETHANE	-	ug/l	--	< 0.83	< 0.83	--	< 2	--	--	--	--
CARBON TETRACHLORIDE	5	ug/l	--	< 0.93	< 0.93	--	< 1	--	--	--	--
CHLOROBENZENE	80	ug/l	--	< 0.27	< 0.27	--	< 0.5	--	--	--	--
CHLOROETHANE	-	ug/l	--	< 0.50	< 0.50	--	< 2	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 13(b)

COMPOUND (by Class)	MOE Obj.	Units	HC9-3 Jul.'89	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Aug.'90	Apr.'91	Jul.'91	Apr.'92	Jul.'92
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CHLOROFORM	-	ug/l	--	3.0 U	2.4 U	--	< 1	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	< 1	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 0.27	< 0.27	--	< 1	--	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	< 0.24	< 0.24	--	< 1	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	< 0.50	< 0.50	--	< 2	--	--	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	< 0.50	< 0.50	--	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	--	< 0.24	< 0.24	--	< 0.5	--	--	--	--
M&P-XYLENE	-	ug/l	--	< 0.21	< 0.21	--	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	--	1.09 U	< 0.65 U	--	< 2	--	--	--	--
METHYLENE CHLORIDE	50	ug/l	--	3.3	4.2	--	< 1	--	--	--	--
O-XYLENE	300	ug/l	--	< 0.19	< 0.19	--	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	--	< 0.21	< 0.21	--	< 1	--	--	--	--
TOLUENE	24	ug/l	--	< 0.24	< 0.24	--	< 0.5	--	--	--	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 0.20	< 0.20	--	< 1	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1	--	--	--	--
TRICHLOROETHYLENE	50	ug/l	--	< 0.92	< 0.92	--	< 1	--	--	--	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 0.26	< 0.26	--	< 2	--	--	--	--
VINYL CHLORIDE	2.0	ug/l	--	< 0.74	< 0.74	--	< 2	--	--	--	--

000793

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 14

COMPOUND (by Class)	MOE Obj.	Units	HC9-3 Apr.'93	HC9-3 Jul.'93	HC9-3 Apr.'94	HC9-3 Jul.'94	HC9-4 Nov.'89	MB11-1 Jun.'87	MB11-1 Aug.'87	MB11-3 Jun.'87	MB11-3 Aug.'87
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	377	354	369	324	349	--	--	--	--
AMMONIA NITROGEN	-	mg/l	1.80	< 0.03	0.20	0.28	< 0.03 UJ	2.46	1.32	8.98	4.26
CHLORIDE	250	mg/l	82.6	91.7	81.9	139	112	--	--	--	--
CONDUCTIVITY	-	umhos/cm	1300	1650	1500	2200	1790	2760	2800	13800	12300
FREE AMMONIA	-	mg/l	--	--	--	--	--	3.00	1.61	10.90	5.20
KJELDAHL NITROGEN	-	mg/l	3.11	2.44	0.27	1.33	1.55 J	4.02	1.34	9.82	5.44
ORGANIC NITROGEN	0.150	mg/l	--	--	--	--	--	1.56	0.02	0.84	1.18
PH	6.5-8.5		7.27	7.6	7.6	7.7	7.70	6.71	6.80	7.17	7.26
PHENOLS	-	ug/l	< 1.0	< 1.0	< 1	< 1	--	--	--	--	--
SULFATE	500	mg/l	--	--	--	--	435	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	5	ug/l	--	< 1.0	--	--	--	--	--	--	--
BENZENE	5	ug/l	--	< 0.5	--	--	--	--	--	--	--
CHLOROBENZENE	80	ug/l	--	< 0.5	--	--	--	--	--	--	--
ETHYLBENZENE	2.4	ug/l	--	< 0.5	--	--	--	--	--	--	--
M&P-XYLENE	-	ug/l	--	< 0.5	--	--	--	--	--	--	--
O-XYLENE	300	ug/l	--	< 0.5	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--
TOLUENE	24	ug/l	--	< 0.5	--	--	--	--	--	--	--
TRICHLOROETHANE	-	ug/l	--	< 1.0	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 15(a)

COMPOUND (by Class)	MOE Obj.	Units	MB13-2 Dec.'87	MB13-3 Aug.'87	Dec.'87	Apr.'88	MB16-1 Jun.'87	Aug.'87	Feb.'88	MB16-2 Dec.'87	MB16-3 Jun.'87
GENERAL CHEMISTRY											
AMMONIA NITROGEN	-	mg/l	2.20	2.95	1.98	7.48	< 0.02	0.26	--	0.10	2.48
CONDUCTIVITY	-	umhos/cm	9610	8360	7300	8650	2650	2580	--	705	1470
FREE AMMONIA	-	mg/l	2.68	3.60	2.42	9.13	< 0.02	0.31	--	0.12	3.02
KJELDAHL NITROGEN	-	mg/l	4.26	5.18	3.70	9.62	4.26	0.31	--	1.65	4.00
ORGANIC NITROGEN	0.150	mg/l	2.06	2.23	1.72	2.14	4.26	0.05	--	1.55	1.52
PH	6.5-8.5		7.02	7.27	7.31	7.25	6.99	7.04	--	7.28	11.01
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	0.5	--	0.4	--	--	--	1.0	< 0.2	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 4	--	< 2	--	--	--	< 1.0	< 2	--
1,1,2-TRICHLOROETHANE	-	ug/l	< 1	--	< 0.5	--	--	--	< 1.0	< 0.5	--
1,1-DICHLOROETHANE	-	ug/l	< 0.4	--	< 0.2	--	--	--	TR	< 0.2	--
1,1-DICHLOROETHYLENE	-	ug/l	< 0.4	--	< 0.2	--	--	--	< 1.0	< 0.2	--
1,2-DICHLOROBENZENE	200	ug/l	< 0.6	--	< 0.3	--	--	--	< 1.0	< 0.3	--
1,2-DICHLOROETHANE	5	ug/l	< 0.4	--	< 0.2	--	--	--	< 1.0	< 0.2	--
1,2-DICHLOROPROPANE	-	ug/l	< 0.4	--	< 0.2	--	--	--	< 1.0	< 0.2	--
1,3-DICHLOROBENZENE	-	ug/l	< 0.6	--	< 0.3	--	--	--	< 1.0	< 0.3	--
1,4-DICHLOROBENZENE	5	ug/l	< 0.6	--	< 0.3	--	--	--	< 1.0	< 0.3	--
2-BUTANONE	-	ug/l	--	--	--	--	--	--	154.0	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	< 20	--	< 10	--	--	--	--	< 10	--
A-METHYLSTYRENE	-	ug/l	< 0.4	--	< 0.2	--	--	--	--	< 0.2	--
ACETONE	-	ug/l	--	--	--	--	--	--	18.86	--	--
BENZENE	5	ug/l	< 4	--	< 2	--	--	--	TR	< 2	--
BROMOFORM	-	ug/l	< 4	--	< 2	--	--	--	< 1.0	< 2	--
BROMOMETHANE	-	ug/l	< 0.4	--	< 0.2	--	--	--	< 2.0	< 0.2	--
CARBON TETRACHLORIDE	5	ug/l	< 2	--	< 1	--	--	--	< 1.0	< 1	--
CHLOROBENZENE	80	ug/l	< 0.4	--	< 0.2	--	--	--	< 0.5	< 0.2	--
CHLOROETHANE	-	ug/l	< 0.4	--	< 0.2	--	--	--	< 2.0	< 0.2	--

000795

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 15(b)

COMPOUND (by Class)	MOE Obj.	Units	MB13-2 Dec.'87	MB13-3 Aug.'87	MB13-3 Dec.'87	MB13-3 Apr.'88	MB16-1 Jun.'87	MB16-1 Aug.'87	MB16-1 Feb.'88	MB16-2 Dec.'87	MB16-3 Jun.'87
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CHLOROFORM	-	ug/l	< 0.4	--	< 0.2	--	--	--	< 1.0	0.6	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1	--	< 0.5	--	--	--	< 1.0	< 0.5	--
DIBROMOCHLOROMETHANE	-	ug/l	< 0.4	--	< 0.2	--	--	--	< 1.0	< 0.2	--
DICHLOROBROMOMETHANE	-	ug/l	< 0.4	--	< 0.2	--	--	--	< 1.0	< 0.2	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	< 2.0	--	--
ETHYLBENZENE	2.4	ug/l	< 0.4	--	< 0.2	--	--	--	TR	< 0.2	--
M&P-XYLENE	-	ug/l	< 0.6	--	< 0.3	--	--	--	TR	< 0.3	--
MESITYLENE	-	ug/l	< 0.4	--	< 0.2	--	--	--	--	< 0.2	--
METHYL CHLORIDE	-	ug/l	< 0.4	--	< 0.2	--	--	--	< 2.0	< 0.2	--
METHYLENE CHLORIDE	50	ug/l	< 20	--	< 10	--	--	--	1.12	< 10	--
METHYLSTYRENE ISOMERS	-	ug/l	< 0.4	--	< 0.2	--	--	--	--	< 0.2	--
O-XYLENE	300	ug/l	< 0.4	--	< 0.2	--	--	--	< 0.5	< 0.2	--
OTHER AROMATIC COMPOUNDS	-	ug/l	< 0.4	--	< 0.2	--	--	--	--	< 0.2	--
STYRENE	-	ug/l	< 0.4	--	< 0.2	--	--	--	23.4	< 0.2	--
TETRACHLOROETHYLENE	-	ug/l	< 0.4	--	< 0.2	--	--	--	< 1.0	< 0.2	--
TOLUENE	24	ug/l	< 3	--	< 0.3	--	--	--	26.19	< 0.3	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 0.4	--	< 0.2	--	--	--	< 1.0	< 0.2	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	--	--	< 1.0	--	--
TRICHLOROETHYLENE	50	ug/l	< 0.4	--	< 0.2	--	--	--	< 1.0	< 0.2	--
TRICHLOROFLUOROMETHANE	-	ug/l	< 1	--	< 0.5	--	--	--	< 2.0	< 0.5	--
VINYL CHLORIDE	2.0	ug/l	< 1	--	< 0.5	--	--	--	< 2.0	< 0.5	--

000796

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 16(a)

COMPOUND (by Class)	MOE Obj.	Units	MB16-3 Aug.'87	MB16-3 Dec.'87	MB17-1 Jun.'87	MB17-1 Aug.'87	MB17-1 Feb.'88	MB17-1 Feb.'88 (Dupl)	MB17-3 Jun.'87	MB17-3 Jun.'87 (Dupl)	MB17-3 Aug.'87
GENERAL CHEMISTRY											
AMMONIA NITROGEN	-	mg/l	1.24	0.80	0.31	2.14	--	--	7.52	7.56	7.66
CONDUCTIVITY	-	umhos/cm	2020	2020	1820	2200	--	--	18400	16900	18760
FREE AMMONIA	-	mg/l	1.51	0.98	0.37	2.61	--	--	9.17	9.22	9.34
KJELDAHL NITROGEN	-	mg/l	1.45	2.28	8.58	2.20	--	--	10.70	11.00	9.94
ORGANIC NITROGEN	0.150	mg/l	0.21	1.48	8.27	0.06	--	--	3.18	3.44	2.28
PH	6.5-8.5		10.98	10.89	7.45	7.12	--	--	6.79	6.78	6.93
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	--	1.2	--	--	< 1.0	< 1.0	--	--	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	< 2	--	--	< 1.0	< 1.0	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	< 0.5	--	--	< 1.0	< 1.0	--	--	--
1,1-DICHLOROETHANE	-	ug/l	--	0.3	--	--	< 1.0	< 1.0	--	--	--
1,1-DICHLOROETHYLENE	-	ug/l	--	0.6	--	--	< 1.0	< 1.0	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	--	< 0.3	--	--	< 1.0	< 1.0	--	--	--
1,2-DICHLOROETHANE	5	ug/l	--	< 0.2	--	--	< 1.0	< 1.0	--	--	--
1,2-DICHLOROPROPANE	-	ug/l	--	< 0.2	--	--	< 1.0	< 1.0	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	--	< 0.3	--	--	< 1.0	< 1.0	--	--	--
1,4-DICHLOROBENZENE	5	ug/l	--	< 0.3	--	--	< 1.0	< 1.0	--	--	--
2-BUTANONE	-	ug/l	--	--	--	--	--	ND	--	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	--	< 10	--	--	--	--	--	--	--
A-METHYLSTYRENE	-	ug/l	--	< 0.2	--	--	--	--	--	--	--
ACETONE	-	ug/l	--	--	--	--	--	ND	--	--	--
BENZENE	5	ug/l	--	< 2	--	--	TR	TR	--	--	--
BROMOFORM	-	ug/l	--	< 2	--	--	< 1.0	< 1.0	--	--	--
BROMOMETHANE	-	ug/l	--	< 0.2	--	--	< 2.0	< 2.0	--	--	--
CARBON TETRACHLORIDE	5	ug/l	--	< 1	--	--	< 1.0	< 1.0	--	--	--
CHLOROBENZENE	80	ug/l	--	< 0.2	--	--	< 0.5	< 0.5	--	--	--
CHLOROETHANE	-	ug/l	--	< 0.2	--	--	< 2.0	< 2.0	--	--	--

000797

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 16(b)

COMPOUND (by Class)	MOE Obj.	Units	MB16-3 Aug.'87	MB16-3 Dec.'87	MB17-1 Jun.'87	MB17-1 Aug.'87	MB17-1 Feb.'88	MB17-1 Feb.'88 (Dupl)	MB17-3 Jun.'87	MB17-3 Jun.'87 (Dupl)	MB17-3 Aug.'87
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CHLOROFORM	-	ug/l	--	< 0.2	--	--	TR	< 1.0	--	--	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	< 1.0	< 1.0	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 0.5	--	--	< 1.0	< 1.0	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	--	< 0.2	--	--	< 1.0	< 1.0	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	< 0.2	--	--	< 1.0	< 1.0	--	--	--
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	< 2.0	< 2.0	--	--	--
ETHYLBENZENE	2.4	ug/l	--	1.4	--	--	TR	TR	--	--	--
M&P-XYLENE	-	ug/l	--	0.6	--	--	< 0.5	< 0.5	--	--	--
MESITYLENE	-	ug/l	--	< 0.2	--	--	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	--	< 0.2	--	--	< 2.0	< 2.0	--	--	--
METHYLENE CHLORIDE	50	ug/l	--	< 10	--	--	1.97	1.62	--	--	--
METHYLSTYRENE ISOMERS	-	ug/l	--	< 0.2	--	--	--	--	--	--	--
O-XYLENE	300	ug/l	--	< 0.2	--	--	< 0.5	< 0.5	--	--	--
OTHER AROMATIC COMPOUNDS	-	ug/l	--	< 0.2	--	--	--	--	--	--	--
STYRENE	-	ug/l	--	75	--	--	4.80	6.25	--	--	--
TETRACHLOROETHYLENE	-	ug/l	--	< 0.2	--	--	< 1.0	< 1.0	--	--	--
THF	-	ug/l	--	--	--	--	--	ND	--	--	--
TOLUENE	24	ug/l	--	90	--	--	20.21	16.81	--	--	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 0.2	--	--	< 1.0	< 1.0	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	< 1.0	--	--	--
TRICHLOROETHYLENE	50	ug/l	--	< 0.2	--	--	< 1.0	< 1.0	--	--	--
TRICHLOROFLUOROMETHANE	-	ug/l	--	< 0.5	--	--	< 2.0	< 2.0	--	--	--
VINYL CHLORIDE	2.0	ug/l	--	< 0.5	--	--	< 2.0	< 2.0	--	--	--

000798

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 17(a)

COMPOUND (by Class)	MOE Obj.	Units	MB17-3 Dec.'87	MB18-1 Jun.'87	Aug.'87	MB18-2 Dec.'87	Feb.'88	MHFB Apr.'94	OW1A-93 Mar.'93	Apr.'93	OW1B-93 Mar.'93
BASE/NEUTRAL EXTRACTABLES											
BIS(2-ETHYLHEXYL) PHTHALATE	-	ug/l	--	--	--	--	--	< 2.0	--	--	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	--	--	--	--	--	--	142	41.4	187
AMMONIA NITROGEN	-	mg/l	3.70	0.04	0.26	2.40	--	--	--	10.0	--
CHLORIDE	250	mg/l	--	--	--	--	--	--	5780	5994	1150
CONDUCTIVITY	-	umhos/cm	26200	1530	1630	13150	--	--	10300	2000	4100
FREE AMMONIA	-	mg/l	4.51	0.05	0.32	2.93	--	--	--	--	--
KJELDAHL NITROGEN	-	mg/l	5.90	3.52	0.38	6.20	--	--	--	10.2	--
ORGANIC NITROGEN	0.150	mg/l	2.20	3.48	0.12	3.80	--	--	--	--	--
PH	6.5-8.5		6.80	7.15	7.02	8.60	--	8.5	7.65	9.28	7.15
PHENOLS	-	ug/l	--	--	--	--	--	--	--	1.8	--
SULFATE	500	mg/l	--	--	--	--	--	--	2380	--	1770
PESTICIDES AND PCB's											
4,4-DDT	-	ug/l	--	--	--	--	--	< 0.003	--	--	--
ALDRIN	0.700	ug/l	--	--	--	--	--	< 0.003 UJ	--	--	--
ALPHA-CHLORDANE	-	ug/l	--	--	--	--	--	< 0.003	--	--	--
CARBARYL	-	ug/l	--	--	--	--	--	< 5.0	--	--	--
DIAZINON	-	ug/l	--	--	--	--	--	< 0.5	--	--	--
DIELDRIN	0.700	ug/l	--	--	--	--	--	< 0.003	--	--	--
ENDRIN	0.200	ug/l	--	--	--	--	--	< 0.003	--	--	--
GAMMA-BHC	-	ug/l	--	--	--	--	--	< 0.003	--	--	--
GAMMA-CHLORDANE	-	ug/l	--	--	--	--	--	< 0.003	--	--	--
HEPTACHLOR	3	ug/l	--	--	--	--	--	< 0.003	--	--	--
HEPTACHLOR EPOXIDE	3	ug/l	--	--	--	--	--	< 0.003	--	--	--
METHOXYCHLOR	900	ug/l	--	--	--	--	--	< 0.0125	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 17(b)

COMPOUND (by Class)	MOE Obj.	Units	MB17-3 Dec.'87	MB18-1 Jun.'87	MB18-1 Aug.'87	MB18-2 Dec.'87	MB18-2 Feb.'88	MHFB Apr.'94	OW1A-93 Mar.'93	OW1A-93 Apr.'93	OW1B-93 Mar.'93
PESTICIDES AND PCB's (cont'd)											
METHYL PARATHION	0.007	mg/l	--	--	--	--	--	< 0.5	--	--	--
TOTAL PCB	-	ug/l	--	--	--	--	--	< 0.5	--	--	--
TOXAPHENE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 0.2	--	--	< 0.2	< 1.0	< 1.0	< 0.2	< 1.0	< 0.2
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 2	--	--	< 2	< 1.0	--	< 1.0	< 2.0	< 1.0
1,1,2-TRICHLOROETHANE	-	ug/l	< 0.5	--	--	< 0.5	< 1.0	--	< 0.5	< 2.0	< 0.5
1,1-DICHLOROETHANE	-	ug/l	< 0.2	--	--	< 0.2	< 1.0	< 1.0	< 0.2	< 1.0	< 0.2
1,1-DICHLOROETHYLENE	-	ug/l	< 0.2	--	--	< 0.2	< 1.0	--	< 0.5	< 1.0	< 0.5
1,2-DIBROMOETHANE	-	ug/l	--	--	--	--	--	--	< 1.0	--	< 1.0
1,2-DICHLOROBENZENE	200	ug/l	< 0.3	--	--	< 0.3	< 1.0	--	< 0.2	< 1.0	< 0.2
1,2-DICHLOROETHANE	5	ug/l	< 0.2	--	--	< 0.2	< 1.0	< 1.0	< 0.2	< 1.0	< 0.2
1,2-DICHLOROPROPANE	-	ug/l	< 0.2	--	--	< 0.2	< 1.0	--	< 0.2	< 1.0	< 0.2
1,3-DICHLOROBENZENE	-	ug/l	< 0.3	--	--	< 0.3	< 1.0	< 1.0	< 0.2	< 1.0	< 0.2
1,4-DICHLOROBENZENE	5	ug/l	< 0.3	--	--	< 0.3	< 1.0	< 1.0	< 0.2	< 1.0	< 0.2
2-BUTANONE	-	ug/l	--	--	--	--	1040	--	--	--	--
2-CHLOROETHYLVINYLETHER	-	ug/l	< 10	--	--	< 10	--	--	--	< 10	--
A-METHYLSTYRENE	-	ug/l	< 0.2	--	--	0.7	--	--	--	--	--
ACETONE	-	ug/l	--	--	--	--	235.39	--	--	--	--
BENZENE	5	ug/l	< 2	--	--	< 2	1.0	< 0.5	0.4	< 0.5	< 0.1
BROMOFORM	-	ug/l	< 2	--	--	< 2	< 1.0	--	< 2.0	< 2.0	< 2.0
BROMOMETHANE	-	ug/l	< 0.2	--	--	< 0.2	< 2.0	--	< 2.0	< 2.0	< 2.0
CARBON TETRACHLORIDE	5	ug/l	< 1	--	--	< 1	< 1.0	--	< 0.2	< 1.0	< 0.2
CHLOROBENZENE	80	ug/l	< 0.2	--	--	< 0.2	< 0.5	< 0.5	< 0.2	< 0.5	< 0.2
CHLOROETHANE	-	ug/l	< 0.2	--	--	< 0.2	< 2.0	--	< 2.0	< 2.0	< 2.0
CHLOROFORM	-	ug/l	0.4	--	--	< 0.2	TR	--	< 0.2	< 1.0	< 0.2
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	< 1.0	--	< 0.2	--	< 0.2

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 17(c)

COMPOUND (by Class)	MOE Obj.	Units	MB17-3 Dec.'87	MB18-1 Jun.'87	MB18-1 Aug.'87	MB18-2 Dec.'87	MB18-2 Feb.'88	MHFB Apr.'94	OW1A-93 Mar.'93	OW1A-93 Apr.'93	OW1B-93 Mar.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 0.5	--	--	< 0.5	< 1.0	--	< 0.5	< 1.0	< 0.5
DIBROMOCHLOROMETHANE	-	ug/l	< 0.2	--	--	< 0.2	< 1.0	--	< 1.0	< 1.0	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	< 0.2	--	--	< 0.2	< 1.0	--	< 0.2	< 2.0	< 0.2
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	< 2.0	--	--	--	--
ETHYL PARATHION	-	ug/l	--	--	--	--	--	< 0.5	--	--	--
ETHYLBENZENE	2.4	ug/l	< 0.2	--	--	1.1	0.87	< 0.5	0.4	< 0.5	0.2
M&P-XYLENE	-	ug/l	< 0.3	--	--	3.1	0.76	< 0.5	1.1	< 0.5	0.6
MESITYLENE	-	ug/l	< 0.2	--	--	0.4	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	< 0.2	--	--	< 0.2	< 2.0	--	< 2.0	< 2.0	< 2.0
METHYLENE CHLORIDE	50	ug/l	< 10	--	--	< 10	7.27	--	< 1.0	< 1.0	< 1.0
METHYLSTYRENE ISOMERS	-	ug/l	< 0.2	--	--	< 0.2	--	--	--	--	--
O-XYLENE	300	ug/l	< 0.2	--	--	< 0.2	< 0.5	< 0.5	0.7	< 0.5	0.2
OTHER AROMATIC COMPOUNDS	-	ug/l	< 0.2	--	--	< 0.2	--	--	--	--	--
STYRENE	-	ug/l	1.9	--	--	80	49.15	--	< 0.2	--	< 0.2
TETRACHLOROETHYLENE	-	ug/l	< 0.2	--	--	< 0.2	< 1.0	< 1.0	< 0.5	< 1.0	< 0.5
THF	-	ug/l	--	--	--	--	21.90	--	--	--	--
TOLUENE	24	ug/l	11	--	--	170	117.85	< 0.5	3.9	< 0.5	0.5
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 0.2	--	--	< 0.2	< 1.0	--	< 0.2	< 1.0	< 0.2
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	< 1.0	--	< 0.5	< 1.0	< 0.5
TRICHLOROETHYLENE	50	ug/l	< 0.2	--	--	< 0.2	< 1.0	< 1.0	< 0.2	< 1.0	< 0.2
TRICHLOROFLUOROMETHANE	-	ug/l	< 0.5	--	--	< 0.5	< 2.0	--	< 1.0	< 2.0	< 1.0
VINYL CHLORIDE	2.0	ug/l	< 0.5	--	--	< 0.5	< 2.0	--	< 2.0	< 2.0	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 18(a)

COMPOUND (by Class)	MOE Obj.	Units	OW1B-93 Apr.'93	OW2A-93 Mar.'93	Apr.'93	OW2B-93 Mar.'93	Apr.'93	OW3-93 Mar.'93	Mar.'93 (Dupl)	Apr.'93	OW4-93 Mar.'93
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	207	289	320	489	466	429	428	438	407
AMMONIA NITROGEN	-	mg/l	5.80	--	2.60	--	0.08	--	--	0.74	--
CHLORIDE	250	mg/l	936	370	78.5	96	68.9	71	73	49.8	112
CONDUCTIVITY	-	umhos/cm	3800	2100	2050	1000	925	790	--	820	1340
KJELDAHL NITROGEN	-	mg/l	6.48	--	2.82	--	1.43	--	--	1.14	--
PH	6.5-8.5		6.68	6.85	6.90	6.90	6.95	7.02	--	7.02	7.05
PHENOLS	-	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	--
SULFATE	500	mg/l	--	1300	--	263	--	116	117	--	1050
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 0.2	1.5	< 0.2	< 1.0	< 0.2	< 0.2	1.1	< 0.2
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0
1,1,2-TRICHLOROETHANE	-	ug/l	< 2.0	< 0.5	< 2.0	< 0.5	< 2.0	< 0.5	< 0.5	< 2.0	< 0.5
1,1-DICHLOROETHANE	-	ug/l	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 0.2	< 1.0	< 0.2
1,1-DICHLOROETHYLENE	-	ug/l	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 1.0	< 0.5
1,2-DIBROMOETHANE	-	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1.0
1,2-DICHLOROBENZENE	200	ug/l	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 0.2	< 1.0	0.1
1,2-DICHLOROETHANE	5	ug/l	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 0.2	< 1.0	< 0.2
1,2-DICHLOROPROPANE	-	ug/l	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 0.2	< 1.0	< 0.2
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 0.2	< 1.0	< 0.2
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	< 0.2	< 1.0	0.2	< 1.0	< 0.2	< 0.2	< 1.0	1.6
2-CHLOROETHYLVINYLETHER	-	ug/l	< 10	--	< 10	--	< 10	--	--	< 10	--
BENZENE	5	ug/l	< 0.5	0.1	< 0.5	0.2	< 0.5	< 0.1	< 0.1	< 0.5	1.9
BROMOFORM	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
BROMOMETHANE	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
CARBON TETRACHLORIDE	5	ug/l	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 0.2	< 1.0	< 0.2
CHLOROBENZENE	80	ug/l	< 0.5	< 0.2	< 0.5	< 0.2	< 0.5	< 0.2	< 0.2	< 0.5	63.3
CHLOROETHANE	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 18(b)

COMPOUND (by Class)	MOE Obj.	Units	OW1B-93 Apr.'93	OW2A-93 Mar.'93	OW2A-93 Apr.'93	OW2B-93 Mar.'93	OW2B-93 Apr.'93	OW3-93 Mar.'93	OW3-93 Mar.'93 (Dupl)	OW3-93 Apr.'93	OW4-93 Mar.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
CHLOROFORM	-	ug/l	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 0.2	< 1.0	< 0.2
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	< 0.2	--	< 0.2	--	< 0.2	< 0.2	--	< 0.2
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 1.0	< 0.5
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	< 2.0	< 0.2	< 2.0	< 0.2	< 2.0	< 0.2	< 0.2	< 2.0	< 0.2
ETHYLBENZENE	2.4	ug/l	< 0.5	0.2	< 0.5	< 0.2	< 0.5	< 0.2	< 0.2	< 0.5	< 0.2
M&P-XYLENE	-	ug/l	< 0.5	0.7	< 0.5	0.3	< 0.5	0.3	0.2	< 0.5	1.4
METHYL CHLORIDE	-	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
METHYLENE CHLORIDE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
O-XYLENE	300	ug/l	< 0.5	0.3	< 0.5	0.1	< 0.5	0.1	0.1	< 0.5	0.6
STYRENE	-	ug/l	--	< 0.2	--	< 0.2	--	< 0.2	< 0.2	--	< 0.2
TETRACHLOROETHYLENE	-	ug/l	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 1.0	< 0.5
TOLUENE	24	ug/l	< 0.5	1.2	< 0.5	0.3	< 0.5	0.3	0.1	< 0.5	1.1
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 0.2	< 1.0	< 0.2
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	< 0.5	< 1.0	< 0.5	< 1.0	< 0.5	< 0.5	< 1.0	< 0.5
TRICHLOROETHYLENE	50	ug/l	< 1.0	< 0.2	< 1.0	< 0.2	< 1.0	< 0.2	< 0.2	< 1.0	< 0.2
TRICHLOROFLUOROMETHANE	-	ug/l	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	< 1.0	< 2.0	< 1.0
VINYL CHLORIDE	2.0	ug/l	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0

000803

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 19(a)

COMPOUND (by Class)	MOE Obj.	Units	OW4-93 Apr.'93	OW6-87 Jul.'93	OW7-87 Jul.'93	OW8-87 Jul.'93	OW10-87 Jul.'93	OW12-87 Jul.'93	OW13-88 Jul.'93	PW1 May.'88	PW1 Aug.'88
BIOLOGICAL TESTING											
FAECAL COLIFORM	0/100ml/100ml		--	--	--	--	--	--	--	< 1	< 1
FAECAL STREPTOCOCCI	0/100ml/100ml		--	--	--	--	--	--	--	< 1	< 1
TOTAL COLIFORMS	5/100ml/100ml		--	--	--	--	--	--	--	< 1	< 1
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	440	--	--	--	--	--	--	643	112
AMMONIA NITROGEN	-	mg/l	0.18	--	--	--	--	--	--	< 0.02	3.39
CHLORIDE	250	mg/l	32.6	--	--	--	--	--	--	2600	695
CONDUCTIVITY	-	umhos/cm	1200	610	1000	800	840	820	920	> 10000	36200
KJELDAHL NITROGEN	-	mg/l	1.64	--	--	--	--	--	--	5.37	3.35
PH	6.5-8.5		7.06	8.4	8.2	8.4	8.3	8.4	8.4	7.3	7.65
PHENOLS	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
SULFATE	500	mg/l	--	--	--	--	--	--	--	2420	1330
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	< 2	< 1.0
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2	< 1.0
1,1,2-TRICHLOROETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 1	< 1.0
1,1-DICHLOROETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1	< 1.0
1,1-DICHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1	< 1.0
1,2-DICHLOROBENZENE	200	ug/l	< 1.0	--	--	--	--	--	--	< 1	< 1.0
1,2-DICHLOROETHANE	5	ug/l	< 1.0	--	--	--	--	--	--	< 2	< 1.0
1,2-DICHLOROPROPANE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1	< 1.0
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1	< 1.0
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	--	--	--	--	--	--	< 1	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	< 10	--	--	--	--	--	--	< 10	--
A-METHYLSTYRENE	-	ug/l	--	--	--	--	--	--	--	< 1	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 19(b)

COMPOUND (by Class)	MOE Obj.	Units	OW4-93 Apr.'93	OW6-87 Jul.'93	OW7-87 Jul.'93	OW8-87 Jul.'93	OW10-87 Jul.'93	OW12-87 Jul.'93	OW13-88 Jul.'93	PW1 May.'88	PW1 Aug.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)											
BENZENE	5	ug/l	< 0.5	--	--	--	--	--	--	< 1	< 0.5
BROMOFORM	-	ug/l	< 2.0	--	--	--	--	--	--	< 2	< 1.0
BROMOMETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 16	< 2.0
CARBON TETRACHLORIDE	5	ug/l	< 1.0	--	--	--	--	--	--	< 2	< 1.0
CHLOROBENZENE	80	ug/l	11	--	--	--	--	--	--	< 1	< 0.5
CHLOROETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 10	< 2.0
CHLOROFORM	-	ug/l	< 1.0	--	--	--	--	--	--	< 1	1.98
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	--	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1	< 1.0
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1	< 1.0
DICHLOROBROMOMETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 1	< 1.0
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	--	--	< 2.0
ETHYLBENZENE	2.4	ug/l	< 0.5	--	--	--	--	--	--	< 1	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	--	--	--	--	--	--	< 2	< 0.5
MESITYLENE	-	ug/l	--	--	--	--	--	--	--	< 1	--
METHYL CHLORIDE	-	ug/l	< 2.0	--	--	--	--	--	--	< 50	< 2.0
METHYLENE CHLORIDE	50	ug/l	< 1.0	--	--	--	--	--	--	< 10	19.12
METHYLSTYRENE ISOMERS	-	ug/l	--	--	--	--	--	--	--	< 1	--
O-XYLENE	300	ug/l	< 0.5	--	--	--	--	--	--	< 1	< 0.5
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	--	--	--	--	--	< 1	--
TETRACHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1	< 1.0
TOLUENE	24	ug/l	< 0.5	--	--	--	--	--	--	3.7	< 0.5
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	< 1.0
TRICHLOROETHYLENE	50	ug/l	< 1.0	--	--	--	--	--	--	< 1	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2	< 2.0
VINYL CHLORIDE	2.0	ug/l	< 2.0	--	--	--	--	--	--	< 12	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 19(c)

COMPOUND (by Class)	MOE Obj.	Units	OW4-93 Apr.'93	OW6-87 Jul.'93	OW7-87 Jul.'93	OW8-87 Jul.'93	OW10-87 Jul.'93	OW12-87 Jul.'93	OW13-88 Jul.'93	PW1 May.'88	Aug.'88

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 20(a)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Jul.'89	Jul.'89 (Dupl)	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Sep.'90	Apr.'91	Apr.'91 (Dupl)	Jul.'91
METALS											
TOTAL PHOSPHORUS	-	mg/l	--	--	--	--	--	< 0.005	--	--	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	61.3	65.7	123	121	80	49.4	84	81	98
AMMONIA NITROGEN	-	mg/l	8.09	8.09	2.77 J	2.78 J	6.45	5.27	6.39	7.85	1.59
BOD	-	mg/l	--	--	--	--	--	< 5	--	--	--
CHLORIDE	250	mg/l	2410	2450	614	650	2251	2209	4916	5801	3077
COD	-	mg/l	--	--	--	--	--	90	--	--	--
CONDUCTIVITY	-	umhos/cm	7120	7120	2930	2930	6390	6890	5550	--	4880
FLUORIDE	1.5	mg/l	--	--	--	--	--	0.4	--	--	--
HARDNESS	80-100	mg/l	--	--	--	--	--	2100	--	--	--
KJELDAHL NITROGEN	-	mg/l	8.65	8.45	2.99 J	3.72 J	8.40	5.77	8.94	9.99	2.90
PH	6.5-8.5		7.47	7.47	7.30	7.30	7.44	6.83	7.0	--	7.4
PHENOLS	-	ug/l	--	--	--	--	< 1	< 1	< 1	< 1	< 1
SULFATE	500	mg/l	1930	2180	1348	1470	--	2746	--	--	--
TOTAL SUSPENDED SOLIDS	-	mg/l	--	--	--	--	--	8	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 0.24	< 0.24	< 0.50	< 0.50	< 0.50 UJ	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33 UJ	< 2.0	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	< 0.21	< 0.21	< 0.21 UJ	< 2.0	--	--	--
1,1,2-TRICHLOROETHYLENE	-	ug/l	0.21 U	0.21 U	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20 UJ	< 1.0	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	-	ug/l	0.32 U	0.32 U	< 0.32	< 0.32	< 0.32 UJ	< 1.0	--	--	--
1,2,4-TRICHLOROBENZENE	-	ug/l	--	--	< 0.50	< 0.50	< 0.50 UJ	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 UJ	< 1.0	--	--	--
1,2-DICHLOROETHANE	5	ug/l	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82 UJ	< 1.0	< 1.0	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 20(b)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Jul.'89	Jul.'89 (Dupl)	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Sep.'90	Apr.'91	Apr.'91 (Dupl)	Jul.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,2-DICHLOROPROPANE	-	ug/l	0.22	< 0.20	< 0.20	< 0.20	< 0.20 UJ	< 1.0	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23 UJ	< 1.0	< 1.0	< 1.0	< 1.0
1,4-DICHLOROBENZENE	5	ug/l	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22 UJ	< 1.0	< 1.0	< 1.0	< 1.0
2-CHLOROETHYLVINYLETHER	-	ug/l	< 0.40	< 0.40	< 0.50	< 0.50	< 0.50 UJ	< 10	--	--	--
BENZENE	5	ug/l	0.50 U	0.5 U	< 0.19	< 0.19	< 0.19 UJ	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	-	ug/l	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49 UJ	< 2.0	--	--	--
BROMOMETHANE	-	ug/l	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83 UJ	< 2.0	--	--	--
CARBON TETRACHLORIDE	5	ug/l	< 0.93	< 0.93	< 0.93	< 0.93	< 0.93 UJ	< 1.0	--	--	--
CHLOROBENZENE	80	ug/l	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27 UJ	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	< 0.40	< 0.40	< 0.50	< 0.50	< 0.50 UJ	< 2.0	--	--	--
CHLOROFORM	-	ug/l	< 0.51	< 0.51	< 0.51	3.1 U	< 0.51 UJ	< 1.0	--	--	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27 UJ	< 1.0	--	--	--
DIBROMOCHLOROMETHANE	-	ug/l	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 UJ	< 1.0	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	< 0.24	< 0.24	< 0.50	< 0.50	< 0.50 UJ	< 2.0	--	--	--
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	< 0.50	< 0.50	< 0.50 UJ	--	--	--	--
ETHYLBENZENE	2.4	ug/l	0.24 U	0.24 U	< 0.24	< 0.24	< 0.24 UJ	< 0.5	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	--	--	0.30	0.34	< 0.21 UJ	--	< 0.5	< 0.5	< 0.5
METHYL CHLORIDE	-	ug/l	< 0.65	< 0.65	0.73 U	1.88 U	< 0.65 UJ	< 2.0	--	--	--
METHYLENE CHLORIDE	50	ug/l	0.92 UJ	1.73 UJ	2.5	11.4	84 J	13 U	--	--	--
O-XYLENE	300	ug/l	--	--	< 0.19	< 0.19	< 0.19 UJ	--	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	-	ug/l	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21 UJ	< 1.0	< 1.0	< 1.0	< 1.0
TOLUENE	24	ug/l	0.32 U	0.38 U	1.09	1.27	< 0.24 UJ	0.5 U	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20 UJ	< 1.0	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	--	--	< 1.0	--	--	--
TRICHLOROETHYLENE	50	ug/l	< 0.39	< 0.39	< 0.92	< 0.92	< 0.92 UJ	< 1.0	< 1.0	< 1.0	< 1.0
TRICHLOROFLUOROMETHANE	-	ug/l	< 0.26	< 0.26	< 0.26	0.29	< 0.26 UJ	< 2.0	--	--	--
VINYL CHLORIDE	2.0	ug/l	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74 UJ	< 2.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 20(c)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Jul.'89	Jul.'89 (Dupl)	Nov.'89	Nov.'89 (Dupl)	Apr.'90	Sep.'90	Apr.'91	Apr.'91 (Dupl)	Jul.'91

608000

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 21(a)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Jul.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	Apr.'93 (Dupl)	Jul.'93	Jul.'93 (Dupl)	Apr.'94	Jul.'94
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	83	76	65	93.4	93.8	55.6	56.2	110	77
AMMONIA NITROGEN	-	mg/l	1.99	7.24	7.32	6.50	7.00	5.72	5.50	4.27	7.05
CHLORIDE	250	mg/l	2502	2288	2424	2536	2095	2510	2488	1014	2604
CONDUCTIVITY	-	umhos/cm	--	5680	14500	5800	--	7200	--	5700	6700
KJELDAHL NITROGEN	-	mg/l	3.19	9.10	8.03	6.63	7.44	6.46	6.42	4.36	13.7
PH	6.5-8.5		--	7.21	7.42	7.17	--	7.8	--	7.6	7.5
PHENOLS	-	ug/l	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	--
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	--
1,1-DICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1
1,1-DICHLOROETHYLENE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
1,2-DICHLOROBENZENE	200	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
1,2-DICHLOROETHANE	5	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1
1,2-DICHLOROPROPANE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	--	< 10	< 10	--	--	--	--
BENZENE	5	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
BROMOFORM	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	--
BROMOMETHANE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	--
CARBON TETRACHLORIDE	5	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
CHLOROBENZENE	80	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROETHANE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	--
CHLOROFORM	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 21(b)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Jul.'91 (Dupl)	Apr.'92	Jul.'92	Apr.'93	Apr.'93 (Dupl)	Jul.'93	Jul.'93 (Dupl)	Apr.'94	Jul.'94
VOLATILE ORGANIC COMPOUNDS (cont'd)											
DIBROMOCHLOROMETHANE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
DICHLOROBROMOMETHANE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	--
ETHYLBENZENE	2.4	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
METHYL CHLORIDE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	--
METHYLENE CHLORIDE	50	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
O-XYLENE	300	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1	< 1
TOLUENE	24	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
TRICHLOROETHANE	-	ug/l	--	--	--	--	--	< 1.0	< 1.0	--	--
TRICHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1	< 1
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	--
VINYL CHLORIDE	2.0	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 22(a)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Jul.'94 (Dupl)	PW3 May.'88	May.'88 (Dupl)	Aug.'88	Aug.'88 (Dupl)	Jul.'89	Nov.'89	Apr.'90	Apr.'90 (Dupl)
BIOLOGICAL TESTING											
FAECAL COLIFORM	0/100ml/100ml		--	< 1	< 1	< 1	< 1	--	--	--	--
FAECAL STREPTOCOCCI	0/100ml/100ml		--	< 1	< 1	< 1	< 1	--	--	--	--
TOTAL COLIFORMS	5/100ml/100ml		--	< 1	< 1	60	60	--	--	--	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	62	563	559	568	568	648	666	528	534
AMMONIA NITROGEN	-	mg/l	6.05	< 0.02	< 0.02	1.87	1.87	1.04	0.89 J	2.26	1.90
CHLORIDE	250	mg/l	2154	938	948	850	970	580	516	964	844
CONDUCTIVITY	-	umhos/cm	6700	4050	4050	4810	4810	2800	2880	3770	3770
KJELDAHL NITROGEN	-	mg/l	13.4	1.91	1.73	2.42	3.19	1.04	1.22 J	3.32	3.46
PH	6.5-8.5		7.5	6.5	6.5	6.81	6.81	6.55	7.00	6.76	6.76
PHENOLS	-	ug/l	< 1	< 1.0	4	--	--	--	--	1	< 1
SULFATE	500	mg/l	--	935	950	927	957	1020	1972	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1	--	< 2	< 1.0	< 1.0	< 0.24	< 0.50	< 0.50 UJ	< 0.50 UJ
1,1,2,2-TETRACHLOROETHANE	-	ug/l	--	--	< 2	< 1.0	< 1.0	< 0.33	< 0.33	< 0.33 UJ	< 0.33 UJ
1,1,2-TRICHLOROETHANE	-	ug/l	--	--	< 1	< 1.0	< 1.0	--	0.21 U	< 0.21 UJ	< 0.21 UJ
1,1,2-TRICHLOROETHYLENE	-	ug/l	--	--	--	--	--	< 0.21	--	--	--
1,1-DICHLOROETHANE	-	ug/l	< 1	--	< 1	< 1.0	< 1.0	< 0.20	0.39	< 0.20 UJ	< 0.20 UJ
1,1-DICHLOROETHYLENE	-	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.32	< 0.32	< 0.32 UJ	< 0.32 UJ
1,2,4-TRICHLOROBENZENE	-	ug/l	--	--	--	--	--	--	< 0.50	< 0.50 UJ	< 0.50 UJ
1,2-DICHLOROBENZENE	200	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.24	< 0.24	< 0.24 UJ	< 0.24 UJ
1,2-DICHLOROETHANE	5	ug/l	< 1	--	< 2	< 1.0	< 1.0	< 0.82	< 0.82	< 0.82 UJ	< 0.82 UJ
1,2-DICHLOROPROPANE	-	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.20	< 0.20	< 0.20 UJ	< 0.20 UJ
1,3-DICHLOROBENZENE	-	ug/l	< 1	--	< 1	< 1.0	< 1.0	< 0.23	< 0.23	< 0.23 UJ	< 0.23 UJ
1,4-DICHLOROBENZENE	5	ug/l	< 1	--	< 1	< 1.0	< 1.0	0.65	0.75	< 0.22 UJ	< 0.22 UJ

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 22(b)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Jul.'94 (Dupl)	PW3 May.'88	May.'88 (Dupl)	Aug.'88	Aug.'88 (Dupl)	Jul.'89	Nov.'89	Apr.'90	Apr.'90 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
2-CHLOROETHYLVINYLETHER	-	ug/l	--	--	< 10	--	--	< 0.40	< 0.50	< 0.50 UJ	< 0.50 UJ
A-METHYLSTYRENE	-	ug/l	--	--	< 1	--	--	--	--	--	--
BENZENE	5	ug/l	< 0.5	--	< 1	< 0.5	< 0.5	< 0.50	0.19 U	< 0.19 UJ	1.3 J
BROMOFORM	-	ug/l	--	--	< 2	< 1.0	< 1.0	< 0.49	0.49 U	< 0.49 UJ	< 0.49 UJ
BROMOMETHANE	-	ug/l	--	--	< 16	< 2.0	< 2.0	< 0.83	0.83 U	9.1 J	24 J
CARBON TETRACHLORIDE	5	ug/l	--	--	< 2	< 1.0	< 1.0	< 0.93	< 0.93	< 0.93 UJ	< 0.93 UJ
CHLOROBENZENE	80	ug/l	< 0.5	--	4	TR	TR	< 0.27	< 0.27	< 0.27 UJ	3.0 J
CHLOROETHANE	-	ug/l	--	--	< 10	< 2.0	< 2.0	< 0.40	< 0.50	< 0.50 UJ	< 0.50 UJ
CHLOROFORM	-	ug/l	--	--	< 1	TR	< 1.0	< 0.51	< 0.51 UJ	< 0.51 UJ	< 0.51 UJ
CIS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	--	< 1.0	< 1.0	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.27	< 0.27	< 0.27 UJ	< 0.27 UJ
DIBROMOCHLOROMETHANE	-	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.24	< 0.24	< 0.24 UJ	< 0.24 UJ
DICHLOROBROMOMETHANE	-	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.24	< 0.50	< 0.50 UJ	< 0.50 UJ
DICHLORODIFLUOROMETHANE	-	ug/l	--	--	--	--	--	--	< 0.50	< 0.50 UJ	< 0.50 UJ
DICHLOROFLUOROMETHANE	-	ug/l	--	--	--	< 2.0	< 2.0	--	--	--	--
ETHYLBENZENE	2.4	ug/l	< 0.5	--	< 1	< 0.5	< 0.5	< 0.24	< 0.24	< 0.24 UJ	< 0.24 UJ
M&P-XYLENE	-	ug/l	< 0.5	--	< 2	< 0.5	< 0.5	--	< 0.21	< 0.21 UJ	< 0.21 UJ
MESITYLENE	-	ug/l	--	--	< 1	--	--	--	--	--	--
METHYL CHLORIDE	-	ug/l	--	--	< 50	< 2.0	< 2.0	0.74	< 0.65 UJ	< 0.65 UJ	< 0.65 UJ
METHYLENE CHLORIDE	50	ug/l	--	--	12	< 1.0	< 1.0	< 0.92	4.6 J	< 0.92 UJ	5.2 J
METHYLSTYRENE ISOMERS	-	ug/l	--	--	< 1	--	--	--	--	--	--
O-XYLENE	300	ug/l	< 0.5	--	< 1	< 0.5	< 0.5	--	0.19 U	< 0.19 UJ	< 0.19 UJ
OTHER AROMATIC COMPOUNDS	-	ug/l	--	--	< 1	--	--	--	--	--	--
TETRACHLOROETHYLENE	-	ug/l	< 1	--	< 1	< 1.0	< 1.0	< 0.21	< 0.21	< 0.21 UJ	< 0.21 UJ
TOLUENE	24	ug/l	< 0.5	--	2.7	< 0.5	< 0.5	< 0.24	< 0.24	< 0.24 UJ	< 0.24 UJ
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	--	--	< 1	< 1.0	< 1.0	< 0.20	0.20 U	< 0.20 UJ	< 0.20 UJ
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	--	< 1.0	--	< 1.0	< 1.0	< 0.10	--	--	--
TRICHLOROETHYLENE	50	ug/l	< 1	--	< 1	< 1.0	< 1.0	< 0.39	< 0.92	< 0.92 UJ	< 0.92 UJ
TRICHLOROFLUOROMETHANE	-	ug/l	--	--	< 2	< 2.0	< 2.0	< 0.26	< 0.26	< 0.26 UJ	< 0.26 UJ

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 22(c)

COMPOUND (by Class)	MOE Obj.	Units	PW1 Jul.'94 (Dupl)	PW3 May.'88	May.'88 (Dupl)	Aug.'88	Aug.'88 (Dupl)	Jul.'89	Nov.'89	Apr.'90	Apr.'90 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)											
VINYL CHLORIDE	2.0	ug/l	--	--	< 12	< 2.0	< 2.0	< 0.74	< 0.74	< 0.74 UJ	< 0.74 UJ

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 23(a)

COMPOUND (by Class)	MOE Obj.	Units	PW3 Sep.'90	Apr.'91	Jul.'91	Apr.'92	Apr.'92 (Dupl)	Jul.'92	Jul.'92 (Dupl)	Apr.'93	Jul.'93
METALS											
TOTAL PHOSPHORUS	-	mg/l	0.158	--	--	--	--	--	--	--	--
GENERAL CHEMISTRY											
ALKALINITY	30-500	mg/l	527	566	562	557	568	438	439	541	513
AMMONIA NITROGEN	-	mg/l	0.87	1.54	0.76	1.00	1.02	0.96	1.10	2.60	0.64
BOD	-	mg/l	26	--	--	--	--	--	--	--	--
CHLORIDE	250	mg/l	595	626	979	620	592	583	578	677	458
COD	-	mg/l	65	--	--	--	--	--	--	--	--
CONDUCTIVITY	-	umhos/cm	2910	2190	2390	2600	2600	6400	6400	2800	2400
FLUORIDE	1.5	mg/l	< 0.1	--	--	--	--	--	--	--	--
HARDNESS	80-100	mg/l	1740	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	-	mg/l	2.00	1.95	1.52	1.32	1.24	1.63	1.15	2.87	1.53
PH	6.5-8.5		6.87	6.5	6.6	7.37	7.37	8.04	8.04	6.92	8.0
PHENOLS	-	ug/l	< 1	1	< 1	< 1	< 1	< 1.0	2	< 1.0	< 1.0
SULFATE	500	mg/l	1648	--	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	-	mg/l	820	--	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS											
1,1,1-TRICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
1,1,2-TRICHLOROETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
1,1-DICHLOROETHANE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
1,1-DICHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
1,2-DICHLOROBENZENE	200	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
1,2-DICHLOROETHANE	5	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
1,2-DICHLOROPROPANE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
1,3-DICHLOROBENZENE	-	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 23(b)

COMPOUND (by Class)	MOE Obj.	Units	PW3 Sep.'90	Apr.'91	Jul.'91	Apr.'92	Apr.'92 (Dupl)	Jul.'92	Jul.'92 (Dupl)	Apr.'93	Jul.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)											
1,4-DICHLOROBENZENE	5	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
2-CHLOROETHYLVINYLETHER	-	ug/l	< 10	--	--	--	--	--	--	< 10	--
BENZENE	5	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
BROMOFORM	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
BROMOMETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
CARBON TETRACHLORIDE	5	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
CHLOROBENZENE	80	ug/l	1.9	1.7	2.5	2.6	3.3	3.0	2.9	< 0.5	--
CHLOROETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
CHLOROFORM	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
CIS-1,2-DICHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
DIBROMOCHLOROMETHANE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
DICHLOROBROMOMETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
ETHYLBENZENE	2.4	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
M&P-XYLENE	-	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
METHYL CHLORIDE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
METHYLENE CHLORIDE	50	ug/l	18.9 U	--	--	--	--	--	--	< 1.0	--
O-XYLENE	300	ug/l	--	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
TETRACHLOROETHYLENE	-	ug/l	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
TOLUENE	24	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	--
TRANS-1,2-DICHLOROETHYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	-	ug/l	< 1.0	--	--	--	--	--	--	< 1.0	--
TRICHLOROETHYLENE	50	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	--
TRICHLOROFLUOROMETHANE	-	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--
VINYL CHLORIDE	2.0	ug/l	< 2.0	--	--	--	--	--	--	< 2.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results

Report 24

COMPOUND (by Class)	MOE Obj.	Units	PW3 Apr.'94	Apr.'94 (Dupl)	Jul.'94
GENERAL CHEMISTRY					
ALKALINITY	30-500	mg/l	556	558	566
AMMONIA NITROGEN	-	mg/l	1.07	1.08	0.89
CHLORIDE	250	mg/l	404	290	407
CONDUCTIVITY	-	umhos/cm	2900	2900	2200
KJELDAHL NITROGEN	-	mg/l	1.30	1.32	1.19
PH	6.5-8.5		7.5	7.5	6.8
PHENOLS	-	ug/l	< 1	< 1	< 1
VOLATILE ORGANIC COMPOUNDS					
1,1,1-TRICHLOROETHANE	-	ug/l	< 1	< 1	< 1
1,1-DICHLOROETHANE	-	ug/l	< 1	< 1	< 1
1,2-DICHLOROETHANE	5	ug/l	< 1	< 1	< 1
1,3-DICHLOROBENZENE	-	ug/l	< 1	< 1	< 1
1,4-DICHLOROBENZENE	5	ug/l	< 1	< 1	< 1
BENZENE	5	ug/l	< 0.5	< 0.5	< 0.5
CHLOROBENZENE	80	ug/l	< 0.5	< 0.5	< 0.5
ETHYLBENZENE	2.4	ug/l	< 0.5	< 0.5	< 0.5
M&P-XYLENE	-	ug/l	< 0.5	< 0.5	< 0.5
O-XYLENE	300	ug/l	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	-	ug/l	< 1	< 1	< 1
TOLUENE	24	ug/l	< 0.5	< 0.5	< 0.5
TRICHLOROETHYLENE	50	ug/l	< 1	< 1	< 1

000817

LEGEND (MOE Obj.: Ontario Surface Water or Groundwater Objectives, revised July 1993)

J	- The associated value is an estimated quantity.
U	- The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	- The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.
--	- The parameter was not analyzed.
ND	- The material was analyzed, but not detected above an unstated method detection limit.
TR	- Trace level detection.
<	- Indicates result less than that shown.
>	- Indicates result greater than that shown.
R	- The data was not useable.
NS	- Insufficient sample.
i	- Interim Maximum Acceptable Concentration (IMAC).
(a)	- Indicates units were /50ml rather than that shown.

APPENDIX G-3

LEACHATE CHARACTERIZATION

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 1(a)

COMPOUND (by Class)	Units	LW1 May.'86	LW1 May.'88	LW2 May.'86	LW2 May.'88	LW3 May.'86	LW3 May.'88	LW3 May.'88 (Dupl)	LW4 May.'86	LW4 May.'86 (Dupl)
ACID EXTRACTABLES										
2,4,6-TRICHLOROPHENOL	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
2,4-DICHLOROPHENOL	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
2,4-DIMETHYL PHENOL	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
2,4-DINITROPHENOL	ug/l	< 25.0	--	< 25.0	--	< 5.0	--	--	< 5.0	< 5.0
2-CHLOROPHENOL	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
2-NITROPHENOL	ug/l	< 5.0	--	< 5.0	--	< 5.0	--	--	< 5.0	< 5.0
4,6-DINITRO-O-CRESOL	ug/l	< 3.0	--	< 3.0	--	< 3.0	--	--	< 3.0	< 3.0
4-NITROPHENOL	ug/l	< 5.0	--	< 5.0	--	< 25.0	--	--	< 5.0	< 5.0
P-CHLORO-M-CRESOL	ug/l	< 5.0	--	< 5.0	--	< 5.0	--	--	< 5.0	< 5.0
PENTACHLOROPHENOL	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
PHENOL	ug/l	< 3.0	--	< 3.0	--	< 3.0	--	--	< 3.0	< 3.0
BASE/NEUTRAL EXTRACTABLES										
1,2,4-TRICHLOROBENZENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,2-DICHLOROBENZENE	ug/l	< 1.0	--	< 1.0	--	5.8	--	--	2.0	< 1.0
1,2-DIPHENYLHYDRAZINE	ug/l	< 5.0	--	< 5.0	--	< 5.0	--	--	< 5.0	< 5.0
1,3-DICHLOROBENZENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,4-DICHLOROBENZENE	ug/l	45.8	--	10.0	--	58.2	--	--	12.1	< 1.0
2,4-DINITROTOLUENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
2,6-DINITROTOLUENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
2-CHLORONAPHTHALENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
3,3'-DICHLOROBENZIDINE	ug/l	< 5.0	--	< 5.0	--	< 5.0	--	--	< 5.0	< 5.0
4-BROMOPHENYL PHENYL ETHER	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
4-CHLOROPHENYL PHENYL ETHER	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
9H-FLUORENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
ACENAPHTHENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
ACENAPHTHYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
ANTHRACENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 1(b)

COMPOUND (by Class)	Units	LW1 May.'86	LW1 May.'88	LW2 May.'86	LW2 May.'88	LW3 May.'86	LW3 May.'88	LW3 May.'88 (Dupl)	LW4 May.'86	LW4 May.'86 (Dupl)
BASE/NEUTRAL EXTRACTABLES (cont'd)										
BENZIDINE	ug/l	< 5.0	--	< 5.0	--	< 5.0	--	--	< 5.0	< 5.0
BENZO(A)ANTHRACENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
BENZO(A)PYRENE	ug/l	TR	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
BENZO(GHI)PERYLENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
BENZO(K)FLUORANTHENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
BIS(2-CHLOROETHOXY)METHANE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
BIS(2-CHLOROETHYL)ETHER	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	100.5	--	67.0	--	5.5	--	--	4.8	7.3
BUTYL BENZYL PHTHALATE	ug/l	54.5	--	21.4	--	18.8	--	--	6.4	3.2
CHRYSENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
DI-N-BUTYL PHTHALATE	ug/l	< 1.0	--	< 1.0	--	8.2	--	--	16.9	3.5
DI-N-OCTYL PHTHALATE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
DIBENZO(A,H)ANTHRACENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
DIETHYL PHTHALATE	ug/l	3.4	--	2.9	--	TR	--	--	< 2.0	< 2.0
DIMETHYL PHTHALATE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	6.1	5.6
FLUORANTHENE	ug/l	4.4	--	< 1.0	--	TR	--	--	< 1.0	< 1.0
HEXACHLOROBENZENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
HEXACHLOROBUTADIENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
HEXACHLOROCYCLOPENTADIENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
HEXACHLOROETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
INDENO(1,2,3-CD)PYRENE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
ISOPHORONE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
N-NITROSO-DI-N-PROPYLAMINE	ug/l	< 3.0	--	< 3.0	--	< 3.0	--	--	< 3.0	< 3.0
N-NITROSODIPHENYLAMINE	ug/l	< 4.0	--	< 4.0	--	< 4.0	--	--	< 4.0	< 4.0
NAPHTHALENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	5.1	< 1.0
NITROBENZENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
PHENANTHRENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
PYRENE	ug/l	< 2.0	--	< 2.0	--	TR	--	--	< 2.0	< 2.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 1(c)

COMPOUND (by Class)	Units	LW1 May.'86	LW1 May.'88	LW2 May.'86	LW2 May.'88	LW3 May.'86	LW3 May.'88	LW3 May.'88 (Dupl)	LW4 May.'86	LW4 May.'86 (Dupl)
METALS										
IRON	mg/l	1.10	--	0.40	--	0.04	--	--	6.90	--
BIOLOGICAL TESTING										
FAECAL COLIFORM	/100ml	< 1	220	< 1	210	< 1	< 1	6	< 1	--
FAECAL STREPTOCOCCI	/100ml	10	2	< 1	2	< 1	< 1	< 1	< 1	--
TOTAL COLIFORMS	/100ml	< 1	63000	< 1	970	< 1	< 1	100	130	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	2830	3370	1270	2080	980	1320	1340	1350	--
AMMONIA NITROGEN	mg/l	15.00	400	60.00	135	160.00	0.31	< 0.02	27.00	--
CHLORIDE	mg/l	3230	3180	1220	1080	329	506	540	1940	--
CONDUCTIVITY	umhos/cm	12300	11690	7000	5470	3300	3330	3330	5777	--
DOC	mg/l	340.0	--	90.0	--	28.0	--	--	54.0	--
HARDNESS	mg/l	2080	--	1030	--	2060	--	--	3030	--
KJELDAHL NITROGEN	mg/l	790.00	444	210.0	149	198.00	4.01	3.05	31.00	--
NITRATE	mg/l	0.10	--	< 0.01	--	< 0.01	--	--	0.01	--
NITRITE	mg/l	0.030	--	< 0.02	--	0.006	--	--	< 0.02	--
PH		7.57	6.95	7.43	7	6.68	6.73	6.73	6.91	--
PHENOLS	ug/l	< 2.0	< 1.0	< 2.0	< 1.0	< 2.0	< 1.0	20	< 2.0	--
SULFATE	mg/l	< 5	< 1	65	< 1.0	ND	331	361	< 5	--
PESTICIDES AND PCB's										
2,4-DDD	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
4,4-DDD	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
4,4-DDE	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
4,4-DDT	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 1(d)

COMPOUND (by Class)	Units	LW1 May.'86	LW1 May.'88	LW2 May.'86	LW2 May.'88	LW3 May.'86	LW3 May.'88	LW4 May.'88 (Dupl)	LW4 May.'86	LW4 May.'86 (Dupl)
PESTICIDES AND PCB's (cont'd)										
ALDRIN	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
ALPHA-BHC	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
ALPHA-CHLORDANE	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
ALPHA-ENDOSULFAN	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
BETA-BHC	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
BETA-ENDOSULFAN	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
DELTA-BHC	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
DIELDRIN	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
ENDOSULFAN SULFATE	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
ENDRIN	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
GAMMA-BHC	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
GAMMA-CHLORDANE	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
HEPTACHLOR	ug/l	< 0.010	--	< 0.010	--	< 0.010	--	--	< 0.010	< 0.010
HEPTACHLOR EPOXIDE	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
METHOXYCHLOR	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
MIREX	ug/l	< 0.100	--	< 0.100	--	< 0.100	--	--	< 0.100	< 0.100
OXYCHLORDANE	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
TOTAL PCB	ug/l	< 0.020	--	< 0.020	--	< 0.020	--	--	< 0.020	< 0.020
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,1-DICHLOROETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	< 1.0	< 1.0
1,2-DICHLOROBENZENE	ug/l	TR	--	< 1.0	--	< 1.0	--	--	1.7	1.8
1,2-DICHLOROETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0

000823

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 1(e)

COMPOUND (by Class)	Units	LW1 May.'86	LW1 May.'88	LW2 May.'86	LW2 May.'88	LW3 May.'86	LW3 May.'88	LW3 May.'88 (Dupl)	LW4 May.'86	LW4 May.'86 (Dupl)
VOLATILE ORGANIC COMPOUNDS (cont'd)										
1,2-DICHLOROPROPANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,3-DICHLOROBENZENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
1,4-DICHLOROBENZENE	ug/l	18.6	--	3.1	--	11.7	--	--	11.3	11.5
BENZENE	ug/l	8.3	--	12.3	--	17.7	--	--	21.0	21.7
BROMOFORM	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
BROMOMETHANE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
CARBON TETRACHLORIDE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
CHLOROBENZENE	ug/l	25.9	--	22.5	--	51.9	--	--	32.4	37.0
CHLOROETHANE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
CHLOROFORM	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
DICHLOROBROMOMETHANE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
DICHLOROFLUOROMETHANE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
ETHYLBENZENE	ug/l	3.2	--	< 0.5	--	< 0.5	--	--	9.4	5.7
M&P-XYLENE	ug/l	11.2	--	< 0.5	--	< 0.5	--	--	31.3	28.1
METHYL CHLORIDE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
METHYLENE CHLORIDE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
O-XYLENE	ug/l	42.7	--	1.0	--	< 0.5	--	--	16.9	15.9
TETRACHLOROETHYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
TOLUENE	ug/l	12.4	--	0.7	--	TR	--	--	5.72	5.68
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	1.4	1.9
TRANS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	< 1.0	< 1.0
TRICHLOROETHYLENE	ug/l	< 1.0	--	< 1.0	--	< 1.0	--	--	1.3	1.0
TRICHLOROFLUOROMETHANE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	< 2.0	< 2.0
VINYL CHLORIDE	ug/l	< 2.0	--	< 2.0	--	< 2.0	--	--	10.0	7.6

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 1(f)

COMPOUND (by Class)	Units	LW1 May.'86	LW1 May.'88	LW2 May.'86	LW2 May.'88	LW3 May.'86	LW3 May.'88	LW3 May.'88 (Dupl)	LW4 May.'86	LW4 May.'86 (Dupl)

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(a)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
ACID EXTRACTABLES										
2,4,6-TRICHLOROPHENOL	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	--
2,4-DICHLOROPHENOL	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	--
2,4-DIMETHYL PHENOL	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	21.0	--	--
2,4-DINITROPHENOL	ug/l	--	< 5.0	--	< 5.0	--	< 3.0	< 3.0	--	--
2-CHLOROPHENOL	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	--
2-NITROPHENOL	ug/l	--	< 5.0	--	< 5.0	--	< 5.0	< 5.0	--	--
4,6-DINITRO-O-CRESOL	ug/l	--	--	--	< 3.0	--	< 5.0	< 5.0	--	--
4-NITROPHENOL	ug/l	--	< 5.0	--	< 5.0	--	< 5.0	< 5.0	--	--
DI-T-BUTYLMETHYLPHENOL	ug/l	--	--	--	--	--	< 15.0	< 15.0	--	--
P-CHLORO-M-CRESOL	ug/l	--	--	--	< 5.0	--	< 5.0	< 5.0	--	--
PENTACHLOROPHENOL	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	--
PHENOL	ug/l	--	15.6	--	< 3.0	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES										
1,2,4-TRICHLOROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
1,2-DICHLOROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 2
1,2-DIPHENYLHYDRAZINE	ug/l	--	< 5.0	--	< 5.0	--	< 5.0	< 5.0	--	< 1
1,3-DICHLOROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 2
1,4-DICHLOROBENZENE	ug/l	--	< 1.0	--	2.3	--	< 1.0	47.2	--	15.1
2,4-DINITROTOLUENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 3
2,6-DINITROTOLUENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 3
2-CHLORONAPHTHALENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
3,3'-DICHLOROBENZIDINE	ug/l	--	< 5.0	--	< 5.0	--	< 5.0	< 5.0	--	< 1
4-BROMOPHENYL PHENYL ETHER	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
9H-FLUORENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	--
ACENAPHTHENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	TR	--	< 1
ACENAPHTHYLENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(b)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
BASE/NEUTRAL EXTRACTABLES (cont'd)										
ANTHRACENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
BENZIDINE	ug/l	--	< 5.0	--	< 5.0	--	< 5.0	< 5.0	--	< 20
BENZO(A)ANTHRACENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 1
BENZO(A)PYRENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 3
BENZO(GHI)PERYLENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 5
BENZO(K)FLUORANTHENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 2
BENZOTHIAZOLE	ug/l	--	--	--	--	--	< 15.0	< 15.0	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 1
BIS(2-CHLOROETHYL)ETHER	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	137.1	--	27.6	--	13	33.1	--	1.4
BUTYL BENZYL PHTHALATE	ug/l	--	31.7	--	5.8	--	< 2.0	< 2.0	--	< 1
CHRYSENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 2
DI-N-BUTYL PHTHALATE	ug/l	--	14.1	--	5.2	--	< 1.0	< 1.0	--	22
DI-N-OCTYL PHTHALATE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 1
DIBENZO(A,H)ANTHRACENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 5
DIETHYL PHTHALATE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	2.4	--	< 1
DIMETHYL PHTHALATE	ug/l	--	< 2.0	--	7.1	--	< 2.0	< 2.0	--	1.2
FLUORANTHENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
FLUORENE	ug/l	--	--	--	--	--	--	--	--	< 1
HEXACHLOROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
HEXACHLOROBUTADIENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 3
HEXACHLOROCYCLOPENTADIENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 5
HEXACHLOROETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 3
INDENO(1,2,3-CD)PYRENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 5
ISOPHORONE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	< 3.0	--	< 3.0	--	< 3.0	< 3.0	--	< 1
N-NITROSODIPHENYLAMINE	ug/l	--	< 4.0	--	< 4.0	--	< 4.0	< 4.0	--	< 1
NAPHTHALENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	26.3	--	5.2

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(c)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
BASE/NEUTRAL EXTRACTABLES (cont'd)										
NITROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	< 1.0	--	< 1
P-CHLOROANILINE	ug/l	--	--	--	--	--	< 20.0	< 20.0	--	--
PHENANTHRENE	ug/l	--	< 1.0	--	< 1.0	--	< 1.0	TR	--	< 1
PYRENE	ug/l	--	< 2.0	--	< 2.0	--	< 2.0	< 2.0	--	< 1
METALS										
ALUMINUM	mg/l	--	--	--	--	--	0.02	0.050	--	< 0.05
ANTIMONY	mg/l	--	--	--	--	--	< 0.001	--	--	< 0.1
ARSENIC	mg/l	--	--	--	--	--	< 0.0005	0.002	--	< 0.01
BARIUM	mg/l	--	--	--	--	--	0.17	0.550	--	< 0.1
BERYLLIUM	mg/l	--	--	--	--	--	< 0.01	0.0012	--	< 0.5
BISMUTH	mg/l	--	--	--	--	--	--	--	--	< 0.1
CADMIUM	mg/l	--	--	--	--	--	< 0.001	< 0.001	--	0.011
CHROMIUM	mg/l	--	--	--	--	--	0.008	0.014	--	< 0.01
COBALT	mg/l	--	--	--	--	--	< 0.005	0.021	--	< 0.0
COPPER	mg/l	--	--	--	--	--	0.015	0.064	--	0.15
CYANIDE	mg/l	--	--	--	--	--	< 0.01	0.012	--	0.07
IRON	mg/l	--	0.30	--	2.10	--	1.44	3.250	--	13.5
LEAD	mg/l	--	--	--	--	--	< 0.005	0.004	--	< 0.04
MANGANESE	mg/l	--	--	--	--	--	0.92	0.40	--	0.25
MERCURY	mg/l	--	--	--	--	--	0.003	0.0017	--	0.009
MOLYBDENUM	mg/l	--	--	--	--	--	0.01	< 0.01	--	< 0.5
NICKEL	mg/l	--	--	--	--	--	0.014	0.051	--	< 0.02
SELENIUM	mg/l	--	--	--	--	--	< 0.01	< 0.002	--	< 0.001
TIN	mg/l	--	--	--	--	--	< 0.01	< 0.002	--	< 1.0
TITANIUM	mg/l	--	--	--	--	--	< 0.05	< 0.05	--	< 1.0
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	0.14	< 0.01	--	0.19
VANADIUM	mg/l	--	--	--	--	--	< 0.02	< 0.02	--	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(d)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
METALS (cont'd)										
ZINC	mg/l	--	--	--	--	--	0.014	0.069	--	0.22
BIOLOGICAL TESTING										
FAECAL COLIFORM	/100ml	800	< 1	40	230	< 1	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	310	< 1	< 1	650	< 1	--	--	--	--
TOTAL COLIFORMS	/100ml	1800	11000	200	4000	< 1	--	--	--	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	316	1730	193	492	462	--	--	--	--
AMMONIA NITROGEN	mg/l	27.9	70.00	39.5	0.15	< 0.02	--	--	0.20	0.52
BOD	mg/l	--	--	--	--	--	42.0	27.0	--	25.8
CHLORIDE	mg/l	1710	485	290	109	90	555	674	--	927
CONDUCTIVITY	umhos/cm	5910	2630	2190	1236	1080	--	--	1650	1680
DOC	mg/l	--	33.0	--	3.0	--	--	--	--	--
FLUORIDE	mg/l	--	--	--	--	--	< 0.1	1.1	--	0.2
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	0.240	0.63
HARDNESS	mg/l	--	864	--	760	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	39.7	80.00	52.8	1.03	5.41	--	--	1.15	1.23
NITRATE	mg/l	--	< 0.01	--	0.04	--	--	--	--	--
NITRITE	mg/l	--	0.011	--	0.002	--	--	--	--	--
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	0.95	0.71
PH		5.75	7.02	5.18	7.38	5.43	7.68	6.70	7.12	6.80
PHENOLS	ug/l	154	2.2	9	3.8	26	< 3.0	< 3.0	--	--
SULFATE	mg/l	< 1.0	500	< 1.0	145	142	375	< 0.5	--	< 0.5
SULFIDE	mg/l	--	--	--	--	--	< 0.5	< 0.5	--	< 0.5
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	15.0	102.0	--	92.9

000829

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(e)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
PESTICIDES AND PCB's										
2,4-DDD	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.005
2,4-DDT	ug/l	--	--	--	--	--	--	--	--	< 0.005
4,4-DDD	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.005
4,4-DDE	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.005
4,4-DDT	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.005
ALDRIN	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	< 0.005
ALPHA-BHC	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	< 0.005
ALPHA-CHLORDANE	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	< 0.005
ALPHA-ENDOSULFAN	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	--
AROCHLOR-1242	ug/l	--	--	--	--	--	--	< 0.020	--	< 0.005
AROCHLOR-1254	ug/l	--	--	--	--	--	--	--	--	< 0.05
AROCHLOR-1260	ug/l	--	--	--	--	--	--	--	--	< 0.05
BETA-BHC	ug/l	--	< 0.010	--	< 0.010	--	--	--	--	< 0.05
BETA-ENDOSULFAN	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.05
CIS-CHLORDANE	ug/l	--	--	--	--	--	--	< 0.020	--	< 0.05
DELTA-BHC	ug/l	--	< 0.020	--	< 0.020	--	--	--	--	< 0.005
DIELDRIN	ug/l	--	< 0.010	--	< 0.010	--	--	--	--	--
ENDOSULFAN SULFATE	ug/l	--	< 0.020	--	< 0.020	--	--	--	--	< 0.005
ENDRIN	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	< 0.05
GAMMA-BHC	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	< 0.05
GAMMA-CHLORDANE	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	< 0.005
HEPTACHLOR	ug/l	--	< 0.010	--	< 0.010	--	--	< 0.020	--	--
HEPTACHLOR EPOXIDE	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.005
HEXACHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	< 0.005
METHOXYCHLOR	ug/l	--	< 0.020	--	< 0.020	--	--	--	--	< 0.005
MIREX	ug/l	--	< 0.100	--	< 0.100	--	--	< 0.020	--	< 0.05
OXYCHLORDANE	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	< 0.05
TOTAL PCB	ug/l	--	< 0.020	--	< 0.020	--	--	< 0.020	--	--
TRANS-CHLORDANE	ug/l	--	--	--	--	--	--	< 0.5	--	--
							--	--	--	< 0.005

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(f)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
1,1,2,2-TETRACHLOROETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 2
1,1,2-TRICHLOROETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.5
1,1-DICHLOROETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	0.3
1,1-DICHLOROETHYLENE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	--	--	< 0.2
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	< 1.0	--	--
1,2-DICHLOROBENZENE	ug/l	--	< 1.0	--	2.9	--	< 1.0	< 1.0	--	< 0.3
1,2-DICHLOROETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	< 1.0	--	--
1,2-DICHLOROPROPANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
1,3-DICHLOROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	82.0	--	18.7
1,4-DICHLOROBENZENE	ug/l	--	< 1.0	--	< 1.0	--	TR	7.8	--	< 0.3
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	--	--	< 10
BENZENE	ug/l	--	TR	--	< 0.5	--	< 1.0	48.4	--	14.9
BROMOFORM	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 2
BROMOMETHANE	ug/l	--	< 2.0	--	< 2.0	--	--	< 2.0	--	< 0.2
CARBON TETRACHLORIDE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 1
CHLOROBENZENE	ug/l	--	< 0.5	--	5.2	--	< 1.0	299	--	< 0.2
CHLOROETHANE	ug/l	--	< 2.0	--	< 2.0	--	--	< 2.0	--	< 0.2
CHLOROFORM	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	0.4
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	< 1.0	--	< 1.0	--	--	< 1.0	--	< 0.5
DIBROMOCHLOROMETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
DICHLOROBROMOMETHANE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	8.1	--	--
DICHLOROFLUOROMETHANE	ug/l	--	< 2.0	--	< 2.0	--	--	--	--	--
ETHYLBENZENE	ug/l	--	< 0.5	--	0.5	--	< 1.0	--	--	26.2
M&P-XYLENE	ug/l	--	< 0.5	--	0.7	--	< 1.0	412	--	44.6
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	8
METHYL CHLORIDE	ug/l	--	< 2.0	--	< 2.0	--	--	--	--	< 0.2

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 2(g)

COMPOUND (by Class)	Units	LW4 May.'88	LW5 May.'86	LW5 May.'88	LW6 May.'86	LW6 May.'88	MH13 Mar.'87	MH13 May.'87	MH13 Jun.'87	MH13 Aug.'87
VOLATILE ORGANIC COMPOUNDS (cont'd)										
METHYLENE CHLORIDE	ug/l	--	< 1.0	--	< 1.0	--	TR	--	--	16.8
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	< 0.2
O-XYLENE	ug/l	--	< 0.5	--	0.5	--	< 1.0	34.1	--	3.5
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	< 0.2
TETRACHLOROETHYLENE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
TOLUENE	ug/l	--	< 0.5	--	1.2	--	< 1.0	4.0	--	< 3
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	3.6	--	< 0.2
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	< 1.0	--	< 1.0	--	--	< 1.0	--	< 0.2
TRICHLOROETHYLENE	ug/l	--	< 1.0	--	< 1.0	--	< 2.0	< 1.0	--	< 0.2
TRICHLOROFLUOROMETHANE	ug/l	--	< 2.0	--	< 2.0	--	--	< 2.0	--	< 1
VINYL CHLORIDE	ug/l	--	< 2.0	--	< 2.0	--	--	< 2.0	--	< 0.5

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(a)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
ACID EXTRACTABLES										
2,3,4,5-TETRACHLOROPHENOL	ug/l	--	< 1.0	--	--	< 1.0	< 1.0	< 4.0	< 4.0	--
2,3,4,6-TETRACHLOROPHENOL	ug/l	--	< 4.0	--	--	< 4.0	< 4.0	< 4.0	< 4.0	--
2,3,4-TRICHLOROPHENOL	ug/l	--	< 5.0	--	--	< 5.0	< 5.0	< 3.0	< 3.0	--
2,3,5,6-TETRACHLOROPHENOL	ug/l	--	< 4.0	--	--	< 4.0	< 4.0	< 4.0	< 4.0	--
2,3,5-TRICHLOROPHENOL	ug/l	--	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--
2,4,5-TRICHLOROPHENOL	ug/l	--	< 3.0	--	--	< 3.0	< 3.0	< 3.0	< 3.0	--
2,4,6-TRICHLOROPHENOL	ug/l	< 2	< 3.0	< 4	--	< 3.0	< 3.0	< 3.0	< 3.0	--
2,4-DICHLOROPHENOL	ug/l	< 2	< 2.0	< 4	--	< 2.0	< 2.0	< 2.0	< 2.0	--
2,4-DIMETHYL PHENOL	ug/l	< 1	< 5.0	< 6	--	< 5.0	< 5.0	< 5.0	< 5.0	--
2,4-DINITROPHENOL	ug/l	< 5	< 10.0	< 6	--	< 10.0	< 10.0	< 40.0	< 69.0	--
2,6-DICHLOROPHENOL	ug/l	--	< 5.0	--	--	< 5.0	< 5.0	< 5.0	< 5.0	--
2-CHLOROPHENOL	ug/l	< 1	< 3.0	< 1	--	< 3.0	< 3.0	< 3.0	< 3.0	--
2-NITROPHENOL	ug/l	< 3	< 3.0	< 2	--	< 3.0	< 3.0	< 3.0	< 3.0	--
4,6-DINITRO-O-CRESOL	ug/l	< 3	< 5.0	< 5	--	< 5.0	< 5.0	< 12.0	< 16.0	--
4-NITROPHENOL	ug/l	< 3	< 5.0	< 5	--	< 5.0	< 5.0	< 16.0	< 5.0	--
DI-T-BUTYLMETHYLPHENOL	ug/l	--	--	ND	--	< 4.0	< 5	--	--	--
HEXADECANOIC ACID	ug/l	--	--	--	--	< 4.0	TR	--	--	--
O-CRESOL	ug/l	--	< 4.0	--	--	< 4.0	< 4.0	< 4.0	< 4.0	--
P&M-CRESOL	ug/l	--	< 83.0	--	--	< 83.0	< 83.0	< 8.0	< 8.0	--
P-CHLORO-M-CRESOL	ug/l	< 1	< 3.0	< 4	--	< 3.0	< 3.0	< 3.0	< 3.0	--
PENTACHLOROPHENOL	ug/l	< 3	< 5.0	< 3	--	< 5.0	< 5.0	< 6.0	< 5.0	--
PHENOL	ug/l	--	--	--	--	--	< 4.0	< 4.0	< 4.0	--
BASE/NEUTRAL EXTRACTABLES										
1,2,4-TRICHLOROBENZENE	ug/l	< 1	< 3.0	< 1	--	< 3.0	< 3.0	< 3.0	< 3.0	--
1,2-DICHLOROBENZENE	ug/l	< 2	< 3.0	< 1	--	< 3.0	< 3.0	< 3.0	< 3.0	--
1,2-DIPHENYLHYDRAZINE	ug/l	< 1	< 2.0	< 1	--	< 2.0	< 2.0	< 2.0	< 2.0	--
1,3-DICHLOROBENZENE	ug/l	< 2	< 4.0	< 1	--	< 4.0	< 4.0	< 4.0	< 4.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(b)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
BASE/NEUTRAL EXTRACTABLES (cont'd)										
1,4-DICHLOROBENZENE	ug/l	< 2	< 3.0	2.7	--	5.00	4.13	< 3.0	3.2	--
1-CHLORONAPHTHALENE	ug/l	--	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--
1-METHYL NAPHTHALENE	ug/l	--	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--
2,4-DINITROTOLUENE	ug/l	< 3	< 1.0	< 3	--	< 1.0	< 1.0	< 1.0	< 1.0	--
2,6-DINITROTOLUENE	ug/l	< 3	< 2.0	< 3	--	< 2.0	< 2.0	< 2.0	< 2.0	--
2-CHLORONAPHTHALENE	ug/l	< 1	< 2.0	< 1	--	< 2.0	< 2.0	< 2.0	< 2.0	--
2-METHYL NAPHTHALENE	ug/l	--	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--
3,3'-DICHLOROBENZIDINE	ug/l	< 1	< 5.0	< 2	--	< 5.0	< 5.0	< 5.0	< 5.0	--
4-BROMOPHENYL PHENYL ETHER	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
ACENAPHTHENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
ACENAPHTHYLENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
ANTHRACENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
BENZIDINE	ug/l	< 20	< 10.0	< 20	--	< 10.0	< 10.0	< 50.0	< 10.0	--
BENZO(A)ANTHRACENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
BENZO(A) PYRENE	ug/l	< 3	< 2.0	< 2	--	< 2.0	< 2.0	< 2.0	< 2.0	--
BENZO(B) FLUORANTHENE	ug/l	--	--	--	--	--	--	< 2.0	< 2.0	--
BENZO(GHI) PERYLENE	ug/l	< 5	< 2.0	< 2	--	< 2.0	< 2.0	< 2.0	< 2.0	--
BENZO(K) FLUORANTHENE	ug/l	< 2	< 2.0	< 2	--	< 2.0	< 2.0	< 2.0	< 2.0	--
BENZOTHIAZOLE	ug/l	--	--	ND	--	< 4.0	< 5	--	--	--
BIS(2-CHLOROETHOXY) METHANE	ug/l	< 1	< 2.0	< 1	--	< 2.0	< 2.0	< 2.0	< 2.0	--
BIS(2-CHLOROETHYL) ETHER	ug/l	< 1	< 4.0	< 1	--	< 4.0	< 4.0	< 2.0	< 2.0	--
BIS(2-CHLOROISOPROPYL) ETHER	ug/l	< 1	--	< 1	--	--	--	< 2.0	< 2.0	--
BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	1.8	3.78	1.9	--	6.05	14.4	3.78 U	7.5 U	--
BUTYL BENZYL PHTHALATE	ug/l	1.2	< 1.0	< 4	--	< 1.0	< 1.0	< 1.0	TR	--
CAMPHENE	ug/l	--	< 10.0	--	--	TR	< 10.0	< 2.0	< 10.0	--
CHRYSENE	ug/l	< 2	< 1.0	--	--	< 1.0	< 1.0	< 1.0	< 1.0	--
DI-N-BUTYL PHTHALATE	ug/l	100	< 2.0	5	--	TR	TR	< 2.0	2.2 U	--
DI-N-OCTYL PHTHALATE	ug/l	< 1	< 5.0	< 1	--	TR	< 5.0	< 5.0	< 5.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(c)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
BASE/NEUTRAL EXTRACTABLES (cont'd)										
DIBENZO(A,H)ANTHRACENE	ug/l	< 5	< 2.0	< 4	--	< 2.0	< 2.0	< 2.0	< 2.0	--
DIETHYL PHTHALATE	ug/l	< 1	< 1.0	< 1	--	TR	< 1.0	< 1.0	TR	--
DIMETHYL PHTHALATE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
DIPHENYL ETHER	ug/l	--	< 2.0	--	--	ND	< 2.0	< 2.0	TR	--
DIPHENYLAMINE	ug/l	--	ND	--	--	ND	ND	ND	ND	--
FLUORANTHENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
FLUORENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
HEXACHLOROBENZENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
HEXACHLOROBUTADIENE	ug/l	< 3	< 6.0	< 2	--	< 6.0	< 6.0	< 6.0	< 6.0	--
HEXACHLOROCYCLOPENTADIENE	ug/l	< 5	< 4.0	< 5	--	< 4.0	< 4.0	< 4.0	< 4.0	--
HEXACHLOROETHANE	ug/l	< 3	< 5.0	< 2	--	< 5.0	< 5.0	< 5.0	< 5.0	--
INDENO(1,2,3-CD)PYRENE	ug/l	< 5	< 2.0	< 4	--	< 2.0	< 2.0	< 2.0	< 2.0	--
INDOLE	ug/l	--	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--
ISOPHORONE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
N-NITROSODIPHENYLAMINE	ug/l	< 1	< 2.0	< 2	--	TR	< 2.0	< 2.0	TR	--
NAPHTHALENE	ug/l	< 1	< 2.0	< 1	--	< 2.0	< 2.0	< 2.0	< 2.0	--
NITROBENZENE	ug/l	< 1	< 2.0	< 1	--	< 2.0	< 2.0	< 2.0	< 2.0	--
P-CHLOROANILINE	ug/l	--	--	ND	--	< 4.0	< 5	--	--	--
PERYLENE	ug/l	--	< 2.0	--	--	< 2.0	< 2.0	< 2.0	< 2.0	--
PHENANTHRENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
PYRENE	ug/l	< 1	< 1.0	< 1	--	< 1.0	< 1.0	< 1.0	< 1.0	--
METALS										
ALUMINUM	mg/l	< 0.5	--	0.2	--	0.14	0.16	0.30	0.46	--
ANTIMONY	mg/l	< 0.1	--	< 0.002	--	< 0.004	< 0.002	< 0.001	--	--
ARSENIC	mg/l	0.05	--	< 0.001	--	0.003	0.002	0.002	0.003	0.004
BARIUM	mg/l	0.25	--	0.3	--	0.38	0.34	0.34	0.32	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(d)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
METALS (cont'd)										
BERYLLIUM	mg/l	< 0.5	--	< 0.004	--	< 0.004	< 0.01	< 0.01	--	--
BISMUTH	mg/l	--	--	--	--	--	< 0.002	< 0.002	--	--
CADMIUM	mg/l	0.013	--	0.0005	--	0.0049	< 0.0002	0.0002	0.0008	--
CHROMIUM	mg/l	0.03	--	0.02	--	0.02	0.01	0.02	17.0	--
COBALT	mg/l	< 0.05	--	< 0.02	--	< 0.02	0.02	0.02	--	--
COPPER	mg/l	0.07	--	0.025	--	0.015	0.010	0.015	0.030	--
CYANIDE	mg/l	0.26	--	0.003	--	< 0.002	< 0.002	0.003	0.034	--
IRON	mg/l	0.65	--	2.1	--	0.22	0.72	0.20	0.24	--
LEAD	mg/l	0.08	--	0.006	--	0.07	0.002	0.005	0.006	--
MANGANESE	mg/l	0.95	--	< 0.01	--	< 0.01	0.80	0.79	--	--
MERCURY	mg/l	0.0014	--	< 0.00005	--	< 0.00005	< 0.00005	< 0.00005	< 0.00005	--
MOLYBDENUM	mg/l	< 0.5	--	< 0.01	--	< 0.01	0.06	0.10	--	--
NICKEL	mg/l	< 0.02	--	0.02	--	0.02	0.02	0.02	0.02	--
SELENIUM	mg/l	< 0.007	--	< 0.002	--	< 0.002	< 0.001	< 0.001	--	--
TIN	mg/l	--	--	0.46	--	0.48	0.46	0.42	0.50	--
TITANIUM	mg/l	< 1.0	--	< 0.05	--	< 0.05	0.23	0.38	--	--
TOTAL PHOSPHORUS	mg/l	0.13	--	< 0.002	--	0.08	0.019	0.007	0.14	--
VANADIUM	mg/l	< 1.0	--	< 0.02	--	< 0.02	0.02	0.02	--	--
ZINC	mg/l	0.07	--	0.06	--	0.04	0.04	0.04	0.05	--
BIOLOGICAL TESTING										
FAECAL COLIFORM	/100ml	--	--	24	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	< 1	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	100	--	--	--	--	--	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	--	--	--	--	--	1300	1250	1290	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(e)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
GENERAL CHEMISTRY (cont'd)										
AMMONIA NITROGEN	mg/l	--	--	75.1	--	93.3	50.6	63.5	72.2	--
BOD	mg/l	11.0	--	6.68	--	< 5.0	12.0	< 5.0	< 5.0	--
CHLORIDE	mg/l	--	--	583	--	740	--	508	490	--
CONDUCTIVITY	umhos/cm	--	--	--	--	--	--	--	3500	--
FLUORIDE	mg/l	0.29	--	2.5	--	2.3	0.36	0.42	0.32	0.28
KJELDAHL NITROGEN	mg/l	--	--	--	--	--	88.5	70.4	103	--
PH		7.20	--	--	--	7.50	7.03	7.34	7.20	--
PHENOLS	ug/l	< 1	< 4.0	< 1	--	< 4	4	4.0	4	--
SULFATE	mg/l	190	--	244	--	332	--	142	324	--
SULFIDE	mg/l	< 0.5	--	--	--	< 0.1	--	< 0.1	< 0.1	--
TOTAL SUSPENDED SOLIDS	mg/l	45.8	--	--	--	25.0	--	4.2	30.1	--
PESTICIDES AND PCB's										
2,4-DDD	ug/l	< 0.005	--	--	--	--	--	--	--	--
2,4-DDT	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
4,4-DDD	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
4,4-DDE	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
4,4-DDT	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
ALDRIN	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
ALPHA-BHC	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
ALPHA-CHLORDANE	ug/l	--	--	--	--	--	--	< 0.020	< 0.010	--
ALPHA-ENDOSULFAN	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
AROCHLOR-1242	ug/l	< 0.05	--	< 0.05	--	--	--	--	--	--
AROCHLOR-1254	ug/l	< 0.05	--	< 0.05	--	--	--	--	--	--
AROCHLOR-1260	ug/l	< 0.05	--	< 0.05	--	--	--	--	--	--
BETA-BHC	ug/l	< 0.05	--	< 0.05	--	--	< 0.020	< 0.020	< 0.010	--
BETA-ENDOSULFAN	ug/l	< 0.05	--	< 0.05	--	--	< 0.020	< 0.020	< 0.010	--
CIS-CHLORDANE	ug/l	< 0.005	--	< 0.005	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(f)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
PESTICIDES AND PCB's (cont'd)										
DELTA-BHC	ug/l	--	--	--	--	--	< 0.020	< 0.020	--	--
DIELDRIN	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
ENDOSULFAN SULFATE	ug/l	< 0.05	--	< 0.05	--	--	< 0.020	< 0.020	< 0.010	--
ENDRIN	ug/l	< 0.05	--	< 0.05	--	--	< 0.020	< 0.020	< 0.010	--
ENDRIN ALDEHYDE	ug/l	--	--	--	--	--	< 0.020	--	--	--
GAMMA-BHC	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	--	< 0.020	< 0.010	--
HEPTACHLOR	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
HEPTACHLOR EPOXIDE	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	< 0.010	--
HEXACHLOROBENZENE	ug/l	< 0.005	--	< 0.005	--	--	< 0.020	< 0.020	--	--
METHOXYCHLOR	ug/l	< 0.05	--	< 0.05	--	--	< 0.020	< 0.020	< 0.010	--
MIREX	ug/l	< 0.05	--	< 0.05	--	--	< 0.020	< 0.050	< 0.010	--
OXYCHLORDANE	ug/l	--	--	--	--	--	< 0.020	< 0.020	< 0.010	--
TOTAL PCB	ug/l	--	--	--	--	--	< 0.5	< 0.500	< 0.500	--
TOXAPHENE	ug/l	< 0.5	--	--	--	--	--	--	--	--
TRANS-CHLORDANE	ug/l	< 0.005	--	< 0.005	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 0.2	--	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	ug/l	< 2	--	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	--
1,1,2-TRICHLOROETHANE	ug/l	< 0.5	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
1,1-DICHLOROETHANE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
1,1-DICHLOROETHYLENE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	< 2	--
1,2-DICHLOROBENZENE	ug/l	< 0.3	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
1,2-DICHLOROETHANE	ug/l	< 0.2	--	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	--
1,2-DICHLOROPROPANE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
1,2-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	< 5	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(g)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
VOLATILE ORGANIC COMPOUNDS (cont'd)										
1,3-DICHLOROBENZENE	ug/l	2.9	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
1,4-DICHLOROBENZENE	ug/l	< 0.3	--	5.2	6.2	2.02	2.88	2.07	6.83	--
2-CHLOROETHYLVINYLETHER	ug/l	< 10	--	< 10	< 10	--	--	--	< 50	--
A-METHYLSTYRENE	ug/l	--	--	< 1	< 1	--	--	--	--	--
ACROLEIN	ug/l	--	--	< 15	--	--	--	--	--	--
ACRONITRILE	ug/l	--	--	< 10	--	--	--	--	--	--
BENZENE	ug/l	< 2	--	< 1	< 1	< 0.5	< 0.5	0.5 U	3.95 U	--
BIS(CHLOROMETHYL)ETHER	ug/l	--	--	--	--	--	--	--	< 500	--
BROMOFORM	ug/l	< 2	--	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	--
BROMOMETHANE	ug/l	< 0.2	--	< 16	< 16	< 2.0	< 2.0	< 2.0	< 2.0	--
CARBON TETRACHLORIDE	ug/l	< 1	--	< 2	< 2	< 1.0	< 1.0	< 1.0	< 1.0	--
CHLOROBENZENE	ug/l	7.6	--	13	18	< 0.5	< 0.5	3.45	38.44	--
CHLOROETHANE	ug/l	< 0.2	--	< 10	< 10	< 2.0	< 2.0	< 2.0	< 2.0	--
CHLOROFORM	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	1.0 U	< 1.0	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	< 1.0	< 1.0	< 1.0	< 1.0	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 0.5	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
DIBROMOCHLOROMETHANE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	1.0 U	1.0 U	--
DICHLOROBROMOMETHANE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	< 5	--	< 2.0	< 2.0	< 2.0	< 2.0	--
ETHYLBENZENE	ug/l	< 0.2	--	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--
M&P-XYLENE	ug/l	< 0.3	--	< 2	< 2	< 0.5	< 0.5	< 0.5	TR	--
MESITYLENE	ug/l	< 0.2	--	< 1	< 1	--	--	--	--	--
METHYL CHLORIDE	ug/l	< 0.2	--	< 50	< 50	< 2.0	< 2.0	< 2.0	< 2.0	--
METHYLENE CHLORIDE	ug/l	25.3	--	< 10	13	< 1.0	< 1.0	1.0 U	1.0 U	--
METHYLSTYRENE ISOMERS	ug/l	< 0.2	--	< 1	< 1	--	--	--	--	--
O-XYLENE	ug/l	< 0.2	--	< 1	< 1	< 0.5	< 0.5	< 0.5	< 0.5	--
OTHER AROMATIC COMPOUNDS	ug/l	< 0.2	--	< 1	< 1	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	1.1	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
TOLUENE	ug/l	< 3	--	< 2	< 2	< 0.5	< 0.5	0.5 U	TR	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 3(h)

COMPOUND (by Class)	Units	MH13 Nov.'87	Jan.'88	May.'88	May.'88 (Dupl)	Aug.'88	Nov.'88	Jan.'89	May.'89	May.'89 (L.Dup)
VOLATILE ORGANIC COMPOUNDS (cont'd)										
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	< 1.0	--	< 1.0	< 1.0	< 1.0	< 1.0	--
TRICHLOROETHYLENE	ug/l	< 0.2	--	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.0	--
TRICHLOROFLUOROMETHANE	ug/l	< 0.5	--	< 2	< 2	< 2.0	< 2.0	< 2.0	< 2.0	--
VINYL CHLORIDE	ug/l	< 0.5	--	< 12	< 12	< 2.0	< 2.0	< 2.0	< 2.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(a)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
ACID EXTRACTABLES										
2,3,4,5-TETRACHLOROPHENOL	ug/l	--	--	< 0.039	--	--	--	--	--	--
2,3,4,6-TETRACHLOROPHENOL	ug/l	--	--	< 0.154	--	--	--	--	--	--
2,3,4-TRICHLOROPHENOL	ug/l	--	--	< 0.053	--	--	--	--	--	--
2,3,5,6-TETRACHLOROPHENOL	ug/l	--	--	< 0.423	--	--	--	--	--	--
2,3,5-TRICHLOROPHENOL	ug/l	--	--	< 0.074	--	--	--	--	--	--
2,4,5-TRICHLOROPHENOL	ug/l	--	--	< 0.117	--	--	--	--	--	--
2,4,6-TRICHLOROPHENOL	ug/l	< 3.0	--	< 0.11	--	--	--	--	--	--
2,4-DICHLOROPHENOL	ug/l	< 2.0	--	< 1.07	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	ug/l	< 5.0	--	< 1.07	--	--	--	--	--	--
2,4-DINITROPHENOL	ug/l	< 38.0	--	< 35	--	--	--	--	--	--
2,6-DICHLOROPHENOL	ug/l	--	--	< 1.94	--	--	--	--	--	--
2-CHLOROPHENOL	ug/l	< 3.0	--	< 0.432	--	--	--	--	--	--
2-NITROPHENOL	ug/l	< 3.0	--	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	< 10.0	--	< 6.2	--	--	--	--	--	--
4-NITROPHENOL	ug/l	< 22.0	--	< 0.375	--	--	--	--	--	--
M-CRESOL	ug/l	--	--	< 0.433	--	--	--	--	--	--
N-CRESOL	ug/l	--	--	--	--	--	0.4 J	--	--	--
O-CRESOL	ug/l	--	--	< 0.565	--	--	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	< 3.0	--	< 0.096	--	--	--	--	--	--
P-CRESOL	ug/l	--	--	< 0.449	--	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	< 5.0	--	< 0.185	--	--	--	--	--	--
PHENOL	ug/l	< 4.0	--	< 0.385	--	--	0.4 J	--	--	--
BASE/NEUTRAL EXTRACTABLES										
1,2-DIPHENYLHYDRAZINE	ug/l	< 2.0	--	--	--	--	--	--	--	--
1-CHLORONAPHTHALENE	ug/l	--	--	< 0.20	--	--	--	--	--	--
1-METHYL NAPHTHALENE	ug/l	--	--	< 0.20	--	--	--	--	--	--
2,4-DINITROTOLUENE	ug/l	< 1.0	--	< 0.61	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(b)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
BASE/NEUTRAL EXTRACTABLES (cont'd)										
2,6-DINITROTOLUENE	ug/l	< 2.0	--	< 0.49	--	--	--	--	--	--
2-CHLORONAPHTHALENE	ug/l	< 2.0	--	< 0.23	--	--	--	--	--	--
2-METHYL NAPHTHALENE	ug/l	--	--	< 0.13	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	< 1.0	--	< 0.26	--	--	--	--	--	--
4-CHLOROPHENYL ETHYL ETHER	ug/l	--	--	< 0.20	--	--	--	--	--	--
5-NITROACENAPHTHENE	ug/l	--	--	< 0.53	--	--	--	--	--	--
ACENAPHTHENE	ug/l	< 1.0	--	< 0.13	--	--	--	--	--	--
ACENAPHTHYLENE	ug/l	< 1.0	--	< 0.15	--	--	--	--	--	--
ANTHRACENE	ug/l	< 1.0	--	< 0.19	--	--	--	--	--	--
BENZO(A)ANTHRACENE	ug/l	< 1.0	--	< 0.27	--	--	--	--	--	--
BENZO(A)PYRENE	ug/l	< 2.0	--	< 0.60	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	ug/l	< 2.0	--	< 0.36	--	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	< 2.0	--	< 0.69	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	ug/l	< 2.0	--	< 0.58	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	< 2.0	--	< 0.30	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	--	--	< 0.19	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	--	< 1.12	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	4.3 U	--	0.31 U	--	--	1.9 J	--	--	TRU
BUTYL BENZYL PHTHALATE	ug/l	< 1.0	--	< 0.28	--	--	--	--	--	--
CAMPHENE	ug/l	--	--	< 0.32	--	--	--	--	--	--
CHRYSENE	ug/l	< 1.0	--	< 0.27	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	ug/l	< 2.0	--	0.82 U	--	--	0.7 J	--	--	--
DI-N-OCTYL PHTHALATE	ug/l	< 5.0	--	< 0.82	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	< 2.0	--	< 1.28	--	--	--	--	--	--
DIETHYL PHTHALATE	ug/l	< 1.0	--	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	ug/l	< 1.0	--	--	--	--	--	--	--	--
DIPHENYL ETHER	ug/l	--	--	< 2.0	--	--	--	--	--	--
DIPHENYLAMINE	ug/l	--	--	< 0.10	--	--	0.7 J	--	--	--
FLUORANTHENE	ug/l	< 1.0	--	< 0.13	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(c)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
BASE/NEUTRAL EXTRACTABLES (cont'd)										
FLUORENE	ug/l	< 1.0	--	< 0.13	--	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	< 4.0	--	--	--	--	--	--	--	--
HEXACHLOROETHANE	ug/l	< 5.0	--	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	--	--	< 1.14	--	--	--	--	--	--
INDOLE	ug/l	--	--	< 0.44	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	< 1.0	--	< 0.27	--	--	--	--	--	--
NAPHTHALENE	ug/l	< 2.0	--	< 0.17	--	--	--	--	--	--
NITROBENZENE	ug/l	< 2.0	--	--	--	--	--	--	--	--
PERYLENE	ug/l	--	--	< 0.60	--	--	--	--	--	--
PHENANTHRENE	ug/l	< 1.0	--	< 0.20	--	--	--	--	--	--
PYRENE	ug/l	< 1.0	--	< 0.26	--	--	--	--	--	--
METALS										
ALUMINUM	mg/l	0.26	--	0.34	--	0.24	--	--	--	--
ARSENIC	mg/l	< 0.001	< 0.002	0.002	0.002	3	--	--	--	0.003
BARIUM	mg/l	0.29	--	0.32	--	0.25	--	--	--	0.404
BISMUTH	mg/l	--	--	--	--	--	--	--	--	< 0.04
CADMIUM	mg/l	0.0006	0.0008	0.0008	0.0008	0.010	--	--	--	< 0.003
CHROMIUM	mg/l	< 0.01	--	0.006	--	0.008	--	--	--	< 0.005
COBALT	mg/l	--	--	--	--	--	--	--	--	< 0.005
COPPER	mg/l	0.020 U	--	0.040	--	< 0.003	--	--	--	0.056
CYANIDE	mg/l	< 0.002	--	--	--	--	--	--	--	--
CYANIDE FREE	mg/l	--	--	< 0.005	--	--	--	--	--	--
CYANIDE, TOTAL	mg/l	--	--	< 0.002	--	--	--	--	--	--
IRON	mg/l	0.44	--	1.76	--	0.30	--	--	--	0.162
LEAD	mg/l	0.008	--	0.006	0.006	0.10	--	--	--	0.033
MERCURY	mg/l	0.0001	--	< 0.00005	--	0.10 R	--	--	--	< 0.001

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(d)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
METALS (cont'd)										
MOLYBDENUM	mg/l	--	--	--	--	--	--	--	--	< 0.006
NICKEL	mg/l	0.02	--	0.04	--	0.026	--	--	--	0.020
SELENIUM	mg/l	--	--	--	--	--	--	--	--	< 0.002
TIN	mg/l	0.30	--	0.20	--	0.20	--	--	--	--
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	0.163	--	0.033
VANADIUM	mg/l	--	--	--	--	0.02	--	--	--	--
ZINC	mg/l	0.03	--	0.09	--	0.016	--	--	--	0.083
GENERAL CHEMISTRY										
ALKALINITY	mg/l	312	--	1181	--	1078	1173	1548	--	272
AMMONIA NITROGEN	mg/l	105	--	28.7	--	13.6	29.1	105	--	90.5
BOD	mg/l	--	--	--	--	--	--	< 5	--	58
CHLORIDE	mg/l	670	--	400	--	357	420	605	--	625
COD	mg/l	--	--	--	--	--	--	201	--	150
CONDUCTIVITY	umhos/cm	3460	--	2530	--	2550	2590	2980	--	--
FLUORIDE	mg/l	0.28	--	--	--	0.3	--	0.3	--	0.2
HARDNESS	mg/l	--	--	--	--	--	--	1185	--	1150
KJELDAHL NITROGEN	mg/l	111	--	56.3	--	54.3	43.7	138	--	120
PH		7.11	--	7.14	--	7.25	6.75	7.07	--	--
PHENOLS	ug/l	5	--	8	--	7	6	7	--	7
SULFATE	mg/l	284	--	190	--	260	--	390 J	--	1192
SULFIDE	mg/l	< 0.1	--	--	--	< 0.1	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	16	--	46	--	38
PESTICIDES AND PCB's										
2,4-DDT	ug/l	< 0.020	--	--	--	--	--	--	--	--
4,4-DDD	ug/l	< 0.020	--	0.021	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(e)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
PESTICIDES AND PCB's (cont'd)										
4,4-DDE	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
4,4-DDT	ug/l	< 0.020	--	--	--	--	--	--	--	--
ALDRIN	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
ALPHA-BHC	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
ALPHA-CHLORDANE	ug/l	< 0.020	--	0.0019	--	--	--	--	--	--
ALPHA-ENDOSULFAN	ug/l	< 0.020	--	--	--	--	--	--	--	--
BETA-BHC	ug/l	< 0.020	--	0.0012 U	--	--	8.3 J	--	--	--
BETA-ENDOSULFAN	ug/l	< 0.020	--	--	--	--	--	--	--	--
DDT'S	ug/l	--	--	< 0.005	--	--	--	--	--	--
DIELDRIN	ug/l	< 0.020	--	0.003	--	--	--	--	--	--
ENDOSULFAN I	ug/l	--	--	0.0032	--	--	--	--	--	--
ENDOSULFAN II	ug/l	--	--	< 0.004	--	--	--	--	--	--
ENDOSULFAN SULFATE	ug/l	< 0.020	--	0.011	--	--	--	--	--	--
ENDRIN	ug/l	< 0.020	--	< 0.004	--	--	--	--	--	--
GAMMA-BHC	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
GAMMA-CHLORDANE	ug/l	< 0.020	--	< 0.001	--	--	10.8 J	--	--	--
HEPTACHLOR	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	ug/l	< 0.020	--	< 0.001	--	--	--	--	--	--
METHOXYCHLOR	ug/l	< 0.020	--	< 0.005	--	--	--	--	--	--
MIREX	ug/l	< 0.020	--	< 0.005	--	--	--	--	--	--
OXYCHLORDANE	ug/l	< 0.020	--	< 0.002	--	--	--	--	--	--
TOTAL PCB	ug/l	< 0.250	--	< 0.02	--	--	99 UJ	--	--	--
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	--	< 0.50	--	--	--	< 1	< 1	< 1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	< 1.0	--	< 0.33	--	--	--	< 2	< 2	< 2.0
1,1,2-TRICHLOROETHANE	ug/l	< 1.0	--	< 0.21	--	--	--	< 2	< 2	< 2.0
1,1-DICHLOROETHANE	ug/l	< 1.0	--	< 0.20	--	--	--	< 1	< 1	< 1.0

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(f)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)										
1,1-DICHLOROETHYLENE	ug/l	< 1.0	--	< 0.32	--	--	--	< 1	< 1	< 1.0
1,2,4-TRICHLOROBENZENE	ug/l	--	--	< 0.50	--	--	--	--	--	--
1,2,4-TRIMETHYLBENZENE	ug/l	1.53	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	< 1.0	--	< 0.24	--	--	--	< 1	< 1	< 1.0
1,2-DICHLOROETHANE	ug/l	< 1.0	--	< 0.82	--	--	--	< 1	< 1	< 1.0
1,2-DICHLOROPROPANE	ug/l	< 1.0	--	< 0.20	--	--	--	< 1	< 1	< 1.0
1,3-DICHLOROBENZENE	ug/l	3.11	--	< 0.23	--	--	--	< 1	< 1	< 1.0
1,4-DICHLOROBENZENE	ug/l	< 1.0	--	< 0.22	--	--	4.5 J	3.0	2.5	2.5
2-CHLOROETHYLVINYLETHER	ug/l	< 15.0	--	0.51	--	--	--	< 10	< 10	< 10
ACROLEIN	ug/l	< 15.0	--	--	--	--	--	--	--	--
ACRYLONITRILE	ug/l	< 15.0	--	--	--	--	--	--	--	--
BENZENE	ug/l	1.46 U	--	0.19 U	--	--	--	< 0.5	< 0.5	TR
BIS(CHLOROMETHYL)ETHER	ug/l	< 180.0	--	--	--	--	--	--	--	--
BROMOFORM	ug/l	< 1.0	--	0.22 U	--	--	--	< 2	< 2	< 2.0
BROMOMETHANE	ug/l	< 2.0	--	0.83 U	--	--	--	< 2	< 2	< 2.0
CARBON TETRACHLORIDE	ug/l	< 1.0	--	< 0.93	--	--	--	< 1	< 1	< 1.0
CHLOROBENZENE	ug/l	17.41	--	< 0.27	--	--	17 J	< 0.5	< 0.5	< 0.5
CHLOROETHANE	ug/l	< 2.0	--	4.7	--	--	--	< 2	< 2	< 2.0
CHLOROFORM	ug/l	< 1.0	--	< 0.51 UJ	--	--	--	< 1	< 1	< 1.0
CIS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	--	--	--	--	--	< 1	< 1	< 1.0
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	--	< 0.27	--	--	--	< 1	< 1	< 1.0
DIBROMOCHLOROMETHANE	ug/l	< 1.0	--	< 0.24	--	--	--	< 1	< 1	< 1.0
DICHLOROBROMOMETHANE	ug/l	< 1.0	--	< 0.50	--	--	--	< 2	< 2	< 2.0
DICHLORODIFLUOROMETHANE	ug/l	< 2.0	--	< 0.50	--	--	--	--	--	--
ETHYLBENZENE	ug/l	< 0.5	--	< 0.24	--	--	--	< 0.5	< 0.5	< 0.5
M&P-XYLENE	ug/l	TR	--	< 0.21	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	< 2.0	--	< 0.65 UJ	--	--	--	< 2	< 2	< 2.0
METHYLENE CHLORIDE	ug/l	TR	--	< 0.92 UJ	--	--	193 UJ	195	194	10.0 U
O-XYLENE	ug/l	TR	--	0.19 U	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 4(g)

COMPOUND (by Class)	Units	MH13 Jul.'89	Jul.'89 (L.Dup)	Nov.'89	Nov.'89 (L.Dup)	Jan.'90	Apr.'90	Aug.'90	Aug.'90 (Dupl)	Sep.'90
VOLATILE ORGANIC COMPOUNDS (cont'd)										
TETRACHLOROETHYLENE	ug/l	< 1.0	--	< 0.21	--	--	--	< 1	< 1	< 1.0
TOLUENE	ug/l	TR	--	< 0.24	--	--	--	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	--	0.20	--	--	--	< 1	< 1	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	--	--	--	--	--	< 1	< 1	< 1.0
TRICHLOROETHYLENE	ug/l	< 1.0	--	< 0.92	--	--	--	< 1	< 1	< 1.0
TRICHLOROFLUOROMETHANE	ug/l	< 2.0	--	< 0.26	--	--	--	< 2	< 2	< 2.0
VINYL CHLORIDE	ug/l	< 2.0	--	< 0.74	--	--	--	< 2	< 2	< 2.0

000847

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 5(a)

COMPOUND (by Class)	Units	MH13 Apr.'91	MH15 Oct.'91	Apr.'92	Oct.'92	Jan.'93	Mar.'93	Apr.'93	Oct.'93	Apr.'94
BASE/NEUTRAL EXTRACTABLES										
BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	4.7	< 2	< 0.5	< 0.5	--	< 1.0 U	TRU	0.002	< 2.0
METALS										
ALUMINUM	mg/l	--	0.068 U	0.083	0.187 U	--	--	0.034	0.323 U	0.180 U
ANTIMONY	mg/l	--	--	--	--	< 0.002	--	< 0.05	< 0.002	< 0.002
ARSENIC	mg/l	0.003	< 0.002	0.004	0.004	--	--	< 0.06	< 0.01	< 0.002
BARIUM	mg/l	0.332	0.309	0.230	0.406	--	--	0.260	0.389	0.337
BERYLLIUM	mg/l	--	< 0.003	< 0.003	< 0.003	--	--	< 0.003	--	--
BISMUTH	mg/l	< 0.04	< 0.04	< 0.04	< 0.04	--	--	< 0.04	< 0.04	< 0.04
BORON	mg/l	--	--	--	--	--	--	1.26	--	--
CADMIUM	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	--	--	< 0.003	0.004	< 0.0002
CALCIUM	mg/l	--	194	181	217	--	--	180	--	--
CHROMIUM	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	--	--	< 0.005	< 0.005	0.006
COBALT	mg/l	< 0.005	0.005	< 0.005	0.005	--	--	< 0.005	0.005	< 0.005
COPPER	mg/l	--	0.159	0.053	0.149	--	--	0.186	18.9	1.52
CYANIDE, TOTAL	mg/l	--	--	--	< 0.005	--	--	< 0.005	< 0.005	< 0.005
IRON	mg/l	--	0.096 U	4.44	10.4	--	--	4.13	16.6	17.6
LEAD	mg/l	0.036	0.031	0.037 U	0.062 U	--	--	0.021	0.096	0.022 U
LITHIUM	mg/l	--	--	--	--	--	--	< 0.2	--	--
MAGNESIUM	mg/l	--	170	107	152	--	--	111	--	--
MANGANESE	mg/l	--	0.654	0.514	0.921	--	--	0.528	0.888	0.521
MERCURY	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	--	--	< 0.001	< 0.001	< 0.0002
MOLYBDENUM	mg/l	< 0.006	< 0.006	< 0.006	< 0.006	--	--	< 0.006	< 0.006	< 0.006
NICKEL	mg/l	< 0.01	< 0.01	< 0.01	0.011	--	--	0.011	0.020	0.042 U
PHOSPHORUS	mg/l	--	--	--	--	--	--	< 0.4	--	--
POTASSIUM	mg/l	--	137	62.6	113	--	--	70.9	--	--
SELENIUM	mg/l	0.006	0.004 U<	0.002	< 0.002	--	--	< 0.05	< 0.01	0.004
SILICON	mg/l	--	--	--	--	--	--	7.58	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 5(b)

COMPOUND (by Class)	Units	MH13 Apr.'91	MH15 Oct.'91	Apr.'92	Oct.'92	Jan.'93	Mar.'93	Apr.'93	Oct.'93	Apr.'94
METALS (cont'd)										
SILVER	mg/l	--	< 0.01	< 0.01	< 0.01	--	--	< 0.01	< 0.007	< 0.0001
SODIUM	mg/l	--	371	148	264	--	--	152	--	--
STRONTIUM	mg/l	--	5.86	3.86	7.22	--	--	3.81	--	--
SULFUR	mg/l	--	--	--	--	--	--	44.5	--	--
THALLIUM	mg/l	--	--	--	--	--	--	< 0.06	--	--
TIN	mg/l	--	--	--	--	< 0.018	--	< 0.018	< 0.018	< 0.018
TITANIUM	mg/l	--	< 0.003	< 0.003	< 0.003	--	--	< 0.003	0.005	< 0.003
TOTAL PHOSPHORUS	mg/l	0.162	< 0.4	0.067	0.075	--	--	0.09	0.167	0.14
TUNGSTEN	mg/l	--	< 0.02	< 0.02	< 0.02	--	--	< 0.02	--	--
VANADIUM	mg/l	--	0.004	0.006	0.007	--	--	0.005	0.006 U	0.009
ZINC	mg/l	0.159	0.027 U	0.025	0.035	--	--	0.056	0.902	0.111 U
GENERAL CHEMISTRY										
ALKALINITY	mg/l	1015	1317	900	1141	--	--	1104	1254	1061
AMMONIA NITROGEN	mg/l	59.0	0.19	17.7	80.8	--	--	38.0	86.5	29.2
BOD	mg/l	< 2	21	5	14	--	--	16	10	34
CHLORIDE	mg/l	482	693	251	474	--	--	335	574	346
COD	mg/l	96	147	187	248	--	--	162	170	125
CONDUCTIVITY	umhos/cm	2110	--	2845	2600	--	--	1400	3600	2800
FLUORIDE	mg/l	< 0.10	< 0.10	0.65	< 0.10	--	--	< 0.10	< 0.10	< 0.10
HARDNESS	mg/l	928	1103	1076	1186	--	--	980	1200	1040
KJELDAHL NITROGEN	mg/l	67.8	88.4	27.6	151	--	--	40.0	90.9	36.3
PH		6.5	--	7.20	7.18	--	--	6.96	7.3	7.7
PHENOLS	ug/l	6	6	2	6.0	--	--	3.7	6.6	< 1
SULFATE	mg/l	180	201	171	202	--	--	140	174	153
TOTAL SUSPENDED SOLIDS	mg/l	15	10	20	57	--	--	76	41	352

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 5(c)

COMPOUND (by Class)	Units	MH13 Apr.'91	MH15 Oct.'91	Apr.'92	Oct.'92	Jan.'93	Mar.'93	Apr.'93	Oct.'93	Apr.'94
PESTICIDES AND PCB's										
2,4,5-TP (SILVEX)	ug/l	--	--	--	< 0.05	--	--	--	< 0.5	--
2,4-D	ug/l	--	--	--	< 0.2	--	--	--	< 2	--
2,4-DDT	ug/l	--	--	--	--	--	--	--	< 0.2	--
4,4-DDD	ug/l	--	--	--	--	--	--	< 0.020	--	--
4,4-DDE	ug/l	--	--	--	--	--	--	< 0.020	--	--
4,4-DDT	ug/l	--	--	--	--	--	--	< 0.020	< 0.2	< 0.003
ALDRIN	ug/l	--	--	--	< 0.02	--	--	< 0.020	< 0.2	< 0.003 UJ
ALPHA-BHC	ug/l	--	--	--	--	--	--	< 0.020	--	--
ALPHA-CHLORDANE	ug/l	--	--	--	--	--	--	< 0.020	< 0.2	< 0.003
ALPHA-ENDOSULFAN	ug/l	--	--	--	--	--	--	< 0.020	--	--
BETA-BHC	ug/l	--	--	--	--	--	--	< 0.020	--	--
BETA-ENDOSULFAN	ug/l	--	--	--	--	--	--	< 0.020	--	--
CARBARYL	ug/l	--	--	--	< 16	--	--	--	< 16	13
CHLORDANE	ug/l	--	--	--	< 0.02	--	--	--	--	--
DDT'S	ug/l	--	--	--	< 0.02	--	--	--	--	--
DELTA-BHC	ug/l	--	--	--	--	--	--	< 0.020	--	--
DIAZINON	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	< 0.5
DIELDRIN	ug/l	--	--	--	< 0.02	--	--	< 0.020	< 0.2	< 0.003
ENDOSULFAN SULFATE	ug/l	--	--	--	--	--	--	< 0.020	--	--
ENDRIN	ug/l	--	--	--	< 0.02	--	--	< 0.020	< 0.2	0.005
ENDRIN ALDEHYDE	ug/l	--	--	--	--	--	--	< 0.020	--	--
GAMMA-BHC	ug/l	--	--	--	< 0.02	--	--	< 0.020	--	< 0.003
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	--	< 0.020	< 0.2	< 0.003
HEPTACHLOR	ug/l	--	--	--	< 0.02	--	--	< 0.020	< 0.2	< 0.003
HEPTACHLOR EPOXIDE	ug/l	--	--	--	< 0.02	--	--	< 0.020	< 0.2	< 0.003
LINDANE	ug/l	--	--	--	--	--	--	--	< 0.2	--
METHOXYCHLOR	ug/l	--	--	--	< 0.05	--	--	--	< 0.5	< 0.0125
METHYL PARATHION	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	< 0.5
PARATHION	ug/l	--	--	--	< 0.5	--	--	--	< 0.5	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 5(d)

COMPOUND (by Class)	Units	MH13 Apr.'91	MH15 Oct.'91	Apr.'92	Oct.'92	Jan.'93	Mar.'93	Apr.'93	Oct.'93	Apr.'94
PESTICIDES AND PCB's (cont'd)										
TOTAL PCB	ug/l	--	--	--	< 0.5	--	--	< 0.500	< 5	< 0.5
TOXAPHENE	ug/l	--	--	--	< 1	--	--	< 0.500	< 10	< 1.0
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
1,1-DICHLOROETHANE	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
1,2-DICHLOROBENZENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
1,2-DICHLOROETHANE	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPANE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
1,3-DICHLOROBENZENE	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0
1,4-DICHLOROBENZENE	ug/l	3.4	< 1.0	3.7	4.1	--	--	< 1.0	3.5	3.6
2-CHLOROETHYLVINYLETHER	ug/l	--	< 10	--	--	--	--	< 10	--	--
BENZENE	ug/l	< 0.5	< 0.5	< 0.5	1.5	--	--	1.4	0.9	< 0.5
BROMOFORM	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BROMOMETHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
CARBON TETRACHLORIDE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
CHLOROBENZENE	ug/l	3.8	< 0.5	7.1	27	--	--	23	12	22
CHLOROETHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
CHLOROFORM	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
DIBROMOCHLOROMETHANE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
DICHLOROBROMOMETHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
ETHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	< 0.5
ETHYLBENZENE	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	--	--	< 0.5	< 0.5	< 0.5
M&P-XYLENE	ug/l	< 0.5	--	< 0.5	< 0.5	--	--	< 0.5	< 0.5	< 0.5

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 5(e)

COMPOUND (by Class)	Units	MH13 Apr.'91	MH15 Oct.'91	Apr.'92	Oct.'92	Jan.'93	Mar.'93	Apr.'93	Oct.'93	Apr.'94
VOLATILE ORGANIC COMPOUNDS (cont'd)										
METHYL CHLORIDE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
METHYLENE CHLORIDE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
O-XYLENE	ug/l	< 0.5	--	< 0.5	< 0.5	--	--	< 0.5	< 0.5	< 0.5
TETRACHLOROETHYLENE	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0
TOLUENE	ug/l	< 0.5	< 0.5	< 0.5	< 0.5	--	--	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
TRICHLOROETHYLENE	ug/l	< 1.0	< 1.0	< 1.0	< 1.0	--	--	< 1.0	< 1.0	< 1.0
TRICHLOROFLUOROMETHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
VINYL CHLORIDE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 6(a)

COMPOUND (by Class)	Units	MHFB Apr.'94
BASE/NEUTRAL EXTRACTABLES		
BIS(2-ETHYLHEXYL) PHTHALATE	ug/l	< 2.0
CARBARYL	ug/l	< 5
DIAZINON	ug/l	< .5
ETHYL PARATHION	ug/l	< .5
METHYL PARATHION	ug/l	< .5
METALS		
ALUMINUM	mg/l	0.058
ANTIMONY	mg/l	< 0.002
ARSENIC	mg/l	< 0.002
BARIUM	mg/l	< 0.003
BISMUTH	mg/l	< 0.04
CADMIUM	mg/l	< 0.0002
CHROMIUM	mg/l	< 0.005
COBALT	mg/l	< 0.005
COPPER	mg/l	0.020 U
CYANIDE, TOTAL	mg/l	< 0.005
IRON	mg/l	0.032 U
LEAD	mg/l	0.009
MANGANESE	mg/l	< 0.001
MERCURY	mg/l	< 0.0002
MOLYBDENUM	mg/l	< 0.006
NICKEL	mg/l	0.065
SELENIUM	mg/l	< 0.002
SILVER	mg/l	< 0.0001
TIN	mg/l	0.052 U
TITANIUM	mg/l	< 0.003
TOTAL PHOSPHORUS	mg/l	< 0.10

000853

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 6(b)

COMPOUND (by Class)	Units	MHFB Apr.'94
METALS (cont'd)		
VANADIUM	mg/l	< 0.003
ZINC	mg/l	0.024 U
GENERAL CHEMISTRY		
ALKALINITY	mg/l	< 1.0
AMMONIA NITROGEN	mg/l	< 0.01
BOD	mg/l	< 2
CHLORIDE	mg/l	< 0.10
COD	mg/l	< 5
FLUORIDE	mg/l	< 0.10
HARDNESS	mg/l	< 1.0
KJELDAHL NITROGEN	mg/l	< 0.10
PHENOLS	ug/l	< 1
SULFATE	mg/l	< 0.10
TOTAL SUSPENDED SOLIDS	mg/l	< 1
PESTICIDES AND PCB's		
4,4-DDT	ug/l	< 0.003
ALDRIN	ug/l	< 0.003 UJ
ALPHA-CHLORDANE	ug/l	< 0.003
DIELDRIN	ug/l	< 0.003
ENDRIN	ug/l	< 0.003
GAMMA-BHC	ug/l	< 0.003
GAMMA-CHLORDANE	ug/l	< 0.003
HEPTACHLOR	ug/l	< 0.003
HEPTACHLOR EPOXIDE	ug/l	< 0.003
METHOXYCHLOR	ug/l	< 0.0125

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Characterization

Report 6(c)

COMPOUND (by Class)	Units	MHFB Apr.'94
PESTICIDES AND PCB's (cont'd)		
TOTAL PCB	ug/l	< 0.5
TOXAPHENE	ug/l	< 1.0
VOLATILE ORGANIC COMPOUNDS		
1,1,1-TRICHLOROETHANE	ug/l	< 1
1,1-DICHLOROETHANE	ug/l	< 1
1,2-DICHLOROETHANE	ug/l	< 1
1,3-DICHLOROBENZENE	ug/l	< 1
1,4-DICHLOROBENZENE	ug/l	< 1
BENZENE	ug/l	< 0.5
CHLOROBENZENE	ug/l	< 0.5
ETHYLBENZENE	ug/l	< 0.5
M&P-XYLENE	ug/l	< 0.5
O-XYLENE	ug/l	< 0.5
TETRACHLOROETHYLENE	ug/l	< 1
TOLUENE	ug/l	< 0.5
TRICHLOROETHYLENE	ug/l	< 1

000855

LEGEND

J	- The associated value is an estimated quantity.
U	- The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	- The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.
--	- The parameter was not analyzed.
ND	- The material was analyzed, but not detected above an unstated method detection limit.
TR	- Trace level detection.
<	- Indicates result less than that shown.
>	- Indicates result greater than that shown.
R	- The data was not useable.
NS	- Insufficient sample.
(a)	- Indicates units were /50ml rather than that shown.

APPENDIX G-4

QA/QC

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 1(a)

COMPOUND (by Class)	Units	FBLK May.'87	FBLK Nov.'89	FBLK Apr.'91	FBLK1 May.'86	FBLK1 Apr.'92	FBLK1 Apr.'93	FBLK2 May.'86	FBLK2 Jul.'92	FBLK2 Apr.'94
ACID EXTRACTABLES										
2,4,6-TRICHLOROPHENOL	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
2,4-DICHLOROPHENOL	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
2,4-DIMETHYL PHENOL	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
2,4-DINITROPHENOL	ug/l	--	--	--	< 3.0	--	--	< 3.0	--	--
2-CHLOROPHENOL	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
2-NITROPHENOL	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	--
4,6-DINITRO-O-CRESOL	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	--
4-NITROPHENOL	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	--
P-CHLORO-M-CRESOL	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	--
PENTACHLOROPHENOL	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
PHENOL	ug/l	--	--	--	< 3.0	--	--	< 3.0	--	--
BASE/NEUTRAL EXTRACTABLES										
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	--
1,3-DICHLOROBENZENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
1,4-DICHLOROBENZENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
2,4-DINITROTOLUENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
2,6-DINITROTOLUENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
2-CHLORONAPHTHALENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
3,3'-DICHLOROBENZIDINE	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
9H-FLUORENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
ACENAPHTHENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
ACENAPHTHYLENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
ANTHRACENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 1(b)

COMPOUND (by Class)	Units	FBLK May.'87	FBLK Nov.'89	FBLK Apr.'91	FBLK1 May.'86	FBLK1 Apr.'92	FBLK1 Apr.'93	FBLK2 May.'86	FBLK2 Jul.'92	FBLK2 Apr.'94
BASE/NEUTRAL EXTRACTABLES (cont'd)										
BENZIDINE	ug/l	--	--	--	< 5.0	--	--	< 5.0	--	--
BENZO(A)ANTHRACENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
BENZO(A)PYRENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
BENZO(B)FLUORANTHENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
BENZO(GHI)PERYLENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
BENZO(K)FLUORANTHENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	--	--	27.6	--	--	21.1	--	--
BUTYL BENZYL PHTHALATE	ug/l	--	--	--	7.6	--	--	6.9	--	--
CHRYSENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
DI-N-BUTYL PHTHALATE	ug/l	--	--	--	< 1.0	--	--	19.2	--	--
DI-N-OCTYL PHTHALATE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
DIETHYL PHTHALATE	ug/l	--	--	--	38.1	--	--	21.0	--	--
DIMETHYL PHTHALATE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
FLUORANTHENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
HEXACHLOROBENZENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
HEXACHLOROBUTADIENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
HEXACHLOROETHANE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
ISOPHORONE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	--	--	< 3.0	--	--	< 3.0	--	--
N-NITROSODIPHENYLAMINE	ug/l	--	--	--	< 4.0	--	--	< 4.0	--	--
NAPHTHALENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
NITROBENZENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--
PHENANTHRENE	ug/l	--	--	--	< 1.0	--	--	< 1.0	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 1(c)

COMPOUND (by Class)	Units	FBLK May.'87	Nov.'89	Apr.'91	FBLK1 May.'86	Apr.'92	Apr.'93	FBLK2 May.'86	Jul.'92	Apr.'94
BASE/NEUTRAL EXTRACTABLES (cont'd)										
PYRENE	ug/l	--	--	--	< 2.0	--	--	< 2.0	--	--
BIOLOGICAL TESTING										
FAECAL COLIFORM	/100ml	--	< 2	< 2	--	< 1 (a)	< 1 (a)	--	< 1	--
FAECAL STREPTOCOCCI	/100ml	--	0	< 2	--	< 1 (a)	< 1 (a)	--	< 1	--
TOTAL COLIFORMS	/100ml	--	< 4	< 2	--	< 1 (a)	< 1 (a)	--	< 1	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	--	< 2.0	--	--	1.7	ND	--	1.7	< 1.0
AMMONIA NITROGEN	mg/l	--	< 0.03	--	--	< 0.03	< 0.03	--	< 0.03	< 0.01
CHLORIDE	mg/l	--	< 1.0 UJ	--	--	< 0.10	ND	--	< 0.10	< 0.10
CONDUCTIVITY	umhos/cm	--	--	11.24	--	62.0	24	--	34	--
KJELDAHL NITROGEN	mg/l	--	< 0.06 UJ	--	--	< 0.06	ND	--	< 0.06	< 0.10
PH		--	--	5.5	--	7.88	8.39	--	7.95	--
PHENOLS	ug/l	--	< 1	--	--	3	< 1.0	--	< 1.0	< 1
SULFATE	mg/l	--	< 1.0 UJ	--	--	< 0.10	ND	--	< 0.10	--
PESTICIDES AND PCB's										
2,4-DDT	ug/l	< 0.020	--	--	--	--	--	--	--	--
DIELDRIN	ug/l	< 0.020	--	--	--	--	--	--	--	--
GAMMA-BHC	ug/l	< 0.020	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	ug/l	< 0.020	--	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	< 0.50	--	--	--	< 1.0	--	--	< 1

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 1(d)

COMPOUND (by Class)	Units	FBLK May.'87	FBLK Nov.'89	FBLK Apr.'91	FBLK1 May.'86	FBLK1 Apr.'92	FBLK1 Apr.'93	FBLK2 May.'86	FBLK2 Jul.'92	FBLK2 Apr.'94
VOLATILE ORGANIC COMPOUNDS (cont'd)										
1,1,2,2-TETRACHLOROETHANE	ug/l	< 1.0	< 0.33	--	--	--	< 2.0	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	< 1.0	< 0.21	--	--	--	< 2.0	--	--	--
1,1-DICHLOROETHANE	ug/l	< 1.0	< 0.20	< 1.0	--	< 1.0	< 1.0	--	< 1.0	< 1
1,1-DICHLOROETHYLENE	ug/l	< 1.0	< 0.32	--	--	--	< 1.0	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	< 1.0	< 0.50	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	< 0.18	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	< 1.0	< 0.24	--	--	--	< 1.0	--	--	--
1,2-DICHLOROETHANE	ug/l	< 1.0	< 0.82	< 1.0	--	< 1.0	< 1.0	--	< 1.0	< 1
1,2-DICHLOROPROPANE	ug/l	< 1.0	< 0.20	--	--	--	< 1.0	--	--	--
1,3-DICHLOROBENZENE	ug/l	< 1.0	< 0.23	< 1.0	--	< 1.0	< 1.0	--	< 1.0	< 1
1,4-DICHLOROBENZENE	ug/l	< 1.0	< 0.22	< 1.0	--	< 1.0	< 1.0	--	< 1.0	< 1
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	< 10	--	--	--
BENZENE	ug/l	0.8	0.26	0.8	--	< 0.5	< 0.5	--	< 0.5	< 0.5
BROMOFORM	ug/l	1.3	< 0.49	--	--	--	< 2.0	--	--	--
BROMOMETHANE	ug/l	< 2.0	< 0.83	--	--	--	< 2.0	--	--	--
CARBON TETRACHLORIDE	ug/l	< 1.0	< 0.93	--	--	--	< 1.0	--	--	--
CHLOROBENZENE	ug/l	< 0.5	< 0.27	< 0.5	--	< 0.5	< 0.5	--	< 0.5	< 0.5
CHLOROETHANE	ug/l	< 2.0	< 0.50	--	--	--	< 2.0	--	--	--
CHLOROFORM	ug/l	2.0	0.43	--	--	--	< 1.0	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	< 0.27	--	--	--	< 1.0	--	--	--
DIBROMOCHLOROMETHANE	ug/l	< 1.0	< 0.24	--	--	--	< 1.0	--	--	--
DICHLOROBROMOMETHANE	ug/l	< 1.0	< 0.50	--	--	--	< 2.0	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	< 2.0	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	< 0.50	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	0.6	< 0.24	< 0.5	--	< 0.5	< 0.5	--	< 0.5	< 0.5
M&P-XYLENE	ug/l	2.3	0.51	--	--	--	< 0.5	--	--	< 0.5
METHYL CHLORIDE	ug/l	< 0.2	< 0.65	--	--	--	< 2.0	--	--	--
METHYLENE CHLORIDE	ug/l	1.6	58	--	--	--	< 1.0	--	--	--
O-XYLENE	ug/l	< 0.5	< 0.19	0.8	--	< 0.5	< 0.5	--	< 0.5	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 1(e)

COMPOUND (by Class)	Units	FBLK May.'87	FBLK Nov.'89	FBLK Apr.'91	FBLK1 May.'86	FBLK1 Apr.'92	FBLK1 Apr.'93	FBLK2 May.'86	FBLK2 Jul.'92	FBLK2 Apr.'94
VOLATILE ORGANIC COMPOUNDS (cont'd)										
TETRACHLOROETHYLENE	ug/l	9.2	< 0.21	< 1.0	--	< 1.0	< 1.0	--	< 1.0	< 1
TOLUENE	ug/l	< 0.5	1.58	5.4	--	< 0.5	< 0.5	--	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	< 0.20	--	--	--	< 1.0	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	< 1.0	--	--	--	--	< 1.0	--	--	--
TRICHLOROETHYLENE	ug/l	< 1.0	< 0.92	< 1.0	--	< 1.0	< 1.0	--	< 1.0	< 1
TRICHLOROFLUOROMETHANE	ug/l	< 2.0	2.6	--	--	--	< 2.0	--	--	--
VINYL CHLORIDE	ug/l	< 2.0	< 0.74	--	--	--	< 2.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 2(a)

COMPOUND (by Class)	Units	FBLK2 Jul.'94	FBLK3 May.'86	TBLK May.'86	May.'87	Nov.'89
ACID EXTRACTABLES						
2,4,6-TRICHLOROPHENOL	ug/l	--	< 2.0	--	--	--
2,4-DICHLOROPHENOL	ug/l	--	< 2.0	--	--	--
2,4-DIMETHYL PHENOL	ug/l	--	< 2.0	--	--	--
2,4-DINITROPHENOL	ug/l	--	< 3.0	--	--	--
2-CHLOROPHENOL	ug/l	--	< 2.0	--	--	--
2-NITROPHENOL	ug/l	--	< 5.0	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	--	< 5.0	--	--	--
4-NITROPHENOL	ug/l	--	13.3	--	--	--
P-CHLORO-M-CRESOL	ug/l	--	< 5.0	--	--	--
PENTACHLOROPHENOL	ug/l	--	< 2.0	--	--	--
PHENOL	ug/l	--	< 3.0	--	--	--
BASE/NEUTRAL EXTRACTABLES						
1,2,4-TRICHLOROBENZENE	ug/l	--	< 1.0	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	TR	--	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	--	< 5.0	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	< 1.0	--	--	--
1,4-DICHLOROBENZENE	ug/l	--	< 1.0	--	--	--
2,4-DINITROTOLUENE	ug/l	--	< 2.0	--	--	--
2,6-DINITROTOLUENE	ug/l	--	< 2.0	--	--	--
2-CHLORONAPHTHALENE	ug/l	--	< 1.0	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	--	< 5.0	--	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	--	< 1.0	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	< 1.0	--	--	--
9H-FLUORENE	ug/l	--	< 1.0	--	--	--
ACENAPHTHENE	ug/l	--	< 1.0	--	--	--
ACENAPHTHYLENE	ug/l	--	< 1.0	--	--	--
ANTHRACENE	ug/l	--	< 1.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 2(b)

COMPOUND (by Class)	Units	FBLK2 Jul.'94	FBLK3 May.'86	TBLK May.'86	May.'87	Nov.'89
BASE/NEUTRAL EXTRACTABLES (cont'd)						
BENZIDINE	ug/l	--	< 5.0	--	--	--
BENZO(A)ANTHRACENE	ug/l	--	< 2.0	--	--	--
BENZO(A)PYRENE	ug/l	--	< 2.0	--	--	--
BENZO(B)FLUORANTHENE	ug/l	--	< 2.0	--	--	--
BENZO(GHI)PERYLENE	ug/l	--	< 2.0	--	--	--
BENZO(K)FLUORANTHENE	ug/l	--	< 2.0	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	< 2.0	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	--	< 1.0	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	< 1.0	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	4.9	--	--	--
BUTYL BENZYL PHTHALATE	ug/l	--	4.6	--	--	--
CHRYSENE	ug/l	--	< 2.0	--	--	--
DI-N-BUTYL PHTHALATE	ug/l	--	7.5	--	--	--
DI-N-OCTYL PHTHALATE	ug/l	--	< 2.0	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	--	< 2.0	--	--	--
DIETHYL PHTHALATE	ug/l	--	11.1	--	--	--
DIMETHYL PHTHALATE	ug/l	--	2.1	--	--	--
FLUORANTHENE	ug/l	--	< 1.0	--	--	--
HEXACHLOROBENZENE	ug/l	--	< 1.0	--	--	--
HEXACHLOROBUTADIENE	ug/l	--	< 1.0	--	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	--	< 1.0	--	--	--
HEXACHLOROETHANE	ug/l	--	< 1.0	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	--	< 2.0	--	--	--
ISOPHORONE	ug/l	--	< 1.0	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	< 3.0	--	--	--
N-NITROSODIPHENYLAMINE	ug/l	--	< 4.0	--	--	--
NAPHTHALENE	ug/l	--	< 1.0	--	--	--
NITROBENZENE	ug/l	--	< 1.0	--	--	--
PHENANTHRENE	ug/l	--	< 1.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 2(c)

COMPOUND (by Class)	Units	FBLK2 Jul.'94	FBLK3 May.'86	TBLK May.'86	May.'87	Nov.'89
BASE/NEUTRAL EXTRACTABLES (cont'd)						
PYRENE	ug/l	--	< 2.0	--	--	--
GENERAL CHEMISTRY						
ALKALINITY	mg/l	< 1.0	--	--	--	--
AMMONIA NITROGEN	mg/l	< 0.01	--	--	--	--
CHLORIDE	mg/l	< 0.10	--	--	--	--
KJELDAHL NITROGEN	mg/l	< 0.10	--	--	--	--
PHENOLS	ug/l	< 1	--	--	--	--
SULFATE	mg/l	< 0.10	--	--	--	--
VOLATILE ORGANIC COMPOUNDS						
1,1,1-TRICHLOROETHANE	ug/l	< 1	--	< 1.0	< 1.0	< 0.50
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	< 1.0	1.6	< 0.33
1,1,2-TRICHLOROETHANE	ug/l	--	--	< 1.0	2.6	< 0.21
1,1-DICHLOROETHANE	ug/l	< 1	--	< 1.0	TR	< 0.20
1,1-DICHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	< 0.32
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	< 1.0	< 0.50
1,2-DICHLOROBENZENE	ug/l	--	--	< 1.0	< 1.0	< 0.24
1,2-DICHLOROETHANE	ug/l	< 1	--	< 1.0	3.2	< 0.82
1,2-DICHLOROPROPANE	ug/l	--	--	< 1.0	< 1.0	< 0.20
1,3-DICHLOROBENZENE	ug/l	< 1	--	< 1.0	< 1.0	< 0.23
1,4-DICHLOROBENZENE	ug/l	< 1	--	< 1.0	< 1.0	< 0.22
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	< 0.50
BENZENE	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.19
BROMOFORM	ug/l	--	--	< 1.0	< 1.0	< 0.49
BROMOMETHANE	ug/l	--	--	< 2.0	< 2.0	< 0.83
CARBON TETRACHLORIDE	ug/l	--	--	< 1.0	< 1.0	< 0.93

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Surface Water Quality Assurance Quality Control Samples

Report 2(d)

COMPOUND (by Class)	Units	FBLK2 Jul.'94	FBLK3 May.'86	TBLK May.'86	May.'87	Nov.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)						
CHLOROBENZENE	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.27
CHLOROETHANE	ug/l	--	--	< 2.0	< 2.0	< 0.50
CHLOROFORM	ug/l	--	--	TR	1.3	3.3
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	< 1.0	< 1.0	< 0.27
DIBROMOCHLOROMETHANE	ug/l	--	--	< 1.0	< 1.0	< 0.24
DICHLOROBROMOMETHANE	ug/l	--	--	< 1.0	< 1.0	< 0.50
DICHLORODIFLUOROMETHANE	ug/l	--	--	< 2.0	< 2.0	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	< 0.50
ETHYLBENZENE	ug/l	< 0.5	--	< 0.5	< 0.5	< 0.24
M&P-XYLENE	ug/l	< 0.5	--	1.3	< 0.5	0.25
METHYL CHLORIDE	ug/l	--	--	< 2.0	TR	< 0.65
METHYLENE CHLORIDE	ug/l	--	--	1.8	< 0.5	1.35
O-XYLENE	ug/l	< 0.5	--	0.8	< 0.5	< 0.19
TETRACHLOROETHYLENE	ug/l	< 1	--	< 1.0	2.0	< 0.21
TOLUENE	ug/l	< 0.5	--	3.11	< 0.5	< 0.24
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	< 0.20
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	< 1.0	< 1.0	--
TRICHLOROETHYLENE	ug/l	< 1	--	< 1.0	< 1.0	< 0.92
TRICHLOROFLUOROMETHANE	ug/l	--	--	< 2.0	< 2.0	< 0.26
VINYL CHLORIDE	ug/l	--	--	< 2.0	< 2.0	< 0.74

000866

LEGEND

J	- The associated value is an estimated quantity.
U	- The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	- The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.
--	- The parameter was not analyzed.
ND	- The material was analyzed, but not detected above an unstated method detection limit.
TR	- Trace level detection.
<	- Indicates result less than that shown.
>	- Indicates result greater than that shown.
R	- The data was not useable.
NS	- Insufficient sample.
(a)	- Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 1(a)

COMPOUND (by Class)	Units	BRINSE Dec.'87	Feb.'88	FBLK Jun.'87	Aug.'87	Dec.'87	May.'88	Jul.'89	Nov.'89	Apr.'91
GENERAL CHEMISTRY										
ALKALINITY	mg/l	--	--	--	--	--	--	< 2.0	--	< 1
AMMONIA NITROGEN	mg/l	0.10	--	0.15	< 0.02	0.02	--	< 0.03	--	< 0.03
CHLORIDE	mg/l	--	--	--	--	--	--	< 1.0	--	< 0.10
CONDUCTIVITY	umhos/cm	--	--	< 2.0	11.0	--	--	--	--	4.26
FREE AMMONIA	mg/l	0.12	--	0.178	< 0.02	0.02	--	--	--	--
KJELDAHL NITROGEN	mg/l	0.15	--	0.320	0.03	0.02	--	< 0.06	--	< 0.06
ORGANIC NITROGEN	mg/l	--	--	0.17	0.03	0.00	--	--	--	--
PH		--	--	8.14	7.10	--	--	--	--	8.0
PHENOLS	ug/l	--	--	--	--	--	--	--	--	< 1
SULFATE	mg/l	--	--	--	--	--	--	< 1.0	--	< 0.10
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.24	< 0.50	--
1,1,2,2-TETRACHLOROETHANE	ug/l	< 2	< 1.0	--	--	--	--	< 0.33	< 0.33	--
1,1,2-TRICHLOROETHANE	ug/l	< 0.5	< 1.0	--	--	--	--	--	2.7	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	0.44	--	--
1,1-DICHLOROETHANE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.20	< 0.20	--
1,1-DICHLOROETHYLENE	ug/l	< 0.2	< 1.0	--	--	--	--	0.34	< 0.32	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	< 0.50	--
1,2-DICHLOROBENZENE	ug/l	< 0.3	< 1.0	--	--	--	--	< 0.24	< 0.24	--
1,2-DICHLOROETHANE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.82	< 0.82	--
1,2-DICHLOROPROPANE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.20	< 0.20	--
1,3-DICHLOROBENZENE	ug/l	< 0.3	< 1.0	--	--	--	--	< 0.23	< 0.23	--
1,4-DICHLOROBENZENE	ug/l	< 0.3	< 1.0	--	--	--	--	< 0.22	< 0.22	--
2-BUTANONE	ug/l	--	ND	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	< 10	--	--	--	--	--	< 0.40	< 0.50	--
A-METHYLSTYRENE	ug/l	< 0.2	--	--	--	--	--	--	--	--
ACETONE	ug/l	--	ND	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 1(b)

COMPOUND (by Class)	Units	BRINSE Dec.'87	BRINSE Feb.'88	FBLK Jun.'87	FBLK Aug.'87	FBLK Dec.'87	FBLK May.'88	FBLK Jul.'89	FBLK Nov.'89	FBLK Apr.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)										
BENZENE	ug/l	< 2	TR	--	--	--	--	0.51	< 0.19	--
BROMOFORM	ug/l	< 2	< 1.0	--	--	--	--	< 0.49	0.88	--
BROMOMETHANE	ug/l	< 0.2	< 2.0	--	--	--	--	< 0.83	< 0.83	--
CARBON TETRACHLORIDE	ug/l	< 1	< 1.0	--	--	--	--	< 0.93	< 0.93	--
CHLOROBENZENE	ug/l	< 0.2	< 0.5	--	--	--	--	< 0.27	< 0.27	--
CHLOROETHANE	ug/l	< 0.2	< 2.0	--	--	--	--	< 0.40	< 0.50	--
CHLOROFORM	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.51	2.9	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	< 1.0	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 0.5	< 1.0	--	--	--	--	< 0.27	< 0.27	--
DIBROMOCHLOROMETHANE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.24	< 0.24	--
DICHLOROBROMOMETHANE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.24	< 0.50	--
DICHLORODIFLUOROMETHANE	ug/l	--	< 2.0	--	--	--	--	--	< 0.50	--
ETHYLBENZENE	ug/l	1.4	< 0.5	--	--	--	--	0.39	< 0.24	--
M&P-XYLENE	ug/l	7.6	< 0.5	--	--	--	--	--	< 0.21	--
MESITYLENE	ug/l	0.4	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	< 0.2	< 2.0	--	--	--	--	< 0.65	5.0	--
METHYLENE CHLORIDE	ug/l	14	75.87	--	--	--	--	< 0.92	< 0.92	--
METHYLSTYRENE ISOMERS	ug/l	< 0.2	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	2.4	< 0.5	--	--	--	--	--	0.50	--
OTHER AROMATIC COMPOUNDS	ug/l	< 0.2	--	--	--	--	--	--	--	--
STYRENE	ug/l	1.6	ND	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.21	< 0.21	--
THF	ug/l	--	ND	--	--	--	--	--	--	--
TOLUENE	ug/l	10	TR	--	--	--	--	4.6	< 0.24	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.20	8.2	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	< 1.0	--	--	--	< 1	--	--	--
TRICHLOROETHYLENE	ug/l	< 0.2	< 1.0	--	--	--	--	< 0.39	< 0.92	--
TRICHLOROFLUOROMETHANE	ug/l	< 0.5	< 2.0	--	--	--	--	< 0.26	< 0.26	--
VINYL CHLORIDE	ug/l	< 0.5	< 2.0	--	--	--	--	< 0.74	< 0.74	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 1(c)

COMPOUND (by Class)	Units	BRINSE Dec.'87	BRINSE Feb.'88	FBLK Jun.'87	FBLK Aug.'87	FBLK Dec.'87	FBLK May.'88	FBLK Jul.'89	FBLK Nov.'89	FBLK Apr.'91

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 2(a)

COMPOUND (by Class)	Units	FBLK Jul.'91	FBLK1 Oct.'91	Jul.'92	Jul.'93	Oct.'93	Apr.'94	Jul.'94	FBLK2 Apr.'92	Apr.'93
BASE/NEUTRAL EXTRACTABLES										
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	--	--	--	< 0.002	--	--	--	--
METALS										
ALUMINUM	mg/l	--	0.068	--	--	0.054	--	--	--	--
ANTIMONY	mg/l	--	--	--	--	< 0.002	--	--	--	--
ARSENIC	mg/l	--	< 0.002	--	--	< 0.01	--	--	--	--
BARIUM	mg/l	--	< 0.003	--	--	< 0.003	--	--	--	--
BERYLLIUM	mg/l	--	< 0.003	--	--	--	--	--	--	--
BISMUTH	mg/l	--	< 0.04	--	--	< 0.04	--	--	--	--
CADMIUM	mg/l	--	< 0.003	--	--	< 0.003	--	--	--	--
CALCIUM	mg/l	--	0.886	--	--	--	--	--	--	--
CHROMIUM	mg/l	--	< 0.005	--	--	< 0.005	--	--	--	--
COBALT	mg/l	--	< 0.005	--	--	< 0.005	--	--	--	--
COPPER	mg/l	--	< 0.003	--	--	< 0.003	--	--	--	--
CYANIDE, TOTAL	mg/l	--	--	--	--	< 0.005	--	--	--	--
IRON	mg/l	--	0.035	--	--	0.008 U	--	--	--	--
LEAD	mg/l	--	< 0.01	--	--	< 0.025	--	--	--	--
MAGNESIUM	mg/l	--	0.119	--	--	--	--	--	--	--
MANGANESE	mg/l	--	< 0.002	--	--	< 0.001	--	--	--	--
MERCURY	mg/l	--	< 0.001	--	--	< 0.001	--	--	--	--
MOLYBDENUM	mg/l	--	< 0.006	--	--	< 0.006	--	--	--	--
NICKEL	mg/l	--	< 0.01	--	--	< 0.01	--	--	--	--
POTASSIUM	mg/l	--	< 0.1	--	--	--	--	--	--	--
SELENIUM	mg/l	--	0.002	--	--	< 0.01	--	--	--	--
SILVER	mg/l	--	< 0.01	--	--	< 0.007	--	--	--	--
SODIUM	mg/l	--	1.69	--	--	--	--	--	--	--
STRONTIUM	mg/l	--	0.005	--	--	--	--	--	--	--
TIN	mg/l	--	--	--	--	< 0.018	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 2(b)

COMPOUND (by Class)	Units	FBLK Jul.'91	FBLK1 Oct.'91	Jul.'92	Jul.'93	Oct.'93	Apr.'94	Jul.'94	FBLK2 Apr.'92	Apr.'93
METALS (cont'd)										
TITANIUM	mg/l	--	< 0.003	--	--	< 0.003	--	--	--	--
TOTAL PHOSPHORUS	mg/l	--	< 0.4	--	--	< 0.005	--	--	--	--
TUNGSTEN	mg/l	--	< 0.02	--	--	--	--	--	--	--
VANADIUM	mg/l	--	< 0.003	--	--	0.004	--	--	--	--
ZINC	mg/l	--	0.089	--	--	0.004 U	--	--	--	--
BIOLOGICAL TESTING										
FAECAL COLIFORM	/100ml	--	--	--	< 1	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	--	< 1	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	< 1	--	--	--	--	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	< 1	< 1	1.7	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0
AMMONIA NITROGEN	mg/l	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.01	< 0.01	< 0.03	< 0.03
BOD	mg/l	--	< 2	--	--	< 2	--	--	--	--
CHLORIDE	mg/l	0.50	0.20	0.32	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.48
COD	mg/l	--	< 5	--	--	< 5	--	--	--	--
CONDUCTIVITY	umhos/cm	1375	--	46	20	--	--	51	62.0	40
FLUORIDE	mg/l	--	< 0.10	--	--	< 0.10	--	--	--	--
HARDNESS	mg/l	--	< 0.1	--	--	< 0.1	--	--	--	--
KJELDAHL NITROGEN	mg/l	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.10	< 0.10	< 0.06	< 0.06
PH		8.5	--	8.23	8.7	--	8.5	8.0	8.02	8.26
PHENOLS	ug/l	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1	< 1	2	< 1.0
SULFATE	mg/l	--	< 0.10	--	--	< 0.10	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	< 1	--	--	< 1	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 2(c)

COMPOUND (by Class)	Units	FBLK Jul.'91	FBLK1 Oct.'91	Jul.'92	Jul.'93	Oct.'93	Apr.'94	Jul.'94	FBLK2 Apr.'92	Apr.'93
PESTICIDES AND PCB's										
2,4,5-TP (SILVEX)	ug/l	--	--	--	--	< 0.5	--	--	--	--
2,4-D	ug/l	--	--	--	--	< 2	--	--	--	--
2,4-DDT	ug/l	--	--	--	--	< 0.2	--	--	--	--
4,4-DDT	ug/l	--	--	--	--	< 0.2	--	--	--	--
ALDRIN	ug/l	--	--	--	--	< 0.2	--	--	--	--
ALPHA-CHLORDANE	ug/l	--	--	--	--	< 0.2	--	--	--	--
CARBARYL	ug/l	--	--	--	--	< 16	--	--	--	--
DIAZINON	ug/l	--	--	--	--	< 0.5	--	--	--	--
DIELDRIN	ug/l	--	--	--	--	< 0.2	--	--	--	--
ENDRIN	ug/l	--	--	--	--	< 0.2	--	--	--	--
GAMMA-CHLORDANE	ug/l	--	--	--	--	< 0.2	--	--	--	--
HEPTACHLOR	ug/l	--	--	--	--	< 0.2	--	--	--	--
HEPTACHLOR EPOXIDE	ug/l	--	--	--	--	< 0.2	--	--	--	--
LINDANE	ug/l	--	--	--	--	< 0.2	--	--	--	--
METHOXYCHLOR	ug/l	--	--	--	--	< 0.5	--	--	--	--
METHYL PARATHION	ug/l	--	--	--	--	< 0.5	--	--	--	--
PARATHION	ug/l	--	--	--	--	< 0.5	--	--	--	--
TOTAL PCB	ug/l	--	--	--	--	< 5	--	--	--	--
TOXAPHENE	ug/l	--	--	--	--	< 10	--	--	--	--
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	--	--	< 1.0	< 1.0	--	--	--	--
1,1-DICHLOROETHANE	ug/l	< 1.0	--	--	< 1.0	< 1.0	--	--	--	--
1,2-DICHLOROETHANE	ug/l	< 1.0	--	--	< 1.0	< 1.0	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	< 1.0	--	--	< 1.0	< 1.0	--	--	--	--
1,4-DICHLOROBENZENE	ug/l	< 1.0	--	--	< 1.0	< 1.0	--	--	--	--
BENZENE	ug/l	< 0.5	--	--	< 0.5	< 0.5	--	--	--	--
CHLOROBENZENE	ug/l	< 0.5	--	--	< 0.5	< 2.0	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 2(d)

COMPOUND (by Class)	Units	FBLK Jul.'91	FBLK1 Oct.'91	Jul.'92	Jul.'93	Oct.'93	Apr.'94	Jul.'94	FBLK2 Apr.'92	Apr.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)										
ETHYLBENZENE	ug/l	< 0.5	--	--	< 0.5	< 0.5	--	--	--	--
M&P-XYLENE	ug/l	< 0.5	--	--	< 0.5	< 0.5	--	--	--	--
O-XYLENE	ug/l	< 0.5	--	--	< 0.5	< 0.5	< 0.5	--	--	--
TETRACHLOROETHYLENE	ug/l	< 1.0	--	--	< 1.0	< 1.0	--	--	--	--
TOLUENE	ug/l	< 0.5	--	--	< 0.5	< 0.5	--	--	--	--
TRICHLOROETHANE	ug/l	--	--	--	< 1.0	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	< 1.0	--	--	--	< 1.0	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 3(a)

COMPOUND (by Class)	Units	FBLK2 Jul.'93	TBLK Dec.'87	Feb.'88	Jul.'89	Nov.'89	Aug.'90	Sep.'90	TBLK1 Oct.'91
BASE/NEUTRAL EXTRACTABLES									
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	--	--	--	--	--	TR	< 2
GENERAL CHEMISTRY									
ALKALINITY	mg/l	< 1.0	--	--	--	--	--	--	--
AMMONIA NITROGEN	mg/l	< 0.03	--	--	--	--	--	--	--
CHLORIDE	mg/l	< 0.10	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	22	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	< 0.06	--	--	--	--	--	--	--
PH		8.5	--	--	--	--	--	--	--
PHENOLS	ug/l	< 1.0	--	--	--	--	--	--	--
SULFATE	mg/l	< 0.10	--	--	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS									
1,1,1-TRICHLOROETHANE	ug/l	< 1.0	4.1	< 1.0	< 0.24	< 0.50	< 1	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	ug/l	--	< 2	< 1.0	< 0.33	< 0.33	< 2	< 2.0	--
1,1,2-TRICHLOROETHANE	ug/l	--	< 0.5	< 1.0	--	< 0.21	< 2	< 2.0	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	< 0.21	--	--	--	--
1,1-DICHLOROETHANE	ug/l	< 1.0	< 0.2	< 1.0	< 0.20	< 0.20	< 1	< 1.0	--
1,1-DICHLOROETHYLENE	ug/l	--	1.6	< 1.0	< 0.32	< 0.32	< 1	< 1.0	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	< 0.50	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	< 0.3	< 1.0	< 0.24	--	< 1	< 1.0	--
1,2-DICHLOROETHANE	ug/l	< 1.0	< 0.2	< 1.0	< 0.82	< 0.82	< 1	< 1.0	--
1,2-DICHLOROPROPANE	ug/l	--	< 0.2	< 1.0	< 0.20	< 0.20	< 1	< 1.0	--
1,3-DICHLOROBENZENE	ug/l	< 1.0	< 0.3	< 1.0	< 0.23	< 0.23	< 1	< 1.0	--
1,4-DICHLOROBENZENE	ug/l	< 1.0	< 0.3	< 1.0	< 0.22	< 0.22	< 1	< 1.0	--
2-BUTANONE	ug/l	--	--	ND	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	< 10	--	< 0.40	< 0.50	< 10	< 10	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 3(b)

COMPOUND (by Class)	Units	FBLK2 Jul.'93	TBLK Dec.'87	Feb.'88	Jul.'89	Nov.'89	Aug.'90	Sep.'90	TBLK1 Oct.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)									
A-METHYLSTYRENE	ug/l	--	< 0.2	--	--	--	--	--	--
ACETONE	ug/l	--	--	ND	--	--	--	--	--
BENZENE	ug/l	< 0.5	< 2	TR	< 0.50	< 0.19	0.7	< 0.5	--
BROMOFORM	ug/l	--	< 2	< 1.0	< 0.49	< 0.49	< 2	< 2.0	--
BROMOMETHANE	ug/l	--	< 0.2	< 2.0	< 0.83	< 0.83	< 2	< 2.0	--
CARBON TETRACHLORIDE	ug/l	--	< 1	< 1.0	< 0.93	< 0.93	< 1	< 1.0	--
CHLOROBENZENE	ug/l	< 0.5	< 0.2	< 0.5	< 0.27	< 0.27	< 0.5	< 0.5	--
CHLOROETHANE	ug/l	--	< 0.2	< 2.0	< 0.40	< 0.50	< 2	< 2.0	--
CHLOROFORM	ug/l	--	0.3	1.81	< 0.51	< 0.51	< 1	1.7 U	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	< 1.0	--	--	< 1	< 1.0	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	< 0.5	< 1.0	< 0.27	< 0.27	< 1	< 1.0	--
DIBROMOCHLOROMETHANE	ug/l	--	< 0.2	< 1.0	< 0.24	< 0.24	< 1	< 1.0	--
DICHLOROBROMOMETHANE	ug/l	--	< 0.2	< 1.0	< 0.24	< 0.50	< 2	< 2.0	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	< 2.0	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	< 0.50	--	--	--
ETHYLBENZENE	ug/l	< 0.5	< 0.2	< 0.5	< 0.24	< 0.24	< 0.5	< 0.5	--
M&P-XYLENE	ug/l	< 0.5	< 0.3	< 0.5	--	< 0.21	--	--	--
MESITYLENE	ug/l	--	< 0.2	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	< 0.2	< 2.0	< 0.65	< 0.65	< 2	< 2.0	--
METHYLENE CHLORIDE	ug/l	--	< 10	3.38	< 0.92	< 0.92	11.8	113 U	--
METHYLSTYRENE ISOMERS	ug/l	--	< 0.2	--	--	--	--	--	--
O-XYLENE	ug/l	< 0.5	< 0.2	< 0.5	--	< 0.19	--	--	--
OTHER AROMATIC COMPOUNDS	ug/l	--	< 0.2	--	--	--	--	--	--
STYRENE	ug/l	--	< 0.2	ND	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	< 1.0	< 0.2	< 1.0	< 0.21	< 0.21	< 1	< 1.0	--
THF	ug/l	--	--	ND	--	--	--	--	--
TOLUENE	ug/l	< 0.5	< 3	TR	< 0.24	< 0.24	TR	0.7 U	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	< 0.2	< 1.0	< 0.20	1.31	< 1	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	< 0.2	< 1.0	< 0.10	--	< 1	< 1.0	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Groundwater Quality Assurance Quality Control Samples

Report 3(c)

COMPOUND (by Class)	Units	FBLK2 Jul.'93	TBLK Dec.'87	Feb.'88	Jul.'89	Nov.'89	Aug.'90	Sep.'90	TBLK1 Oct.'91
VOLATILE ORGANIC COMPOUNDS (cont'd)									
TRICHLOROETHANE	ug/l	< 1.0	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	< 0.2	< 1.0	< 0.39	< 0.92	< 1	< 1.0	--
TRICHLOROFLUOROMETHANE	ug/l	--	< 0.5	< 2.0	< 0.26	< 0.26	< 2	< 2.0	--
VINYL CHLORIDE	ug/l	--	< 0.5	< 2.0	< 0.74	< 0.74	< 2	< 2.0	--

000877

LEGEND

J - The associated value is an estimated quantity.

U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

UJ - The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.

-- - The parameter was not analyzed.

ND - The material was analyzed, but not detected above an unstated method detection limit.

TR - Trace level detection.

< - Indicates result less than that shown.

> - Indicates result greater than that shown.

R - The data was not useable.

NS - Insufficient sample.

(a) - Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(a)

COMPOUND (by Class)	Units	FBLK Mar.'87	May.'87	Nov.'88	Jan.'89	May.'89	Jul.'89	FBLK1 May.'86	Oct.'92	Jan.'93
ACID EXTRACTABLES										
2,4,6-TRICHLOROPHENOL	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
2,4-DICHLOROPHENOL	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
2,4-DIMETHYL PHENOL	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
2,4-DINITROPHENOL	ug/l	--	< 3.0	--	--	--	--	< 3.0	--	--
2-CHLOROPHENOL	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
2-NITROPHENOL	ug/l	--	< 5.0	--	--	--	--	< 5.0	--	--
4,6-DINITRO-O-CRESOL	ug/l	--	< 5.0	--	--	--	--	< 5.0	--	--
4-NITROPHENOL	ug/l	--	< 5.0	--	--	--	--	< 25.0	--	--
P-CHLORO-M-CRESOL	ug/l	--	< 5.0	--	--	--	--	< 5.0	--	--
PENTACHLOROPHENOL	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
PHENOL	ug/l	--	--	--	--	--	--	< 3.0	--	--
BASE/NEUTRAL EXTRACTABLES										
1,2,4-TRICHLOROBENZENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
1,2-DICHLOROBENZENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	--	< 5.0	--	--	--	--	< 5.0	--	--
1,3-DICHLOROBENZENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
1,4-DICHLOROBENZENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
2,4-DINITROTOLUENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
2,6-DINITROTOLUENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
2-CHLORONAPHTHALENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
3,3'-DICHLOROBENZIDINE	ug/l	--	< 5.0	--	--	--	--	< 5.0	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
9H-FLUORENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
ACENAPHTHENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
ACENAPHTHYLENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
ANTHRACENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(b)

COMPOUND (by Class)	Units	FBLK Mar.'87	May.'87	Nov.'88	Jan.'89	May.'89	Jul.'89	FBLK1 May.'86	Oct.'92	Jan.'93
BASE/NEUTRAL EXTRACTABLES (cont'd)										
BENZIDINE	ug/l	--	< 5.0	--	--	--	--	< 5.0	--	--
BENZO(A)ANTHRACENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BENZO(A)PYRENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BENZO(B)FLUORANTHENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BENZO(GHI)PERYLENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BENZO(K)FLUORANTHENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	39.3	--	--	--	--	18.8	< 0.5	--
BUTYL BENZYL PHTHALATE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
CHRYSENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
DI-N-BUTYL PHTHALATE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
DI-N-OCTYL PHTHALATE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
DIETHYL PHTHALATE	ug/l	--	TR	--	--	--	--	TR	--	--
DIMETHYL PHTHALATE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
FLUORANTHENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
HEXACHLOROBENZENE	ug/l	< 0.020	< 1.0	< 0.020	< 0.020	--	--	< 1.0	--	--
HEXACHLOROBUTADIENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
HEXACHLOROETHANE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
ISOPHORONE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	< 3.0	--	--	--	--	< 3.0	--	--
N-NITROSODIPHENYLAMINE	ug/l	--	< 4.0	--	--	--	--	< 4.0	--	--
NAPHTHALENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
NITROBENZENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--
PHENANTHRENE	ug/l	--	< 1.0	--	--	--	--	< 1.0	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(c)

COMPOUND (by Class)	Units	FBLK Mar.'87	FBLK May.'87	FBLK Nov.'88	FBLK Jan.'89	FBLK May.'89	FBLK Jul.'89	FBLK1 May.'86	FBLK1 Oct.'92	FBLK1 Jan.'93
BASE/NEUTRAL EXTRACTABLES (cont'd)										
PYRENE	ug/l	--	< 2.0	--	--	--	--	< 2.0	--	--
METALS										
ALUMINUM	mg/l	--	--	--	--	--	--	--	0.054	--
ANTIMONY	mg/l	--	--	--	--	--	--	--	--	< 0.002
ARSENIC	mg/l	--	--	--	--	--	--	--	< 0.002	--
BARIUM	mg/l	--	--	--	--	--	--	--	< 0.003	--
BERYLLIUM	mg/l	--	--	--	--	--	--	--	< 0.003	--
BISMUTH	mg/l	--	--	--	--	--	--	--	< 0.04	--
CADMIUM	mg/l	--	--	--	--	--	--	--	< 0.003	--
CALCIUM	mg/l	--	--	--	--	--	--	--	0.107	--
CHROMIUM	mg/l	--	--	--	--	--	--	--	< 0.005	--
COBALT	mg/l	--	--	--	--	--	--	--	< 0.005	--
COPPER	mg/l	--	--	--	--	--	--	--	0.004	--
CYANIDE, TOTAL	mg/l	--	--	--	--	--	--	--	< 0.005	--
IRON	mg/l	--	--	--	--	--	--	--	0.025	--
LEAD	mg/l	--	--	--	--	--	--	--	< 0.01	--
MAGNESIUM	mg/l	--	--	--	--	--	--	--	< 0.1	--
MANGANESE	mg/l	--	--	--	--	--	--	--	< 0.001	--
MERCURY	mg/l	--	--	--	--	--	--	--	< 0.001	--
MOLYBDENUM	mg/l	--	--	--	--	--	--	--	< 0.006	--
NICKEL	mg/l	--	--	--	--	--	--	--	< 0.01	--
POTASSIUM	mg/l	--	--	--	--	--	--	--	< 1	--
SELENIUM	mg/l	--	--	--	--	--	--	--	< 0.002	--
SILVER	mg/l	--	--	--	--	--	--	--	< 0.01	--
SODIUM	mg/l	--	--	--	--	--	--	--	0.482	--
STRONTIUM	mg/l	--	--	--	--	--	--	--	< 0.003	--
TIN	mg/l	--	--	--	--	--	--	--	--	< 0.18

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(d)

COMPOUND (by Class)	Units	FBLK Mar.'87	May.'87	Nov.'88	Jan.'89	May.'89	Jul.'89	FBLK1 May.'86	Oct.'92	Jan.'93
METALS (cont'd)										
TITANIUM	mg/l	--	--	--	--	--	--	--	< 0.003	--
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	< 0.005	--
TUNGSTEN	mg/l	--	--	--	--	--	--	--	< 0.02	--
VANADIUM	mg/l	--	--	--	--	--	--	--	< 0.003	--
ZINC	mg/l	--	--	--	--	--	--	--	0.005	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	--	--	--	--	--	--	--	2.8	--
AMMONIA NITROGEN	mg/l	--	--	--	--	--	--	--	< 0.03	--
BOD	mg/l	--	--	--	--	--	--	--	< 2	--
CHLORIDE	mg/l	--	--	--	--	--	--	--	< 0.10	--
COD	mg/l	--	--	--	--	--	--	--	< 5	--
CONDUCTIVITY	umhos/cm	--	--	--	--	--	--	--	53.0	--
FLUORIDE	mg/l	--	--	--	--	--	--	--	< 0.10	--
HARDNESS	mg/l	--	--	--	--	--	--	--	< 0.1	--
KJELDAHL NITROGEN	mg/l	--	--	--	--	--	--	--	< 0.06	--
PH		--	--	--	--	--	--	--	8.36	--
PHENOLS	ug/l	--	--	--	--	--	--	--	< 1.0	--
SULFATE	mg/l	--	--	--	--	--	--	--	< 0.10	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	< 1	--
PESTICIDES AND PCB's										
2,4,5-TP (SILVEX)	ug/l	--	--	--	--	--	--	--	< 0.05	--
2,4-D	ug/l	--	--	--	--	--	--	--	< 0.2	--
2,4-DDD	ug/l	< 0.020	< 0.020	< 0.020	--	--	--	--	--	--
2,4-DDT	ug/l	--	< 0.020	--	< 0.020	< 0.010	< 0.020	--	--	--
4,4-DDD	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(e)

COMPOUND (by Class)	Units	FBLK Mar.'87	May.'87	Nov.'88	Jan.'89	May.'89	Jul.'89	FBLK1 May.'86	Oct.'92	Jan.'93
PESTICIDES AND PCB's (cont'd)										
4,4-DDE	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
4,4-DDT	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
ALDRIN	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.02	--
ALPHA-BHC	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
ALPHA-CHLORDANE	ug/l	< 0.020	< 0.020	--	< 0.020	< 0.010	< 0.020	--	--	--
ALPHA-ENDOSULFAN	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
BETA-BHC	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
BETA-ENDOSULFAN	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
CARBARYL	ug/l	--	--	--	--	--	--	--	< 16	--
CHLORDANE	ug/l	--	--	--	--	--	--	--	< 0.02	--
DDT'S	ug/l	--	--	--	--	--	--	--	< 0.02	--
DELTA-BHC	ug/l	--	--	< 0.020	< 0.020	--	--	--	--	--
DIAZINON	ug/l	--	--	--	--	--	--	--	< 0.5	--
DIELDRIN	ug/l	< 0.020	--	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.02	--
ENDOSULFAN SULFATE	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
ENDRIN	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.02	--
ENDRIN ALDEHYDE	ug/l	--	--	< 0.020	--	--	--	--	--	--
GAMMA-BHC	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.02	--
GAMMA-CHLORDANE	ug/l	< 0.020	< 0.020	--	< 0.020	< 0.010	< 0.020	--	--	--
HEPTACHLOR	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.02	--
HEPTACHLOR EPOXIDE	ug/l	< 0.020	--	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.02	--
HEXACHLOROBENZENE	ug/l	--	< 0.020	< 0.020	--	--	< 0.020	--	--	--
METHOXYCHLOR	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	< 0.05	--
METHYL PARATHION	ug/l	--	--	--	--	--	--	--	< 0.5	--
MIREX	ug/l	< 0.020	< 0.020	< 0.020	< 0.050	< 0.010	< 0.020	--	--	--
OXYCHLORDANE	ug/l	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010	< 0.020	--	--	--
PARATHION	ug/l	--	--	--	--	--	--	--	< 0.5	--
TOTAL PCB	ug/l	< 0.500	< 0.500	< 0.500	< 0.500	< 0.500	< 0.250	--	< 0.5	--
TOXAPHENE	ug/l	--	--	--	--	--	--	--	< 1	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(f)

COMPOUND (by Class)	Units	FBLK Mar.'87	May.'87	Nov.'88	Jan.'89	May.'89	Jul.'89	FBLK1 May.'86	Oct.'92	Jan.'93
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
1,1-DICHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
1,2-DICHLOROPROPANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
1,4-DICHLOROBENZENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
BENZENE	ug/l	--	--	< 0.5	TR	--	--	--	< 0.5	--
BROMOFORM	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
BROMOMETHANE	ug/l	--	--	< 2.0	< 2.0	--	--	--	--	--
CARBON TETRACHLORIDE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
CHLOROBENZENE	ug/l	--	--	< 0.5	< 0.5	--	--	--	< 0.5	--
CHLOROETHANE	ug/l	--	--	< 2.0	< 2.0	--	--	--	--	--
CHLOROFORM	ug/l	--	--	< 1.0	1.47	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	< 2.0	< 2.0	--	--	--	--	--
ETHYLBENZENE	ug/l	--	--	< 0.5	< 0.5	--	--	--	< 0.5	--
M&P-XYLENE	ug/l	--	--	0.77	< 0.5	--	--	--	< 0.5	--
METHYL CHLORIDE	ug/l	--	--	< 2.0	< 2.0	--	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
O-XYLENE	ug/l	--	--	0.51	< 0.5	--	--	--	< 0.5	--
TETRACHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
TOLUENE	ug/l	--	--	0.52	0.61	--	--	--	< 0.5	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 1(g)

COMPOUND (by Class)	Units	FBLK Mar.'87	May.'87	Nov.'88	Jan.'89	May.'89	Jul.'89	FBLK1 May.'86	Oct.'92	Jan.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)										
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	--	--	--	< 1.0	--
TRICHLOROFLUOROMETHANE	ug/l	--	--	< 2.0	< 2.0	--	--	--	--	--
VINYL CHLORIDE	ug/l	--	--	< 2.0	< 2.0	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 2(a)

COMPOUND (by Class)	Units	FBLK2 May.'86	FBLK3 May.'86	Apr.'92	TBLK May.'86	Mar.'87	Nov.'88	Jan.'89	May.'89
ACID EXTRACTABLES									
2,4,6-TRICHLOROPHENOL	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
2,4-DICHLOROPHENOL	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
2,4-DINITROPHENOL	ug/l	< 5.0	< 3.0	--	--	--	--	--	--
2-CHLOROPHENOL	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
2-NITROPHENOL	ug/l	< 3.0	< 5.0	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	< 5.0	< 5.0	--	--	--	--	--	--
4-NITROPHENOL	ug/l	< 5.0	< 5.0	--	--	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	< 5.0	< 5.0	--	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
PHENOL	ug/l	< 3.0	< 3.0	--	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES									
1,2,4-TRICHLOROBENZENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	< 5.0	< 5.0	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
1,4-DICHLOROBENZENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
2,4-DINITROTOLUENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
2,6-DINITROTOLUENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
2-CHLORONAPHTHALENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	< 5.0	< 5.0	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
9H-FLUORENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
ACENAPHTHENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
ACENAPHTHYLENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
ANTHRACENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 2(b)

COMPOUND (by Class)	Units	FBLK2 May.'86	FBLK3 May.'86	Apr.'92	TBLK May.'86	Mar.'87	Nov.'88	Jan.'89	May.'89
BASE/NEUTRAL EXTRACTABLES (cont'd)									
BENZIDINE	ug/l	< 5.0	< 5.0	--	--	--	--	--	--
BENZO(A)ANTHRACENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
BENZO(A)PYRENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	ug/l	< 2.0	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	22.3	14.4	< 0.5	--	--	--	--	--
BUTYL BENZYL PHTHALATE	ug/l	6.3	5.6	--	--	--	--	--	--
CHRYSENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	ug/l	< 1.0	4.0	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
DIETHYL PHTHALATE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
DIMETHYL PHTHALATE	ug/l	3.3	4.9	--	--	--	--	--	--
FLUORANTHENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
HEXACHLOROBUTADIENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
HEXACHLOROETHANE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
ISOPHORONE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	< 3.0	< 3.0	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	ug/l	< 4.0	< 4.0	--	--	--	--	--	--
NAPHTHALENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
NITROBENZENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--
PHENANTHRENE	ug/l	< 1.0	< 1.0	--	--	--	--	--	--

000887

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 2(c)

COMPOUND (by Class)	Units	FBLK2 May.'86	FBLK3 May.'86	Apr.'92	TBLK May.'86	Mar.'87	Nov.'88	Jan.'89	May.'89
BASE/NEUTRAL EXTRACTABLES (cont'd)									
PYRENE	ug/l	< 2.0	< 2.0	--	--	--	--	--	--
METALS									
ALUMINUM	mg/l	--	--	< 0.25	--	--	--	--	--
ARSENIC	mg/l	--	--	< 0.002	--	--	--	--	--
BARIUM	mg/l	--	--	< 0.003	--	--	--	--	--
BERYLLIUM	mg/l	--	--	< 0.003	--	--	--	--	--
BISMUTH	mg/l	--	--	< 0.04	--	--	--	--	--
CADMIUM	mg/l	--	--	< 0.003	--	--	--	--	--
CALCIUM	mg/l	--	--	< 0.1	--	--	--	--	--
CHROMIUM	mg/l	--	--	< 0.005	--	--	--	--	--
COBALT	mg/l	--	--	< 0.005	--	--	--	--	--
COPPER	mg/l	--	--	0.006	--	--	--	--	--
IRON	mg/l	--	--	< 0.005	--	--	--	--	--
LEAD	mg/l	--	--	0.013	--	--	--	--	--
MAGNESIUM	mg/l	--	--	< 0.1	--	--	--	--	--
MANGANESE	mg/l	--	--	< 0.001	--	--	--	--	--
MERCURY	mg/l	--	--	< 0.001	--	--	--	--	--
MOLYBDENUM	mg/l	--	--	< 0.006	--	--	--	--	--
NICKEL	mg/l	--	--	< 0.01	--	--	--	--	--
POTASSIUM	mg/l	--	--	< 1	--	--	--	--	--
SELENIUM	mg/l	--	--	0.003	--	--	--	--	--
SILVER	mg/l	--	--	< 0.01	--	--	--	--	--
SODIUM	mg/l	--	--	< 0.06	--	--	--	--	--
STRONTIUM	mg/l	--	--	< 0.003	--	--	--	--	--
TITANIUM	mg/l	--	--	< 0.003	--	--	--	--	--
TOTAL PHOSPHORUS	mg/l	--	--	< 0.05	--	--	--	--	--
TUNGSTEN	mg/l	--	--	< 0.02	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 2(d)

COMPOUND (by Class)	Units	FBLK2 May.'86	FBLK3 May.'86	Apr.'92	TBLK May.'86	Mar.'87	Nov.'88	Jan.'89	May.'89
METALS (cont'd)									
VANADIUM	mg/l	--	--	< 0.003	--	--	--	--	--
ZINC	mg/l	--	--	< 0.003	--	--	--	--	--
GENERAL CHEMISTRY									
ALKALINITY	mg/l	--	--	1.6	--	--	--	--	--
AMMONIA NITROGEN	mg/l	--	--	< 0.03	--	--	--	--	--
BOD	mg/l	--	--	< 2	--	--	--	--	--
CHLORIDE	mg/l	--	--	0.27	--	--	--	--	--
COD	mg/l	--	--	< 5	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	--	55.0	--	--	--	--	--
FLUORIDE	mg/l	--	--	< 0.10	--	--	--	--	--
HARDNESS	mg/l	--	--	< 0.1	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	--	< 0.06	--	--	--	--	--
PH		--	--	8.08	--	--	--	--	--
PHENOLS	ug/l	--	--	< 1	--	--	--	--	--
SULFATE	mg/l	--	--	< 0.10	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	< 1	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS									
1,1,1-TRICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,1-DICHLOROETHYLENE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	< 2
1,2-DICHLOROBENZENE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,2-DICHLOROETHANE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0

688000

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 2(e)

COMPOUND (by Class)	Units	FBLK2 May.'86	FBLK3 May.'86	Apr.'92	TBLK May.'86	Mar.'87	Nov.'88	Jan.'89	May.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)									
1,2-DICHLOROPROPANE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
1,2-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	< 5
1,3-DICHLOROBENZENE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	--
1,4-DICHLOROBENZENE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	TR	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	--	< 50
BENZENE	ug/l	--	--	< 0.5	< 0.5	< 1.0	< 0.5	TR	--
BIS(CHLOROMETHYL)ETHER	ug/l	--	--	--	--	--	--	--	< 500
BROMOFORM	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
BROMOMETHANE	ug/l	--	--	--	< 2.0	--	< 2.0	< 2.0	--
CARBON TETRACHLORIDE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
CHLOROBENZENE	ug/l	--	--	< 0.5	< 0.5	< 1.0	< 0.5	< 0.5	--
CHLOROETHANE	ug/l	--	--	--	< 2.0	--	< 2.0	< 2.0	--
CHLOROFORM	ug/l	--	--	--	TR	< 2.0	5.01	< 1.0	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	< 1.0	< 1.0	< 1.0
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	< 1.0	--	< 1.0	< 1.0	< 1.0
DIBROMOCHLOROMETHANE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
DICHLOROBROMOMETHANE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	< 2.0	--	< 2.0	< 2.0	< 2.0
ETHYLBENZENE	ug/l	--	--	< 0.5	< 0.5	< 1.0	< 0.5	< 0.5	--
M&P-XYLENE	ug/l	--	--	< 0.5	< 0.5	< 1.0	< 0.5	< 0.5	--
METHYL CHLORIDE	ug/l	--	--	--	< 2.0	--	< 2.0	< 2.0	< 2.0
METHYLENE CHLORIDE	ug/l	--	--	--	TR	< 2.0	< 1.0	2.67	--
O-XYLENE	ug/l	--	--	< 0.5	< 0.5	< 1.0	< 0.5	< 0.5	--
TETRACHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
TOLUENE	ug/l	--	--	0.6	< 0.5	TR	< 0.5	< 0.5	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	< 1.0	< 2.0	< 1.0	< 1.0	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	< 1.0	--	< 1.0	< 1.0	< 1.0
TRICHLOROETHYLENE	ug/l	--	--	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	< 2.0	--	< 2.0	< 2.0	< 2.0

068000

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Leachate Quality Assurance Quality Control Samples

Report 2(f)

COMPOUND (by Class)	Units	FBLK2 May.'86	FBLK3 May.'86	Apr.'92	TBLK May.'86	Mar.'87	Nov.'88	Jan.'89	May.'89
VOLATILE ORGANIC COMPOUNDS (cont'd)									
VINYL CHLORIDE	ug/l	--	--	--	< 2.0	--	< 2.0	< 2.0	< 2.0

000891

LEGEND

J - The associated value is an estimated quantity.

U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

UJ - The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.

-- - The parameter was not analyzed.

ND - The material was analyzed, but not detected above an unstated method detection limit.

TR - Trace level detection.

< - Indicates result less than that shown.

> - Indicates result greater than that shown.

R - The data was not useable.

NS - Insufficient sample.

(a) - Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 1(a)

COMPOUND (by Class)	Units	FBLK May.'88	Aug.'88	Nov.'89	Apr.'90	Aug.'90	FBLK1 Oct.'91	LBLK1 Jul.'92	Mar.'93	Apr.'93
ACID EXTRACTABLES										
2,4,6-TRICHLOROPHENOL	ug/l	< 1	--	--	--	--	--	--	--	--
2,4-DICHLOROPHENOL	ug/l	< 1	--	--	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	ug/l	< 6	--	--	--	--	--	--	--	--
2,4-DINITROPHENOL	ug/l	< 6	--	--	--	--	--	--	--	--
2-CHLOROPHENOL	ug/l	< 1	--	--	--	--	--	--	--	--
2-NITROPHENOL	ug/l	< 2	--	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	< 5	--	--	--	--	--	--	--	--
4-NITROPHENOL	ug/l	< 5	--	--	--	--	--	--	--	--
DI-T-BUTYLMETHYLPHENOL	ug/l	ND	--	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	< 1	--	--	--	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	< 3	--	--	--	--	--	--	--	--
PHENOL	ug/l	< 1	--	--	--	--	--	--	--	--
BASE/NEUTRAL EXTRACTABLES										
1,2,4-TRICHLOROBENZENE	ug/l	< 1	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	< 1	--	--	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	< 1	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	< 1	--	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	ug/l	< 1	--	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	ug/l	< 3	--	--	--	--	--	--	--	--
2,6-DINITROTOLUENE	ug/l	< 3	--	--	--	--	--	--	--	--
2-CHLORONAPHTHALENE	ug/l	< 1	--	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	< 2	--	--	--	--	--	--	--	--
4-BROMOPHENYL ETHER	ug/l	< 1	--	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	< 1	--	--	--	--	--	--	--	--
ACENAPHTHENE	ug/l	< 1	--	--	--	--	--	--	--	--
ACENAPHTHYLENE	ug/l	< 1	--	--	--	--	--	--	--	--
ANTHRACENE	ug/l	< 1	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 1(b)

COMPOUND (by Class)	Units	FBLK May.'88	Aug.'88	Nov.'89	Apr.'90	Aug.'90	FBLK1 Oct.'91	LBLK1 Jul.'92	Mar.'93	Apr.'93
BASE/NEUTRAL EXTRACTABLES (cont'd)										
BENZIDINE	ug/l	< 20	--	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	ug/l	< 1	--	--	--	--	--	--	--	--
BENZO(A)PYRENE	ug/l	< 2	--	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	< 2	--	--	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	ug/l	< 2	--	--	--	--	--	--	--	--
BENZOTHIAZOLE	ug/l	ND	--	--	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	< 1	--	--	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	< 1	--	--	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	< 1	--	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	2.3	--	--	--	--	--	--	< 1.0 U	--
BUTYL BENZYL PHTHALATE	ug/l	< 4	--	--	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	ug/l	2.5	--	--	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	ug/l	< 1	--	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	< 4	--	--	--	--	--	--	--	--
DIETHYL PHTHALATE	ug/l	< 1	--	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	ug/l	< 1	--	--	--	--	--	--	--	--
FLUORANTHENE	ug/l	< 1	--	--	--	--	--	--	--	--
FLUORENE	ug/l	< 1	--	--	--	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	< 1	--	--	--	--	--	--	--	--
HEXACHLOROBUTADIENE	ug/l	< 3	--	--	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	< 5	--	--	--	--	--	--	--	--
HEXACHLOROETHANE	ug/l	< 3	--	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	< 4	--	--	--	--	--	--	--	--
ISOPHORONE	ug/l	< 1	--	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	< 1	--	--	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	ug/l	< 2	--	--	--	--	--	--	--	--
NAPHTHALENE	ug/l	< 1	--	--	--	--	--	--	--	--
NITROBENZENE	ug/l	< 1	--	--	--	--	--	--	--	--
P-CHLOROANILINE	ug/l	ND	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 1(c)

COMPOUND (by Class)	Units	FBLK May.'88	Aug.'88	Nov.'89	Apr.'90	Aug.'90	FBLK1 Oct.'91	LBLK1 Jul.'92	Mar.'93	Apr.'93
BASE/NEUTRAL EXTRACTABLES (cont'd)										
PHENANTHRENE	ug/l	< 1	--	--	--	--	--	--	--	--
PYRENE	ug/l	< 1	--	--	--	--	--	--	--	--
BIOLOGICAL TESTING										
FAECAL COLIFORM	/100ml	< 1	--	< 2	< 2	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	< 1	--	0	0	--	--	--	--	--
TOTAL COLIFORMS	/100ml	< 1	--	< 4	< 4	--	--	--	--	--
GENERAL CHEMISTRY										
ALKALINITY	mg/l	< 2.0	< 2.0	< 2.0	< 1	--	--	--	1.9	--
AMMONIA NITROGEN	mg/l	< 0.02	0.30	< 0.03	UJ< 0.03	--	--	--	--	--
CHLORIDE	mg/l	< 1.0	1.1	< 1.0	< 1.0	--	--	--	< 1	--
CONDUCTIVITY	umhos/cm	--	--	--	9.25	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	0.17	0.59	< 0.06	UJ< 0.06	--	--	--	--	--
PH		--	--	--	7.25	--	--	--	--	--
PHENOLS	ug/l	< 1	7	--	1	--	--	--	--	--
SULFATE	mg/l	3.1	< 1.0	< 1.0	< 1	--	--	--	< 0.5	--
PESTICIDES AND PCB's										
4,4-DDD	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDE	ug/l	--	--	--	--	--	--	--	--	< 0.020
4,4-DDT	ug/l	--	--	--	--	--	--	--	--	< 0.020
ALDRIN	ug/l	--	--	--	--	--	--	--	--	< 0.020
ALPHA-BHC	ug/l	--	--	--	--	--	--	--	--	< 0.020
ALPHA-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	< 0.020
ALPHA-ENDOSULFAN	ug/l	--	--	--	--	--	--	--	--	< 0.020

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 1(d)

COMPOUND (by Class)	Units	FBLK May.'88	Aug.'88	Nov.'89	Apr.'90	Aug.'90	FBLK1 Oct.'91	LBLK1 Jul.'92	Mar.'93	Apr.'93
PESTICIDES AND PCB's (cont'd)										
BETA-BHC	ug/l	--	--	--	--	--	--	--	--	< 0.020
BETA-ENDOSULFAN	ug/l	--	--	--	--	--	--	--	--	< 0.020
DELTA-BHC	ug/l	--	--	--	--	--	--	--	--	< 0.020
DIELDRIN	ug/l	--	--	--	--	--	--	--	--	< 0.020
ENDOSULFAN SULFATE	ug/l	--	--	--	--	--	--	--	--	< 0.020
ENDRIN	ug/l	--	--	--	--	--	--	--	--	< 0.020
ENDRIN ALDEHYDE	ug/l	--	--	--	--	--	--	--	--	< 0.020
GAMMA-BHC	ug/l	--	--	--	--	--	--	--	--	< 0.020
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	< 0.020
HEPTACHLOR	ug/l	--	--	--	--	--	--	--	--	< 0.020
HEPTACHLOR EPOXIDE	ug/l	--	--	--	--	--	--	--	--	< 0.020
TOTAL PCB	ug/l	--	--	--	--	--	--	--	--	< 0.500
TOXAPHENE	ug/l	--	--	--	--	--	--	--	--	< 0.500
VOLATILE ORGANIC COMPOUNDS										
1,1,1-TRICHLOROETHANE	ug/l	< 2	--	< 0.50	--	< 1	< 1.0	< 1.0	--	--
1,1,2,2-TETRACHLOROETHANE	ug/l	< 2	--	< 0.33	--	< 2	< 2.0	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	< 1	--	< 0.21	--	< 2	< 2.0	--	--	--
1,1-DICHLOROETHANE	ug/l	< 1	--	< 0.20	--	< 1	< 1.0	< 1.0	--	--
1,1-DICHLOROETHYLENE	ug/l	< 1	--	< 0.32	--	< 1	< 1.0	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	< 0.50	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	< 0.18	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	< 1	--	< 0.24	--	< 1	< 1.0	--	--	--
1,2-DICHLOROETHANE	ug/l	< 2	--	< 0.82	--	< 1	< 1.0	< 1.0	--	--
1,2-DICHLOROPROPANE	ug/l	< 1	--	< 0.20	--	< 1	< 1.0	--	--	--
1,3-DICHLOROBENZENE	ug/l	< 1	--	< 0.23	--	< 1	< 1.0	< 1.0	--	--
1,4-DICHLOROBENZENE	ug/l	< 1	--	< 0.22	--	< 1	< 1.0	< 1.0	--	--
2-CHLOROETHYLVINYLETHER	ug/l	< 10	--	--	--	< 10	< 10	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 1(e)

COMPOUND (by Class)	Units	FBLK May.'88	Aug.'88	Nov.'89	Apr.'90	Aug.'90	FBLK1 Oct.'91	LBLK1 Jul.'92	Mar.'93	Apr.'93
VOLATILE ORGANIC COMPOUNDS (cont'd)										
A-METHYLSTYRENE	ug/l	< 1	--	--	--	--	--	--	--	--
BENZENE	ug/l	< 1	--	0.26	--	2.1	< 0.5	< 0.5	--	--
BROMOFORM	ug/l	< 2	--	< 0.49	--	< 2	< 2.0	--	--	--
BROMOMETHANE	ug/l	< 16	--	< 0.83	--	< 2	< 2.0	--	--	--
CARBON TETRACHLORIDE	ug/l	< 2	--	< 0.93	--	< 1	< 1.0	--	--	--
CHLOROBENZENE	ug/l	< 1	--	< 0.27	--	< 0.5	< 0.5	< 0.5	--	--
CHLOROETHANE	ug/l	< 10	--	< 0.50	--	< 2	< 2.0	--	--	--
CHLOROFORM	ug/l	< 1	--	0.43	--	< 1	< 1.0	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	< 1	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	< 1	--	< 0.27	--	< 1	< 1.0	--	--	--
DIBROMOCHLOROMETHANE	ug/l	< 1	--	< 0.24	--	< 1	< 1.0	--	--	--
DICHLOROBROMOMETHANE	ug/l	< 1	--	< 0.50	--	< 2	< 2.0	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	< 0.50	--	--	--	--	--	--
ETHYLBENZENE	ug/l	< 1	--	< 0.24	--	< 0.5	< 0.5	< 0.5	--	--
M&P-XYLENE	ug/l	< 2	--	0.51	--	--	--	< 0.5	--	--
MESITYLENE	ug/l	< 1	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	< 50	--	< 0.65	--	< 2	< 2.0	--	--	--
METHYLENE CHLORIDE	ug/l	12	--	58	--	< 1	1.4	--	--	--
METHYLSTYRENE ISOMERS	ug/l	< 1	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	< 1	--	< 0.19	--	--	--	< 0.5	--	--
OTHER AROMATIC COMPOUNDS	ug/l	< 1	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	2	--	< 0.21	--	< 1	< 1.0	< 1.0	--	--
TOLUENE	ug/l	< 2	--	1.58	--	6.1	< 0.5	< 0.5	--	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 1	--	< 0.20	--	< 1	< 1.0	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	< 1	< 1.0	--	--	--
TRICHLOROETHYLENE	ug/l	< 1	--	< 0.92	--	< 1	< 1.0	< 1.0	--	--
TRICHLOROFLUOROMETHANE	ug/l	< 2	--	2.6	--	< 2	< 2.0	--	--	--
VINYL CHLORIDE	ug/l	< 12	--	< 0.74	--	< 2	< 2.0	--	--	--

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 1(f)

COMPOUND (by Class)	Units	FBLK May.'88	Aug.'88	Nov.'89	Apr.'90	Aug.'90	FBLK1 Oct.'91	LBLK1 Jul.'92	Mar.'93	Apr.'93

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 2(a)

COMPOUND (by Class)	Units	TBLK May.'86	TBLK Apr.'90	TBLK1 May.'88	TBLK1 Aug.'88	TBLK1 Jul.'92	TBLK2 May.'88	TBLK2 Aug.'88
GENERAL CHEMISTRY								
ALKALINITY	mg/l	--	< 1	--	--	--	--	--
AMMONIA NITROGEN	mg/l	--	< 0.03	--	--	--	--	--
CHLORIDE	mg/l	--	28.0	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	< 0.06	--	--	--	--	--
PHENOLS	ug/l	--	< 1	--	--	--	--	--
VOLATILE ORGANIC COMPOUNDS								
1,1,1-TRICHLOROETHANE	ug/l	--	--	< 2	< 1.0	< 1.0	< 2	< 1.0
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	< 2	< 1.0	--	< 2	< 1.0
1,1,2-TRICHLOROETHANE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
1,1-DICHLOROETHANE	ug/l	--	--	< 1	< 1.0	< 1.0	< 1	< 1.0
1,1-DICHLOROETHYLENE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
1,2-DICHLOROBENZENE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
1,2-DICHLOROETHANE	ug/l	--	--	< 2	< 1.0	< 1.0	< 2	< 1.0
1,2-DICHLOROPROPANE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
1,2-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	< 5
1,3-DICHLOROBENZENE	ug/l	< 1.0	--	< 1	< 1.0	< 1.0	< 1	< 1.0
1,4-DICHLOROBENZENE	ug/l	< 1.0	--	< 1	< 1.0	< 1.0	< 1	< 1.0
2-CHLOROETHYLVINYLETHER	ug/l	--	--	< 10	--	--	< 10	< 50
A-METHYLSTYRENE	ug/l	--	--	< 1	--	--	< 1	--
ACROLEIN	ug/l	--	--	--	--	--	--	< 50
ACRYLONITRILE	ug/l	--	--	--	--	--	--	< 50
BENZENE	ug/l	0.55	--	< 1	< 0.5	< 0.5	< 1	< 0.5
BIS(CHLOROMETHYL)ETHER	ug/l	--	--	--	--	--	--	< 500
BROMOFORM	ug/l	--	--	< 2	< 1.0	--	< 2	< 1.0
BROMOMETHANE	ug/l	< 2.0	--	< 16	< 2.0	--	< 16	< 2.0
CARBON TETRACHLORIDE	ug/l	--	--	< 2	< 1.0	--	< 2	< 1.0
CHLOROBENZENE	ug/l	< 0.5	--	< 1	< 0.5	< 0.5	< 1	< 0.5

Bayview Landfill Site
Burlington, Ontario

Analytical Results
Quality Assurance Quality Control Samples

Report 2(b)

COMPOUND (by Class)	Units	TBLK May.'86	TBLK Apr.'90	TBLK1 May.'88	TBLK1 Aug.'88	TBLK1 Jul.'92	TBLK2 May.'88	TBLK2 Aug.'88
VOLATILE ORGANIC COMPOUNDS (cont'd)								
CHLOROETHANE	ug/l	< 2.0	--	< 10	< 2.0	--	< 10	< 2.0
CHLOROFORM	ug/l	< 1.0	--	< 1	4.51	--	< 1	5.52
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	< 1.0	--	--	< 1.0
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
DIBROMOCHLOROMETHANE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
DICHLOROBROMOMETHANE	ug/l	--	--	< 1	< 1.0	--	< 1	< 1.0
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	< 2.0	--	--	< 2.0
ETHYLBENZENE	ug/l	< 0.5	--	< 1	< 0.5	< 0.5	< 1	< 0.5
M&P-XYLENE	ug/l	< 0.5	--	< 2	< 0.5	< 0.5	< 2	< 0.5
MESITYLENE	ug/l	--	--	< 1	--	--	< 1	--
METHYL CHLORIDE	ug/l	4.87	--	< 50	< 2.0	--	< 50	< 2.0
METHYLENE CHLORIDE	ug/l	--	--	13	< 1.0	--	11	< 1.0
METHYLSTYRENE ISOMERS	ug/l	--	--	< 1	--	--	< 1	--
O-XYLENE	ug/l	< 0.5	--	< 1	< 0.5	< 0.5	< 1	< 0.5
OTHER AROMATIC COMPOUNDS	ug/l	--	--	< 1	--	--	< 1	--
TETRACHLOROETHYLENE	ug/l	--	--	< 1	< 1.0	< 1.0	< 1	< 1.0
TOLUENE	ug/l	< 0.5	--	< 2	< 0.5	< 0.5	< 2	< 0.5
TRANS-1,2-DICHLOROETHYLENE	ug/l	< 1.0	--	< 1	< 1.0	--	< 1	< 1.0
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	< 1	< 1.0	--	--	< 1.0
TRICHLOROETHYLENE	ug/l	--	--	< 1	< 1.0	< 1.0	< 1	< 1.0
TRICHLOROFLUOROMETHANE	ug/l	--	--	< 2	< 2.0	--	< 2	< 2.0
VINYL CHLORIDE	ug/l	--	--	< 12	< 2.0	--	< 12	< 2.0

LEGEND

J - The associated value is an estimated quantity.

U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

UJ - The material was analyzed for, but not detected. The associated value is an estimate and may be inaccurate or imprecise.

-- - The parameter was not analyzed.

ND - The material was analyzed, but not detected above an unstated method detection limit.

TR - Trace level detection.

< - Indicates result less than that shown.

> - Indicates result greater than that shown.

R - The data was not useable.

NS - Insufficient sample.

(a) - Indicates units were /50ml rather than that shown.

APPENDIX H

1994 ANALYTICAL ASSESSMENT AND VALIDATION REPORTS

MEMO

TO: Peter Hayes REFERENCE NO.: 1354-30

FROM: Rob Toth/dm DATE: February 7, 1995

RE: **Bayview Park Landfill Site, Burlington, Ontario**
Data Validation for Water Samples Collected April 19, 20 and July 7, 1994

1.0 OVERVIEW

The following memo details an assessment and validation of analytical results obtained from CRA Analytical Services Division (CAS) and Novamann (Ontario) Limited (Novamann) for water samples collected on April 19 and 20, 1994 and July 7, 1994 from the Bayview Park Landfill Site in Burlington, Ontario. All analytical data were assessed and qualified in accordance with protocols established in the USEPA documents "USEPA Contract Laboratory Program National Functional Guidelines for Organic/Inorganic data Review, 1993/1994," (the "Guidelines"). Samples were submitted to CAS and Novamann for the analyses summarized below.

Report ID	*Sampling Date*	*Investigative Parameter*	*Field Samples*	*Field Blanks*	*Duplicates*	*Total*
9404000072 (Novamann)	04-19/20-94	VOCs[1]	12	2	2	16
9404000072 (Novamann)	04-19/20-94	phthalate[2]	1	1	0	2
9404000072 (Novamann)	04-19/20-94	carbaryl	1	1	0	2
9404000072 (Novamann)	04-19/20-94	OC pest/PCB[3]	1	1	0	2
9404000072 (Novamann)	04-19/20-94	OP pesticide[4]	1	1	0	2
941519 (Novamann)	04-19/20-94	metals[5]	1	1	0	2
941519 (Novamann)	04-19/20-94	total cyanide	1	1	0	2
941519 (Novamann)	04-19/20-94	coliforms	9	1	1	11
1354-1 (CAS)	04-19/20-94	general chemistry I[6]	18	3	3	24
1354-1 (CAS)	04-19/20-94	sulphate	18	3	3	24
1354-1 (CAS)	04-19/20-94	general chemistry II[7]	18	3	3	24

---

[1] VOCs - volatile organic compounds

[2] phthalate - bis(2-ethylhexyl)phthalate

[3] OC pest/PCB - organochloro pesticides/polychlorinated biphenyls

[4] OP pesticide - organophospho pesticicdes (diazinon, ethyl parathion and methyl parathion)

[5] metals = molybdenum, zinc, lead, bismuth, cadmium, cobalt, nickel, barium, iron, manganese, chromium, vanadium, aluminum, copper, silver, titanium, antimony, mercury, selenium, arsenic, tin

[6] general chemistry I = alkalinity, chloride, TKN (total kjeldahl nitrogen), ammonia, total phenols

[7] general chemistry II = hardness, BOD, COD, fluoride, total phosphorus, TSS (total suspended solids)

Report ID	Sampling Date	Investigative Parameter	Field Samples	Field Blanks	Duplicates	Total
9407000025 (Novamann)	07-07-94	VOCs	13	2	2	17
942835 (Novamann)	07-07-94	coliforms	10	1	0	11
1354-2 (CAS)	07-07-94	general chemistry I	16	3	3	22
1354-2 (CAS)	07-07-94	sulphate	1	0	0	1

2.0 SAMPLE HOLDING TIMES[1]

By comparing the sampling date of all samples with the reported date of extraction or analysis, the holding time is determined. The maximum holding time is not to be exceeded as this is the maximum time allowed for the sample to be held before initiation of sample analyses; otherwise, the sample results are no longer considered accurate. Table 1 summarizes the applicable holding times.

CAS and Novamann reported all analyses dates for all sampling events and all analyses were completed prior to the expiration of prescribed holding times; therefore, qualifications were not necessary.

3.0 LABORATORY QA/QC

3.1 Laboratory Blanks

The assessment of laboratory blank analyses is conducted to determine the existence and magnitude of contamination problems occurring in the laboratory.

CAS analyzed laboratory blanks for all parameters, for all sampling events and they were found to be non-detect; therefore, qualifications were not necessary.

Novamann report # 941519 (samples collected April 19/20, 1994) indicated that laboratory blanks contained detectable levels of zinc (0.006 mg/L), cadmium (0.0002 mg/L), iron (0.012 mg/L), copper (0.009 mg/L) and tin (0.023 mg/L). As a result of these detectable concentrations of target parameters, qualifications were necessary and can be found summarized in Table 2.

3.2 Surrogate Recovery

Laboratory performance on individual samples is established by spiking activities. Samples for VOC analyses were spiked with toluene-D_8, 4-bromofluorobenzene and 1,2-dichloroethane-D_4. Control limits for these compounds are 82-119%, 76-118% and 69-134% respectively. Samples for PAH analyses were spiked with 2-fluorobiphenyl, terphenyl-D_{14}, nitrobenzene-D_5 and naphthalene-D_8. Control limits for these compounds are 0-130%. Samples for pesticide analyses were spiked with decachlorobiphenyl. The control limit for decachlorobiphenyl is 40-130%. Samples for base neutral

[1] Holding Time: The maximum time, beginning with sample collection, which can be allowed to elapse before extracting or analyzing a sample.

extractables, carbaryl and OP pesticides were spiked with azobenzene. The control limit for azobenzene is 49-120%.

All of the samples for Novamann report #'s 9404000072 (samples collected April 19/20, 1994) and 9407000025 (samples collected July 7, 1994)) showed recoveries within the laboratory control limits; therefore, qualifications were not necessary.

3.3 Method Spike

A method spike sample is an aliquot of reagent-free water which has been spiked with the compounds of interest and is analyzed to ensure that the methodology and instrumentation are in control.

It is noted that method spikes were not performed on the samples submitted to CAS.

Method spikes were performed on all samples for Novamann report #'s 941519 and 9404000072 (samples collected April 19/20, 1994) and 9407000025 (samples collected July 7, 1994). All samples were found to be within acceptable limits with the exception of aldrin (31%); therefore, qualifications were necessary and can be found in Table 2.

3.4 Matrix Spike

A matrix spike is an actual field sample which is spiked with compounds of interest in the laboratory. Matrix spike sample analyses provide information with respect to the effect of each sample matrix on the extraction and measurement methodologies.

It is noted that matrix spikes were not performed on the samples submitted to CAS.

Matrix spike recoveries for metals in Novamann report # 941519 (samples collected April 19/20, 1994) were found to be within acceptable limits (60-140%); therefore, qualifications were not necessary.

3.5 Trip Blank

A trip blank is an aliquot of reagent-free water that is transported to the sampling site and returned to the laboratory without being opened. Trip blanks are analyzed to check sample contamination originating from sample transport, shipping and from site conditions. One trip blank was analyzed by Novamann for all VOC's in Novamann report # 9404000072 (samples collected April 19/20, 1994). All VOCs were found to be non-detect; therefore, qualifications were not necessary.

4.0 FIELD QA/QC

4.1 Field Blanks

The assessment of field blank analyses is conducted to determine the existence and magnitude of contamination problems occurring from both field handling and laboratory procedures. The assessment of field blank results is similar to the process already described for laboratory blanks in Section 3.1.

Three field blanks were submitted for CAS report # 1354-1 (samples collected April 19/20, 1994) and two for CAS report # 1354-2 (samples collected July 7, 1994) to be analyzed for all parameters and were found to be non-detect in all parameters; therefore, qualifications were not necessary.

Two field blanks were submitted for Novamann report # 9404000072 (samples collected April 19/20, 1994) and one for Novamann report # 9407000025 (samples collected July 7,1994) to be analyzed for all parameters and were found to be non-detect in all parameters; therefore, qualifications were not necessary.

One field blank was submitted for Novamann report # 941519 (samples collected April 19/20, 1994) and was found to contain zinc (0.024 mg/L), lead (0.009 mg/L), nickel (0.065 mg/L), iron (0.032 mg/L), aluminum (0.058 mg/L), copper (0.02 mg/L) and tin (0.052 mg/L). As a result of these detectable concentrations of target parameters, qualifications were necessary and can be found summarized in Table 2.

4.2 Field Duplicates

As a check on the combined laboratory and field sampling precision, three sets of duplicate samples (001/005 (HC7-2) , 009/011 (PW3) and 015/017 (SW6-87)) were submitted by CRA and analyzed for CAS report # 1354-1 (samples collected April 19/20, 1994) and for Novamann report # 9404000072 (samples collected April 19/20, 1994) and three sets of duplicate samples (001/005 (SW7-87), 002/006 (HC4-2) and 011/021 (PW1)) were analyzed for CAS report # 1354-2 (samples collected July 7, 1994) and for Novamann report # 9407000025 (samples collected July 7, 1994) for all parameters. A relative percent difference[1] (RPD) was calculated to assess the data in terms of reproducibility.

---

[1] Relative percent difference = RPD = $\left|\frac{X_1 - X_2}{\bar{X}}\right| \times 100$

where X_1 - initial sample result
X_2 - duplicate sample result
$\bar{X}$ - mean of duplicate sample results

All field duplicates had acceptable RPD values (<100%) with the exception of duplicates 001/005 (HC7-2), CAS report # 1354-1 (samples collected April 19/20, 1994), for TKN (135%) and ammonia (180%) and 015/017 (SW6-87) for TKN (111%) and ammonia (173%). As a result qualifications were necessary and can be found summarized in Tables 2.

5.0 SUMMARY

Qualifications were recommended as a result of lab-blank-detected compounds for zinc, cadmium, iron, copper and tin for Novamann report # 941519 (samples collected April 19/20, 1994).

Qualifications were recommended as a result of low method spike recovery for aldrin for Novamann report # 9404000072 (samples collected April 19/20, 1994).

Qualifications were recommended as a result of field-blank-detected compounds for zinc, lead, nickel and aluminum for Novamann report # 941519 (samples collected April 19/20, 1994).

Qualifications were recommended as a result of poor RPD results for field duplicate samples 001/005 (HC7-2) and 015/017 (SW6-87) for CAS report # 1354-1 (samples collected April 19/20, 1994).

All qualifications can be found summarized in Table 2.

The data supplied by Novamann and CAS is acceptable and may be used with the qualifications noted herein.

TABLE 1
SUMMARY OF HOLDING TIMES
Project 1354-30 - Bayview Park Landfill Site

Parameter	*Holding Time*
VOC	7 days
metals	30 days
chloride	28 days
fluoride	28 days
alkalinity	14 days
hardness	30 days
phenol	30 days
total phosphorus	30 days
total cyanide	7 days
TSS	7 days
TKN	10 days
ammonia	10 days
COD	30 days
BOD	4 days
sulphate	28 days
OC pesticides	7 days
PCB	30 days
bis(2-ethylhexyl)phthalate	30 days
carbaryl	7 days
diazinon	7 days
ethyl parathion	7 days
methyl parathion	7 days

TABLE 2
SUMMARY OF QUALIFICATIONS
Project 1354-30 - Bayview Park Landfill Site

Lab	*Report ID 94-*	*Sample Date*	*Sample ID*	*Location*	*Parameter*	*Result (mg/L)*	*Qualifier*	*Reference*
Novamann	1519	041994	024	field blank	zinc	0.024	U	A(sec 3.1)
Novamann	1519	041994	024	field blank	iron	0.032	U	A(sec 3.1)
Novamann	1519	041994	024	field blank	copper	0.020	U	A(sec 3.1)
Novamann	1519	041994	024	field blank	tin	0.052	U	A(sec 3.1)
Novamann	04000072	041994	023	MH15	aldrin	<0.003	UJ	B(sec 3.3)
Novamann	04000072	041994	024	field blank	aldrin	<0.003	UJ	B(sec 3.3)
Novamann	1519	041994	023	MH15	zinc	0.111	U	C(sec 4.1)
Novamann	1519	041994	023	MH15	lead	0.022	U	C(sec 4.1)
Novamann	1519	041994	023	MH15	nickel	0.042	U	C(sec 4.1)
Novamann	1519	041994	023	MH15	aluminum	0.18	U	C(sec 4.1)

Notes:

UJ = The analyte was not detected above the reported quantification limit; however, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

U = The analyte was positively identified but not detected above the sample quantitation limit.

A = Qualification due to lab blank contamination.

B = Qualification due to low method spike recovery.

C = Qualification due to field blank contamination.

TABLE 2 (continued)
SUMMARY OF QUALIFICATIONS
Project 1354-30 - Bayview Park Landfill Site

Lab	*Report ID*	*Sample Date*	*Sample ID*	*Location*	*Parameter*	*Result*	*Qualifier (mg/L)*	*Reference*
CAS	1354-1	041994	001	HC7-2	TKN	0.18	J	D(sec 4.2)
CAS	1354-1	041994	005	HC7-2	TKN	0.92	J	D(sec 4.2)
CAS	1354-1	042094	015	SW6-87	TKN	0.35	J	D(sec 4.2)
CAS	1354-1	042094	017	SW6-87	TKN	<0.1	UJ	D(sec 4.2)
CAS	1354-1	041994	001	HC7-2	ammonia	<0.01	UJ	D(sec 4.2)
CAS	1354-1	041994	005	HC7-2	ammonia	0.19	J	D(sec 4.2)
CAS	1354-1	042094	015	SW6-87	ammonia	0.14	J	D(sec 4.2)
CAS	1354-1	042094	017	SW6-87	ammonia	<0.01	UJ	D(sec 4.2)

Notes:

UJ = The analyte was not detected above the reported quantification limit; however, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

J = The associated numerical value is an estimated quantity.

D = Qualification due to poor RPD on field duplicates.

1995 MONITORING REPORT

Bayview Park Landfill Site
Burlington, Ontario

MARCH 1996
REF. NO. 1354 (51)
This report is printed on recycled paper.

CONESTOGA-ROVERS & ASSOCIATES

CRA
Consulting Engineers

CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive
Waterloo, Ontario, Canada N2V 1C2
(519) 884-0510 Colby Office Fax: (519) 884-0525
(519) 725-3313 Bathurst Office (519) 725-1394

March 1, 1996

Reference No. 1354

John Budz, P.Eng.
District Officer
Halton-Peel District
Ministry of the Environment and Energy
1235 Trafalgar Road, Suite 401
Oakville, Ontario
L6H 3P1

Dear Mr. Budz:

Re: 1995 Monitoring Report
Bayview Park Landfill Site

Please find enclosed two copies of the above noted report. This report presents and interprets the current and historical surface water and groundwater quality data collected as part of the annual monitoring program.

The 1996 monitoring specifications for the Site will be revised to reflect the rationalized program for the Site. MOEE groundwater and surface water evaluators have provided technical concurrence with respect to the revised program.

Should you have any questions on the above, please do not hesitate to contact our office.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Peter Hayes, B.Sc.
PH/af/7
Distribution: City of Burlington, Phil Verticchio (1 copy)
City of Burlington, Doug Brown (1 copy)
Gerritt Buitenhaus, Region of Halton
MOEE Oakville (2 copies)
CRA (2 copies)

TABLE OF CONTENTS

Page

1.0 INTRODUCTION 1
1.1 HISTORICAL PERSPECTIVE 1
1.2 HISTORICAL MONITORING PROGRAMS 2
1.3 CURRENT SITUATION 6
1.4 HYDROGEOLOGIC BACKGROUND 8

2.0 1995 MONITORING PROGRAM 10
2.1 SURFACE WATER MONITORING 10
2.2 LEACHATE WELL MONITORING 11
2.3 LEACHATE COLLECTION SYSTEM MONITORING 11
2.4 OFF-SITE GROUNDWATER MONITORING 12
2.5 LEACHATE SEEP INSPECTIONS 13

3.0 LEACHATE COLLECTION SYSTEM RESULTS 14
3.1 LEACHATE WELL LEVELS 14
3.2 LEACHATE SEEP INSPECTIONS 15
3.3 PERFORMANCE OF THE LEACHATE/SHALLOW GROUNDWATER COLLECTION SYSTEM 17

4.0 ANALYTICAL RESULTS 19
4.1 QUALITY ASSURANCE/QUALITY CONTROL PROGRAM 19
4.2 SURFACE WATER 21
4.2.1 General Chemistry 23
4.2.2 Volatile Priority Pollutant Sampling 30
4.2.3 Summary 31
4.3 LEACHATE/SHALLOW GROUNDWATER COLLECTION SYSTEM MONITORING 32
4.3.1 Metals and General Chemistry - Leachate 32
4.3.2 Priority Pollutants - Leachate 33
4.4 OFF-SITE GROUNDWATER MONITORING 34
4.4.1 Introduction 34
4.4.2 General Chemistry 35
4.4.3 VOCs in Groundwater 36

5.0 CONCLUSIONS AND RECOMMENDATIONS 37
5.1 CONCLUSIONS 37
5.2 RECOMMENDATIONS 38

REFERENCES 39

LIST OF FIGURES

		Following Report
FIGURE 1.1	SITE LOCATION	
FIGURE 2.1	LEACHATE AND SURFACE WATER MONITORING LOCATIONS	
FIGURE 2.2	ALDERSHOT SURFACE WATER SAMPLING LOCATION	
FIGURE 2.3	OFF-SITE GROUNDWATER MONITORING LOCATIONS	
FIGURE 3.1	LEACHATE ELEVATIONS	
FIGURE 3.2	JULY 1995 LEACHATE LEVELS	
FIGURE 3.3	LEACHATE SEEP INSPECTION LOCATIONS	

LIST OF TABLES

		Following Report
TABLE 2.1	HAMILTON REGION PRECIPITATION DATA FOR 1995	
TABLE 3.1	LEACHATE ELEVATIONS	
TABLE 3.2	SUMMARY OF LEACHATE DISCHARGE FLOW TO THE REGIONAL SANITARY SEWER	
TABLE 3.3	HISTORICAL LEACHATE DISCHARGE FLOW TO THE REGIONAL SANITARY SEWER	
TABLE 4.1	SURFACE WATER QUALITY, BACKGROUND	
TABLE 4.2	SURFACE WATER QUALITY AT HISTORICAL LEACHATE SEEP LOCATIONS	
TABLE 4.3	SURFACE WATER QUALITY, EAST OF KING ROAD	
TABLE 4.4	SURFACE WATER QUALITY, KING ROAD AND NORTH SERVICE ROAD	
TABLE 4.5	SURFACE WATER QUALITY, NORTH SERVICE ROAD	
TABLE 4.6	SURFACE WATER QUALITY, ALDERSHOT	
TABLE 4.7	SURFACE WATER QUALITY COMPARISON (APRIL 1995)	
TABLE 4.8	SURFACE WATER QUALITY COMPARISON (NOVEMBER 1995)	
TABLE 4.9	SUMMARY OF DETECTED OCCURRENCES OF METALS, LEACHATE COLLECTION SYSTEM	
TABLE 4.10	SUMMARY OF DETECTED OCCURRENCES OF GENERAL CHEMISTRY, LEACHATE COLLECTION SYSTEM	
TABLE 4.11	SUMMARY OF PRIORITY POLLUTANTS, LEACHATE COLLECTION SYSTEM	
TABLE 4.12	OFF-SITE OBSERVATION WELLS MONITORED	

LIST OF TABLES

		Following Report
TABLE 4.13	GENERAL CHEMISTRY OF OFF-SITE PUMPING WELLS	
TABLE 4.14	GENERAL CHEMISTRY OF OFF-SITE OBSERVATION WELLS	

LIST OF APPENDICES

APPENDIX A CERTIFICATE OF APPROVAL

APPENDIX B CORRESPONDENCE BETWEEN MOEE AND CRA
RE: ENVIRONMENTAL PERFORMANCE REPORT (1994);
1994 MONITORING REPORT; AND
AMENDMENT TO CERTIFICATE OF APPROVAL

APPENDIX C STRATIGRAPHIC AND INSTRUMENTATION LOGS

APPENDIX D 1995 MONITORING PROGRAM

APPENDIX E LEACHATE DISCHARGE FLOW REPORTS FOR 1995

APPENDIX F LEACHATE SEEP INSPECTION SUMMARY REPORTS

APPENDIX G DATA BASE

APPENDIX H 1995 ANALYTICAL ASSESSMENT AND VALIDATION REPORTS

APPENDIX I 1996 MONITORING PROGRAM

1.0 INTRODUCTION

1.1 HISTORICAL PERSPECTIVE

The Bayview Park Landfill Site (Site) is located on the west side of King Road north of Highway 403 in the City of Burlington (COB), as shown on Figure 1.1. The Site was operated as a landfill by the COB from 1957 to 1972. In 1972, the Site was closed under Ministry of the Environment and Energy (MOEE) Provisional Certificate of Approval No. 210103. The Site is currently operated by the COB as a park facility.

From 1979 to 1985, the MOEE performed Site inspections which included the collection of samples for chemical analysis from leachate seeps around the Site and the upper reaches of Indian Creek. The MOEE's sampling results indicated levels greater than surface water objectives for coliforms and heavy metals, and low levels of chlorinated organic compounds (including PCBs). The sampling results also indicated that the leachate seeps had impacted the water quality in the creek.

In a letter dated May 24, 1985, the MOEE requested that COB respond to the observed leachate seeps and apparent Indian Creek contamination. On May 30, 1985, COB requested that Conestoga-Rovers & Associates (CRA) investigate this issue. The results of this investigation were summarized in a report entitled "Bayview Park Landfill/Indian Creek Contamination Investigation, City of Burlington" dated July 1985. This investigation verified the presence of leachate seeps and contaminated groundwater emanating from the Site and impacting surface water. The report identified a need for the implementation of leachate seepage control measures, and a monitoring program that would evaluate the impact of any control measures installed at the Bayview Park Landfill Site.

In a letter to COB dated October 2, 1985 from B.A. Singh, P. Eng., the MOEE requested:

> *"A comprehensive monitoring program assessing the impacts and recommending controls for gas and leachate both off site and on site is required. We ask that you submit terms of*

reference for this program for approval on or before November 15, 1985."

On behalf of COB, CRA prepared a draft "Terms of Reference 1986 Monitoring Program". In November 1985, this report was submitted to the MOEE for comment. CRA then revised and implemented the 1986 monitoring program to reflect the general intent of the MOEE comments.

Concurrent to the above, CRA designed a leachate collection system (LCS) to control leachate migration. The LCS was approved under MOEE Certificate of Approval (C of A) No. 3-0819-86-007 (Appendix A) dated July 16, 1986. The LCS was constructed in 1986-1987.

On July 16, 1986, the MOEE revoked condition No. 1 of the Provisional C of A No. 210103 dated October 11, 1973 and replaced it with four new conditions. Conditions 1 to 3 dealt specifically with the construction of the LCS. Condition 4 reads as follows:

"The City shall carry out the monitoring and inspection program as approved by the Regional Director with such modification as may be approved from time to time by the Regional Director. On or before March 1st of each year, the City shall file a report with the Regional Director containing an analysis and evaluation of the monitoring and inspection program for the previous year."

Monitoring has been undertaken since 1986 and eight annual monitoring reports have been submitted to the Director as per Condition 4 and are listed within References provided within this report.

1.2 HISTORICAL MONITORING PROGRAMS

The 1986 monitoring program was prepared to evaluate the present environmental impact of the Bayview Landfill Site on surface water, and to provide a basis for evaluating the effectiveness of the LCS. The program included: landfill gas monitoring, leachate levels, leachate seep

inspections, and the sampling of ten surface water locations on a quarterly basis for general chemistry. In addition, ten surface water and sediment samples were sampled on an annual basis for priority pollutant analysis.

Groundwater monitoring was not conducted in 1986 in order that a comprehensive review could be undertaken of the significant groundwater data base that had been developed for the adjacent National Sewer Pipe (NSP) lands to the southeast (which was designated as the proposed Halton Regional Landfill Site F). This comprehensive review of the groundwater database was undertaken as part of the 1986 monitoring program.

Due to the nature of the underlying near surface fractured shale bedrock and the natural poor water quality (i.e., very high chlorides, sulphate, total dissolved solids) it was generally stated that it may not be possible to delineate the extent of groundwater contamination. However, it was ultimately determined that through the presence of organic nitrogen or synthetic volatile organic compounds (VOCs) an approximation of the downgradient extent of contamination be examined.

As a result of the database review, a groundwater component to the annual monitoring program was implemented as part of the 1987 monitoring program. The groundwater component involved the collection of groundwater samples from selected well nests for the analysis of nitrate, nitrite, TKN, and free ammonia. In addition a limited suite of VOCs were analyzed at selected groundwater locations on an annual basis.

The 1986 Monitoring Report largely concluded the following:

1) Prior to the construction of the LCS, surface leachate discharge from the Site had exerted a measurable impact on surface water quality downstream of the Site. However, the impact could not be attributed to leachate seepage alone.

2) No polychlorinated biphenyls (PCBs) were detected in any of the leachate, water, or sediment samples.

3) Groundwater contamination as delineated by organic nitrogen and trichloroethane extended downgradient to, and possibly beyond, Highway 403.

The 1987 monitoring program concluded amongst other considerations that the installation of the LCS had resulted in a reduction of the impact on the surface water quality, however more data was required to further quantify this reduction. Impaired surface water quality was noted at background locations as well as downstream of the Site. No PCBs were detected at any surface water sampling locations. Furthermore, all major leachate seeps identified in 1986 and in 1987 had been contained. It was also determined that organic nitrogen was not a diagnostic indicator of groundwater contamination at this Site and concluded that the source of toluene concentrations within the groundwater be further documented. The recommended 1988 monitoring program included a re-evaluation of groundwater monitoring locations so as to ensure that the wells were screened within the active groundwater flow zones originating from the Site. In addition, those wells completed with suspect well construction materials, such as glued joints, were deleted from the program.

The 1988 report generally reiterated the same conclusions as previously outlined in the 1987 report. Salient conclusions included that the operation of the LCS had resulted in the reduction of impact on the surface water quality, however, more data would be required to fully evaluate the effects of the collection system. The report further concluded that bacteriological parameters were not a useful indicator of groundwater contamination. Also, off-Site groundwater appeared to be characterized by the sporadic occurrence of volatile organics at trace levels which were largely attributed to a natural source. No PCBs were detected within the surface water and further evaluation of background surface water quality was also required. It was further recommended that a refinement in the groundwater monitoring network be undertaken to conduct widespread sampling of the shallow or active groundwater flow zone.

The conclusions presented within the 1989 report are generally consistent with those presented as part of previous reports.

The MOEE provided comments on the 1990 and 1991 Monitoring Reports on November 5, 1992, with the primary MOEE comments presented below:

- "It is very difficult to determine the impacts of leachate on the groundwater system at this Site because of poor background water quality and complex fracture characteristics of the underlying shales. The monitoring program conducted in 1990 and 1991 needs to be continued in order to expand the existing groundwater database. This will enable a more confident interpretation of the groundwater system in the future."

- "It is acceptable to measure leachate levels twice per year instead of four times per year provided there are no noticeable changes to leachate levels in the future."

Consistent with previous reports, the 1992 Monitoring Report found the occurrence of VOCs in leachate and groundwater to be sporadic and characterized by low or trace levels. There was a documented minor impact on general chemistry surface water quality immediately downstream of the Site. In 1992 it was also concluded that surface water quality downstream of the Site along the North Service Road is comparable to background quality, and persistent change in leachate elevations in leachate wells was not evident since installation of the LCS.

The 1993 and 1994 Monitoring Report conclusions concurred with previous monitoring reports, indicating a minor impact of general chemistry parameters in surface water immediately downstream of the Site. Bacteria levels within the surface water were attributed to an upgradient surface water/groundwater source.

In summary, the effectiveness of the LCS has been demonstrated, and historical overland leachate seepage has been controlled

and collected. The impact of the Site on groundwater quality has been difficult to assess due to the naturally poor groundwater quality and lack of proven and effective inorganic indicator parameters of leachate contamination.

1.3 CURRENT SITUATION

The property adjacent (to the southeast) of the Site was formerly owned by NSP. The NSP property was purchased by Jannock Ltd. through its subsidiary 873805 Ontario Inc. Jannock Ltd. is interested in establishing a brick factory and quarry within the licensed portion of the property and will also pursue the development of industrial land fronting on the North Service Road. As such, COB and Jannock Ltd. have undertaken a joint technical review of the performance and impacts of the Site. This review allows COB to determine the most appropriate buffer zone, monitoring requirements, and contingency measures for this closed landfill Site. The results of this review also allows Jannock Ltd. to evaluate the suitability of development of its adjacent lands south of the landfill in accordance with the provisions of the Ministry of the Environment Policy 07-07.

A joint COB/Jannock Ltd. report entitled, "Concept Proposal, Bayview Park Landfill Buffer Zone/Monitoring Requirements and Development of Lands of South of Bayview Park Landfill" dated January 1993, was prepared by CRA/Golder Associates and subsequently presented to the MOEE on February 8, 1993. The MOEE advised that they agree in principal with the Concept Proposal in a letter to COB dated February 23, 1993.

As part of the evaluation of Site Environmental Performance as outlined within the January 1993 Concept Proposal, newly installed observation wells OW1A/B-93, OW2A/B-93, OW3-93, and OW4-93 were sampled on two occasions in April 1993. Proposed surface water sample locations SW9A-93, SW13-93, SW14-93, and SW15-93 were sampled on one

occasion in April 1993. The above groundwater and surface water results are presented in Appendix G.

Subsequently, a report entitled "Environmental Performance Report, Bayview Park Landfill" was prepared and submitted to the MOEE (J. Budz) on November 4, 1994. The purpose of the Environmental Performance Report (EPR) is to present an environmental performance evaluation and rationalized monitoring program for the Bayview Park Landfill Site, based on the proposed Buffer/Alternative zone and recognition of the proposed adjacent land use developments.

Comments on the EPR were received from the MOEE in a letter dated February 22, 1995. CRA, on behalf of COB responded to the MOEE comments in a letter dated April 25, 1995. Both the MOEE and CRA concurred that;

> *"The environmental performance monitoring will be based on the evaluation of water quality trends rather than on the single occurrence or exceedances. It is also recognized that the existing data base needs to be upgraded and that additional work will be required to estimate background values and assess water quality changes."*

Both MOEE groundwater and surface water evaluators have provided concurrence with the proposed EPR monitoring program.

All correspondence between the MOEE and CRA regarding the EPR are provided in Appendix B.

CRA on behalf of COB submitted an application to amend the current C of A, A-2102-05 to the MOEE Approvals Branch on December 7, 1995. The application to amend the current C of A, A-2102-05 is to include the proposed buffer zone lands specified in the EPR. The application form and associated correspondence between MOEE Approvals Branch and CRA are also provided in Appendix B. The proposed amendments to the C of A, is still currently under review by the MOEE Approvals Branch, pending formal notification of the final sale of the subject buffer lands to the COB.

A revised monitoring program will be implemented in 1996 in accordance with the proposed monitoring specifications provided in the EPR.

Comments on the 1994 Monitoring Report were received from the MOEE on July 18, 1995 and September 15, 1995 and are also provided in Appendix B.

1.4 HYDROGEOLOGIC BACKGROUND

As previously outlined, the Site lies adjacent to lands formerly owned by NSP (and currently owned by Jannock Ltd.) which were designated as "Site F" by the Region of Halton in their Waste Management Master Plan. Immediately west of Site F lies the Region of Halton Burlington Landfill Site (BLF). A number of hydrogeological reports addressing Site F, the adjacent BLF and the Site were presented as part of an Environmental Assessment Board Hearing for the selection of a new regional landfill site (CRA, 1988a; Feenstra, 1988; Gartner Lee, 1988; Geocon, 1987; and Trow, 1986).

In summarizing the above noted reports, the Site hydrogeology is characterized by a weathered and fractured shale mantle overlying a less fractured and relatively lower permeable shale bedrock. The fracture pattern within the shale mantle displays considerable variation both vertically and laterally across the Site. The pattern of groundwater flow within this fractured shale mantle is therefore expected to be complex. As shown by Feenstra (1988) the shallow or active groundwater flow system is characterized by low chloride concentrations (<2,000 mg/L) relative to the underlying deep groundwater flow system found at the Site. As shown by Feenstra (1988) this flow system varies from as much as 20 m thick at HC4-85 to 0 m at HC8-85. In general this system varies from 0 to 5 m in thickness downgradient from the Site. Groundwater in this system generally flows laterally through a complex network of interconnected fractures with discharge to surface water bodies.

000925

The underlying deep groundwater flow system is characterized by strong downward gradients and saline groundwaters. Chloride levels commonly exceed 10,000 mg/L in the underlying deep groundwater flow system.

A number of observation well nests and pumping wells were installed by Trow (1986) during the course of the hydrogeologic investigations on Site F. Of these observation well nests, HC4-85, HC9-85 and pumping wells, PW1-86, and PW3-86 that lie generally downgradient of the Site, were incorporated into the 1988 Monitoring Program. In addition, observation well nests HC6-85 and HC7-85, which also lie generally downgradient of the Site, were incorporated into the 1989 Monitoring Program. In 1995, monitoring of these observation wells was continued except at observation well nest HC6-85 (HC6-2, HC6-3) which had been destroyed since April 1990 and at observation well HC4-3 which was destroyed in 1994. Geologic logs and observation well completion records are presented in Appendix C.

2.0 1995 MONITORING PROGRAM

The 1995 monitoring program was designed to continue to evaluate the effectiveness of the leachate collection system (LCS) and to determine if the groundwater and surface water downgradient of the Site is measurably impacted at the monitoring locations. The 1995 monitoring program consisted of the following components:

1) surface water monitoring;
2) leachate well monitoring;
3) leachate collection system monitoring;
4) off-Site groundwater monitoring; and
5) leachate seep inspections.

The monitoring program implemented in 1995 is outlined in Appendix D. Each of the five components of the monitoring program are presented with respect to sampling locations, frequency, monitoring requirements, and analytical requirements if applicable. The monitoring events in 1995 took place on April 5, 1995, July 11, 1995, October 19, 1995, and November 7, 1995.

2.1 SURFACE WATER MONITORING

The 1995 regular monitoring program provided surface water quality monitoring at 12 locations. These locations are provided on Figures 2.1 and 2.2. Samples were scheduled for collection during wet and dry weather, in April and July respectively, and in October if locations were dry during the July event.

Surface water samples were collected from all locations in April 1995 except for SW3-87 and SW11-87 which were reported dry, and at SW4-87 where stagnant water conditions were observed. Only one surface water sample was collected during the July 1995 sampling event at SW10-87. The remaining 11 surface water locations were reported as dry in July 1995. In October 1995, all surface water sample locations were also reported dry.

Therefore, an additional round of surface water sampling was undertaken on November 7, 1995. Samples were collected from all surface water locations in November 1995, with the exception of surface water locations, SW3-87 and SW9-87 which were reported dry. General Chemistry, VOCs, and Bacteriological parameters that were analyzed are presented in Table A.1 of the monitoring specifications provided in Appendix D.

2.2 LEACHATE WELL MONITORING

The six leachate well locations, LW1 to LW6, inclusive are shown on Figure 2.1. The leachate levels were measured on two occasions (April and July 1995) so as to evaluate the LCS. In addition, leachate well depths were measured. Levels were not obtained in LW4 as this well has been obstructed since 1991. In April and July 1995, a level was not obtained in LW2 due to the presence of condensate, on the solinst and "oil" like material in the well.

2.3 LEACHATE COLLECTION SYSTEM MONITORING

Leachate samples were collected from MH15 in April and October 1995. The parameters that were analyzed are outlined in Table A.1 of the Monitoring Specifications outlined in Appendix D.

Monitoring of the leachate flow at MH14 has not been measured since 1993 as an estimated steady state flow of 0.43 m^3/day was established prior to the 1992 Monitoring Report. Leachate discharge flow rates for Pumping Stations #2 and #3 as well as MH14 were recorded for the entire year by COB and are summarized in Appendix E. In order to provide comparative information with respect to LCS annual pumped volumes versus the annual and average precipitation amounts, 1995 precipitation data for the Hamilton Region have been obtained and are summarized in Table 2.1.

2.4 OFF-SITE GROUNDWATER MONITORING

Off-Site groundwater monitoring was performed in 1995 to evaluate the presence of any measurable contamination of groundwater downgradient of the Site. The off-Site groundwater monitoring consisted of two components:

1) obtain representative groundwater data for the shallow or active groundwater flow zone at the pumping wells; and
2) conduct widespread sampling of the shallow or active groundwater flow zone.

In 1995, off-Site groundwater monitoring was conducted in April and July. Eight groundwater monitoring locations, including two pumping wells, PW1-86 and PW3-86, and a total of six observation wells at three observation well nest locations (HC-4, HC-7, and HC-9) were sampled. The off-Site groundwater monitoring locations are shown on Figure 2.3. However, as reported in April 1990, sampling at observation well nest, HC-6 was not possible as these wells have been destroyed. Also, it was determined in April 1994 that observation well, HC4-3 was destroyed. It was proposed that these observation wells be replaced as part of the revised monitoring program as outlined November 1994 Environmental Performance Report. It is anticipated that the abandonment and replacement of buffer zone observation wells will be implemented in 1996. The parameters that were analyzed are provided in the Monitoring Specifications in Appendix D.

The two pumping wells (PW1-86 and PW3-86) were monitored so that representative samples of the groundwater quality downgradient of the Site could be measured. Prior to sampling, each pumping well was pumped for 5 hours. The samples were then obtained using a pre-cleaned bottom loading stainless steel bailer and nylon rope assembly.

Prior to sampling, each observation well was purged, removing a minimum of three times the standing water volume in the well or until dry. In the event that the observation well was purged dry prior to

achieving the three well volumes, the groundwater was allowed to recover to a level adequate for sample collection.

2.5 LEACHATE SEEP INSPECTIONS

Historically, there are nine leachate seep locations on Site. Leachate seep inspections were performed on three occasions throughout 1995 (January 11, April 5, July 11, and October 19, 1995) for seepage reoccurrence at historic seep locations and for the presence of new leachate seeps around the entire Site. The Leachate Seep Inspection Reports for 1995 are presented in Appendix F.

3.0 LEACHATE COLLECTION SYSTEM RESULTS

3.1 LEACHATE WELL LEVELS

Leachate level measurements were conducted on three occasions throughout 1995 (January 11, 1995, April 5, 1995, and July 11, 1995). Historical and current leachate level data are summarized in Table 3.1 and schematically illustrated on Figure 3.1. As noted on Figure 3.1, the LCS was placed on line in December 1986.

Leachate elevations at LW1-86 have remained reasonably consistent since the inception of operations at the LCS. Historically, fluctuations are attributed to seasonal variations in precipitation.

At LW2-86, the leachate elevations have historically remained either just above or below 137 metres above mean sea level (m AMSL) with a few exceptions. On three occasions since installation of the LCS, November 1988, November 1989, and July 1992, the leachate elevation has exceeded 141 m AMSL. These exceptionally high leachate elevations may reflect seasonal trends and/or may be a function of variations in the pumping rates of the LCS. A level of 140.67 m AMSL was obtained at LW2-86 in January 1995 which was slightly higher than historical measurements. The reported presence of "oil" like material and liquid condensate at LW2-86 in April and July 1995 did not allow for the measurement of the leachate levels at this time. As recommended in 1994, a standard plopper and tape assembly was utilized to measure the liquid level at leachate well LW2-86. However, a liquid level could not be measured accurately using this measuring device. An oil/water interphase probe cannot be accessed into the well head of LW2-86 due to the small diameter (1.25 inches) of the well. Renewed attempts to measure the liquid level will be made in future monitoring events utilizing a modified plopper assembly.

Leachate elevations at LW3-86 are historically fairly consistent and have continued to be so throughout 1994.

Leachate well LW4-86 has been obstructed since 1991 and as such no recent leachate elevation levels have been measured. Pre-1991 leachate elevations are fairly stable with no obvious increasing/decreasing elevation trends being noted.

Leachate elevations at LW5-86 remained relatively stable throughout 1995 and consistent with historical data.

The leachate elevations in LW6-86 appears to show some seasonal variation similar to LW5-86 with decreasing levels in the summer and fall.

Leachate contours presented on Figure 3.2 were developed by utilizing leachate levels taken in July 1995 from all available leachate well locations. The leachate levels range from 143.36 to 164.95 m AMSL. As shown on Figure 3.2, the leachate flow is primarily in a southeasterly direction and mimics the underlying topographic slope. The average horizontal gradient across the Site for July 1995 was calculated to be 0.055 m/m. There has been no significant change in the horizontal gradient from initial measurements obtained in January 1986 (0.06 m/m), prior to installation of the collection system.

The leachate elevation monitoring results suggest that any decline in leachate elevation, as a result of the operation of the LCS is minimal. Moreover, the volume of leachate within the Site has not been significantly reduced. As will be discussed in Section 3.2 the LCS has however proven effective in collecting leachate which historically seeped from the Site via toe of slope seepages. Leachate level monitoring should therefore be continued at a frequency of twice per year (April and July) in order to further monitor leachate levels at the Site.

3.2 LEACHATE SEEP INSPECTIONS

Leachate seep inspections were performed at the Site on four occasions: January, April, July, and October throughout 1995. The

inspections are a continuation of the leachate seep inspection program established in 1986. On each occasion, a visual inspection was conducted at nine locations where leachate seepage has occurred historically. The leachate seep inspection locations are identified on Figure 3.3. Leachate seep inspection reports summarizing information pertaining to the condition of the seep locations were prepared during each inspection. The leachate seep inspection reports are provided in Appendix F.

As indicated in the 1986 Monitoring Report, leachate seepage was not observed at any inspection location during the late fall and early winter period following installation of the LCS. Although these locations did not exhibit any leachate seep discharge, they continued to be referred to as Leachate Seeps Nos. 1 through 9 for reference purposes during the 1987 through 1995 inspection programs.

Throughout 1995, leachate seepage was not observed at any of the nine historic leachate seep locations monitored. Soil patches at one location (LS1) was noted as being moist with no obvious overland seepage in April 1995.

In general, there were no changes in vegetation and condition of soil material in any of the historic leachate seep locations in 1995.

In 1992, leachate seepage was observed at LS1. As a result, corrective measures including installation of riprap clear stone and drainage tile connected to the LCS were implemented in July 1992 in the vicinity of LS1. No seepage was observed at LS1 during the latter part of 1992 or during 1993. However, a localized wet soil area was observed at LS1 in both April and July 1994. The area was visually inspected, and reported to not emit a characteristic leachate odour or have a visible sheen in April, July, and October 1995.

3.3 PERFORMANCE OF THE LEACHATE/SHALLOW GROUNDWATER COLLECTION SYSTEM

The LCS is located along the south and west (downgradient) sides of the Site. The LCS consists of perforated pipe collectors and french drains. The pipe collectors generally are located parallel to the toe of the slope of the landfill at a depth of 4 m. The collector pipe consist of polyvinyl chloride (PVC) perforated pipe contained within a 2 m trench backfilled with clear stone. French drains are connected to the collector trenches and run up the landfill slopes into the refuse directly beneath the low permeable cover soils. The french drains are located where persistent leachate seepage through the cover previously occurred. A total of approximately 500 m of collector pipe and 350 m of french drains are in place. As noted earlier, the installation of the sideslope drainage swales and repair to the final cover in the vicinity of LS1 were undertaken in July 1992.

The collector pipe are connected to two pump stations located in deep ravines along the south side of the Site. The pump stations discharge leachate to the Region of Halton Sanitary sewer system for final treatment at the Skyway treatment plant. The King Road Sanitary sewer was extended beneath Highway 403 and up King Road to the Site. Approximately 800 m of gravity sanitary sewer were installed to accept leachate from the Site. The collected leachate is pumped through small diameter forcemains (2-inch and 3-inch) to the gravity sewer. Historically, flow measurements were obtained monthly from the two pump stations and measurements were recorded by COB staff. In 1995 flow measurements were recorded by COB staff on 11 occasions.

Each pump station consists of two pumps which engage on an alternating basis. An elapsed time meter records the run time for each of the two pumps at each of the two stations. Therefore, similar elapsed time readings for each pump indicate normal operation. A copy of all the 1995 pump readings are provided in Appendix E. The total pump hours and total flows for Station No. 2 and Station No. 3 are presented in Table 3.2. The estimated flow for the short lateral collector that discharges to the gravity sewer at MH14 is also presented in Table 3.2. It is evident that the short

000934

lateral collector is a small contributor to the total estimated flow of the collection system. Due to prohibitive confined space entry requirements and cognizant of collected data over the previous 5 years, it was recommended in the 1990 Monitoring Report that an estimated flow rate for the short collector be utilized as part of COB reporting and payment for treatment to the Region of Halton. This estimated flow rate is 0.43 m^3/day.

Based on the sum of the pumped volumes at Pumping Stations 2 and 3 as well as the flow from the short collector at the MH14 weir estimates the total volume of leachate removed by the system is estimated to be 35,173.05 m^3 for the period December 28, 1994 to December 29, 1995. It should be noted that the operational pumping hours and the total volume of leachate discharged has significantly decreased from the reported value in 1994 (54,044.83 m^3), but is comparable to the value reported in 1992 (41,442.58 m^3). The average 1987 to 1995 annual leachate discharge volume is approximately 66,405 m^3. The historical leachate discharge volumes to the Regional sanitary sewer are summarized in Table 3.3.

4.0 ANALYTICAL RESULTS

A description of the sampling program is outlined in the 1995 Site Monitoring Specifications provided in Appendix D. All surface water, groundwater, and leachate samples collected during this investigation were analyzed by the following laboratories:

General Chemistry	CRA Analytical Services (CAS)
Bacteria	NovaMann
Metals	NovaMann
VOC	NovaMann
Base/Neutral/Acid Extractables (BNAEs)	NovaMann
Pesticides/PCBs	NovaMann

The data base containing the current and historical analytical data is compiled in Appendix G. These data were assessed and validated based upon a Quality Assurance/Quality Control (QA/QC) Program. These results are discussed in the following section of this report.

4.1 QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

The analytical data received was assessed and validated by CRA's QA/QC program based upon a review of standard quality control criteria, which include field blank analyses, duplicate sample analyses, travel blank analyses, sample holding times, and laboratory QA/QC procedures.

Field blanks were used to provide an indicator of potential sources of target analyte contamination of the samples during sampling and analysis. A field blank was prepared by pouring Type I deionized water, supplied by the CRA laboratory, into a sample bottle while on Site. According to USEPA guidelines when target analytes are detected within the field blank, only analytical results which were greater than five times the levels reported in the field blank are considered to be true positive detections. Affected results are qualified as "U" - not detected above sample quantitation limit. In

essence, these guidelines correct the reported laboratory method detection limit for contributory influences not reflected in the limitations of the analytical method. The sample quantitation limit (SQL) is the true confidence threshold. Analytes detected at levels below the SQL are not regarded as being true positive detections.

In order to assess sampling variability, duplicate samples were also collected and submitted to the respective analytical facility as part of each sampling event.

Travel (trip) blanks were also collected as part of the QA/QC program. These samples were analyzed for VOCs. The purpose of a trip blank was to determine if cross-contamination occurred during shipping. The laboratory would prepare the trip blanks and send them to the field where they would be left unopened.

Allowable holding time of a sample is the maximum time, beginning with sample collection, which can be allowed to elapse before extracting or analyzing a sample. By comparing the collection date of all samples with the reported date of extraction or analysis, the actual holding time is determined and compared to the allowable holding time.

Analysis of laboratory duplicates, blanks, and check samples were also part of the laboratory QA/QC program. Laboratory duplicates consisted of laboratory prepared duplicates of field samples. The duplicates were prepared by subdividing the sample into two individual samples so that homogeneity was achieved. The purpose of these duplicates was to validate the precision of the laboratory analytical methods employed.

The laboratory performing the analysis would prepare a laboratory blank consisting of de-ionized water on the day the collected samples were to be analyzed. The objective of this blank was to determine the existence and magnitude of contamination, if any, occurred within the laboratory.

The analytical assessment and validation reports are presented in Appendix H. A summary of data qualifications is provided in the attached tables of each data validation report provided in Appendix H. Where appropriate the data qualifications are presented in the data summary table.

4.2 SURFACE WATER

Thirteen surface water sampling locations existed at the Site until the installation of the LCS in 1986, surface water sampling point SW2 was contained by the collection system, and thus no longer exists. Therefore, there are only 12 surface water sampling locations currently at the Site.

The Site monitoring specifications dictate that surface water sampling is to occur in wet weather conditions in April, and dry weather conditions in July, however, if surface water sampling locations are dry in July, surface water samples would be collected in October. During the 1995 sampling period, nine out of the 12 surface water samples were obtained in April 1995; only one surface water sample was collected in July 1995; and no surface water samples were obtained in October 1995, due to dry weather conditions. Therefore, an additional round of surface water sampling was undertaken on November 7, 1995. Samples were collected from all surface water locations in November 1995, with the exception of surface water locations, SW9-87 and SW3-87 which were reported dry. These sampling condition specifications were observed and adhered to for the 1995 monitoring program.

All historical and present surface water data have been recorded in the data base provided in Appendix G.

Field measurements of pH and conductivity were obtained for all surface water monitoring locations in 1995. All surface water samples were analyzed for the following general chemistry parameters:

- alkalinity;
- ammonia nitrogen;
- chloride;
- total kjeldahl nitrogen (TKN);
- phenols; and
- sulphate.

Un-ionized ammonia concentrations were calculated from total ammonia results by applying a correction factor based on the temperature and pH of the surface water. This method of determining un-ionized ammonia concentrations is outlined in "Water Management - Policies, Guidelines, Provincial Water Quality Objectives of the Ministry of Environment and Energy" (July 1994).

Total kjeldahl nitrogen (TKN) is a measure of all the nitrogen in the trinegative state. It is primarily a measure of nitrogen present in the organic form such as proteins, amines, and urea, as well as nitrogen present as free ammonia. The organic nitrogen fraction can be estimated by taking the difference between the free ammonia and the total kjeldahl nitrogen results. Sewage and runoff from agricultural areas where fertilizers have been used are the primary sources of TKN besides the natural nitrogen fixation and anaerobic nitrate reduction processes. The degradation of food wastes may also be a source of TKN.

Priority pollutant VOC indicators and bacteriological parameters were also analyzed for surface water. Historically, fecal coliforms, total coliforms, and fecal streptococci were the bacteriological parameters analyzed. With the issuance of the updated Provincial Water Quality Objectives (PWQOs) by the MOEE in July 1994, Escherichia coli (E. coli) were added to the parameter list. The MOEE standard indicated E. coli is the most suitable and specific indicator of fecal contamination. The analysis of fecal and total coliforms will be continued at the Site to allow for monitoring trends in the water quality with time.

Coliform group bacteria are present in the gut and feces of warm blooded animals. An indication of the remoteness of the source of coliforms is the relative amounts of fecal coliform/and non fecal members of the coliform group. Non fecal members of the coliform group may be expected to survive longer than the fecal members of the group in the unfavourable environment provided by the water. The presence of total coliforms in water is not a specific indication of sewage as fecal pollution but may also indicate soil runoff and also contact with food wastes.

A complete listing of all parameters analyzed for surface water are outlined in the 1995 Site Monitoring Specifications presented in Appendix D.

As reported in the 1989 Monitoring Program Report (CRA 1990), the surface water samples collected in 1989 were during a period of relatively large surface water flow and as such may reflect the improved water quality due to dilution. This was considered when comparing the 1995 results.

It should also be noted that the surface water monitoring analytical list was refined in 1988, as such hardness, iron, DOC, nitrite, and nitrate were removed from the analytical parameter list.

4.2.1 General Chemistry

Background Surface Water Quality Locations:
SW9-87, SW11-87, and SW12-87

The surface water sampling point SW9-87 was established to define the local (background) surface water chemical characteristics in order to differentiate between any impacts related to the landfill and elevated concentrations typical of the area. Surface water locations SW11-87 and SW12-87 were added in the 1987 Monitoring Program so that additional background surface water quality information could be established. A

summary of historical and current surface water quality at the above-noted locations is presented in Table 4.1.

Comparison of historical results at surface water location SW9-87 with the current data indicate that the 1995 values for conductivity, alkalinity, chloride, sulphate, and TKN are comparable to historical values but have shown an increasing trend during the period between 1992 and 1995. The concentrations of coliforms measured in April 1995 are significantly lower than 1994 coliform concentrations and are comparable to historical results. E. coli counts were detected less than ten in the April 1995 sample collected at SW9-87, which is an improvement from the previous monitoring period in July 1994 (540 counts). Concentrations of un-ionized ammonia are lower than available historic results. The background surface water quality monitoring location SW9-87 has shown significant improvement from the previous monitoring round in 1994.

At surface water location SW11-87, samples have only been obtained since 1989 as this location was dry throughout 1987 and 1988. This location was also dry in April, July, and October 1995. However, a surface water sample from SW11-87 was obtained in November 1995. Current and available historic results indicate concentrations of chloride, TKN, and coliforms are present. This indicates an upstream source of animal/fertilizer wastes. Since this is a background surface water monitoring location, an upstream groundwater/surface water source for chloride, TKN, and coliforms is indicated.

The surface water quality in 1995 at surface water location SW12-87 has shown in improvement as compared to the 1994 monitoring results. The 1995 results for surface water location SW12-87 indicate a decrease in TKN and coliform concentrations over the 1994 monitoring period. In November 1995, the un-ionized ammonia concentration represents a decrease from 1994 results and is consistent with historical values.

Summary

For the parameters analyzed, the background surface water quality results in 1995 are below their respective PWQOs with the exception of November 1995 results for coliforms at surface water location SW11-87.

Leachate Seep Surface Water Locations
SW1-87, SW3-87, and SW4-87

Surface water location SW1-87 monitored surface flow and leachate seepage in 1986 near the southern toe of the Landfill area. As shown on Figure 2.1, this point lies immediately outside the collection system. Surface water locations, SW3-87 and SW4-87 also monitored the surface water near the southern toe of the Landfill Site in 1986, but were relocated at a downstream position in 1987. Surface water location SW3-87 was dry or contained stagnant water, throughout the period between 1987 to 1995. Surface water location SW4-87 was dry or contained stagnant water, throughout the period between 1987 to 1995, with the exception of November 1995. It is reasoned that surface water locations, SW3-87 and SW4-87 are essentially dry due to the performance of the LCS. Comments from the MOEE in 1993 suggest moving SW3-87 and SW4-87 further downstream to facilitate sample collection; however, the purpose of the continued monitoring of these locations is to demonstrate that the leachate collection system is effective in the containment of former seepage locations. The observation that these locations are essentially dry confirm that the LCS is operating effectively. At surface water location SW2-87 leachate historically emanated from the toe of the slope at the Site but was contained in 1986 and now discharges directly into the leachate collection system. A summary of the historical and present surface water quality at the former leachate seep locations is presented in Table 4.2.

The reported surface water quality at SW1-87 continues to show improvement in 1995 as compared to that reported prior to the construction of the LCS in 1986. However, the November 1995 results are slightly higher than historical results. The concentration of coliforms have fluctuated in 1995, indicating possible influences from upstream (background)

sources. Concentrations of other parameters remained relatively consistent with historical results.

The 1995 surface water concentrations at SW1-87 are comparable to or lower than those recorded at the background upstream location (SW9-87) with the exception of detected coliform concentrations. Historically, the concentrations of most parameters at surface water location SW1-87 have been slightly elevated compared to the concentrations of surface water location SW9-87. This suggests some minor landfill derived impact or additional loading as a result of groundwater discharge of water that has been impacted by total coliform bacteria.

The November 1995 sample results for SW4-87 demonstrate dramatically improved water quality as compared to the available 1986 result.

Discharge to East of King Road Surface Water Location: SW5-87

Surface water location SW5-87 is located at the culvert which runs east beneath King Road and onto the adjacent Jannock quarry property. Much of the Bayview Park surface water flow drains to this point. It should be noted that some remediation was conducted around surface water location SW5-87 in 1986/1987 in the form of soil cover, regrading, and ditching.

The general chemistry parameter results for surface water location SW5-87 throughout 1986 to 1995 are presented in Table 4.3. Comparing the 1995 results with the 1986 results, indicates that an overall improvement in water quality has occurred at surface water location SW5-87. Detected general chemistry parameters generally decreased from 1986 until anomalously high values were reported in July 1992.

Water quality at surface water location SW5-87 in April 1995 and November 1995 showed an improvement as compared to the July 1992 results, but again an increase in general chemistry analyte concentrations for parameters such as chloride, TKN, and coliform bacteria

was observed in November 1995 as compared to 1992 and 1993 results. E. coli counts for the sample collected at surface water location SW5-87 were determined to be 100J in the November 1995 sampling event.

The surface water samples obtained at SW5-87 in July 1992 and July 1994 are the only two historic samples collected from this location during the summer months. Surface water location SW5-87 has historically been dry during this time period and was also dry in July 1995. This suggests a possible seasonal component to the observed fluctuations, with higher concentrations observed during periods of lower flow (less available dilution).

Surface water location SW5-87 has historically shown elevated levels of conductivity, alkalinity, chlorides, TKN, sulphate, and coliforms when compared to the background surface water location, SW11-87, suggesting minor landfill derived surface water impacts. It should also be noted that coliform bacteria at background surface water location SW11-87 was greater than the coliform bacteria at downstream surface water location SW5-87 which suggests an upstream source of these parameters. The 1995 surface water quality at SW5-87 meets the applicable PWQOs for the analyzed list of parameters (with the exception of coliform bacteria).

King Road and North Service Road Surface Water Location: SW10-87

Surface water location SW10-87 is located at the northeast corner of King Road and North Service Road, approximately 600 m downstream of surface water location SW5-87. The headwaters draining to surface water location SW10-87 are generally located immediately to the east of the Site, but include some surface water drainage from the Site, as measured at surface water location SW5-87.

A summary of historical and current surface water quality at SW10-87 is presented in Table 4.4. Surface water quality at SW10-87 has improved since 1986 with the exception of elevated concentrations of conductivity, chloride, and sulphate.

The 1995 analytical results at surface water location SW10-87 are generally consistent with those results reported in 1994 with the exception of observed levels of conductivity, chloride, and sulphate. Conductivity values of 1,100 to 1,200 umhos/cm in 1995 were greatly in excess of 1994 levels of 600 to 700 umhos/cm. The chloride concentrations ranged between 61.2 to 194 mg/L in 1995 whereas in 1994 levels were less than 41.0 mg/L. Historical levels of sulphate have generally been less than 60 mg/L. The TKN concentrations in April and July 1995 (approximately 0.30 mg/L) are comparable to TKN sample concentrations since 1992. However, the detected concentration of TKN increased to 0.71 mg/L in November 1995. Total coliform concentrations reported in November 1995 (1,800J) represent the highest levels since 1988. E. coli counts at surface water location SW10-87 decreased in 1995 (160 to 950J) when compared to 1994 results (in excess of 1,600).

In comparison with the 1995 data at upstream surface water location SW5-87, downstream surface water location SW10-87 demonstrates improved water quality for the general chemistry parameters, chloride, alkalinity, TKN, and ammonia, but poorer surface water quality as depicted by increased concentrations of conductivity, sulphate, and coliform bacteria.

The surface water quality at SW10-87 meets the established PWQOs with the exception of coliform bacteria drinking water objectives.

North Service Road Surface Water Locations: SW6-87, SW7-87, and SW8-87

Surface water monitoring locations SW6-87, SW7-87, and SW8-87 are located along the North Service Road and are downgradient of surface water monitoring locations SW1-87, SW3-87, and SW4-87 respectively (Figure 2.2). These surface water sampling points are located at a point on the stream upslope from any potential influence of road salting from Highway 403. A summary of the surface water quality for SW6-87, SW7-87, and SW8-87 is outlined in Table 4.5.

000945

All general chemistry parameters reported in April and November 1995 are below 1986 values at surface water location SW6-87. A general trend of improving water quality has evolved since 1986 with the exception of measured sample concentrations of TKN and coliforms.

Comparing the 1995 general chemistry values at surface water location SW6-87 with those reported in 1994 reveals that most parameters have essentially remained the same or increased slightly. Specifically, concentrations of coliform bacteria were slightly elevated above the applicable PWQOs in November 1995 when compared to the sample coliform bacteria levels measured in April 1994.

Comparing the 1995 data at the downstream surface water location SW6-87 with the upstream surface water location SW1-87 indicates that slightly higher results for conductivity, chlorides, and sulphate were detected at the downstream surface water location SW6-87. Lower values of TKN, ammonia, and coliform bacteria were detected at downstream surface water location SW6-87 as compared with upstream surface water location SW1-87.

General chemistry parameter results for surface water location SW7-87 indicate a trend of continued improved water quality since 1986. However, an anomalous decrease in surface water quality occurred in 1993. Coliform concentrations detected in November 1995 were detected above the applicable PWQOs. E. coli counts at surface water location SW7-87 was 120J in November 1995 which was a decrease from the July 1994 E. coli counts which were in excess of 1,600.

In 1995, surface water concentrations at SW8-87 are comparable to those reported in 1993 and 1994 and are within the range historically reported. However, concentrations of TKN (0.51 to 1.46 mg/L) and ammonia (0.02 to 1.38 mg/L) reported in April 1995 are the highest detected concentrations since 1987. Concentrations of coliforms in November 1995 were detected slightly above the applicable PWQOs with E. coli counts of 210. However, the E. coli counts in November 1995 are still lower than the E. coli counts detected in July 1994 (in excess of 1,600).

Aldershot Sampling Surface Water Location: SW13-88

Surface water location SW13-88 is located downstream of the Site, south of Highway 403, near the CNR tracks. This location was incorporated into the 1988 Monitoring Program because of the generally dry conditions encountered in 1987. Some surface drainage from surface water locations SW6-87, SW7-87, and SW8-87 as well as surface drainage from west of the Site are incorporated at this sampling location. A summary of surface water quality is presented in Table 4.6.

The reported concentrations at surface water location SW13-88 are comparable with historical results, with the exception of a slightly elevated concentration of chloride (127 to 177 mg/L) and sulphate (152 to 182 mg/L) reported in 1995. Concentrations at surface water location SW13-88 are generally within the range observed at the upgradient surface water locations, SW6-87, SW7-87, and SW8-87.

4.2.2 Volatile Priority Pollutant Sampling

In April 1995, surface water samples were collected from nine of the 12 surface water locations for priority pollutant VOCs analysis. Surface water locations SW3-87, SW4-87 and SW11-87 were dry, and location SW2-87 no longer exists (see Section 4.2). In July 1995, only one surface water sample (SW10-87) was collected for VOC analysis, while remaining surface water locations were dry. In October 1995, all surface water sample locations were dry, therefore an additional round of surface water sampling was conducted in November 1995. Ten of the 12 surface water locations were sampled for VOC analysis in November 1995.

No VOCs were detected in the surface water samples collected in 1995. The VOC parameters analyzed for surface water are outlined in Appendix D. The surface water VOC results are compiled in the data base presented in Appendix G.

000947

In 1993, the MOEE suggested that additional indicator parameters for leachate [i.e., iron, toluene, and polychlorinated biphenyls (PCBs)] be incorporated into the monitoring program so as to gauge any changes in landfill impacts. However VOCs, including toluene, are already analyzed at the surface water monitoring locations. With respect to PCBs, these parameters have been monitored in the surface water in the past and found to generally not be persistently present. Given the natural presence of iron within the iron rich red shale bedrock area over which the surface water directly flows, iron may not be appropriate as an indicator of landfill derived impacts in surface water. Metals, VOCs, pesticides, and PCB parameters are monitored in the leachate itself to provide a basis for determining whether or not these parameters are of concern to surface water quality. The results of leachate analysis is provided in Section 4.3.

4.2.3 Summary

General chemistry parameter results indicate that surface water quality has improved since installation of the LCS in 1986. Throughout 1986 to April 1992 a trend of progressively improving surface water quality had developed at a number of locations. This trend was disrupted in July 1992 when relatively elevated general chemistry values were reported at a number of surface water locations.

The 1995 results indicate that, in general, alkalinity, hardness, and phenol concentrations at all surface water locations are comparable to recent historic concentrations and are well below 1986 values. Whereas chloride, sulphate, conductivity, TKN, ammonia, and coliform bacteria values have generally increased from recent historic data at the background, landfill vicinity, and downstream surface water locations. These parameter concentrations are still well below 1995 values, however.

An upstream/upgradient surface and groundwater source of coliform, ammonia, and TKN is indicated in one background surface water location (SW11-87).

Volatile organic compounds were not detected at any surface water locations in 1995. This is consistent with historical results.

A comparison of upstream and downstream surface water quality for April 1995 and November 1995 is provided in Tables 4.7 and 4.8, respectively. The landfill appears to be affecting surface water quality as a result of shallow impacted groundwater discharge with respect to generally increase conductivity, chloride, ammonia, and TKN concentrations at landfill vicinity surface water monitoring locations based on a comparison of upstream and downstream surface water monitoring points. Currently there are no PWQOs available for chloride or TKN. Calculated unionized ammonia concentrations are below applicable PWQOs.

Concentrations of coliforms (including E. coli) are found above PWQOs at upstream, landfill vicinity, and downstream monitoring locations.

4.3 LEACHATE/SHALLOW GROUNDWATER COLLECTION SYSTEM MONITORING

Leachate samples from manhole MH15 were collected in April and October 1995 for the analysis of all parameters listed in Table A.1 of the 1995 Site Monitoring Specifications located in Appendix D. The leachate sample was collected at the base of the manhole while the collection system was pumping. The short lateral collectors that joins the main system at MH13 and MH14 were not sampled due to "confined space" entry restrictions. All historical and present leachate chemistry results are presented in the data base in Appendix G.

4.3.1 Metals and General Chemistry - Leachate

The results of leachate analysis for metals and general chemistry are presented in Tables 4.9 and 4.10, respectively. In these tables, the objective column represents the Halton Region Bylaw 192-89 parameters which are the limits for leachate discharge to the sanitary sewer system.

All metals and general chemistry parameters are below their respective objectives with the exception of TKN, which was detected at 110 mg/L in April 1995, thereby slightly exceeding the Halton Regional objective of 100 mg/L as indicated in Table 4.10. This result may be considered anomalous as it is greater than the three previous results of 40 mg/L, 90.9 mg/L, and 36.3 mg/L reported in April 1993, October 1993, and April 1994, respectively. Apart from the anomalous elevated TKN value, the concentrations detected are consistent with that generally found in leachate for a closed municipal landfill.

4.3.2 Priority Pollutants - Leachate

A summary of the 1995 detected priority pollutant parameters in the LCS (MH15) is outlined in Table 4.11. Historical and present data are incorporated in the data base provided in Appendix G.

A total of nine of the priority pollutants were detected during the 1995 Monitoring Program. These detected parameters were VOC compounds: chlorobenzene, 1,4-dichlorobenzene, ethylbenzene, benzene, total xylenes, and toluene; Pesticides: carbaryl; and trace Semi-Volatiles: bis(2-ethylhexyl)phthalate. It should be noted that toluene was not detected in the leachate sample but was detected in the field blank sample (1.0 µg/L). No PCBs were detected within the leachate.

A review of the detected parameters in Table 4.11 indicates that none of these parameters exceed comparative MOEE Drinking Water Objectives.

Historically, the leachate quality has been characterized by sporadic relatively low concentrations of VOCs.

4.4 OFF-SITE GROUNDWATER MONITORING

4.4.1 Introduction

The off-Site groundwater monitoring program was designed to assess the presence of contamination of groundwater downgradient of the Bayview Park Landfill. It is recognized that the Site is old and at present has relatively weak leachate. Previous monitoring programs utilized organic nitrogen as an indicator of groundwater contamination. Results of these investigations show that organic nitrogen was not a useful indicator for illustrating a relationship between organic nitrogen levels in the overburden and the bedrock, nor between background and downgradient locations (CRA, 1988). The 1988 monitoring program concluded that bacteriological parameters were not a useful indicator of groundwater contamination (CRA, 1989). It was also observed that the location of observation well screens in the downgradient monitors had not been demonstrated to be placed within the active groundwater flow zones originating from the landfill. The 1995 Monitoring Program was modelled after the 1990 to 1994 Monitoring Programs, and designed to obtain representative groundwater from the shallow flow system and continue widespread sampling of the shallow or active groundwater flow zone (CRA, 1990).

Pumping wells PW1-86 and PW3-86 were pumped and sampled on two sampling occasions to ascertain the 'average' groundwater quality downgradient of the Site. Pumping well PW1-86 is located approximately 600 m downgradient of the Site, along the North Service Road. This pumping well is completed in the Queenston Shale at a depth of 31.37 m below top of casing (bTOC) within the deep bedrock flow system. Pumping well PW3-86 is located between pumping well PW1-86 and the Site boundary, approximately 160 m downgradient of the Site. Pumping well PW3-86 is located in the Queenston Shale but within the shallow groundwater flow system. Each pumping well was pumped for five hours prior to sampling. The samples were analyzed for general chemistry parameters and VOCs.

In addition, the nest of the observation wells at HC7 (HC7-1, HC7-2), the uppermost two bedrock observation wells at HC4 (HC4-2 and HC4-4), and the two intermediate observation wells monitoring the bedrock and the till/bedrock contact at the HC9 nest (HC9-2 and HC9-3) were sampled in April and July 1995. Observation well HC4-3 (one of the three uppermost bedrock observation wells at HC4 sampled during previous years) was removed from the monitoring program in 1994 because the observation well was reported to have been buried and not possible to sample. The observation wells were monitored for the same suite of general chemistry parameters as the pumping wells. In July 1995 selected observation wells were also analyzed for VOC parameters.

The details of the observation wells included in the 1995 monitoring program are presented in Table 4.12. The historical analytical data for all groundwater monitoring locations are presented in the data base provided in Appendix G.

4.4.2 General Chemistry

The 1995 general chemistry results for PW1-86 and PW3-86 are presented in Table 4.13. The results indicate that values of conductivity, chloride, ammonia, and TKN were significantly higher in PW1-86 than in PW3-86 . Alkalinity was also detected greater in PW3-86 than in PW1-86 . This is consistent with the observations reported in the 1994 monitoring results.

Chloride concentrations in PW1-86 (2,440 to 2,856 mg/L) and PW3-86 (427 to 522 mg/L) exceed the MOEE Drinking Water Objectives (January 1994) of 250 mg/L.

The results for the general chemistry parameters measured at the off-Site observation wells are provided in Table 4.14. The results indicate that with the exception of chloride and pH, all parameters are within the applicable MOEE Drinking Water Objectives. High concentrations of conductivity are observed at all monitoring locations; and high

000952

concentrations of chloride in HC4-2, HC7-1, HC9-2, and HC9-3 are interpreted to represent naturally poor groundwater quality.

The characteristically poor natural groundwater quality and relatively weak leachate quality does not allow for the quantification of leachate impact on groundwater quality.

4.4.3 VOCs in Groundwater

No VOCs were reported above the method detection limit in any of the observation wells or pumping wells during the 1995 Monitoring Program with the exception of toluene which was sporadically detected at low concentrations in all sampled observation wells. This is consistent with historical results.

000953

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

Based on the available data it is concluded that:

1. No overland leachate seepage was observed at leachate seepage locations in 1995. Moist soil conditions were noted only at location LS-1 on one occasion (April 1995) during the 1995 inspection program.

2. The leachate elevations in the leachate wells do not show persistent change since the installation of the LCS.

3. Surface water monitoring locations SW3-87 and SW4-87 have been essentially dry since the installation of the LCS indicating that the LCS is effective in controlling shallow groundwater and surface leachate seepage discharge.

4. Surface water quality has improved since 1986 at all sampling locations downgradient of the landfill, although a degradation of surface water quality has been generally noticed since 1992 at both background (upstream) and downstream locations. E. coli counts at upstream locations strongly indicate an upstream source of these bacteria.

5. The landfill appears to be affecting surface water quality as a result of shallow impacted groundwater discharge with respect to increased chloride, TKN, and ammonia concentrations at the landfill vicinity surface water monitoring locations as compared with the upstream and downstream surface water monitoring locations. Currently there are no PWQOs available for chloride or TKN. Calculated unionized ammonia surface water concentrations are less than the applicable PWQO.

6. The characteristically poor natural groundwater quality and relatively weak leachate quality does not allow for the ready quantification of leachate impacts on groundwater quality.

7. The occurrences of volatile organics in the leachate and groundwater is generally seen to be sporadic and characterized by low or trace levels only.

5.2 RECOMMENDATIONS

Based on the above conclusions and the findings of the approved Environmental Performance Report, the following recommendations are made:

1. The 1996 monitoring specifications for the Site will be revised to reflect the rationalized monitoring program for the Site. The 1996 monitoring specifications are presented in Appendix I.

REFERENCES

1) Conestoga-Rovers & Associates (1985), Bayview Park Landfill, Indian Creek Contamination Investigation Report. Prepared for the City of Burlington (July 1985).

2) Conestoga-Rovers & Associates (1986), Addendum No. 1, Detailed Design Report, Leachate Collection System and Surface Drainage Improvements, Bayview Landfill Site. Prepared for the City of Burlington (July 1986).

3) Conestoga-Rovers & Associates (1987), Updated 1986 Monitoring Report, Bayview Landfill Site Report. Prepared for City of Burlington (March 1987).

4) Conestoga-Rovers & Associates (1988a). Evaluation of Halton Region, Landfill Technical Studies, Site F-Burlington, Hydrogeologic Report. Prepared for the City of Burlington.

5) Conestoga-Rovers & Associates Ltd. (1988b). 1987 Surface Water and Groundwater Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

6) Conestoga-Rovers & Associates Ltd. (1989). 1988 Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

7) Conestoga-Rovers & Associates Ltd. (1990). 1989 Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

8) Conestoga-Rovers & Associates Ltd. (1991). 1990 Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

9) Conestoga-Rovers & Associates Ltd. (1992). 1991 Monitoring Report, Bayview Landfill Site. Prepared for the City of Burlington.

10) Conestoga-Rovers & Associates Ltd. (1993). 1992 Monitoring Report, Bayview Park Landfill Site. Prepared for the City of Burlington.

11) Conestoga-Rovers & Associates Ltd. (1994). 1993 Monitoring Report, Bayview Park Landfill Site. Prepared for the City of Burlington.

12) Conestoga-Rovers & Associated Ltd. (1995). 1994 Monitoring Report, Bayview Park Landfill Site. Prepared for the City of Burlington.

13) Dillon (1982) Bayview Park Landfill Site, Leachate Discharge Investigation Phase 1. Prepared for the City of Burlington.

14) Feenstra, Stanley (1988). Witness Statement for Reply Evidence. In the Matter of the Consolidated Hearing for the Environmental Assessment of the Proposed Halton Landfill.

15) Gartner Lee Ltd. (1988). Halton Regional Landfill-Burlington, 1987 Monitoring Report. Prepared for the Regional Municipality of Halton.

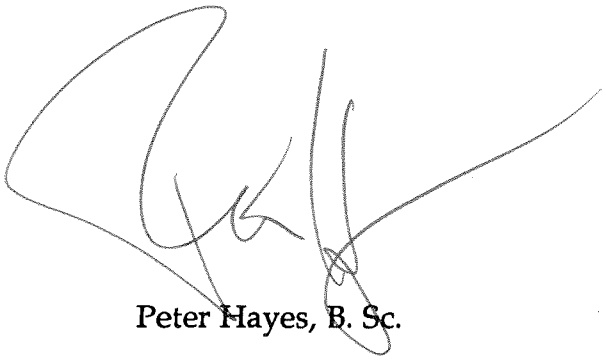
16) Geocon Inc., (1987). Review of Hydrological Report on Site F - Burlington, Proposed Landfill Region of Halton. Prepared for the Town of Milton.

17) Hewetson J.P. 1985 An Investigation of the Groundwater Zone in Fractured Shale at a Landfill- - MSc Thesis University of Waterloo.

18) Morrison Beatty Ltd. (1980) Phase II Hydrogeologic Investigation National Sewer Pipe Landfill Site Burlington. Prepared for Proctor and Redfern.

19) Trow Hydrology Consultants Ltd. (1986). Halton Region Landfill Technical Report, Site F - Burlington. Prepared for the Regional Municipality of Halton.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES



Peter Hayes, B. Sc.

Jo-Anne Ing, P. Eng.

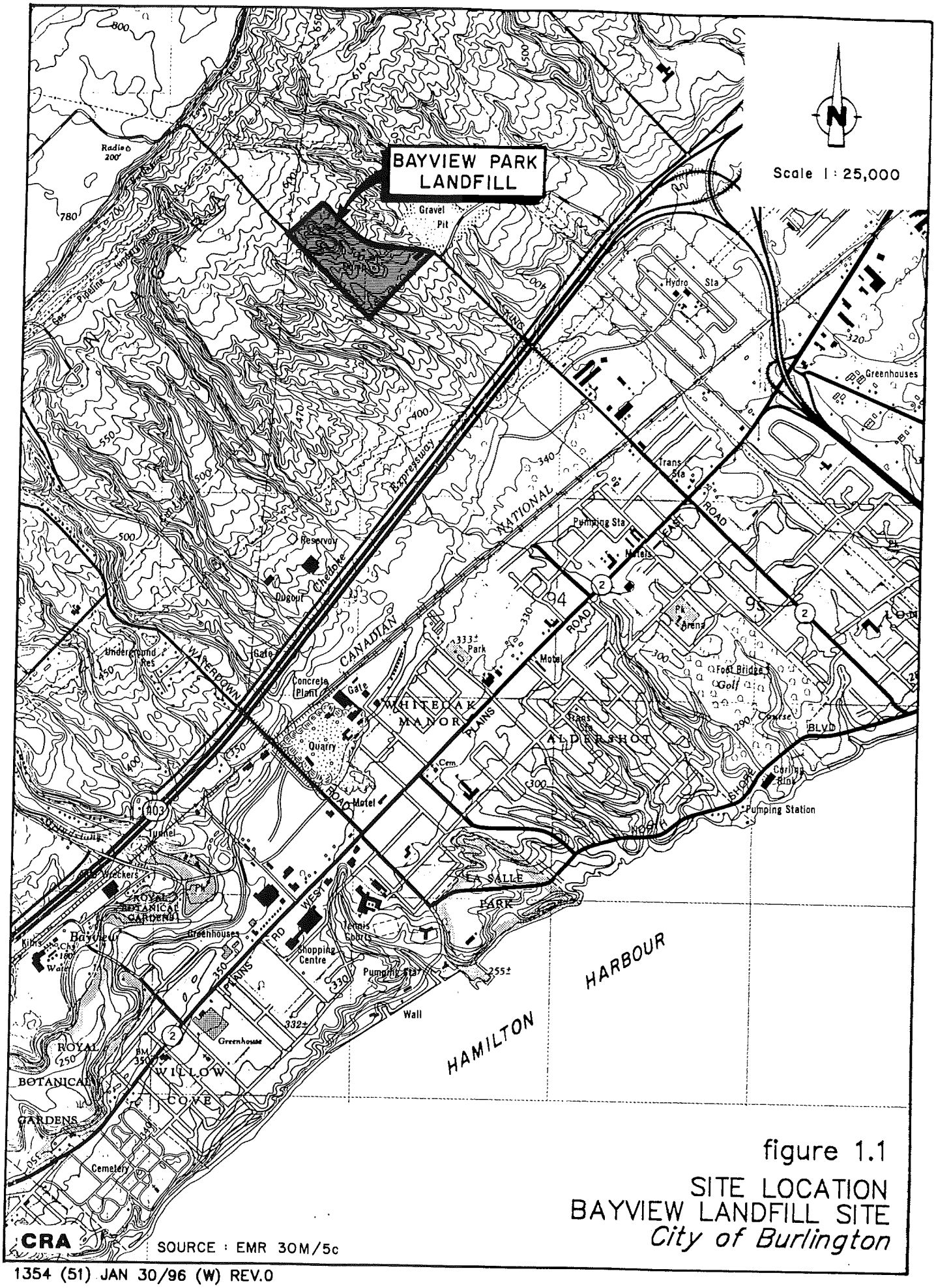


figure 1.1

SITE LOCATION
BAYVIEW LANDFILL SITE
City of Burlington

CRA

SOURCE : EMR 30M/5c

1354 (51) JAN 30/96 (W) REV.0

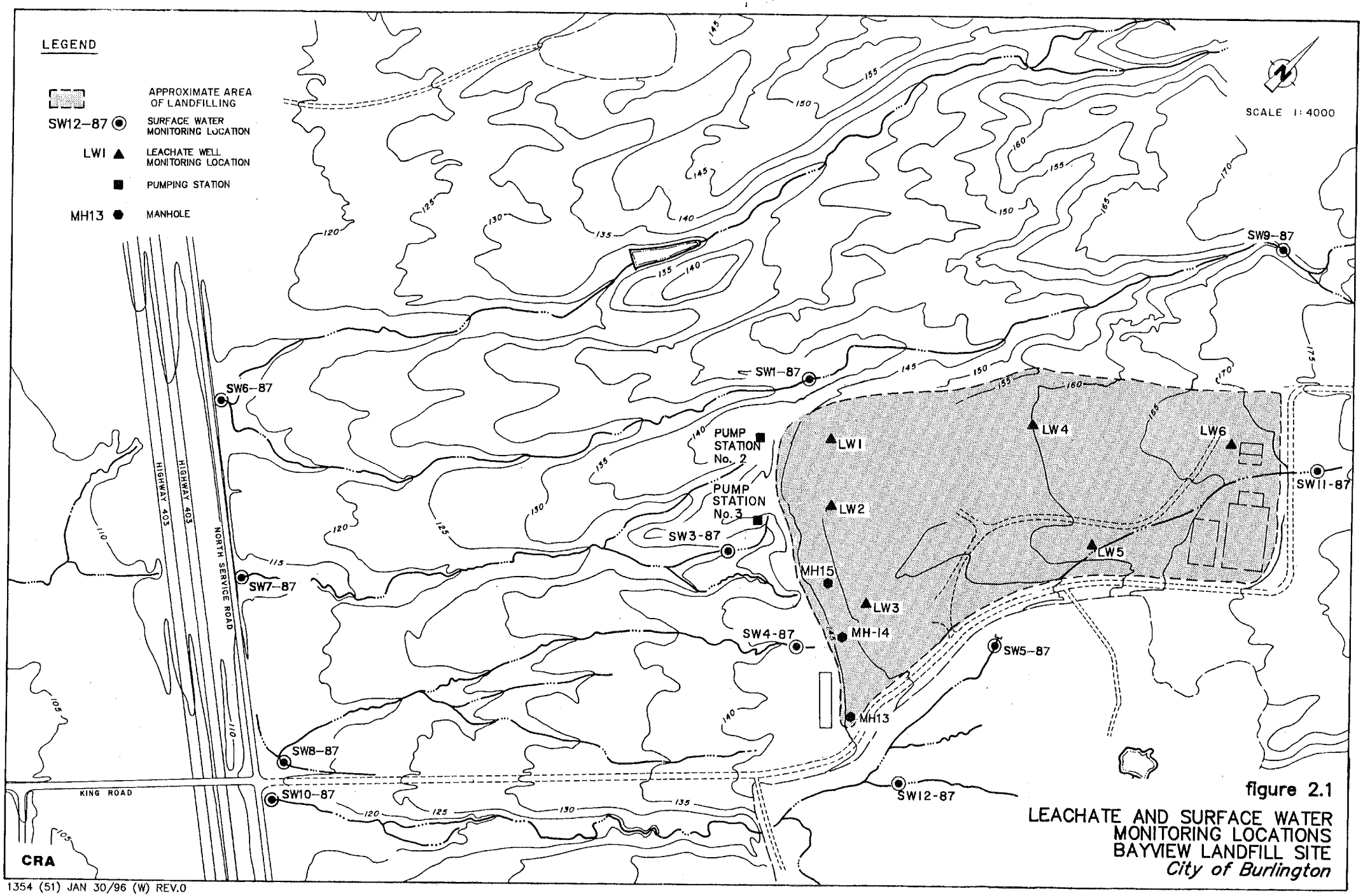


figure 2.1

LEACHATE AND SURFACE WATER MONITORING LOCATIONS
BAYVIEW LANDFILL SITE
City of Burlington

1354 (51) JAN 30/96 (W) REV.0

096000

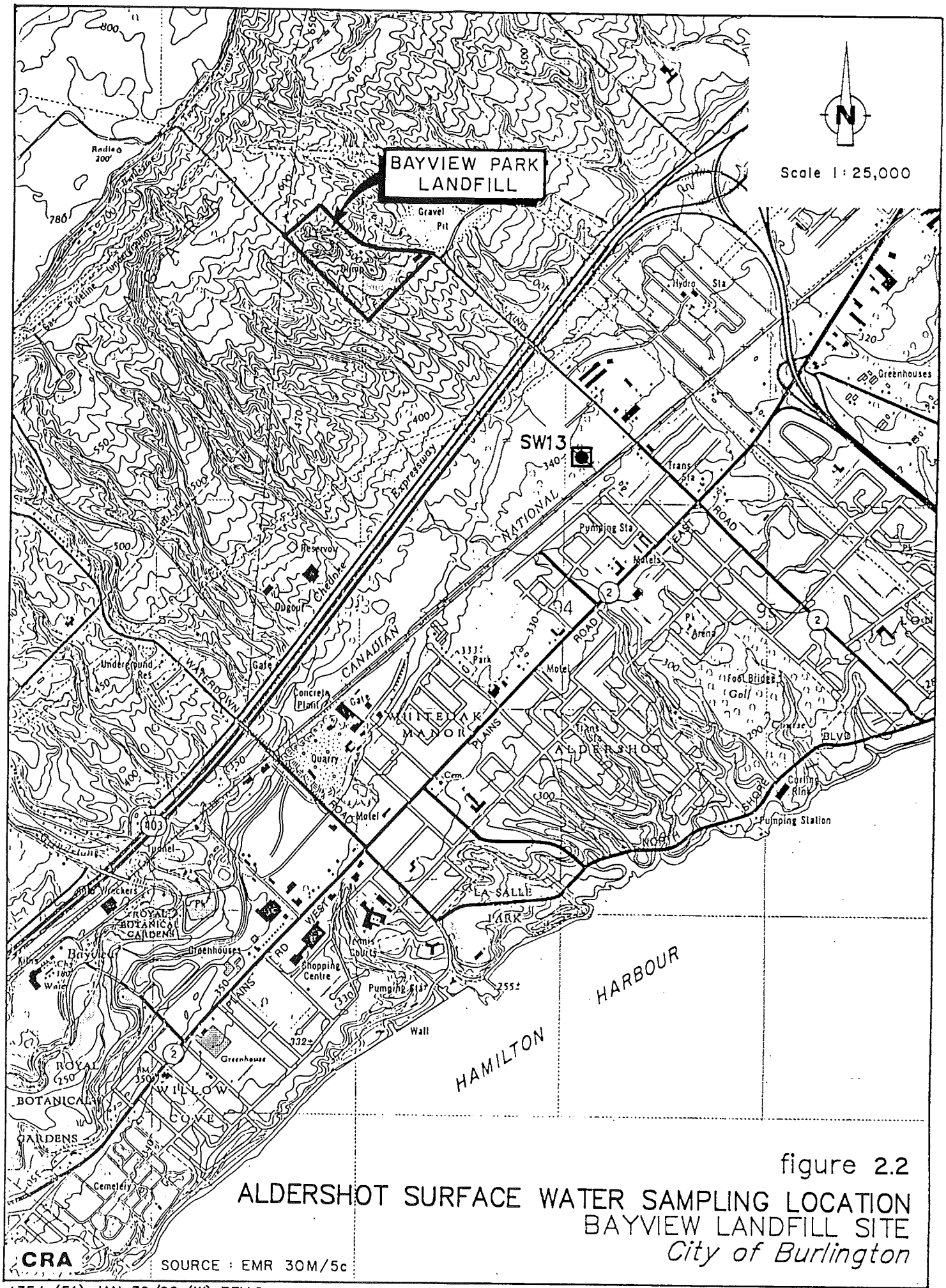


figure 2.2

ALDERSHOT SURFACE WATER SAMPLING LOCATION
BAYVIEW LANDFILL SITE
City of Burlington

CRA

SOURCE : EMR 30M/5c

1354 (51) JAN 30/96 (W) REV.0

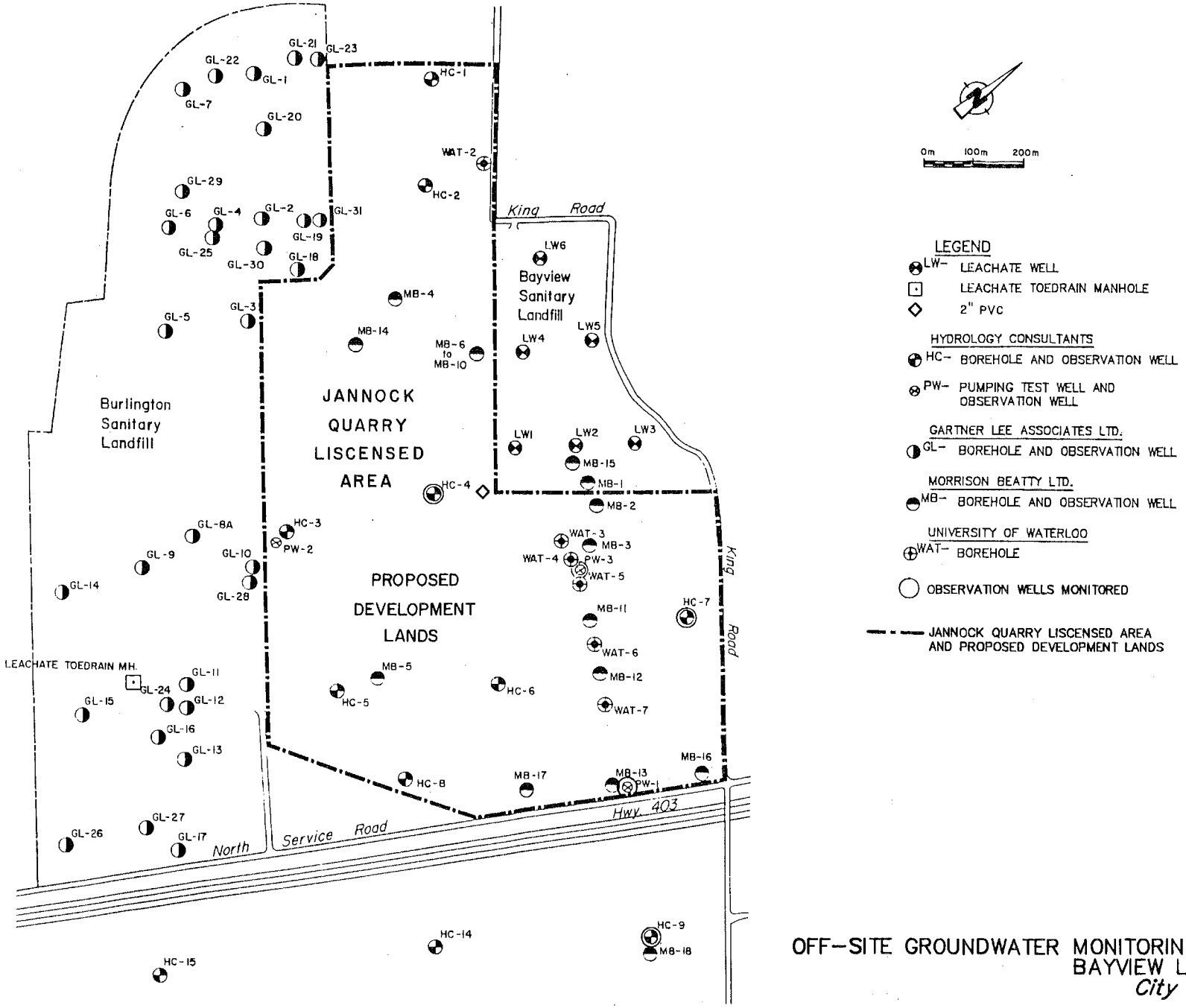


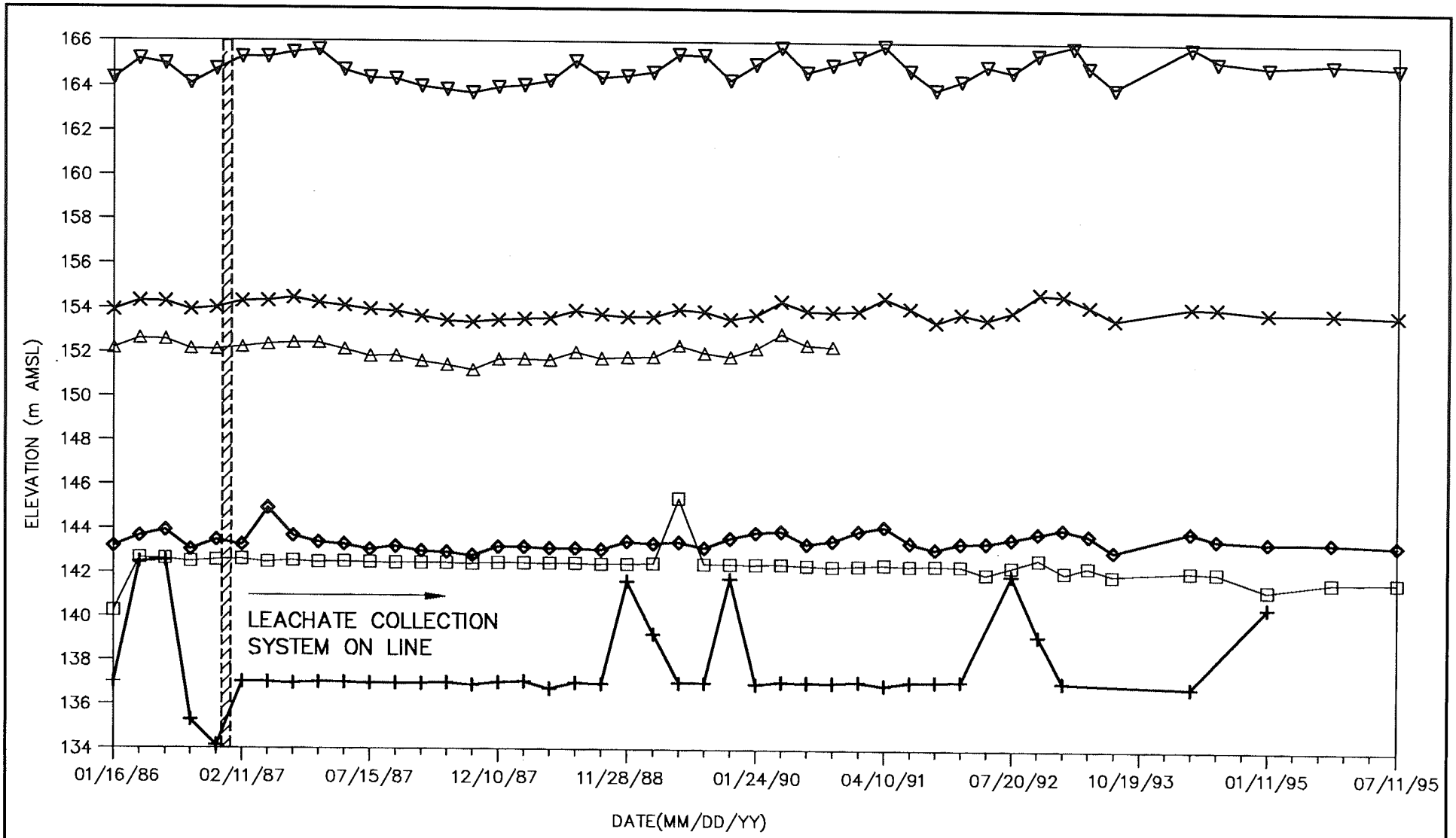
figure 2.3

OFF-SITE GROUNDWATER MONITORING LOCATIONS
BAYVIEW LANDFILL SITE
City of Burlington

CRA

0354 (51) JAN 30/96 (W) REV.0

0000692



CRA

figure 3.1

LEACHATE ELEVATIONS
BAYVIEW LANDFILL SITE
City of Burlington

1354 (51) JAN 30/96(W) REV.0 (G-21)

000963

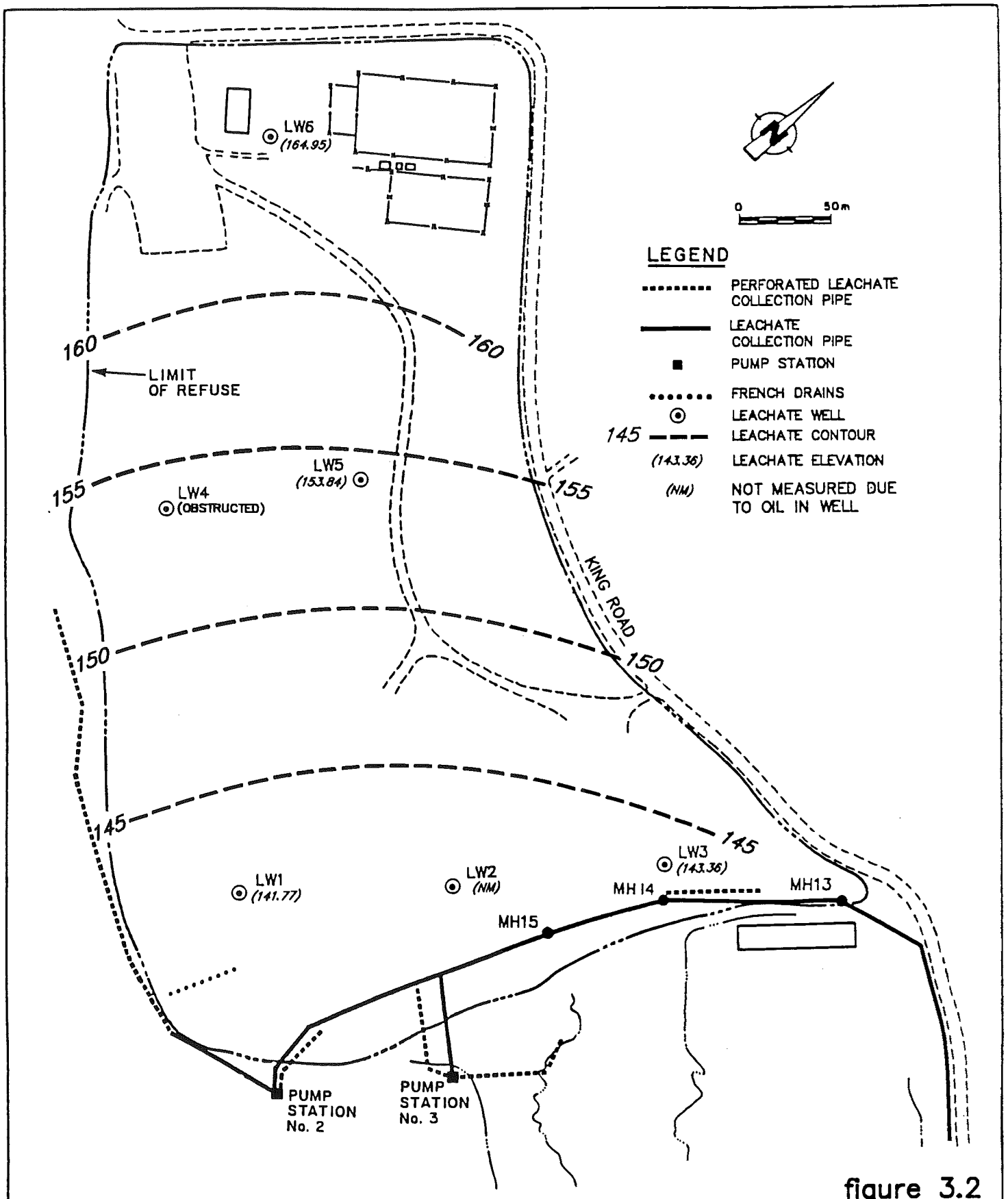


figure 3.2

JULY 1995
LEACHATE LEVELS
BAYVIEW LANDFILL SITE
City of Burlington

CRA

1354 (51) JAN 30/96 (W) REV.0

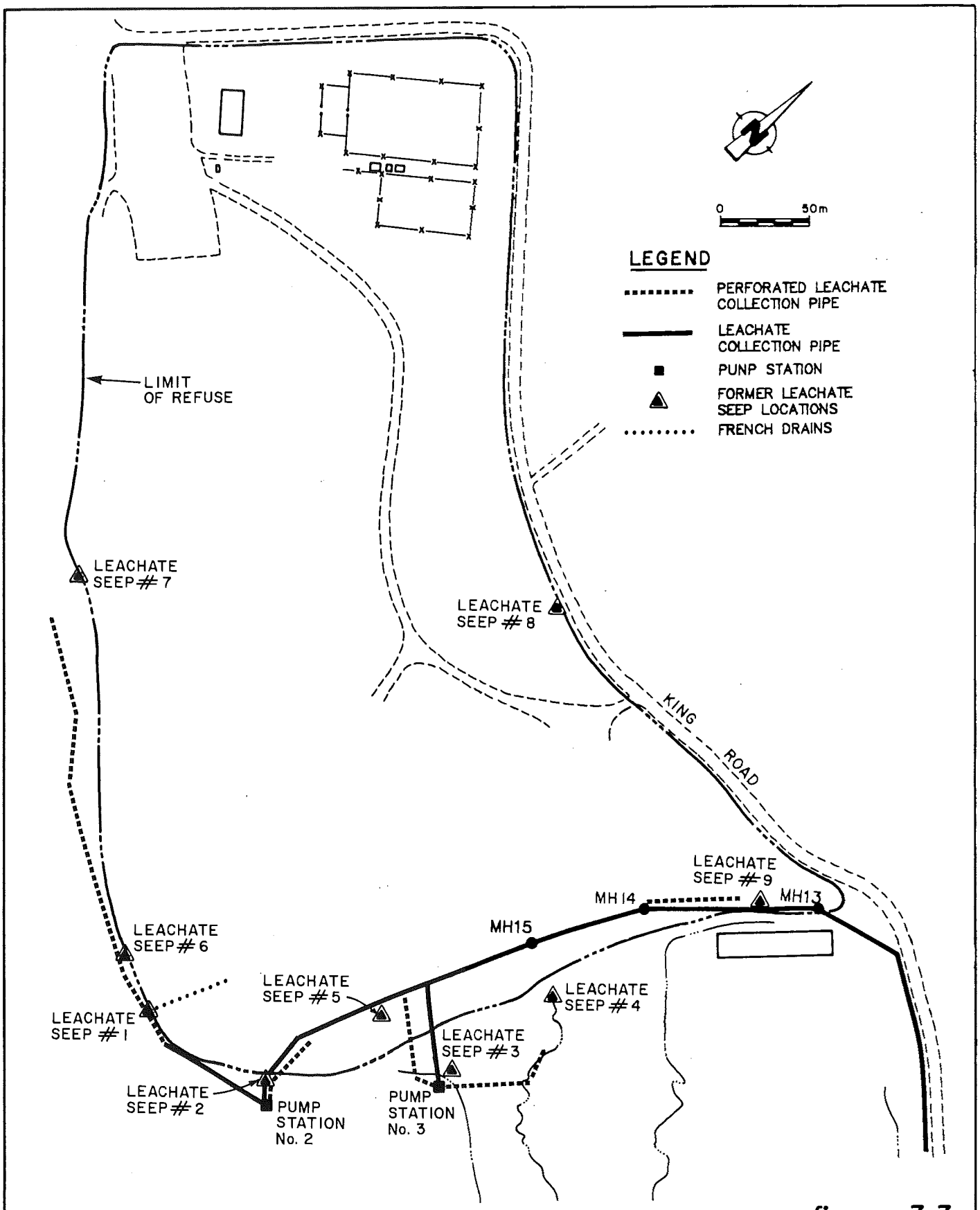


figure 3.3

LEACHATE SEEP INSPECTION LOCATIONS
BAYVIEW LANDFILL SITE
City of Burlington

CRA

1354 (51) JAN 30/96 (W) REV.0

TABLE 2.1

HAMILTON REGION PRECIPITATION DATA FOR 1995
1995 MONITORING PROGRAM
BAYVIEW PARK LANDFILL SITE

Month	*Total 1995 Precipitation (1) (mm)*	*Annual Average Precipitation (2) (mm)*
January	123.2	61.3
February	20.8	53.5
March	43.8	73.7
April	63.4	74.3
May	57.1	70.7
June	44.7	78.4
July	52.3	81.0
August	71.0	84.7
September	30.3	83.5
October	179.3	66.3
November	137.8	80.2
December	21.2	82.8
Total	844.9	890.4

Notes:

(1) Precipitation data from the Hamilton Airport as measured by the Hamilton Weather Office.

(2) Based on a 50-year average (1940-1990).

TABLE 3.1

LEACHATE ELEVATIONS
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Date (mm/dd/yy)	*LW1-86 (m AMSL)*	*LW2-86 (m AMSL)*	*LW3-86 (m AMSL)*	*LW4-86 (m AMSL)*	*LW5-86 (m AMSL)*	*LW6-86 (m AMSL)*
Ground Elevation	150.90	151.44	152.44	161.96	161.17	168.45
TOC Elevation	*151.64	*152.02	*153.22	162.73	162.04	169.21
January 16, 1986	140.26	137.01	143.20	152.19	153.93	164.35
March 26, 1986	142.68	142.50	143.67	152.64	154.33	165.18
May 28, 1986	142.64	142.54	143.92	152.60	154.31	164.98
August 14, 1986	142.51	135.29	143.06	152.17	153.95	164.13
November 3, 1986	142.59	134.14	143.50	152.15	154.04	164.74
February 11, 1987	142.61	137.02	143.27	152.25	154.32	165.28
November 19, 1987	142.50	137.01	144.95	152.38	154.34	165.29
April 6, 1987	142.56	136.97	143.70	152.45	154.49	165.50
May 4, 1987	142.50	137.02	143.40	152.45	154.27	165.61
June 26, 1987	142.52	137.01	143.31	152.17	154.14	164.72
July 15, 1987	142.49	136.98	143.08	151.85	153.98	164.40
August 17, 1987	142.47	136.98	143.21	151.88	153.90	164.35
September 24, 1987	142.47	136.96	143.01	151.63	153.68	164.02
October 21, 1987	142.48	137.00	142.97	151.47	153.49	163.87
November 10, 1987	142.44	136.91	142.82	151.24	153.41	163.72
December 10, 1987	142.48	137.02	143.20	151.72	153.51	163.98
January 22, 1988	142.48	137.08	143.20	151.75	153.57	164.07
February 11, 1988	142.46	136.74	143.14	151.70	153.60	164.28
March 12, 1988	142.46	137.01	143.15	152.06	153.94	165.15
August 15, 1988	142.43	136.97	143.10	151.79	153.79	164.42
November 28, 1988	142.43	141.64	143.45	151.83	153.68	164.51

Notes:

(1) * Indicates that Well Casing is slipping
(2) m AMSL - metres above mean sea level
(3) TOC - Top of casing
(4) NM - Not measured due to condensation in the well.
(5) NM - Not Measured, due to presence of "oil" like product.

TABLE 3.1

LEACHATE ELEVATIONS
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Date (mm/dd/yy)	*LW1-86 (m AMSL)*	*LW2-86 (m AMSL)*	*LW3-86 (m AMSL)*	*LW4-86 (m AMSL)*	*LW5-86 (m AMSL)*	*LW6-86 (m AMSL)*
Ground Elevation	150.90	151.44	152.44	161.96	161.17	168.45
TOC Elevation	*151.64	*152.02	*153.22	162.73	162.04	169.21
January 18, 1989	142.46	139.24	143.37	151.85	153.67	164.68
May 24, 1989	142.42	137.02	143.43	152.39	154.02	165.46
July 25, 1989	142.43	137.01	143.18	152.04	153.93	165.42
November 16, 1989	142.43	141.77	143.62	151.88	153.59	164.32
January 24, 1990	142.42	136.97	143.87	152.25	153.79	165.03
April 10, 1990	142.44	137.08	143.94	152.92	154.40	165.79
August 1, 1990	142.39	137.05	143.36	152.41	153.98	164.69
September 27, 1990	142.33	137.03	143.51	152.34	153.93	165.01
January 8, 1991	142.36	137.10	143.96	obstructed	153.98	165.36
April 10, 11, 1991	142.41	136.92	144.17	obstructed	154.56	165.86
July 9, 1991	142.37	137.07	143.44	obstructed	154.10	164.79
October 30, 1991	142.38	137.10	143.15	obstructed	153.47	163.92
January 17, 1992	142.36	137.11	143.41	obstructed	153.85	164.33
April 24, 1992	142.00	NM (4)	143.44	obstructed	153.60	164.98
July 20, 1992	142.33	141.92	143.62	obstructed	153.94	164.73
January 20, 1993	142.66	138.59	143.91	obstructed	154.36	165.64
April 6, 1993	142.17	137.02	144.05	obstructed	154.62	165.95
July 1, 1993	142.32	NM (4)	143.64	obstructed	154.29	165.15
October 19, 1993	142.17	NM (4)	143.24	obstructed	153.60	164.11
April 20, 1994	142.12	137.14	143.95	obstructed	154.17	165.87
July 7, 1994	142.11	NM (5)	143.61	obstructed	154.14	165.26
Jan. 11, 1995	141.27	140.67	143.56	obstructed	153.90	164.93
April 5, 1995	141.73	NM (5)	143.56	obstructed	153.92	165.34
July 11, 1995	141.77	NM (5)	143.36	obstructed	153.84	164.95

Notes:

(1) * Indicates that Well Casing is slipping
(2) m AMSL - metres above mean sea level
(3) TOC - Top of casing
(4) NM - Not measured due to condensation in the well.
(5) NM - Not Measured, due to presence of "oil" like product.

TABLE 3.2

SUMMARY OF LEACHATE DISCHARGE FLOW TO THE REGIONAL SANITARY SEWER
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Recording Period		*Station No. 2*		*Station No. 3*		*Manhole 14*	
From	*To*	*Total Pump Hours*	*Total Flow (1) (cubic metres)*	*Total Pump Hours*	*Total Flow (2) (cubic metres)*	*Estimated Flow Rate (cubic metres/day)*	*Total Flow Estimate (cubic metres)*
December 28, 1994	January 27, 1995	187.0	2348.71	316.3	2538.30	0.43	13.33
January 28, 1995	February 28, 1995	150.7	1892.78	191.4	1535.98	0.44	13.76
March 1, 1995	March 31, 1995	180.9	2272.10	128.3	1029.60	0.43	13.33
April 1, 1995	April 28, 1995	185.1	2324.85	118.1	947.74	0.43	12.04
April 29, 1995	May 31, 1995	175.1	2199.25	123.8	993.50	0.43	14.19
June 1, 1995	June 30, 1995	80.3	1008.56	79.1	634.77	0.40	12.09
July 1, 1995	July 28, 1995	72.5	910.60	69.8	560.15	0.43	12.04
July 29, 1995	September 12, 1995	123.9	1556.00	93.5	450.33	0.43	19.78
September 13, 1995	October 31, 1995	128.7	1616.46	133.8	1073.74	0.43	21.07
November 1, 1995	December 1, 1995	219.9	2761.94	282.4	2266.26	0.43	13.33
December 1, 1995	December 29, 1995	178.4	2240.70	231.0	1853.73	0.43	12.04
	Sub-Totals		21131.95		13884.10		157.00
	Total	35173.05	cubic metres/ monitoring year				

Notes:

(1) Flow rate - 12.560 cu. m/hr.
(2) Flow rate - 8.025 cu. m/hr.
Information from letters from E. Verticchio, City of Burlington to Michael Skora, Region of Halton. (Appendix E).

TABLE 3.3

HISTORICAL TOTAL LEACHATE DISCHARGE FLOW TO THE REGIONAL SANITARY SEWER 1995 MONITORING PROGRAM BAYVIEW LANDFILL SITE

Year		*Total Leachate Discharge* (m^3)
1987		63,217.1
1988		56,369.5
1989		73,902.6
1990		93,413.33
1991		79,902.22
1992		41,422.58
1993		100,198.63
1994		54,044.83
1995		35,173.05
	Average	66,404.87

TABLE 4.1

SURFACE WATER QUALITY, BACKGROUND
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (3)*	*Background Water Quality - SW9-87(5)*										
		1986	*1987 (2)*	*1988*	*November 1989*	*April 1990*	*April 1991*	*April 1992*	*April 1993*	*April 1994*	*July 1994*	*April 1995*
Conductivity (µmhos/cm) (1)		396 - 782	900 - 910	820	222 /	685	363	263	460	700	600	600
Alkalinity	no decrease >25%	260 - 358	374 - 427	357	54.1 / 52	NA	161	116	258	310	384	337
Hardness		385 - 465	464 - 509	NA	NA / NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std units)	6.5 - 8.5	7.55 - 7.81	6.48 - 6.53	7.27	7.0 / NA	7.39	7.5	7.31	7.99	7.7	7.5	7.6
Temperature (°C)		NA	NA	NA	NA / NA	NA	NA	NA	NA	6.7	17.7	1.3
Phenols (ug/L)	1	<2.00 - 24.4	3.17 - 11.2	<1.0	<1.0 / <1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1
Chloride		5 - 12	8.0 - 8.46	8	1.0 / 2.0	5.0	9.34	1.68	5.02	8.40	8.10	8.10
Sulphate		125 - 145	141 - 150	199	13.0 / <1.0	172	58	71.8	95.1	123	130	162
Iron	0.3	0.01 - 0.25	<0.02 - 0.02	NA	NA / NA	NA	NA	NA	NA	NA	NA	NA
DOC		4 - 5.0	2.0 - 4.5	NA	NA / NA	NA	NA	NA	NA	NA	NA	NA
TKN		0.21 - 0.43	0.21 - 0.29	<0.02	1.18 / 0.59	<0.06	<0.06	<0.06	0.16	0.32	0.62	0.96
Ammonia-N		0.03 - 0.1	0.01 - 0.02	<0.02	<0.03 / <0.02	<0.03	<0.03	<0.03	<0.03	0.16	0.08	0.02
Un-ionized Ammonia (µg/L) (7)	20	NA - NA	NA - NA	NA	NA / NA	NA	NA	<0.8	<0.5	0.7	0.9	0.07
Nitrite-N		<0.002 - 0.004	0.001 - 0.001	NA	NA / NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		<0.01 - 0.30	0.02 - 0.29	NA	NA / NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (4)	18 - 490	<1	24	282 / 400	720	52	4	<2	<1.8	920	<10
Total Coliform (per 100 mL)	1000 (4)	320 - 2,800	200 - 280	500	580 / 960	1600	96	4	48	21	1600	30
Fecal Streptococci (per 100 mL)		<1 - 560	<1	20	470 / 1010	120	180	8	<2	7.8	>1600	100
Escherichia coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	540	<10
Number of Samples Taken		3	2	1	1 / 1	1	1	1	1	1	1	1

Notes:

All results are mg/L unless specified otherwise.
(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986.
(2) Samples collected in March and May 1987.
(3) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(4) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(5) Surface Water location SW9-87 was dry in July 1989, August 1990, July 1991, July 1992, July 1993, October 1994, July 1995, October 1995, and November 1995.
(6) Surface water location SW11-87 was dry in 1987, 1988, August 1990, July 1991, July 1992, July 1993, April 1994, July 1994, April 1995, July 1995, and October 1995.
(7) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994)
J - The associated numerical value is an estimated quantity
< - Less than the Method Detection Limit
NA - Not Analyzed
222/NA - duplicate analysis performed
[ ] - Concentration exceeds associated objective

TABLE 4.1

SURFACE WATER QUALITY, BACKGROUND
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (3)*	*Background Water Quality - SW11-87(6)*					
		November 1989	*April 1990*	*April 1991*	*April 1992*	*April 1993*	*November 1995*
Conductivity (µmhos/cm) (1)		380	517	353 / 353	305 / 305	380	400
Alkalinity	no decrease >25%	74.9	141	129 / 130	131 / 124	156	95.4J/95.4J
Hardness		NA	NA	NA / NA	NA / NA	NA	NA
pH (1) (Std units)	6.5 - 8.5	6.95	7.30	7.5 / 7.5	7.28 / 7.28	7.40	7.7
Temperature (°C)		NA	NA	NA	14.5	9	7.1
Phenols (ug/L)	1	<1.0	<1.0	<1.0 / <1.0	<1.0 / <1.0	<1.0	<1.0/<1.0
Chloride		10.0J	39.0	53.3J / 11.2J	26.4 / 20.4	59.2	6.33/5.65
Sulphate		115J	116	62.4 / 63	82.7 / 80.9	46.4	144/143
Iron	0.3	NA	NA	NA / NA	NA / NA	NA	NA/NA
DOC		NA	NA	NA / NA	NA / NA	NA	NA/NA
TKN		0.45J	0.06	<0.06 / <0.06	0.07 / <0.06	0.33	0.41/0.43
Ammonia-N		<0.02	<0.03	<0.03 / <0.03	0.04 / <0.03	<0.03	<0.01/<0.01
Un-ionized Ammonia (µg/L) (7)	20	NA	NA	NA / NA	1.1 / <0.8	<0.5	<0.07/<0.07
Nitrite-N		NA	NA	NA / NA	NA / NA	NA	NA/NA
Nitrate-N		NA	NA	NA / NA	NA / NA	NA	NA/NA
Fecal Coliform (per 100 mL)	100 (4)	720	<4	400J / 260J	2 / <2	<2	690J/640J
Total Coliform (per 100 mL)	1000 (4)	1,280	108	600J / 360J	3 / <2	100	1500J/1600J
Fecal Streptococci (per 100 mL)		910	6	124J / 328J	9 / 28	44	890J/1000J
Escherichia coli (per 100 mL)	100	NA	NA	NA	NA	NA	690J/640J
Number of Samples Taken		1	1	1 / 1	1 / 1	1	1/1

Notes:

All results are mg/L unless specified otherwise.

(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986.
(2) Samples collected in March and May 1987.
(3) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(4) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(5) Surface Water location SW9-87 was dry in July 1989, August 1990, July 1991, July 1992, July 1993, October 1994, July 1995, October 1995, and November 1995.
(6) Surface water location SW11-87 was dry in 1987, 1988, August 1990, July 1991, July 1992, July 1993, April 1994, July 1994, April 1995, July 1995, and October 1995.
(7) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994)

J - The associated numerical value is an estimated quantity
< - Less than the Method Detection Limit
NA - Not Analyzed
222/NA - duplicate analysis performed
[ ] - Concentration exceeds associated objective

TABLE 4.1

SURFACE WATER QUALITY, BACKGROUND
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

			Background Water Quality - SW12-87										
Parameter (mg/L)	*Objective (3)*	*1987*	*1988*	*November 1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*April 1994*	*July 1994*	*April 1995*	*November 1995*
Conductivity (µmhos/cm) (1)		915 - 925	780 - 1,265	562	550 / 550	416	372	1400	315	500	500	500	600
Alkalinity	no decrease >25%	328 - 719	115 - 336	125	257 / 267	214	221	363	224	272	213	261	243J
Hardness		425 - 897	NA	NA	NA / NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std units)	6.5 - 8.5	6.20 - 6.28	7.6 - 7.65	7.65	8.05 / 8.05	8.0	7.74	8.08	8.49	8.3	8.3	7.9	8.1
Temperature (°C)		NA	NA	NA	NA		13.5	21	8	20	4.3	21.5	1.5	5.6
Phenols (ug/L)	1	<2.0 - 8.29	<1.0	<1.0	<1.0 / <1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1
Chloride		46 - 217	39.9 - 40	17.0J	12 / 9	47.6	8.81	18.4	7.09	10.4	12.5	21.3	47.5
Sulphate		110 - 138	220 - 518	158J	97 / 104	222	55.1	49.2	35.5	46.7	20.9	76.2	110
Iron	0.3	<0.02 - 0.06	NA	NA	NA / NA	NA	NA	NA	NA	NA	NA	NA	NA
DOC		5.0 - 8.5	NA	NA	NA / NA	NA	NA	NA	NA	NA	NA	NA	NA
TKN		0.42 - 1.48	<0.02	0.50J	0.07 / 0.09	<0.06	<0.06	0.06	0.28	0.36	0.99	1.31	0.52
Ammonia-N		0.06 - 0.95	<0.02	<0.02	0.04 / <0.03	<0.03	<0.03	<0.03	<0.03	0.09	<0.01	1.22	<0.01
Un-ionized Ammonia (µg/L) (7)	20	NA	NA	NA	NA / NA	NA	<0.8	<1.1	<0.5	3.2	<1.3	8.99	<0.16
Nitrite-N		0.012 - 0.030	NA	NA	NA / NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		0.01 - 0.56	NA	NA	NA / NA	NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (4)	<1	110 - 750	1520	120J / 24J	46	4	8	<2	13	>1600	4	80.0J
Total Coliform (per 100 mL)	1000 (4)	600 - 6,800	3,400 - 7,100	1460	200 / 140	124	22	250	4	33	>1600	38	200J
Fecal Streptococci (per 100 mL)		<1	170 - 390	1600	83 / 72	72	16	250	<2	4.5	>1600	7	290J
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA / NA	NA	NA	NA	NA	NA	>1600	4	80.0J
Number of Samples Taken		2	2	1	1 / 1	1	1	1	1	1	1	1	1

Notes:

All results are mg/L unless specified otherwise.
(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986.
(2) Samples collected in March and May 1987.
(3) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(4) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(5) Surface Water location SW9-87 was dry in July 1989, August 1990, July 1991, July 1992, July 1993, October 1994, July 1995, October 1995, and November 1995.
(6) Surface water location SW11-87 was dry in 1987, 1988, August 1990, July 1991, July 1992, July 1993, April 1994, July 1994, April 1995, July 1995, and October 1995.
(7) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994)
J - The associated numerical value is an estimated quantity
< - Less than the Method Detection Limit
NA - Not Analyzed
222/NA - duplicate analysis performed
[ ] - Concentration exceeds associated objective

TABLE 4.2

SURFACE WATER QUALITY AT HISTORICAL LEACHATE SEEP LOCATIONS
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (6)*	*Water Quality - SW1-87 (4)*												
		1986	*1987 (2)*	*1988*	*November 1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*April 1994*	*July 1994*	*April 1995*	*November 1995*
Conductivity (µmhos/cm) (1)		581 - 2,900	810 - 840	650	380	586	453	377	1500	450	600	400	500	600
Alkalinity	no decrease >25%	351 - 786	338 - 362	322	133	267	219	192	342	268	275	137	278	204J
Hardness		518 - 962	434 - 493	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std. units)	6.5 - 8.5	7.42 - 8.10	6.35 - 6.48	7.53	7.56	7.9	7.5	7.70	8.05	8.3	8.3	7.9	7.8	8.0
Temperature (°C)		NA	NA	NA	NA	NA	NA	13	24	8	5.4	21.9	1.3	4.9
Phenols (ug/L)	1	<2.0 - 19.0	<2.0	5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloride		54 - 497	8.95 - 12.0	14	20J	7.0	14.4	18.1	17.4	24.9	7.10	7.27	8.61	24.6
Sulphate		128 - 195	125 - 140	112	22.4J	130	51.1	64.7	91.9	70.2	70.7	76.3	98.8	97.1
Iron	0.3	0.05 - 0.70	<0.02 - 0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOC		12.0 - 39.0	2.0 - 3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TKN		3.60 - 41.0	0.29 - 0.44	0.07	0.36J	<0.06	<0.06	0.15	0.42	0.23	0.47	1.21	0.60	1.02
Ammonia-N		4.20 - 35.0	0.03 - 0.04	<0.02	<0.02	<0.03	<0.03	0.06	0.03	0.09	0.19	0.01	0.14	<0.01
Un-ionized Ammonia (µg/L) (9)	20	NA	NA	NA	NA	NA	NA	1.6	1.1	1.6	7.2	0.4	0.81	<0.12
Nitrite-N		0.004 - 0.480	0.003 - 0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		<0.01 - 70.00	0.02 - 0.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (7)	6 - 930	<1	500	440	10	90	12	<1	<2	31	>1600	<10	960J
Total Coliform (per 100 mL)	1000 (7)	2,100 - 800,000	210 - 1,100	1,300	740	144	180	12	14	<2	140	>1600	20	1100J
Fecal Streptococci (per 100 mL)		4 - 4,900	10 - 60	82	1,440	43	384	74	320	<2	22	>1600	10	1400J
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	>1600	<10	960J
Number of Samples Taken		4	2	1	1	1	1	1	1	1	1	1	1	1

Notes:

All results are in mg/L unless specified otherwise.
(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986
(2) Samples collected in March and May 1987
(3) Surface water sampling location SW-872 does not exist after 1987 as a result of installation of the Collection System
(4) Surface water location SW1-87 was dry in July 1989, August 1990, July 1991, July 1993, October 1993, and October 1995.
(5) Surface water location SW3-87 was dry throughout 1987-1995 sampling periods
(6) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(7) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(8) Surface water location SW4-87 was dry throughout 1987-1994, April 1995, July 1995, and October 1995 sampling periods.
(9) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994)
J - The associated numerical value is an estimated quantity
NA - Not analyzed
< - Less than Method Detection Limit
[ ] - Concentration exceeds associated objective

TABLE 4.2

SURFACE WATER QUALITY AT HISTORICAL LEACHATE SEEP LOCATIONS
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (3)*	*Water Quality - SW2-87 (3)*	*Water Quality - SW3-87 (5)*	*Water Quality - SW4-87 (8)*	
		1986	*1986*	*1986*	*November 1995*
Conductivity (µmhos/cm) (1)		2,340 - 4,800	2,100 - 6,000	2,100 - 5,150	400
Alkalinity	no decrease >25%	1,560 - 2,080	866 - 1,770	1,580 - 1,890	130J
Hardness		890 - 1,320	989 - 1,220	1,140 - 1,540	NA
pH (1) (std. units)	6.5 - 8.5	6.77 - 6.94	7.44 - 7.58	7.11 - 7.50	8.2
Temperature (°C)		NA	NA	NA	5.9
Phenols (ug/L)	1	<2.0 - 24.3	<2.0 - 21.1	<2.0 - 35.2	<1.0
Chloride		660 - 849	471 - 841	485 - 834	50.6
Sulphate		<5.0	95 - 135	<5.0 - 65	29.7
Iron	0.3	6.60 - 53.00	0.15 - 3.10	0.14 - 2.10	NA
DOC		68.0 - 110.0	27.0 - 90.0	40.0 - 75.0	NA
TKN		137.00 - 183.00	51.00 - 174.00	101.00 - 179.00	0.59
Ammonia-N		81.00 - 221.00	50.00 - 170.00	83.00 - 174.00	<0.01
Un-ionized Ammonia (µg/L) (9)	20	NA	NA	NA	<0.21
Nitrite-N		<0.002	<0.002 - 0.014	<0.002 - 0.004	NA
Nitrate-N		<0.01 - 0.88	<0.01 - 1.60	<0.01 - 1.66	NA
Fecal Coliform (per 100 mL)	100 (7)	<1 - 4	<1 - 50	<1 - 90	60.0J
Total Coliform (per 100 mL)	1000 (7)	20 - 29,000	3,600 - 600,000	2,100 - 180,000	80.0J
Fecal Streptococci (per 100 mL)		<1 - 60	2 - 610	2 - 1,200	1100J
Escherichia Coli (per 100 mL)	100	NA	NA	NA	60.0J
Number of Samples Taken					

Notes:

All results are in mg/L unless specified otherwise.
(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986
(2) Samples collected in March and May 1987
(3) Surface water sampling location SW-872 does not exist after 1987 as a result of installation of the Collection System
(4) Surface water location SW1-87 was dry in July 1989, August 1990, July 1991, July 1993, October 1993, and October 1995.
(5) Surface water location SW3-87 was dry throughout 1987-1995 sampling periods
(6) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(7) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(8) Surface water location SW4-87 was dry throughout 1987-1994, April 1995, July 1995, and October 1995 sampling periods.
(9) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994)
J - The associated numerical value is an estimated quantity
NA - Not analyzed
< - Less than Method Detection Limit
[ ] - Concentration exceeds associated objective

TABLE 4.3

SURFACE WATER QUALITY, EAST OF KING ROAD
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (4)*	*Water Quality - SW5-87 (2)*												
		1986	*March 1987*	*1988 (3)*	*November 1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*April 1994*	*July 1994*	*April 1995*	*November 1995*
Conductivity (uhmos/cm) (1)		668 - 1,880	1,585	1,245 - 2,050	495	1,378	716	593	3,300	865	1500	1,500	1,500	1000
Alkalinity	no decrease >25%	397 - 677	566	448 - 637	135	371	223	204	568	340	439	300	278	258J
Hardness		550 - 840	664	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std. units)	6.5 - 8.5	7.11 - 7.63	6.38	7.30 - 7.35	7.53	7.52	7.5	7.52	7.66	8.05	7.6	7.9	7.7	7.9
Temperature (°C)		NA	NA	NA	NA	NA	NA	13.5	21	8	5	21	1.4	5.6
Phenols (ug/L)	1.0	<2.0 - 17.9	24.6	<1.0 - 7.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1	<1
Chloride		90 - 242	157	130 - 560	32J	249	120	84.3	301	168	178	313	335	132
Sulphate		80 - 125	110	87.8 - 93.8	103J	134	451	106	108	90.3	114	72.4	92.7	82.0
Iron	0.3	0.03 - 1.35	<0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOC		5.0 - 14.0	8.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TKN		0.97 - 1.64	1.69	0.40 - 0.70	0.37J	0.65	<0.06	<0.06	0.95	0.17	<0.10	1.64	0.88	0.88
Ammonia-N		0.63 - 1.81	0.99	<0.02	<0.02	0.52	<0.03	<0.03	0.03	0.14	<0.01	0.03	<0.01	<0.01
Un-ionized Ammonia (µg/L) (6)	20	NA	NA	NA	NA	NA	NA	<0.8	1.1	0.3	<0.04	1.2	<0.05	<0.10
Nitrite-N		0.012 - 0.130	0.030	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		<0.01 - 0.76	0.43	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (5)	14 - 98	<1	60 - 1,300	512	4	400	NA	10	<2	2	>1,600	<10	100J
Total Coliform (per 100 mL)	1,000 (5)	500 - 83,000	830	440 - 3,900	980	20	580	NA	10	<2	11	>1,600	<10	300J
Fecal Streptococci (per 100 mL)		8 - 340	10	<1.0 - 370	1440	128	102	NA	240	<2	22	>1,600	20	1000J
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	540	<10	100J
Number of Samples Taken		4	1	2	1	1	1	1	1	1	1	1	1	1

Notes:

All results are mg/L unless specified otherwise
(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986
(2) Surface water location SW5-87 was dry in July 1989, August 1990, July 1991, July 1993, October 1994, July 1995, and October 1995.
(3) Samples collected in May and August 1988
(4) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(5) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(6) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994)
J - The associated numerical value is an estimated quantity
< - Less than Method Detection Limit
[ ] - Concentration exceeds associated objective

TABLE 4.4

SURFACE WATER QUALITY, KING ROAD AND NORTH SERVICE ROAD
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (3)*	*Water Quality - SW10-87 (2)*															
		1986	*1987*	*1988*	*1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*July 1993*	*April 1994*	*July 1994*	*April 1995*	*July 1995*	*November 1995*
Conductivity (µmhos/cm) (1)		495 - 971	700 - 1,400	780 - 1,110	521	684	544	475	1680	425	840 / 840	700	600	700	1200	1100
Alkalinity	no decrease >25%	245 - 331	317 - 350	263 - 322	154	277	226	210	294	245	282 / 282	279	157	270	271	243J
Hardness		262 - 500	399 - 732	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std. units)	6.5 - 8.5	7.89 - 8.39	6.9 - 7.96	7.68 - 7.99	7.70	8.06	7.5	8.04	7.95	8.24	8.3 / 8.3	8.3	8.1	7.5	8.2	7.9
Temperature (°C)		NA	NA	NA	NA	NA	NA	14	20	8	18	7.4	21.5	1.4	18.5	5.4
Phenols (ug/L)	1.0	<2.0 - 190.0	<2.0 - 5.04	<1 - 37	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 / <1.0	<1	<1	<1	1	<1
Chloride		42 - 107	30 - 47.7	50 - 131	30.0J	31.5	43.6	29.3	51.6	19.1	62.5 / 63.0	27.8	41.0	61.2	194	104
Sulphate		58 - 195	93 - 250	130 - 202	107J	149	68.0	102	160	67.2	108 / 108	82.1	126	152	184	282
Iron	0.3	<0.02 - 1.36	<0.02 - 0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOC		3.5 - 6.5	2.5 - 6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TKN		0.25 - 0.49	0.12 - 0.27	<0.02	0.50J	<0.06	0.09	0.24	0.26	0.49	0.52 / 0.48	0.35	1.34	0.33	0.34	0.71
Ammonia-N		0.03 - 1.20	<0.01 - 0.15	<0.02 - 1.26	<0.02	<0.03	<0.03	<0.03	0.03	<0.03	<0.03 / <0.03	0.14	0.01	<0.01	0.05U	<0.01
Un-ionized Ammonia (µg/L) (5)	20	NA	NA	NA	NA	NA	NA	<0.8	1.1	<0.5	<1.1 / <1.1	6.7	0.4	<0.03	2.66	<0.10
Nitrite-N		<0.002 - 0.004	<0.001 - 0.004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		<0.01 - 0.16	0.02 - <1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (4)	16 - 2,500	<1 - 3,100	160 - 1,700	840	146	100	24	<1	<2	5 / <2	11	>1600	<1	160	950J
Total Coliform (per 100 mL)	1000(4)	430 - 600,000	<1 - 18,000	20 - 8,300	900	264	210	30	240	40	350 / 640	350	>1600	22	290	1800J
Fecal Streptococci (per 100 mL)		2 - 1,300	40 - 2,300	58 - 440	1,140	70	136	18	200	<2	240 / 290	9.2	>1600	6	94	790J
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	>1600	<1	160	950J
Number of Samples Taken		4	6	3	1	1	1	1	1	1	2	1	1	1	1	1

Notes:

All results are mg/L unless specified otherwise.

(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986.

(2) Sample location SW10 was dry in July 1989, August 1990, July 1991, and October 1995.

(3) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).

(4) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).

(5) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994).

NA - Not analyzed

< - Less than Method Detection Limit

[ ] - Concentration exceeds associated objective

TABLE 4.5

SURFACE WATER QUALITY, NORTH SERVICE ROAD
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (5)*	*WATER QUALITY - SW6-87 (4)*												
		1986	*1987 (2)*	*1988*	*November 1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*July 1993*	*April 1994*	*April 1995*	*November 1995*
Conductivity (µmhos/cm) (1)		510 - 933	800 - 870	680 - 840	470	637	475	418	1,730 / 1,730	460	610	700	600	700
Alkalinity	no decrease >25%	255 - 358	318 - 367	230 - 364	156	273	218	210	334 / 334	259	304	292/288	288	251J
Hardness		425 - 540	412 - 461	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std. units)	6.5 - 8.5	8.15 - 8.17	6.41 - 6.42	7.04 - 7.05	7.55	7.95	7.5	7.94	8.06 / 8.06	8.06	8.4	8.2	7.8	7.9
Temperature (°C)		NA	NA	NA	NA	NA	NA	14	25	13	19	6.8	1.2	6.0
Phenols (µg/L)	1.0	<2.0 - 79.3	<2.0 - 4.24	0.014 - 1.00	<1.0	<1.0	<1.0	<1.0	<1.0 / <1.0	<1.0	<1.0	<1/<1	<1	<1
Chloride		46 - 73	28 - 32.8	22.7 - 34.0	15.0J	17.0	12.4	12.7	30.3 / 34.7	16.2	18.6	20.6/23.3	30.7	27.4
Sulphate		105 - 150	134 - 145	67.1 - 163	89.4J	142	82.2	79.7	122 / 122	62.6	102	87.1/95.1	136	133
Iron	0.3	<0.02 - 0.30	<0.02 - 0.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOC		5.0 - 11.0	3.0 - 6.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TKN		0.55 - 0.79	0.45 - 0.53	<0.02 - 0.48	0.42J	<0.06	<0.06	0.14	0.23 / 0.19	0.42	0.52	0.35J/<0.10UJ	0.33	0.34
Ammonia-N		0.10 - 1.40	0.02 - 0.04	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03 / <0.03	<0.03	<0.03	0.14J/<0.01UJ	0.02	<0.01
Un-ionized Ammonia (µg/L) (9)	20	NA	NA	NA	NA	NA	NA	<0.8	<1.1 / <1.1	<0.5	<1.1	2J/<0.1UJ	0.11	<0.11
Nitrite-N		0.003 - 0.016	0.001 - 0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		<0.01 - 1.10	<0.01 - 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (6)	18 - 1,700	<1.0	290 - 2,000	940	140	110	NA	<1 / <1	<2	290	17/33	2	550J
Total Coliform (per 100 mL)	1000 (6)	940 - 33,000	1,400 - 1,600	5,700 - 18,000	1,260	336	180	NA	2 / <1	16	1,000	280/920	25	740J
Fecal Streptococci (per 100 mL)		12 - 1,600	10 - 270	400 - 590	720	91	184	NA	250 / 200	<2	250	13/17	8	1000J
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2	550J
Number of Samples Taken		3	2	2	1	1	1	1	1 / 1	1	1	2	1	1

Notes:

All results are mg/L unless specified otherwise

(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986.
(2) Samples collected in March and May 1987.
(3) Samples collected in March, May and November 1987.
(4) Surface water location SW6-87 was dry in July 1989, August 1990, July 1991, July 1994, October 1994, July 1995, and October 1995.
(5) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(6) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(7) Surface water location SW7-87 was dry in July 1989, August 1990, July 1991, October 1994, July 1995, and October 1995.
(8) Surface water location SW8-87 was dry in July 1989, August 1990, July 1991, October 1994, July 1995, and October 1995.
(9) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994).

J - The associated value is an estimated quantity
< - Less than Method Detection Limit
NA - Not analyzed
1,730/1,730 duplicate analysis performed
[ ] - Concentration exceeds associated objective
UJ - The analyte was not detected above the reported quantitation limit, however, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 4.5

SURFACE WATER QUALITY, NORTH SERVICE ROAD
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (5)*	*WATER QUALITY - SW7-87 (7)*														
		1986	*1987 (3)*	*1988*	*November 1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*July 1993*	*April 1994*	*July 1994*	*April 1995*	*November 1995*
Conductivity (µmhos/cm) (1)		1,150 - 3,060	1,525 - 2,120	1,400 - 20,100	1,573	1,060	725	710	2800	670	1,000	800	800	900	1300
Alkalinity	no decrease >25%	573 - 637	410 - 447	380 - 412	281	348	282	324	414	341	412	324	294/272	307	303J
Hardness		703 - 851	540 - 788	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std. units)	6.5 - 8.5	7.97 - 8.28	6.89 - 7.67	6.80 - 7.45	7.69	7.95	7.5	7.98	7.92	8.35	8.2	8.5	7.5	7.9	7.6
Temperature (°C)		NA	NA	NA	NA	NA	NA	13.5	23	9	20	6.4	19.7	1.2	5.9
Phenols (µg/L)	1.0	<2.0 - 10.4	<2.0 - 15.1	<1.0 - 4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1/<1	<1	<1
Chloride		475 - 646	183 - 1192	200 - 293	266J	117	83.7	118	166	296	93.2	72.2	78.9/72.6	138	186
Sulphate		10 - 120	120 - 300	202 - 367	400J	176	86.2	115	161	307	80.9	84.9	62.4/59.4	153	216
Iron	0.3	0.03 - 0.75	<0.02 - 0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOC		12.0 - 32.0	7.5 - 13.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TKN		0.19 - 192.00	0.19 - 0.83	0.18 - 0.77	0.62J	<0.06	<0.06	0.20	0.32	1.06	0.90	0.38	1.58/1.04	0.54	0.52
Ammonia-N		0.05 - 20.00	0.02 - 0.11	<0.02	<0.02	<0.03	<0.03	<0.03	0.03	0.90	<0.03	0.10	0.01/0.01	<0.01	<0.01
Un-ionized Ammonia (µg/L) (9)	20	NA	NA	NA	NA	NA	NA	<0.8	1.1	16.20	<1.1	4.1	0.1/0.1	<0.07	<0.05
Nitrite-N		0.020 - 0.200	<0.001 - 0.011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		<0.01 - 77.00	<1.0 - 1.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (6)	60 - 380	<1.0 - 10	12 - 1,600	246	8	104	28	<1	<2	2,800	1	>1600/>1600	1	120J
Total Coliform (per 100 mL)	1000 (6)	1,000 - 520,000	480 - 900	900 - 6,800	820	100	150	32	<1	96	13,000	6	>1600/>1600	6	120J
Fecal Streptococci (per 100 mL)		2 - 4,600	58 - 140	120 - 400	330	11	292	68	500	<2	290	11	>1600/>1600	11	150J
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	>1600/>1600	1	120J
Number of Samples Taken		4	3	2	1	1	1	1	1	1	1	1	2	1	1

Notes:

All results are mg/L unless specified otherwise
(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986.
(2) Samples collected in March and May 1987.
(3) Samples collected in March, May and November 1987.
(4) Surface water location SW6-87 was dry in July 1989, August 1990, July 1991, July 1994, October 1994, July 1995, and October 1995.
(5) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(6) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(7) Surface water location SW7-87 was dry in July 1989, August 1990, July 1991, October 1994, July 1995, and October 1995.
(8) Surface water location SW8-87 was dry in July 1989, August 1990, July 1991, October 1994, July 1995, and October 1995.
(9) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994).
J - The associated value is an estimated quantity
< - Less than Method Detection Limit
NA - Not analyzed
1,730/1,730 duplicate analysis performed
[ ] - Concentration exceeds associated objective
UJ - The analyte was not detected above the reported quantitation limit, however, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 4.5

SURFACE WATER QUALITY, NORTH SERVICE ROAD
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (5)*	*WATER QUALITY - SW8-87 (8)*														
		1986	*1987 (3)*	*1988*	*November 1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*July 1993*	*April 1994*	*July 1994*	*April 1995*	*November 1995*
Conductivity (µmhos/cm) (1)		374 - 1,590	815 - 1,040	730 - 1,094	485	566	443	438	1800	420	800	600	800	600	800
Alkalinity	no decrease >25%	225 - 488	283 - 350	336 - 382	154	253	190	201	400	233	331	269	342	222/289	278J
Hardness		343 - 1,030	358 - 538	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH (1) (Std. units)	6.5 - 8.5	7.10 - 8.16	6.26 - 7.31	7.34 - 7.52	7.30	7.75	7.5	7.80	7.52	7.92	8.4	8.4	7.5	7.7	7.6
Temperature (°C)		NA	NA	NA	NA	NA	NA	14.5	21	9	19	7.3	22.2	1.2	6.4
Phenols (µg/L)	1.0	<2.0 - 106.0	<2.0 - 16.5	<1.0 - 7.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1/<1	<1
Chloride		39 - 171	30 - 31.8	37.8 - 40.0	41.0J	28.5	30.3	43.3	41.4	31.8	24.4	38.4	49.5	49.9/63.7	50.8
Sulphate		54 - 137	85 - 170	62.7 - 226	57.2J	48	29.9	50.3	66.4	51.9	58.0	54.6	44.2	79.0/93.2	82.0
Iron	0.3	<0.02 - 0.75	0.02 - 0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DOC		5.0 - 9.5	3.0 - 5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TKN		0.40 - 1.04	0.15 - 0.61	<0.02 - 6.29	0.44J	<0.06	<0.06	0.14	0.10	0.58	1.20	0.24	1.42	0.51J/1.46J	0.18
Ammonia-N		0.04 - 0.32	0.01 - 0.09	<0.02	<0.02	<0.03	<0.03	<0.03	0.03	0.08	<0.03	0.15	0.01	0.02J/1.38J	<0.01
Un-ionized Ammonia (µg/L) (9)	20	NA	NA	NA	NA	NA	NA	<0.8	1.1	1.40	<1.1	6.7	0.1	0.09/6.27	<0.06
Nitrite-N		0.004 - 0.020	<0.001 - 0.053	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N		<0.01 - 0.29	0.01 - <1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fecal Coliform (per 100 mL)	100 (6)	12 - 3,500	<1.0	34 - 5,000	680	124	56	4	<1	<2	1,500	540	>1600	<10/<10	210J
Total Coliform (per 100 mL)	1000 (6)	2,100 - 400,000	110 - 1,300	370 - 120,000	740	152	144	4	<1	16	4,500	920	>1600	30/60	280J
Fecal Streptococci (per 100 mL)		2 - 3,600	10 - 60	220 - 1,400	1,080	15	152	20	320	<2	1,300	1.8	>1600	<10/<10	720J
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	>1600	<10/<10	210J
Number of Samples Taken		4	3	2	1	1	1	1	1	1	1	1	1	1	1

Notes:

All results are mg/L unless specified otherwise

(1) pH and Conductivity measured in the field in 1987 to 1993, and in the laboratory during 1986.
(2) Samples collected in March and May 1987.
(3) Samples collected in March, May and November 1987.
(4) Surface water location SW6-87 was dry in July 1989, August 1990, July 1991, July 1994, October 1994, July 1995, and October 1995.
(5) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).
(6) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).
(7) Surface water location SW7-87 was dry in July 1989, August 1990, July 1991, October 1994, July 1995, and October 1995.
(8) Surface water location SW8-87 was dry in July 1989, August 1990, July 1991, October 1994, July 1995, and October 1995.
(9) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994).

J - The associated value is an estimated quantity
< - Less than Method Detection Limit
NA - Not analyzed
1,730/1,730 duplicate analysis performed
[ ] - Concentration exceeds associated objective
UJ - The analyte was not detected above the reported quantitation limit, however, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 4.6

SURFACE WATER QUALITY, ALDERSHOT
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (2)*	*WATER QUALITY - SW13-88 (1)*										
		1988	*November 1989*	*April 1990*	*April 1991*	*April 1992*	*July 1992*	*April 1993*	*July 1993*	*April 1994*	*April 1995*	*November 1995*
Conductivity (µmhos/cm) (1)		1,080 - 1,723	646	870	596	538	3,050	560	920	1000	1200	1200
Alkalinity	no decrease >25%	254 - 332	175	287	227	220	334	265	297	290	229	264J
pH (Std. units)	6.5 - 8.5	7.39 - 8.10	7.57	8.11	7.5	7.92	8.26	8.40	8.4	8.4	7.6	7.8
Temperature (°C)		NA	NA	NA	NA	14	23	7	19	6.7	1.7	6.2
Phenols (µg/L)	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1	<1	<1.0
Chloride		130 - 353	64.0J	82.0	75.2	61.4	170	56.5	176	91.3	127	177
Sulphate		164 - 202	105J	172	67.7	85.8	151	86.2	144	99.4	152	182
TKN		0.19 - 0.87	0.55J	<0.06	<0.06	0.24	0.25	0.32	1.31	0.32	0.46	0.55
Ammonia-N		<0.02 - 0.26	<0.02	<0.03	<0.03	<0.03	<0.03	0.18	<0.03	0.12	<0.01	<0.01
Un-ionized Ammonia (µg/L) (4)	20	NA	NA	NA	NA	<0.8	<1.1	3.24	<1.1	5.3	<0.04	<0.09
Fecal Coliforms (per 100 mL)	100 (3)	142 - 2,100	520	168	80	4	<1	<2	520	<1	<1	140J
Total Coliforms (per 100 mL)	1000 (3)	900- 24,000	960	260	170	14	2	24	11,000	9	9	300J
Fecal Streptococci (per 100 mL)		120 - 3,400	960	62	224	50	400	4	360	6	6	570J
Escherichia Coli (per 100 mL)	100	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	140J
Number of Samples Taken		2	1	1	1	1	1	1	1	1	1	1

Notes:

All results are mg/L unless specified otherwise

(1) Surface water location SW13-88 was dry in July 1989, August 1990, July 1991, July 1994, July 1995, and October 1995.

(2) Provincial Water Quality Objectives and Guidelines (PWQO/G), MOEE (July 1994).

(3) Guideline no longer in place but used as a benchmark for long-term monitoring, PWQO/G, MOEE (July 1994).

(4) Un-ionized ammonia = (Ammonia concentration) x (correction factor). Correction factors (a function of temperature and pH) obtained from Provincial Water Quality Objectives and Guidelines, MOEE (July 1994).

J - The associated value is an estimated quantity

< - Less than Method Detection Limit

☐ - Concentration exceeds associated objective

TABLE 4.7

SURFACE WATER QUALITY COMPARISON (APRIL 1995)
UPSTREAM AND DOWNSTREAM LOCATIONS
1995 MONITORING PROGRAM
BAYVIEW PARK LANDFILL SITE

Parameter (mg/L)(1)	*Background SW9-87*	*Landfill Vicinity SW1-87*	*Downstream SW6-87*
pH	7.6	7.8	7.8
Temperature (°C)	1.3	1.3	1.2
Conductivity (umhos/cm)	600	500	600
Alkalinity	337	278	288
Phenols (µg/L)	<1	<1	<1
Chloride	8.10	8.61	30.7
Sulphates	162	98.8	136
TKN	0.96	0.60	0.33
Ammonia	0.02	0.14	<0.01
Unionized Ammonia (µg/L)	0.07	0.81	<0.11
Fecal Coliform (per 100 mL)	<10	<10	2
Total Coliform (per 100 mL)	30	20	25
Fecal Streptococci (per 100 mL)	100	10	8
Escherichia Coli (per 100 mL)	<10	<10	2

Parameter (mg/L)(1)	*Background SW11-87*	*Landfill Vicinity SW5-87*	*Downstream SW10-87*
pH	Dry	7.7	7.5
Temperature (°C)		1.4	1.4
Conductivity (umhos/cm)		1500	700
Alkalinity		278	270
Phenols (µg/L)		<1	<1
Chloride		335	61.2
Sulphates		92.7	152
TKN		0.88	0.33
Ammonia		<0.01	<0.01
Unionized Ammonia (µg/L)		<0.05	<0.03
Fecal Coliform (per 100 mL)		<10	<1
Total Coliform (per 100 mL)		<10	22
Fecal Streptococci (per 100 mL)		20	6
Escherichia Coli (per 100 mL)		<10	<1

Note:

(1) Concentrations are expressed in mg/L unless noted otherwise.

TABLE 4.8

SURFACE WATER QUALITY COMPARISON (November 1995)
UPSTREAM AND DOWNSTREAM LOCATIONS
1995 MONITORING PROGRAM
BAYVIEW PARK LANDFILL SITE

Parameter (mg/L) (1)	*Background SW9-87*	*Landfill Vicinity SW1-87*	*Downstream SW6-87*
pH	Dry	8.0	7.9
Temperature (°C)		4.9	6.0
Conductivity (umhos/cm)		600	700
Alkalinity		204J	251J
Phenols (µg/L)		<1.0	<1
Chloride		24.6	27.4
Sulphates		97.1	133
TKN		1.02	0.34
Ammonia		<0.01	<0.01
Unionized Ammonia (µg/L)		<0.12	<0.11
Fecal Coliform (per 100 mL)		960J	550J
Total Coliform (per 100 mL)		1100J	740J
Fecal Streptococci (per 100 mL)		1400J	1000J
Escherichia Coli (per 100 mL)		960J	550J

Parameter (mg/L) (1)	*Background SW11-87*	*Landfill Vicinity SW5-87*	*Downstream SW10-87*
pH	7.7	7.9	7.9
Temperature (°C)	7.1	5.6	5.4
Conductivity (umhos/cm)	400	1000	1100
Alkalinity	95.4J/95.4J	258J	243J
Phenols (µg/L)	<1.0/<1.0	<1	<1
Chloride	6.33/5.65	132	104
Sulphates	144/143	82.0	282
TKN	0.41/0.43	0.88	0.71
Ammonia	<0.01/<0.01	<0.01	<0.01
Unionized Ammonia (µg/L)	<0.07/<0.07	<0.10	<0.10
Fecal Coliform (per 100 mL)	690J/640J	100J	950J
Total Coliform (per 100 mL)	1500J/1600J	300J	1800J
Fecal Streptococci (per 100 mL)	890J/1000J	1000J	790J
Escherichia Coli (per 100 mL)	690J/640J	100J	950J

Note:

(1) Concentration expressed in mg/L unless otherwise noted.

TABLE 4.9

SUMMARY OF DETECTED METALS
LEACHATE COLLECTION SYSTEM
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*Objective (1)*	*April 6, 1995*		*October 19, 1995*	
		(MH15)	*Field Blank*	*(MH15)*	*Field Blank*
Copper	3	3.77	0.007	0.485	0.004
Manganese	5	0.821	<0.001	0.81	0.002
Nickel	3	0.012	<0.01	<0.01	<0.01
Lead	3	0.066	<0.025	0.026	<0.025
Vanadium	5	0.009	<0.003	<0.003	<0.003
Zinc	3	0.129	0.005	<0.003	<0.003
Barium	--	0.384	<0.003	0.391	<0.001
Iron	--	17.2	0.013	6.12	0.010
Aluminum	50	0.151U	0.071	0.039U	0.034
Chromium	3	0.005	<0.005	<0.005	<0.005
Antimony	5	<0.002	0.002	0.023	<0.002
Arsenic	1	0.004U	0.002	0.004	<0.002
Cyanide, Total	2	<0.005	<0.005	0.006J	<0.005UJ
Mercury	0.1	<0.001	<0.001	<0.001UJ	<0.001UJ

Notes:

all units in mg/L = ppm unless otherwise stated
(1) Halton Regional By-Law Parameters, By-Law 192-89 Limits (Section 2)
MH15 - Manhole location
NA - Not analyzed
< - Less than method detection limit
-- - No Halton Regional By-Law limit specified
U - The material was analyzed for but not detected above the sample quantitation limit
Qualification due to lab and/or field blank contamination.

TABLE 4.10

SUMMARY OF DETECTED GENERAL CHEMISTRY PARAMETERS
LEACHATE COLLECTION SYSTEM
1994 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Parameter (mg/L)		*April 6, 1995*		*October 19, 1995*	
	Objective (1)	*(MH15)*	*Field Blank*	*(MH15)*	*Field Blank*
pH (std. units)	6.0 - 10.0	7.5	8.6	7.54	8.80
Conductivity (µmhos/cm)	--	2,800	0	4040	NA
Temperature °C	--	7.2	2.7	13.6	14.0
Alkalinity	--	431	<1.0	1184	7.6
BOD	300	8	<2	73	<2
Chloride	1,500	328	<0.10	569	0.73
COD	--	142	<5	151	<5
Hardness	--	847	<1.0	1,020	2
Ammonia	--	110	<0.01	52.7	<0.01
Unionized Ammonia	--	515.20	<0.39	444.71	1.38
TKN	100	110	<0.10	95	<0.10
Phenols	1.0	0.008	<0.001	0.009	<0.001
Total Phosphorus	10	0.58	<0.01	0.82	<0.01
TSS	350	100	<1	152	<1
Sulphate	1,500	174	<0.10	181	0.34

Notes:

All units in mg/L = ppm unless otherwise stated
(1) Halton Regional By-Law Parameters, By-Law 192-89 Limits (Section 2)
MH15 - Manhole location
NA - Not analyzed
< - Less than method detection limit
-- - No Halton Regional By-Law limit specified
[ ] - Exceeds applicable objective

TABLE 4.11

SUMMARY OF DETECTED PRIORITY POLLUTANTS
LEACHATE COLLECTION SYSTEM
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

		April 6, 1995		*October 19, 1995*	
	Objective(1)	*MH15*	*Field Blank*	*MH15*	*Field Blank*
Volatile Organic Compounds					
Ethylbenzene	2.4	<0.5	<0.5	1.0U	1.6
Chlorobenzene	80	18	<0.5	4.4U	4.4
Benzene	5	1.2	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	5	2.0	<1	2.1U	2.1
Toluene	24.0	<0.5	<0.5	<0.5	1.0
O-Xylene	300	<0.5	<0.5	3.1U	5.2
P&M-Xylene	300	<0.5	<0.5	6.1U	9.9
Semi-Volatiles					
Bis(2-Ethylhexyl)Phthalate	-	TR(2)J	TR(2)J	<2.0	<2.0
Pesticides					
Carbaryl	90	<2.0	<2.0	5.3	<5.0

Notes:

All units µg/L unless specified otherwise.
(1) - MOEE Drinking Water Objectives (Maximum acceptable concentration, March 1994)
MH15 - Manhole location.
MDL - Method Detection Limit.
< - Less than Method Detection Limit.
- - Not Available
U - The compound was undetected above the associated detection limit.
J - The associated numerical value is an estimated quantity.
NA - Not Analyzed
TR - Trace

986000

TABLE 4.12

OFF-SITE OBSERVATION WELLS MONITORED
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

Well	*Depth*	*Formation Monitored*	*Location*	*Comments*
HC4-2	17.72 m bTOC	Queenston Shale	Across gradient of landfill	Shallow System
HC4-3	11.60 m bTOC	Queenston Shale	Across gradient of landfill	Shallow System
HC4-4	6.45 m bTOC	Queenston Shale	Across gradient of landfill	Shallow System
HC6-2	22.0 m bTOC	Shale Bedrock	400 m downgradient of landfill	Destroyed
HC6-3	8.63 m bTOC	Shale Bedrock	400 m downgradient of landfill	Destroyed
HC7-1	30.5 m bTOC	Shale Bedrock	300 m downgradient of landfill	Deep System
HC7-2	18.21 m bTOC	Shale Bedrock	300 m downgradient of landfill	Shallow System
HC9-2	15.16 m bTOC	Shale Bedrock	Southeast of Hwy 403	Deep System
HC9-3	9.58 m bTOC	Till/bedrock contact	Southeast of Hwy 403	Shallow System
PW1	31.36 mbTOC	Shale Bedrock	North of North Service Rd.	Deep System
PW3	8.07 mbTOC	Shale Bedrock	160 m downgradient of landfill	Shallow System

Note:

mbTOC - metres below top of casing.
Locations HC4-3, HC6-2 and HC6-3 are no longer sampled as these wells have been destroyed.

TABLE 4.13

GENERAL CHEMISTRY OF OFF-SITE PUMPING WELLS
1995 MONTORING RESULTS
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*MDL*	*Objective (1)*	*PW1-86*		*PW3-86*		*Field Blank*	
			April 1995	*July 1995*	*April 1995*	*July 1995*	*April 1995*	*July 1995*
pH (std. units)		6.5 - 8.5	7.6	7.6	7.3	7.4	8.6	8.3
Conductivity (µmhos/cm)		-	11,100	10,000	3,900	2,300	0.0	NA
Alkalinity	1.0	-	66.5	59 / 59.5	302 / 244	560	<1.0	5.0
Chloride	0.10	250	2,440	2,630 / 2,856	511 / 522	427	<0.10	<0.10
Ammonia	0.01	-	8.05	7.52 / 6.93	1.26 / 1.27	0.92	<0.01	<0.01
TKN	0.10	-	12.40	7.66 / 7.44	2.31 / 2.24	1.32	<0.10	<0.10
Phenols	0.001	-	<0.001	<0.001 / <0.001	<0.001 / <0.001	<0.001	<0.001	<0.001

Notes:

All results are in mg/L unless specified otherwise.
(1) - MOEE Drinking Water Objectives (January 1994)
< - Less than Method Detection Limit.
MDL - Method Detection Limit.
- - Not Available.
77/62 - Duplicate samples.
NA - Not Analyzed.
[ ] - Exceeds applicable objective.

TABLE 4.14

GENERAL CHEMISTRY OF OFF-SITE OBSERVATION WELLS
1995 MONTORING RESULTS
BAYVIEW LANDFILL SITE

Parameter (mg/L)	*MDL*	*Objectives (1)*	*HC4-2*		*HC4-4*	
			April 1995	*July 1995*	*April 1995*	*July 1995*
pH (std. units)		6.5 - 8.5	8.80	7	7.6	7.2
Conductivity (µmhos/cm)		-	3,700	4,000	1,500	1,700
Alkalinity	1	-	183	266 / 264	176	332
Phenols	0.001	-	<0.001	<0.001 / <0.001	<0.001	<0.001
Chloride	0.10	250	629	388 / 400	50.0	20.9
Nitrogen-TKN	0.10	-	8.70	2.83 / 2.56	1.66	1.39
Ammonia-Nitrogen	0.01	-	5.97	2.70 / 2.70	0.07	0.01

Notes:

All results are in mg/L unless specified otherwise.

(1) MOEE Drinking Water Objectives (January 1994).

< - Less than the Method Detection Limit.

MDL - Method Detection Limit.

— - Not Available.

328/318 - Duplicate Samples.

J - The associated numerical value is an estimated quantity.

UJ - The analyte was not detected above the reported quantitation limit; however, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

[ ] - Exceeds applicable objective.

TABLE 4.14

GENERAL CHEMISTRY OF OFF-SITE OBSERVATION WELLS
1995 MONTORING RESULTS
BAYVIEW LANDFILL SITE

Parameter	*MDL*	*Objectives (1)*	*HC7-1*		*HC7-2*		*HC9-2*		*HC9-3*	
			April 1995	*July 1995*	*April 1995*	*July 1995*	*April 1995*	*July 1995*	*April 1995*	*July 1995*
pH (std. units)		6.5 - 8.5	7.8	7.6	7.6	7.2	7.8	7.3	7.8	7.2
Conductivity (µmhos		-	4,800	9,200	1,400	1,100	>19,000	12,800	3,800	2,000
Alkalinity	1	-	137 / 170	68.5	184	352	22.4	71.5	273	302
Phenols	0.001	-	<0.001 / <0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Chloride	0.10	250	1,110 / 1,273	5,055	144	146	11,227	5,973	269	232
Nitrogen-T	0.10	-	2.49 / 2.85	9.23	0.53	0.59	17.4	7.55	1.28	0.45
Ammonia-	0.01	-	1.82 / 1.94	9.08	0.27	0.52	13.2	7.55	0.6	0.45

Notes:

All results are in mg/L unless specified otherwise.
(1) MOEE Drinking Water Objectives (January 1994).
< - Less than the Method Detection Limit.
MDL - Method Detection Limit.
– - Not Available.
328/318 - Duplicate Samples.
J - The associated numerical value is an estimated quantity.
UJ - The analyte was not detected above the reported quantitation limit; however, the reported quantitation is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
[ ] - Exceeds applicable objective.

APPENDIX A

CERTIFICATE OF APPROVAL

Ontario

NOTICE

OF THE ENVIRONMENT

JUL 17 1986

CENTRAL REGION
OAKVILLE OFFICE

TO: The Corporation of the
City of Burlington
P.O. Box 5013
426 Brant Street
Burlington, Ontario L7R 3Z6

ATTENTION: MS. HELEN MACRAE, CLERK

Take Notice that condition no. 1 of Provisional Certificate of Approval No. A 210103, dated October 11, 1973, is hereby revoked and replaced with the following conditions:

1. Prior to the excavation of any waste in connection with the construction of a leachate collection system approved under Certificate of Approval No. 3-0819-86-007, the City shall file with the Director of Central Region of the Ministry of the Environment (the Regional Director) plans and design details for the relocating and covering of the excavated waste and the recontouring of the site. No waste may be excavated or relocated without the approval of the Regional Director and except in accordance with such plans and design details.

2. All excavated waste shall be handled in accordance with the "Health and Safety Protocol" described in a letter from Greg Ferraro, P. Eng. of Conestoga-Rovers & Associates Limited, to Lyle Parsons of the Ministry dated July 14, 1986.

3. Surface improvements shall be completed in accordance with Section 8.0 of the "Detailed Design Report, Leachate Collection System and Surface Drainage Improvements" dated June 1986 and the "Contract Documents for Surface Drainage Improvements" and associated Plans 1 to 4 issued June 20, 1986.

4. The City shall carry out the monitoring and inspection program as approved by the Regional Director with such modifications as may be approved from time to time by the Regional Director. On or before March 1st of each year, the City shall file a report with the Regional Director containing a analysis and evaluation of the monitoring and inspection program for the previous year.

The reasons for the imposition of these conditions are as follows:

1. The reason for condition 1 is to ensure that the relocation of the waste i carried out in accordance with a defined protocol. Not doing so may creat a nuisance and would not be in the public interest.

2. The reason for condition 2 is to protect the health and safety of persons involved in the relocation of the waste.

3. The reason for condition 3 is to reduce infiltration of surface water into the site, to eliminate exposed refuse which is creating a nuisance and to ensure proper control of the site.

4. The reason for condition 4 is to provide for the investigation of groundwater contamination in the area of the site and to ensure that the existing surface water contamination problem is abated by the installatio of the leachate collection system.

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board.

This Notice should be served upon:

The Secretary
Environmental Appeal Board
1 St. Clair Avenue West
5th Floor
Toronto, Ontario M4V 1K7

AND

The Director
Section 38, E.P.A.
Ministry of the Environment
135 St. Clair Ave. W.,
Toronto, Ontario M4V 1P5

Dated at Toronto this 16th day of July, 1986.

Director,
Section 38, E.P.A.,
Ministry of the Environment

Ministry of the Environment / Ministère de l'Environnement
Ontario

Certificate of Approval (Sewage)
Certificat d'autorisation (eaux usées)

Number / *Numéro* 3-0819-86-007

Whereas / ***Attendu que***

THE CORPORATION OF THE CITY OF BURLINGTON

c/o

has applied in accordance with Section 24 of the Ontario Water Resources Act for approval of:
a fait, conformément à l'article 24 de la loi sur les ressources en eau de l'Ontario, une demande d'autorisation:

A new leachate collection, pumping and transmission system to collect and dispose of (into the City of Burlington's municipal sanitary sewer system) surface leachate and contaminated shallow groundwater from the closed Bayview Park sanitay landfill site bounded by King Road to the northeast and the upper reaches of Indian Creek to the southwest in the City of Burlington, consisting of a toe drain system located at the base of a ravine to the west of the landfill area running approximately 250 metres north of the landfill south property line, two pre-fabricated leachate collection sumps having twin (one duty and 1 standby), 1.5 and 2.0 KW explosion proof submersible type pumps, each pump being rated at:

Pump	Rated Head (m)	Rated Capacity (L/min)
2	17.4	225
3	19.9	200

together with all associated pump level controls, access hatch, electrical control panel internal sump piping, fittings and appurtenances as well as a 200 mm buried perforated PVC leachate collector header at each sump location and 50-75 mm diameter high density polyethylene collected leachate forcemains located along the south edge of the landfill fill area discharging to a 200 mm diameter leachate collection sewer and forcemain, the forcemain section of the sewer being located within the fill area of the landfill (southern edge) for a distance of 120 metres to a height of land with the gravity section of the leachate collection sewer continuing along the south side of the landfill to King Road a distance of 470 m. The sewer then turns south following the west ditch of King Road down to the North Service Road, a distance of approximately 590 metres. The gravity sewer then changes diameter to 450 mm and crosses under the North Service Road and Highway 403 at a point 20 m west of the King Road Overpass. The sewer crosses Highway 403 (a distance of 80 m) and then continues south for 127 metres on the west side of King Road to an existing 450 mm municipal sanitary sewer located on King Road, all in accordance with the documents listed in Schedule "A" (attached) at a total estimated cost, including engineering and contingencies, of EIGHT HUNDRED AND FIFTY THOUSAND DOLLARS ($850,000.00), subject to the following special terms and conditions considered necessary by the undersigned:

....2

Now therefore this is to certify that after due enquiry the said proposed works have been approved under Section 24 of the Ontario Water Resources Act.

Le présent document certifie qu'après vérification en bonne et due forme la construction dudit projet d'ouvrages a été approuvée aux termes de l'article 24 de la loi sur les ressources en eau de l'Ontario.

This certificate supercedes Certificate of Approval No. 3-0819-86-006 issued at Toronto, on June 27, 1986.

DATED AT TORONTO this 16th day of July, 1986
DATÉ À TORONTO ce *jour d*

Attn: Ms. H. MacRae, Clerk, City of Burlington
cc: M. Kosvoets, Dir. of Works
M.H. Boggs, Chief Admin. Officer
D.J. Varley, Clerk, R.M. of Halton
J. Tidball, MOE Legal Services Br.
D. Niszynski, MOE C. Reg. Dir.
Conestoga-Rovers & Assoc. Ltd.

cc: G. Nelson, MOE Halton Peel Dist. Office
R.W.J. Moore, Reg. Engr.
S.S. Christensen, National Sewer Pipe

Director / *Directeur*

11/31 OR 84

000994

Ontario Ministry of the Environment / Ministère de l'Environnement

Certificate of Approval (Sewage)
Certificat d'autorisation (eaux usées

Number / *Numéro* 3-0819-86-007

Whereas / *Attendu que*

et / e

has applied in accordance with Section 24 of the Ontario Water Resources Act for approval of:
a fait, conformément à l'article 24 de la loi sur les ressources en eau de l'Ontario, une demande d'autorisation:

SPECIAL TERMS AND CONDITIONS

1. Upon completion of the sewage works the Corporation of the City of Burlington shall supply the Ministry of the Environment, Environmental Approvals and Land Use Planning Branch with as-constructed drawings for the on-site works namely those works between Manhole No. 12 and Manhole No. 21, including all works located within the Bayview Park Landfill site boundary as shown on the engineering drawing entitled Bayview Park Landfill Leachate Collection System, General Layout, Drawing No. 06, Sheet 1 of 15, prepared by Conestoga-Rovars & Associate Limited dated April, 1986 revised as per addendum No. 1 and Change Orde No. 1.

2. All liquids which require dewatering for any reason during construction of all on-site works between Manhole No. 12 and Manhole No. 21 as described in Condition No. 1 shall be discharged to a sanitary sewer. Written records of volumes of liquids dewatered shall be supplied to th MOE inspector upon request.

Now therefore this is to certify that after due enquiry the said proposed works have been approved under Section 24 of the Ontario Water Resources Act.
Le présent document certifie qu'après vérification en bonne et due forme la construction dudit projet d'ouvrages a été approuvée aux termes de l'article 24 de la loi sur les ressources en eau de l'Ontario.

DATED AT TORONTO this 16th day of July, 1986
DATÉ À TORONTO ce jour d

/ec

.....
Director

ONTARIO MINISTRY OF THE ENVIRONMENT
JUL 17 1986
CENTRAL REGION OAKVILLE OFFICE

Ministry of the Environment
Ontario

NOTICE

TO: The Corporation of the City of Burlington
Box 5013
426 Brant Street
Burlington, Ontario
L7R 3Z6

You are hereby notified that a Conditional Certificate of Approval No. 3-0819-86-007 has been issued to you subject to the conditions outlined therein.

The reasons for the imposition of these conditions are as follows:

1. The filing of as-constructed drawings with the Ministry of the Environment, Environmental Approvals and Land Use Planning Branch is necessary to show that the sewage works were built in conformity with the approved documents listed as Schedule "A" in Certificate of Approval No. 3-0819-86-007 if any questions arise as to what was actually constructed.

2. Liquids from this site contain contaminants which may impair the quality of water in Indian Creek if discharged, contrary to Section 16 of the Act.

You may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board.

This Notice should be served upon:

The Secretary,
Environmental Appeal Board.
1 St. Clair Ave. West,
8th Floor,
Toronto, Ontario.
M4V 1K7

AND

The Director,
Section, 24, OWR Act,
Ministry of the Environment,
135 St. Clair Ave. West,
Toronto, Ontario.
M4V 1P5.

DATED at Toronto this 16th day of July , 19 86 .

Director,
Section,
Ministry of the Environment.

1771 (09/84)

SCHEDULE "A"

This Schedule "A" forms part of Certificate of Approval No. 3-0819-86-007 issued on July 16, 1986.

1. Detailed design drawings prepared by Conestoga-Rovers and Associates Limited, Consulting Engineers, issued June 23, 1986 and date stamped July 8, 1986 Environmental Approvals and Land Use Planning Branch entitled Bayview Park Landfill, Leachate Collection System, Contract No. 86-16.

2. Contract Specifications dated June, 1986 entitled City of Burlington, Bayview Landfill Site Leachate Collection System and Surface Drainage Improvements, Contract 86-16, File 760.04-2 (noted by MOE as a second submission).

3. A letter dated June 17, 1986 to Mr. Lyle Parsons from Greg Ferraro, P.Eng. entitled Addendum No. 1, Bayview Park Landfill, Leachate Collection System detailing changes to the Leachate Collection System, Contract 86-16.

4. A letter dated June 23, 1986 to Lyle Parsons, B.E.S. Systems Co-ordinator from Alan Ramsay, Environmental Management Co-ordinator, The Corporation of the City of Burlington, with attached Addendum No. 2, Bayview Park Landfill, Leachate Collection System detailing changes to the leachate pumping system, Contract 86-16.

5. Change Order No. 1 dated June 25, 1986 entitled Corporation of City of Burlington, Bayview Park Landfill, Leachate Collection System Contract 86-16, unsigned.

6. A letter dated June 26, 1986 to Mr. Lyle F. Parsons, B.E.S. Systems Co-ordinator from Greg Ferraro, P.Eng., entitled Change Order No. 1, City of Burlington, Bayview Park Landfill Leachate Collection Systems with attached Appendix A entitled PVC and HDPE Pipe Strength Calculations.

7. A letter dated July 4, 1986 to Mr. T. Armstrong, Acting Director Environmental Approvals and Land Use Planning Branch from Michael N. Boggs, Chief Administrative Officer entitled Bayview Park Landfill Site, Ontario Water Resources Act Application.

APPENDIX B

CORRESPONDENCE BETWEEN MOEE AND CRA
RE: ENVIRONMENTAL PERFORMANCE REPORT (1994); 1994 MONITORING REPORT; AND AMENDMENT TO CERTIFICATE OF APPROVAL

APPENDIX B

CORRESPONDENCE BETWEEN MOEE AND CRA
BAYVIEW PARK LANDFILL
BURLINGTON, ONTARIO

Re: Environmental Performance Report (1994)
1994 Monitoring Report
Amendment to Certificate of Approval

Item		*Date*
1.	MOEE Comments Re: Environmental Performance Report (1994)	February 22, 1995
2.	CRA Response to MOEE February 22, 1995 Comments Re: Environmental Performance Report (1994)	April 25, 1995
3.	MOEE Response to CRA letter dated April 25, 1995 Re: Environmental Performance Report (1994)	June 21, 1995
4.	MOEE Hydrogeologic Comments RE: 1994 Monitoring Report	July 18, 1995
5.	MOEE Surface water Evaluator Comments Re: 1994 Monitoring Report and Environmental Performance Report (1994)	September 15, 1995
6.	City of Burlington Application to Amend Certificate of Approval (C of A) to MOEE Approvals Branch (Copy of Application form enclosed only)	December 7, 1995
7.	MOEE Approvals Branch Comments Re: Application to Amend C of A	January 17, 1996
8.	CRA Response to MOEE Approvals Branch Comments Re: Application to Amend C of A	January 31, 1996
9.	CRA Response to MOEE Approvals Branch Comments Re: Application to Amend C of A	February 6, 1996
10.	MOEE Approvals Branch Correspondence Re: Application to Amend C of A	February 12, 1996

Ontario

Item #1

Ministry of Environment and Energy

Ministère de l'Environnement et de l'Énergie

1235 Trafalgar Road
Suite 401
Oakville ON L6H 3P1

1235 chemin Trafalgar
Bureau 401
Oakville ON L6H 3P1

1995 02 22

Mr. Peter Hayes, B. Sc.
Conestoga-Rovers & Associates Limited
651 Colby Drive
Waterloo, Ontario
N2V 1C2

Dear Mr. Hayes:

Re: Environmental Performance Report, Bayview Park Landfill November 1994, Conestoga Rowers & Associates, for the City of Burlington and Jannok Ltd.

The above referenced report provides a technical evaluation as to the suitability of development of adjacent lands south of the landfill. The report is a follow up of a joint City of Burlington/Jannock Ltd. report "Concept proposal, Bayview Park Landfill Buffer Zone/Monitoring requirements and development of lands south of Bayview Park landfill dated January 1993 prepared jointly by CRA and Golders. Based on a review of monitoring and landfill performance data, the report documents the rationale for a revised monitoring program as well as the requirements for down gradient buffer/attenuation lands. Review comments are as follows:

1. Section 2.1, page 12. Landfill gas monitoring should be included in the current (1994) monitoring schedule.

2. Section 3.0. Field study methodology, instrumentation and sampling QA/QC generally conform to accepted hydrogeological practices.

3. Landfill leachate characterization is discussed under Section 4.3. Representative landfill leachate composition is based on chemical analysis taken from leachate wells and the collection system. Volatile organics most frequently detected in leachate are chlororbenzene, 1,4 - Dichlorobenzene, benzene and toluene. Chlorinated volatile organics could be considered as useful landfill leachate indicators in determining landfill impacts on ground

0781CF (08/94)
0781 CFA (10/93)

100% Unbleached Post-Consumer Stock
100% Unbleached Post-Consumer Stock

water because of the natural poor quality of underlying ground water and difficulty in finding suitable inorganic indicator paramaters.

4.Section 4.4.2.1. Water quality results from the 1993 series of observation wells is discussed, these monitors are screened and positioned in the active shallow flow system down gradient of the landfill. Chloride concentration from two sampling events in March and April are used to establish natural background quality and to assess the effectiveness of the leachate collection system in containing leachate contaminated ground water. Presently, there does not appear to be sufficient data to state that there is no deleterious ground water impact and that the collection system is effectively controlling migration of contaminated ground water within the proposed buffer/attenuation zone. Chloride concentration of 1150 to 936 mg/l in OW1B-93 suggest mixing with deeper seated mineralized water. To determine chloride concentration profiles and to assess natural water quality in shallow downgradient wells,the existing data base will need to be expanded.
The report recommends that sodium and potassium be included in the list of chemical paramaters to be tested in the proposed rationalized monitoring program. These values are to be used in trilinear plots of major ion ratios to assist in identifying apparent mixing of landfill leachate with ground and surface waters. There is no description of the method that will be used. Will the plotted data distinguish between leachate impacted ground water and shallow ground water mixed with deeper seated mineralised water.

The significance of low levels of benzene, ethyl benzene, xylene and toluene in the March sampling event is of some concern. Although BTEX compounds are known to occur naturally in some bedrock waters, additional work is required to show that the presence of these compounds is not landfill related.

5.Section 7.0. The buffer/attenuation zone area is shown in Drawing 1 and Figure 3.1. this area will be used for ground and surface water and landfill gas monitoring.The rationalized monitoring program is designed to measure ground water quality changes at the downgradient buffer zone boundary.The report states that the buffer/attenuation zone will allow for the attenuation of landfill derived contaminants and provide for boundary impact monitoring capabilities, in addition the buffer area would facilitate assess to the landfill collection system and provide land for contingency measures if required.While agreeing that the buffer zone will meet these requirements it is not clearly demonstrated that landfill derived impacts are completely eliminated in the buffer zone area. Further, what is the criteria to be used at the downgradient buffer boundary to establish water quality changes?

To summarise, the rationalized monitoring program for ground water outlined on Table 8.1 is generally acceptable. It must be recognised,that the current monitoring program is in its early stages and additional work is required to estimate background values and establish concentration trends. Modifications to the program may be necessary at some later date as the data base is expanded.Comments on the revised surface water monitoring are being addressed separately.

If you need clarification on the above, please call me at (905)815-5931.

Yours truly,

T. Brenkovic, P. Eng.,
District Engineer
Halton-Peel Region

cc: J. D'Cruz

[peter2cra.ltr]

FILE COPY Item #2

CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive
Waterloo, Ontario, Canada N2V 1C2
(519) 884-0510 Colby Office Fax. (519) 884-0525
(519) 725-3313 Bathurst Office (519) 725-1394

Consulting Engineers

April 25, 1995

Reference No. 1354

Mr. Tom Brankovic
Ministry of Environment and Energy
Halton-Peel District Office
1235 Trafalgar Road, Suite 401
Oakville, Ontario
L6H 3P1

Dear Mr. Brankovic:

Re: Response to MOEE Comments
Environmental Performance Report
Bayview Park Landfill
City of Burlington, Ontario

Comments prepared by the MOEE regarding the groundwater component of the above-noted report are outlined in a letter to Mr. Peter Hayes dated February 22, 1995. Comments on the surface water monitoring were not included in this letter and will be addressed separately. A copy of the MOEE letter is included in Attachment A of this letter for ease of reference.

This letter provides CRA's responses to the MOEE Comments on a point-by-point basis:

1. MOEE Comment: Section 2.1, page 12

Landfill gas monitoring should be included in the current (1994) monitoring schedule.

CRA Response

The 1994 monitoring (Appendix B) schedule did not incorporate monitoring of landfill gas, as this was intended to be incorporated once, MOEE concurrence was received with respect to the rationalized monitoring program. As indicated in page 38 of the Environmental Performance Report, landfill gas monitoring will be conducted two times annually at each of the three gas probes (GP1-93, GP2-93 and GP3-93) monitoring locations. Landfill gas monitoring will only be included as part of the current monitoring schedule, when the monitoring program (both surface water and groundwater) and the extent of the proposed Buffer/Attenuation zone as proposed with the Environmental Performance Report is approved by the

MOEE. It should be noted that there are currently no structures in the vicinity of these boundary gas probe locations.

2. MOEE Comment: Section 3.0

Field study methodology, instrumentation and sampling QA/QC generally conform to accepted hydrogeological practices.

CRA Response

We are in agreement, no response required.

3. MOEE Comment

Landfill leachate characterization is discussed under Section 4.3. Representative landfill leachate composition is based on chemical analysis taken from leachate wells and the collection system. Volatile organics most frequently detected in leachate are chlorobenzene, 1,4-Dichlorobenzene, benzene, and toluene. Chlorinated volatile organics could be considered as useful landfill leachate indicators in determining landfill impacts on ground water because of the natural poor quality of underlying groundwater and difficulty in finding suitable inorganic indicator parameters.

CRA Response

It was indicated on page 31 of the Environmental Performance Report that "the presence of chlorinated volatile organic compounds are also considered as diagnostic indicators of landfill derived groundwater impact".

Given the historic difficulty in the evaluation of inorganic parameters as indicators of landfill-derived impact on groundwater quality, trends in inorganic parameters (see Response to Comment #4) will be evaluated in conjunction with trends in chlorinated volatile organic and BTEX compounds to determine the potential impact of the landfill on groundwater quality.

4. MOEE Comment: Section 4.4.2.1

Water quality results from the 1993 series of observation wells is discussed, these monitors are screened and positioned in the active shallow flow system downgradient of the landfill. Chloride concentration from two sampling events in March and April are used to establish natural background quality and to assess the effectiveness of the leachate collection system in containing leachate contaminated ground water. Presently, there does not appear to be sufficient data to state that there is no deleterious ground water impact and that the collection system is effectively controlling migration of contaminated groundwater within the proposed buffer/attenuation zone. Chloride concentration of 1150 to 936 mg/L in OW1B-93 suggest mixing with deeper seated mineralized water. To determine chloride concentration profiles and to assess natural water quality in shallow downgradient wells, the existing database will need to be expanded.

The report recommends that sodium and potassium be included in the list of chemical parameters to be tested in the proposed rationalized monitoring program. These values are to be used in trilinear plots of major ion ratios to assist in identifying apparent mixing of landfill leachate with ground and surface waters. There is no description of the method that will be used. Will the plotted data distinguish between leachate impacted groundwater and shallow groundwater mixed with deeper seated mineralized water.

The significance of low levels of benzene, ethylbenzene, xylene and toluene in the March sampling event is of some concern. Although BTEX compounds are known to occur naturally in some bedrock waters, additional work is required to show that the presence of these compounds is not landfill related.

CRA Response

It is realized that the existing database will need to be expanded in order to assess natural water quality in shallow downgradient wells. It should also be noted that no single parameters or sampling events are or will be used to identify the potential impact of landfill-derived leachate on groundwater quality. Rather, an evaluation of all parameters (inorganic, BTEX and chlorinated volatile organic compounds) and trends in water quality will be

used to identify the potential impact of landfill-derived leachate in the quality of downgradient groundwater.

It was recommended in p. 37 of the Environmental Performance Report that sodium and potassium be included in the list of chemical parameters to prepare major ion ratio plots and not trilinear plots. It is proposed to plot potassium/sodium (K/Na) vs. chloride/alkalinity (Cl/Alk) ratios in order to identify apparent mixing of landfill leachate with ground and surface waters. The existing leachate characterization data provided in Table 4.1 of the Environmental Performance Report indicate that the leachate contains relatively high concentrations of chloride (3,230 mg/L) and alkalinity (3,370 mg/L). The leachate is also comprised of relatively high concentrations of potassium (137 mg/L) and sodium (371 mg/L). Based on the above data, the Cl/Alk and K/Na ratios for the leachate are on the order of 1 and 0.5, respectively. The existing groundwater general chemistry data presented in Table 3.7A of the Environmental Performance Report indicates that the Cl/Alk ratios for shallow groundwater are different than the Cl/Alk ratio of 1 for leachate. The Cl/Alk ratios for shallow groundwater are generally less than 0.5. The ratios for deep mineralized or mixed shallow and deep mineralized groundwater are 5 or greater.

The potassium and sodium data will be used to determine the K/Na ratios for groundwater and these in turn will be employed to further assess if potential mixing of landfill leachate and groundwater occurs.

As indicated in the Environmental Performance Report, the emphasis will be placed on the evaluation of trends rather than single occurrences/detections in the ground and surface water quality.

The significance of low levels of BTEX compounds will be further evaluated as additional groundwater quality is obtained. Again, emphasis will be placed on the evaluation of trends in water quality (i.e., BTEX, chlorinated volatile organic compounds and inorganic parameters).

5. <u>MOEE Comment: Section 7.0</u>

The buffer/attenuation zone area is shown in Drawing 1 and Figure 3.1. This area will be used for ground and surface water and landfill gas monitoring.

The rationalized monitoring program is designed to measure groundwater quality changes at the downgradient buffer zone boundary. The report states that the buffer/attenuation zone will allow for the attenuation of landfill derived contaminants and provide for boundary impact monitoring capabilities, in addition the buffer area would facilitate assess to the landfill collection system and provide land for contingency measures if required. While agreeing that the buffer zone will meet these requirements it is not clearly demonstrated that landfill derived impacts are completely eliminated in the buffer zone area. Further, what is the criteria to be used at the downgradient buffer boundary to establish water quality changes?

CRA Response

The proposed buffer/attenuation zone is intended to allow for control for the purposes of monitoring and the implementation of any additional management practices that may be required. In addition, the criteria to be used at the downgradient buffer boundary to establish water quality changes will be based on the evaluation of trends in water quality for all parameters (i.e., BTEX, chlorinated volatile organic compounds and inorganic parameters).

6. MOEE Comment: Section 7.0

To summarize, the rationalized monitoring program for groundwater outlined in Table 8.1 is generally acceptable. It must be recognized, that the current monitoring program is in its early stages and additional work is required to estimate background values and establish concentration trends. Modifications to the program may be necessary at some later date as the database is expanded.

CRA Response

It is realized that the current monitoring program is in its early stages and that additional work is required to estimate background values and establish concentrations trends.

As previously indicated emphasis will be placed on the evaluation of trends in water quality rather than the evaluation of single occurrences of detections.

April 25, 1995 Reference No. 1354

Modifications to the monitoring program will be performed if the evaluation of the expanded database indicates that this is necessary.

Both the City of Burlington and Jannock Ltd. would like to initiate the Proposed Site Monitoring Program Specifications (Table 8.1) as soon as practical. As stated on pg. 39 of the Environmental Performance Report; the proposed program will not be implemented until the MOEE has approved both, the complete monitoring program, and the limits of the Proposed Buffer/Attenuation zone. It is our understanding that a surface water MOEE reviewer has yet to review the Environmental Performance Report, your best efforts to expedite the review process would be appreciated. Also, please recall, that the COB would like initiate discussions with regards to any amendments to the Certificate of Approval which may be appropriate to reflect the legal definition of the site given the additions of downgradient buffer/attenuation zone lands.

Should you have any questions on this matter, please do not hesitate to contact us.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Peter Hayes, B.Sc.

GL/dvs/2

c.c.: J. Budz, MOEE Oakville
D. Bunner, Golder Associates
D. Brown, City of Burlington
A.J. Crutcher, CRA

(2)

Item #3

Ontario

Ministry of Environment and Energy

Ministère de l'Environnement et de l'Énergie

5775 Yonge Street
8th Floor
North York, Ontario
M2M 4J1

5775, rue Yonge
Bième étage
North York (Ontario)
M2M 4J1

Central Region
Technical Support
Section

Région du Centre
Section d'appui
technique

June 21, 1995

TO: Tom Brankovic
Halton - Peel District Office

FROM: Jimmy D'Cruz
Technical Support

RE: Bayview Park Landfill, City of Burlington
CRA Letter Ref No. 1354, dated April 25, 1995

I have received and looked at Conestoga-Rovers & Associates reply to the MOEE comments in their letter report dated April 25, 1995.

CRA have satisfactorily addressed the concerns/questions raised in our review comments of the Environmental Performance report. As indicated in the CRA response, the emphasis in the environmental performance monitoring is on the evaluation of water quality trends rather than on single occurences or exceedences. It is also recognised that the existing data base needs to be upgraded and that additional work will be required to estimate background values and assess water quality changes.

I hope you find the above in order.

J. D'Cruz

Ontario

Ministry of Environment and Energy
Ministère de l'Environnement et de l'Énergie

5775 Yonge Street
8th Floor
North York, Ontario
M2M 4J1

5775, rue Yonge
8ième étage
North York (Ontario)
M2M 4J1

Central Region
Technical Support
Section

Région du Centre
Section d'appui
technique

July 18, 1995

MEMORANDUM

TO: Tom Brankovich
Oakville District Office

FROM: Jimmy D' Cruz
Technical Support

RE: Bayview Park Landfill Site, 1994 Monitoring Report
Conestoga - Rovers & Associates Limited, March 1995

The above referenced report presents an analysis of results of the 1994 monitoring. The following under mentioned comments relate specifically to ground water quality impact assessment and evaluation of the effectiveness of the leachate collection system.

1. Monitoring and analysis of leachate elevation data indicate that there is no significant change in leachate levels and in corresponding leachate volumes within the site. Field inspections indicate that leachate seepages are generally under control. Except for wet soil conditions observed at locations LS-1, LS-7 and LS-8, no leachate breakouts or overland seepages were observed.

2. Off site ground water quality monitoring results indicate that with the exception of chloride all the other chemical paramaters tested for are within Ontario Drinking Water Objectives. The deeper flow system is characterized by chloride concentrations generally exceeding 10,000 mg/l, the shallow flow system shows relatively lower concentrations of less than 2000 mg/l. The high chloride concentrations in the shallow zone represents the natural background quality of water found at the site.Because of the high concentration of chlorides and relatively weak leachate composition found at the site, chlorides are not considered a suitable contaminant indicator. Previous monitoring (CRA, 1988), also ruled out organic nitrogen as a useful leachate indicator (CRA, 1988). Currently there is no leachate related contaminant indicator to detect ground water quality change. In the Environmental Performance Report dated Nov,1994, CRA proposed trilinear plots of select cation/anion ratios as a means of identifying leachate impacted waters from shallow ground waters mixed with naturally occurring mineralised water.

(5)

This is one possible approach that could be used to determine landfill leachate contamination from naturally mineralised ground waters.

3. The monitoring program for 1995 outlined in Appendix D appears to be satisfactory.

J. D' Cruz

Item #5

(2)

Ontario

Ministry of Environment and Energy

Ministère de l'Environnement et de l'Énergie

5775 Yonge Street
8th Floor
North York, Ontario
M2M 4J1

5775, rue Yonge
8ième étage
North York (Ontario)
M2M 4J1

Central Region Technical Support Section

Région du Centre
Section d'appui technique

September 15, 1995

MEMORANDUM

To: Tom Brankovic
Oakville District Office

From: Ellen Schmarje

Re: Bayview Park Landfill Site
1994 Annual Status Report, March 1995
& Environmental Performance Report, Nov. 1994
Burlington, Ontario
File: WA450202, SW24-0205

I have reviewed both of the above reports with respect to surface water impacts.

The landfill does appear to be affecting the surface water quality at the monitoring locations adjacent to, or immediately downgradient of the landfill, as compared with upstream and downstream monitoring points. However, the impact appears to be minor at this time, and continued monitoring should confirm this and detect any worsening.

The revised monitoring locations proposed in the Environmental Performance Report appear appropriate to monitor any changes in surface water quality.

Since it is proposed that the revised monitoring program be conducted only twice per year, if stations are dry on both occasions, then a third sampling run should be attempted in the fall.

The leachate should continue to be analyzed for phenols and toluene (if not already included in the parameter list). If either of these parameters are detected in consecutive samples, they should be added to the surface water monitoring program.

(5)

To summarize, the rationalized surface water monitoring program is generally acceptable, with the above conditions. Modifications to the program may be required at a later date.

If you have any questions regarding the above, please don't hesitate to call me.

Biologist
Water Resources Unit
Technical Support Section

cc: Steve Maude
Jimmy D'Cruz

#1354

Ministry of Environment and Energy
Ontario

Application for Approva of a Waste Disposal Site

Ptn # 6

FOR OFFICE USE ONLY				
Application Number(s)	Client Number	Payment Received	Date	Initials
		$		

Ce formulaire est disponible en français

Information requested by this form is collected under the authority of the *Environmental Protection Act*, R.S.O. 1990 (EPA), Chapter E-19, (EPA) and the *Environmental Bill of Rights*, c.28, Statutes of Ontario, 1993, (EBR) and will be used to evaluate applications for approval of waste disposal sites according to the requirements of the EPA. Questions should be directed to the Approvals Branch, 250 Davisville Avenue, 3rd Floor, Toronto, Ontario, M4S 1H2, Telephone No. (416)440-3713 or 1-800-461-6290, or to your local Ministry of Environment and Energy District Office.

Instructions

1. When completing this form, please refer to the "Guide For Applying for Approval of Waste Disposal Sites", Sections 27, 30, 31 and 32, EPA (referred to as the Guide).

2. This form must be completed with respect to all the requirements of the Guide in order for it to be considered as an application for approval. INCOMPLETE APPLICATIONS WILL BE RETURNED TO THE APPLICANT OR DENIED APPROVAL.

3. A complete application for approval consists of;
   (1) a completed and signed application form;
   (2) all supporting information as requested by this form and by the Guide; and
   (3) a certified cheque or money order for the approval fee, if applicable.
   The Ministry may require additional information following a review of the complete application.

4. Two (2) copies of the application together with the supporting information must be submitted to the Ministry of Environment and Energy,
   One copy to: Director of Approvals Branch, Ministry of Environment and Energy,
   250 Davisville Avenue, 3rd Floor, Toronto, Ontario, M4S 1H2

   OR

   Regional Director in the region in which the site is located/will be located

   A duplicate copy must be sent to the District Office having jurisdiction over the area in which the works will be located.

5. Information contained in this application is not considered confidential and will be made available to the public upon request. Certain information submitted as supporting information may be claimed as confidential but will be subject to the *Freedom of Information and Protection of Privacy Act* (FOIPOPA) and EBR. If you do not claim confidentiality at the time of submitting the information, the Ministry may make the information available to the public without further notice to you.

1. APPLICANT

Name (attach proof of name if applicable)
The Corporation of the City of Burlington (Doug Brown, General Manager - Business Affairs & City Solicitor)

Address (include street number, concession, lot etc.)	City / Province
P.O. Box 5013 (426 Brant Street)	Burlington, Ontario

Postal Code	Telephone Number	Fax Number
L7R 3Z6	(905)335-7611	(905)335-7856

Owner of Land [X] Yes [ ] No
If "No" attach name, address and concurrence of the appropriate owner.

Operator [ ] Yes [ ] No
If "No" attach name, address and concurrence of the appropriate Operator.

2. CONTACT FOR TECHNICAL AND DESIGN INFORMATION

Name Title
Peter Hayes; Project Manager/Hydrogeologist

Address	City / Province
651 Colby Drive	Waterloo, Ontario

Postal Code	Telephone Number	Fax Number
N2V 1C2	(519)884-0510	(519)884-0111

3. SITE LOCATION (Concession, Lot, Municipality)

City of Burlington — Regional Municipality of Halton

Concession 1 and 2, Part of Lots 2 and 3

Is the proposed waste site located in an area of development control as defined by the *Niagara Escarpment Planning and Development Act* (NEPDA)?

☐ Yes ☒ No (if Yes, attach copy of NEPDA permit)

4. FACILITY DESCRIPTION – Brief description of the nature of business or activity related to this site.

(a) Present land use: Closed Landfill - Parkland

(b) Present official plan designation: Parkway Belt West

(c) Present zoning category: D-Development

(d) Present land use of all adjoining properties to be provided on a location map. Vacant/Quarry

(e) Maximum rate at which site can receive waste per day NOT APPLICABLE

Municipal		Commercial		Processed Organic Waste	
	☐ tonnes		☐ tonnes		☐ Litres
	☐ cu. metres		☐ cu. metres		

If any of the following waste categories are intended to be received at the site, attach a description of each, including their source, to the Application.

Type of Waste	Tonnes	Cu. Metres	Litres
Liquid Industrial			
Non-hazardous Solid Industrial			
Hazardous			
Other			

(f) Days and hours of operation NOT APPLICABLE

(g) Population served NOT APPLICABLE

(h) Names of all municipalities/major industries to be served by this site. NOT APPLICABLE

1.	4.
2.	5.
3.	6.

(i) Proposed Buffers — 11.23 ☒ hectares or ☐ acres

~~Total Area of Site~~ / ~~Area to be Landfilled~~ Closed Landfill — 16.77 ☒ hectares or ☐ acres

Maximum estimated site storage capacity or storage capacity (if intended for storage). _____ ☐ tonnes ☐ cu. metres ☐ Litres

(j) Type of facility/operation ☐ landfill ☐ transfer ☐ processing ☒ other, specify Closed Landfill/Parkland

(k) List all disposal sites and site Certificate Numbers (for final disposal)

1.	4.
2.	5.
3.	6.

5. TYPE OF APPLICATION

☐ New Certificate of Approval

☒ Amendment to a current Certificate of Approval

Current Certificate Number A.2102.05 (attached Ref.1)

Date of issue October 11, 1973 update, July 16/86 Notice (attached Ref.2)

6. PROJECT/APPLICATION DESCRIPTION – R Abstract (Brief description of the proposal)

The Bayview Park Landfill Site was closed in 1973 and has since been operated as a park facility. A leachate collection system which collects surface leachate flows and impacts shallow groundwater for discharge to the Regional Municipality of Halton sanitary sewer system was subsequently constructed and has operated since 1986. Downgradient land adjacent to the Bayview Park Site, on which the leachate collection system is situated is being purchased by the City of Burlington as buffer lands, from Jannock Properties. Lands to be purchased are shown on attached site plan (reference Item 8) and survey plans (reference Item 9 and 10). Note: A small "tailpiece" portion of land that was originally proposed to be part of the proposed buffer zone in November 1994 is not included. These lands represent a road access for the Jannock property. The buffer zone as now outlined will provide for the purposes set forth in the Environmental Performance Report Section 7.0.

7. EBR REQUIREMENTS

Is this a Prescribed Instrument under EBR?	☒ Yes, Class of Instrument? II	☐ No
If a Prescribed Instrument, is it excepted from public notification?	☒ Yes	☐ No
If it is excepted from EBR, provide reason	☐ Emergency	☐ Equivalent Public Participation
	☐ EAA or Tribunal Decision	☒ Environmentally Insignificant amendment or revocation

If exempt from public notification, documentation in support of the noted exception must be provided.

8. PUBLIC CONSULTATION/NOTIFICATION– Specify all public consultations/notification (such as public meetings, notification of First Nations etc.) that has been completed or is in the process of being completed.

See attached letters and Memorandum from MOEE and CRA dated February 22, 1995 (Ref 3)
April 25, 1995 (Ref 4)
June 21, 1995 (Ref 5)
Sept 15, 1995 (Ref 6)

9. OTHER APPROVALS/PERMITS – List all other environmental approvals/permits applied for related to this project or received under the EPA (discharges to air, waste management, sewage systems, etc.) and the Ontario Water Resources Act (OWRA) (water works, permit to take water, etc.).

Certificate of Approval for Industrial Sewage Works 3-0819-86-007 (attached Ref 7)

10. PROJECT SCHEDULE

Estimated Date for Start of Construction	Estimated Date for Start of Operation

11. FEE ESTIMATE – The "cost" to used to estir the fee includes all equipment and construction cos' ' does not include costs for land, engineering services and costs of ies for which the permit or approval is applied for ur ther Sections of the EPA or the OWRA for which appropriate fees have or will be paid. The fee shall not be less than $50.00 or more than $100,000.00. (For more information refer to the Guide)

(1) The fee payable upon submission of an application under Section 27 or the EPA where the application relates to a waste disposal site other than a landfilling site is:

(a) 2% of the cost of the equipment and construction related to the application, less

(b) an amount equal to the proportion of the waste that is received at the site and will leave the site for recycling or reuse to the total amount of waste received at the site, calculated by weight or by volume, multiplied by the amount referred to in clause (a).

(c) where additional approvals are required under other Sections of the Act, separate fees are also required.

(2) For the purpose of clause 1 (a), recycled or reused waste does not include waste intended to be used as a dust suppressant or as a fuel or intended to be disposed of at a landfilling site or incinerator.

(3) The fee payable upon application under Section 27 of the EPA where the application relates to a landfilling site is 4 cents per cubic metre of the capacity of the landfilling site.

Estimated Fee ($50.00 minimum, $100,000.00 maximum) $ 50.00 Cheque or Money Order Attached [X] Yes [ ] No

When an application is submitted to the Ministry for review the fee must be in the form of a certified cheque or money order payable to "The Minister of Finance".

DO NOT SEND CASH

12. SUPPORTING INFORMATION CHECKLIST – This is a list of all supporting information attached to this application and is subject to the FOIPOPA and EBR.

INFORMATION	ATTACHED?	REFERENCE	CAN BE DISCLOSED
GENERAL			
Verification of Legal Name of Applicant	[ ] Yes [X] No		[X] Yes
Copy of NEPDA	[ ] Yes [X] No		[X] Yes
Verification of EBR Public Notification Exemption	[ ] Yes [ ] No		[X] Yes
Proof of Public Notification Consultation	[ ] Yes [ ] No		[X] Yes
TECHNICAL			
Site Plan	[X] Yes [ ] No	Reference Item (8) (9) (10)	[X] Yes
Hydrogeological Assessment	[X] Yes [ ] No	Reference Item (11)	[X] Yes
Design and Operations Report	[ ] Yes [ ] No		[ ] Yes
Drainage Study	[ ] Yes [ ] No		[ ] Yes
Financial Assurance	[ ] Yes [ ] No		[ ] Yes
OTHER ATTACHED INFORMATION			[ ] Yes [ ] No
1994 Monitoring Report		Reference Item (12)	[X] Yes [ ] No
Proposed Monitoring Program		Reference Item (13)	[X] Yes [ ] No
Golders Policy 07-07 Report		Reference Item (14)	[X] Yes [ ] No

13. STATEMENT OF APPLICANT

I, the undersigned hereby declare that , to the best of my knowledge, the information contained herein and the information submitted in support of this application is complete and accurate in every way and that the Contact for Technical and Design Information identified in item 2 of this form is/are authorized to act on my behalf for the purpose of obtaining approval under Section 27 of the EPA for the waste disposal site identified herein.

Name DOUGLAS C. BROWN	Title GENERAL MANAGER - BUSINESS AFFAIRS & CITY SOLICITOR
Signature Douglas C. Brown	Date December 7, 1995.

REFERENCE LIST
Application for Amendment to Certificate of Approval A-2102-05 to Include Proposed Buffer Zone Lands

Item	
(1)	EPA Certificate of Approval No. A-2102-05 dated Oct. 11, 1973
(2)	July 16, 1986 Notice
(3)	MOEE comment letter dated February 22, 1995 to Peter Hayes, CRA, re: Environmental Performance Report, Bayview Park Landfill
(4)	CRA Response to Comments letter to Tom Brankovic, MOEE, dated April 25, 1995
(5)	MOEE Letter to Tom Brankovic from Jimmy D'Cruz dated June 21, 1945
(6)	MOEE Memorandum dated September 15, 1995 to Tom Brankovic from Ellen Schmarje dated September 15, 1995
(7)	OWRA Certificate of Approval No. 3-0819-86-007 dated July 16, 1986
(8)	Site Plan dated November 1995 (updated from November 1994 version to exactly define limits of Buffer Zone)
(9)	Plan of Survey Plan 20R-11536 depicts lands to be acquired for Buffer Zone
(10)	Plan of Survey Plan 20R-11537 depicts updated lands to be acquired for Buffer Zone
(11)	Environmental Performance Report, Bayview Park Landfill, Burlington, Ontario dated November 1994
(12)	1994 Monitoring Report, Bayview Park Landfill Site, dated March 1995
(13)	Proposed Monitoring Program (revised to incorporate MOEE comments)
(14)	Golder Associates, Revised Final Report, Environmental Investigation, Jannock Properties Development Lands, Burlington, Ontario, dated January 1994

Ontario

P-GRAHAMS 1354 Item #

Ministry of Environment and Energy
Ministère de l'Environnement et de l'Énergie
250 Davisville Avenue Toronto ON M4S 1H2
250, avenue Davisville Toronto ON M4S 1H2
APPROVALS BRANCH
3rd Floor
Tel. No. (416) 440-3752
Fax. No. (416) 440-6973

Rec'd CRA
JAN 2 2 1996

January 17, 1996

Mr. P. Hayes, B.Sc.
Project Engineer
Conestoga-Rovers & Associates Limited
651 Colby Drive
Waterloo, Ontario
N2V 1C2

Dear Mr. Hayes:

RE: APPLICATION TO AMEND THE CERTIFICATE OF APPROVAL FOR THE BAYVIEW PARK LANDFILL, BURLINGTON, ONTARIO

In order to proceed with your application of December 7, 1995, I need your clarification of the following issues:

- What is the current status of the proposed buffer/attenuation zone? Did the COB acquire this zone and if so, when? Did the COB obtain groundwater rights within this property and if so, when?
- What is the current status of wells OW1A, 1B-93 and OW2A, 2B-93 referred to on page 34 of the Environmental Performance report?
- There are some minor discrepancies in the shape of the northwestern segment of the proposed buffer/attenuation zone shown on Fig. 3-1, Drawing N1 dated May, 1993 from the report, Drawing N1 (Reference Item 8) dated November, 1995 and Plans 20R-11536, 11537 (Reference Items 9 and 10). Which area is correct and correspond to the 11.23 ha. area referred to in an application?
- Do you want to incorporate the proposed buffer/attenuation zone into the new site boundary?

Please be advised that I do not agree with your assessment that an amendment you apply for is environmentally insignificant; therefore, EBR is required.

If you have any questions, please do not hesitate to call me.

Yours very truly,

E. Zaltsberg

E. Zaltsberg, Ph.D.
Hydrogeologist
Waste Sites and Systems Approvals
Industrial Approvals Section

EZ/gc
cc: T. Brankvoic, MOEE Halton-Peel District Office

0761LB (08/93)
100% Unbleached Post-Consumer Stock

Item # X

CRA
Consulting Engineers

CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive
Waterloo, Ontario, Canada N2V 1C2
(519) 884-0510 Colby Office Fax: (519) 884-0525
(519) 725-3313 Bathurst Office (519) 725-1394

FILE COPY

January 31, 1996

Reference No. 1354-30

Mr. Ernst Zaltsberg
Ministry of Environment and Energy
Approvals Branch
Waste Sites and Systems Approvals
250 Davisville Avenue
3rd Floor
Toronto, Ontario
M4S 1H2

Dear Mr. Zaltsberg:

Re: Application to Amend the Certificate
of Approval for the Bayview Park Landfill
Burlington, Ontario

In response to your letter of January 17, 1996, Conestoga-Rovers & Associates (CRA) prepares the following response to your concerns regarding the above-noted Certificate of Approval (C of A) application submitted on December 7, 1995 by the City of Burlington (COB).

MOEE Comment #1

What is the current status of the proposed buffer/attenuation zone? Did the COB acquire this zone and if so, when? Did the COB obtain groundwater rights within this property and if so, when?

CRA Response #1

There is an agreement to purchase the buffer/attenuation zone between the COB and Jannock. Further to recent communication between CRA and COB, it is understood that there are three minor outstanding conditions to be dealt with prior to formal completion of the buffer/attenuation zone acquisition. These are:

(a) consents for dismissal of previous actions;
(b) releases specifically relating to the past actions; and
(c) that both parties will agree to provide a warning clause in the subdivision agreement, which largely relates to the fact that the Subject lands are adjacent to the closed Bayview Park Landfill Site.

It is anticipated the property transaction will be formerly completed by the end of March 1996. The COB as owner of the subject lands will obtain groundwater rights within the buffer/attenuation zone when the property transfer is complete.

MOEE Comment #2

What is the current status of wells OW1A, 1B-93 and OW2A, 2B-93 referred to on page 34 of the Environmental Performance report?

CRA Response #2

The above noted monitoring well nests, as well as monitoring wells OW3-93 and OW4-93 have been installed within the buffer/attenuation zone, and along with well PW-3 are proposed to replace the current groundwater monitoring network in-place at the Site. It is also proposed to abandon the monitoring wells which comprise the current monitoring network.

The monitoring specifications involving these seven monitoring wells are outlined within Reference Item #13. This monitoring program will be implemented beginning in April 1996.

MOEE Comment #3

There are some minor discrepancies in the shape of the northwestern segment of the proposed buffer/attenuation zone shown on Figure 3-1, Drawing N1 dated May 1993 from the report, Drawing N1 (Reference Item 8) dated November, 1995 and Plans 20R-11536, 11537 (Reference Items 9 and 10). Which area is correct and correspond to the 11.23 ha area referred to in the application?

CRA Response #3

As outlined in Section 6 of the C of A Application dated December 7, 1995, the small portion of land causing the discrepancy was originally proposed to be part of the buffer/attenuation zone on Figure 3.1/Drawing No. 1 within the Environmental Performance Report in November 1994 (Reference Item #11). However, these lands represent an access road for the Jannock property and as such, will remain in Jannock's control.

A close examination of an updated version of the above noted Drawing (Reference Item #8), indicates this land as being previously proposed as part of the buffer/attenuation zone, and is to remain in Jannock's control. Therefore Drawing No. 1 dated November 1995 (Reference Item #8) supercedes Drawing No. 1 dated November 1994 (within Reference Item #11). Reference Item #8 also agrees with Reference Items #9 and #10, and therefore accurately represents the total 11.23ha area referred to within the C of A Application.

MOEE Comment #4

Do you want to incorporate the proposed buffer/attenuation zone into the new Site boundary?

CRA Response #4

Yes, the intent of the application for amendment to the C of A is to have the Site property boundaries modified to reflect the acquisition of the buffer/attenuation zone by the COB.

CRA trusts that the above clarifications will be sufficient to allow for the processing of the C of A Application to proceed once the property transaction is completed. We will inform you when this occurs and provide you with appropriate documentation to that effect. As discussed, once the property transaction is complete the MOEE will then proceed with the processing of the application. Should you have any further questions or concerns, please contact our office.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Peter Hayes, B.Sc.

CLS/ja

c.c. Doug Brown, COB
Tom Brankovic, MOEE Oakville

Item #9

CRA
Consulting Engineers

FILE COPY

CONESTOGA-ROVERS & ASSOCIATES LIMITED
651 Colby Drive
Waterloo, Ontario, Canada N2V 1C2
(519) 884-0510 Colby Office Fax: (519) 884-0525
(519) 725-3313 Bathurst Office (519) 725-1394

February 6, 1996

Reference No. 1354-30

Mr. Ernst Zaltsberg
Ministry of Environment and Energy
Approvals Branch
Waste Sites and Systems Approvals
250 Davisville Avenue
3rd Floor
Toronto, Ontario
M4S 1H2

Dear Mr. Zaltsberg:

Re: Application to Amend the Certificate of Approval for the Bayview Park Landfill Burlington, Ontario

As per our recent telephone conversation, please find enclosed a revised project description to replace the description included in Section 6 of the original C of A application dated December 7, 1995. This description has been prepared as per your request for use as part of the EBR Bulletin Board posting.

> *The Bayview Park Landfill Site was closed in 1973, and has since been operated as a park facility by the City of Burlington. A leachate collection system which collects impacted shallow groundwater for discharge to the Regional Municipality of Halton sanitary sewer system was subsequently constructed and has operated since 1986 under the appropriate Certificate of Approval for Industrial Sewage works. Downgradient lands adjacent to the Bayview Park Site, on which the leachate collection system is situated are being purchased by the City of Burlington for use as buffer lands. A network of seven monitoring wells have been installed within the buffer lands, and will be monitored semi-annually for general chemistry and VOC analytical parameters, to quantify that no adverse impacts on the groundwater regime are occurring. A total of eight upstream, landfill vicinity, and downstream surface water monitoring locations are also included as part of the semi-annual monitoring network. Surface water samples will also be analyzed for general chemistry and VOC analytical parameters, as well as for bacteria.*

CRA trusts that the above is satisfactory, and will be amended to the original application. As discussed in our letter dated January 31, 1996, CRA will inform you

when the property transaction is complete, at which point the MOEE will proceed with the processing of the application.

Should you have any further questions or concerns, please contact our office.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Peter Hayes, B.Sc.

CLS/rc/1

c.c. Doug Brown, COB
Tami Price, COB
Tom Brankovic, MOEE Oakville

Ontario

1354
Item #10

Ministry of Environment and Energy
Ministère de l'Environnement et de l'Énergie
250 Davisville Avenue Toronto ON M4S 1H2
250, avenue Davisville Toronto ON M4S 1H2
APPROVALS BRANCH
3rd Floor
Tel. No. (416) 440-3752
Fax. No. (416) 440-6973

February 12, 1996

Rec'd CRA
FEB 19 1996

Mr. P. Hayes, B.Sc.
Hydrogeologist
Conestoga-Rover & Associates Limited
651 Colby Drive
Waterloo, Ontario
N2V 1C2

Dear Mr. Hayes:

RE: APPLICATION TO AMEND THE CERTIFICATE OF APPROVAL FOR THE BAYVIEW PARK LANDFILL

Thank you very much for your letter of February 6, 1996.

As discussed before, when the property transaction is completed and confirmed, I will send your application along with the updated EBR abstract to the EBR office.

If you have any questions regarding this matter, please give me a call.

Yours very truly,

E. Zaltsberg

E. Zaltsberg, Ph.D.
Hydrogeologist
Waste Sites and Systems Approvals
Industrial Approvals Section

EZ/gc

cc: Tom Brankovic, MOEE, Oakville

0761LB (08/93)
100% Unbleached Post-Consumer Stock

APPENDIX C

STRATIGRAPHIC AND INSTRUMENTATION LOGS

APPENDIX 4

Observation Well Construction Details

Site F

Borehole No.	O.W. No.	Diameter (mm)	Surface Elev(m)	Depth (m)	Tip Elev(m)	Well Type	Geologic Setting	Screen Setting(m) Bottom	Screen Setting(m) Top	Screen Length	Sand Pack(m) Bottom	Sand Pack(m) Top	Bentonite Seals(m) Lower Seal Bottom	Bentonite Seals(m) Lower Seal Top	Bentonite Seals(m) Upper Seal Bottom	Bentonite Seals(m) Upper Seal Top
HC1-85	1	32	186.1	30.9	155.6	P	Sh	155.6	157.1	1.5	155.2	158.1	-	-	158.1	160.3
	2	32	186.1	19.5	167.2	P	WSh, CT	167.2	168.7	1.5	166.6	169.3	164.8	166.6	169.3	171.2
	3	32	186.1	5.8	180.6	S	CST	180.6	184.6	4.0	180.3	184.9	177.9	180.3	184.9	186.1
HC1-84	1	32	186.1	18.3	168.8	P	ST	168.8	170.3	1.5	167.8	171.3	-	-	186.0	187.0
HC2-85	1	32	175.5	10.1	165.7	S	CST, WSh	165.7	173.4	7.6	165.4	174.0	-	-	174.0	175.5
HC2-84	1	39	175.7	16.5	160.6	P	Sh	160.6	162.1	1.5	159.2	163.0	-	-	176.0	176.6
HC3-85	1	13	140.3	31	109.8	P	Sh	109.8	111.3	1.5	109.3	111.6	-	-	111.6	113.5
	2	13	140.3	15.5	125.1	P	FSh	125.1	126.6	1.5	124.8	126.9	122.9	124.8	126.9	128.4
	3	13	140.3	11.9	128.7	P	Sh	128.7	130.2	1.5	128.4	130.5	126.9	128.4	130.5	132.4
	4	13	140.3	7.9	132.7	P	WSh	132.7	134.2	1.5	132.4	134.5	130.5	132.4	134.5	136.3
	5	13	140.3	4.0	136.6	S	WSh	136.6	138.2	1.5	136.3	138.5	134.5	136.3	138.5	140.3
HC4-85	1	32	137.4	30.8	106.9	P	Sh	106.9	107.8	0.9	106.6	108.1	-	-	108.1	110.0
	2	32	137.4	18.3	120.0	P	FSh	120.0	120.9	0.9	119.1	121.5	117.3	119.1	121.5	123.5
	3	32	137.5	11.9	126.2	P	WSh	126.2	127.1	0.9	125.6	127.7	-	-	127.7	131.1
	4	32	137.5	6.4	131.4	S	WSh	131.4	136.3	4.9	131.1	136.7	127.7	131.1	136.7	137.5
HC5-85	1	32	125.9	31.0	95.1	P	Sh	95.1	96.6	1.5	94.9	97.2	-	-	97.2	98.9
	2	32	125.9	18.9	107.9	P	F.WSh	107.3	108.8	1.5	107.0	109.3	105.2	107.0	109.3	111.1
	3	32	126.0	9.5	116.7	P	WSh, CT	116.7	118.2	1.5	116.5	118.7	-	-	118.7	119.9
	4	32	126.0	6.1	120.2	S	CT	120.2	124.8	4.6	119.9	125.1	118.7	119.9	125.1	126.0

001027

APPENDIX 4

Observation Well Construction Details

Site F

Borehole No.	O.W. No.	Diameter (mm)	Surface Elev(m)	Depth (m)	Tip Elev(m)	Well Type	Geologic Setting	Screen Setting(m) Bottom	Screen Setting(m) Top	Screen Length	Sand Pack(m) Bottom	Sand Pack(m) Top	Bentonite Seals(m) Lower Seal Bottom	Bentonite Seals(m) Lower Seal Top	Bentonite Seals(m) Upper Seal Bottom	Bentonite Seals(m) Upper Seal Top
HC6-85	1	13	127.8	30.8	97.3	P	Sh	97.3	98.2	0.9	97.0	98.5	-	-	98.5	100.4
	2	13	127.8	21.6	106.5	P	FSh	106.5	107.4	0.9	106.2	107.8	104.3	106.2	107.8	109.8
	3	13	127.8	11.8	110.1	P	FSh	110.1	111.0	0.9	109.8	111.3	107.8	109.8	111.3	113.2
	4	13	127.8	14.6	119.6	P	WFSh	119.6	120.5	0.9	113.2	120.8	111.3	113.2	120.8	122.6
	5	13	127.8	5.2	124.8	S	CST	124.8	125.7	0.9	122.6	126.0	120.8	122.6	126.0	127.8
HC7-85	1	32	130.9	30.5	103.2	P	FSh	103.2	104.7	1.5	100.4	105.1	-	-	105.1	106.2
	2	32	130.8	20.0	111.0	P	Sh	111.0	112.5	1.5	110.8	112.1	-	-	113.1	116.2
	3	32	130.9	7.9	123.3	S	CST, WSh	123.3	127.3	4.0	123.0	129.9	122.7	123.4	129.9	130.9
HC8-85	1	32	118.0	30.9	87.1	P	Sh	87.1	88.9	1.8	87.1	89.2	-	-	89.2	91.2
	2	32	118.0	18.6	100.9	P	WSh	100.9	102.5	1.8	99.4	103.1	97.6	99.4	103.1	106.4
	3	32	118.0	11.6	107.3	P	FSh	107.3	109.1	1.8	106.4	109.5	103.1	106.4	109.5	111.1
	4	32	118.0	6.9	111.6	S	CST, FSh	111.6	115.6	4.0	111.1	116.2	109.5	111.1	116.2	118.0
HC9-85	1	32	105.6	30.9	75.1	P	Sh	75.1	76.6	1.5	74.7	77.9	-	-	77.9	79.7
	2	32	105.6	17.7	89.1	P	Sh	89.1	90.0	0.9	87.9	90.7	86.1	87.9	90.7	91.9
	3	32	105.6	9.4	96.5	P	CST	96.5	98.0	1.5	96.2	98.6	-	-	98.6	100.4
	4	32	105.6	5.2	100.7	S	f-m Sa, C-G	100.7	103.8	3.1	100.4	104.4	98.6	100.4	104.4	105.6
HC10-85	1	32	94.2	15.1	79.6	P	FWSh	79.6	81.1	1.5	79.1	81.7	-	-	81.7	83.1
	2	32	94.2	11.1	84.3	P	SCT	84.3	85.2	0.9	83.1	85.5	81.7	83.1	85.5	88.1
	3	32	94.2	5.5	88.7	S	CST + OS	88.7	93.4	4.6	88.7	93.3	-	-	93.3	94.2

001028

APPENDIX 4

Observation Well Construction Details

Site F

Borehole No.	O.W. No.	Diameter (mm)	Surface Elev(m)	Depth (m)	Tip Elev(m)	Well Type	Geologic Setting	Screen Setting(m) Bottom	Screen Setting(m) Top	Screen Length	Sand Pack(m) Bottom	Sand Pack(m) Top	Bentonite Seals(m) Lower Seal Bottom	Bentonite Seals(m) Lower Seal Top	Bentonite Seals(m) Upper Seal Bottom	Bentonite Seals(m) Upper Seal Top
HC11-85	1	32	93.2	21.5	71.7	P	WSh	71.7	73.2	1.5	71.7	73.8	-	-	73.8	77.2
	2	32	93.2	6.4	87.1	S	f-m Sa	87.1	91.7	4.6	86.8	92.0	85.1	86.8	92.0	93.2
HC12-85	1	32	85.5	29.4	61.0	P	Sh	61.0	62.89	1.8	56.0	65.3	-	-	65.3	67.1
	2	32	85.5	8.7	77.5	P	WSh	77.5	78.6	0.9	76.7	78.7	74.9	76.7	78.7	79.6
	3	32	85.5	4.9	80.8	S	Sa SCT	80.8	83.9	3.1	80.5	84.3	-	-	84.3	85.4
HC13-85	1	32	77.3	30.3	47.4	P	Sh	47.4	48.3	0.9	47.0	50.8	-	-	50.8	52.6
	2	32	77.3	9.4	68.2	P	FSh	68.2	69.1	0.9	67.9	69.7	66.0	67.9	69.7	71.2
	3	32	77.3	6.1	71.5	S	WSh, CT	71.5	75.5	4.0	71.2	75.8	69.7	71.2	75.8	77.3
HC14-86	1	32	113.839	30.5	83.3	P	Sh	83.3	84.2	0.9	83.3	84.5	-	-	84.5	86.4
	2	32	113.839	23.8	90.3	P	FSh	90.3	91.8	1.5	90.0	92.2	88.2	90.0	92.2	93.7
	3	32	113.839	20.1	94.0	P	FSh	94.0	95.5	1.5	93.7	95.8	92.2	93.7	95.8	97.6
	4	32	113.839	14.3	99.0	S	SSaT	99.0	102.2	2.4	99.5	102.5	97.6	99.5	102.5	104.7
HC15-86	1	32	111.7	25.9	85.8	P	FSh	85.8	87.3	1.5	85.8	87.6	-	-	87.59	89.4
	2	50	111.7	18.0	93.7	P	FSh	93.7	94.3	0.6	93.7	94.6	-	-	94.62	95.5
	3	50	111.7	11.9	99.8	P	WSh	99.8	100.4	0.6	99.8	100.7	-	-	100.67	101.6
	4	50	111.7	5.8	105.9	S	WS	105.9	107.1	1.2	105.9	107.4	-	-	107.37	108.3
HC16-86	1	32	79.0	22.9	56.4	P	Sh	56.4	57.3	0.9	56.1	57.7	-	-	57.74	59.5
	2	32	79.0	13.7	65.6	P	WSh, SaCT	65.6	66.5	0.9	65.3	66.8	63.64	65.04	67.14	68.6
	3	32	79.0	10.4	68.1	S	SaST	68.1	69.0	0.9	68.6	77.2	67.14	68.84	77.24	79.0

Note: Some figures may not add up exactly due to rounding off.

Depth refers to depth of borehole. Tip refers to Tip of observation well.

Source: Trow 1986

001029

TABLE 1

LEACHATE WELL CONSTRUCTION SUMMARY

Well	Well Depth (m BGS)	Top of Casing Elevation (m AMSL)	Ground Elevation (m AMSL)	Bottom of Screen Elevation (m AMSL)	Screen Length (m)	Screen Type	Top of Sand Pack Elevation (m AMSL)	Riser Type
LW1	12.19	151.64	150.90	138.71	4.6 m	1 1/4" PVC SCH80 (.006 slot)	143.89	1 1/4" PVC
LW2	18.29	152.02	151.44	133.15	10.7 m	1 1/4" PVC SCH80 (.006 slot)	144.43	1 1/4" PVC
LW3	13.72	153.22	152.44	138.72	3 m	1 1/4" PVC SCH80 (.006 slot)	142.72	1 1/4" PVC
LW4	15.24	162.73	161.96	146.72	0.76 m	2" PVC SCH80 (#10 slot)	149.77	2" PVC
LW5	9.14	162.04	161.17	152.03	0.76 m	2" PVC SCH80 (#10 slot)	155.08	2" PVC
LW6	10.67	169.21	168.45	157.78	0.76 m	2" PVC SCH80 (#10 slot)	160.52	2" PVC

001030

STRATIGRAPHY LOG (OVERBURDEN)

SHEET NO. 1 OF 1

PROJECT NAME Bayview Landfill
PROJECT NUMBER 1354
CLIENT City of Burlington
LOCATION Burlington, Ont.

DRILLING CONTRACTOR Atcost Soil Drilling
DRILLER
SURFACE ELEVATION 150.90 m AMSL
WEATHER (a.m.)
(p.m.)

HOLE DESIGNATION LW1-86
DATE STARTED Jan. 7 / 86
DATE COMPLETED Jan 7 / 86
DRILLING METHOD HSA
CRA SUPERVISOR Bob Mayberry

DEPTH OR ELEVATION (ft/m) FROM	AT	TO	SAMPLE #	SAMPLING METHOD	PENETRATION RECORD SPLIT SPOON BLOWS 6"	6"	6"	6"	RECOVERED LENGTH	SAMPLE DESCRIPTION (COMPONENTS, COLOUR, MOISTURE, NATIVE/FILL)	NOTES (STRUCTURES, DRILLER'S COMMENTS, GEOLOGIC CLASSIFICATION)
0		8								Cover Soil (no sample)	
8		31								Refuse	
31		40								Clay with silt, sand, red (no sample)	
	40			SS						- 134 Blows - 3"	
										- weathered shale	end of hole

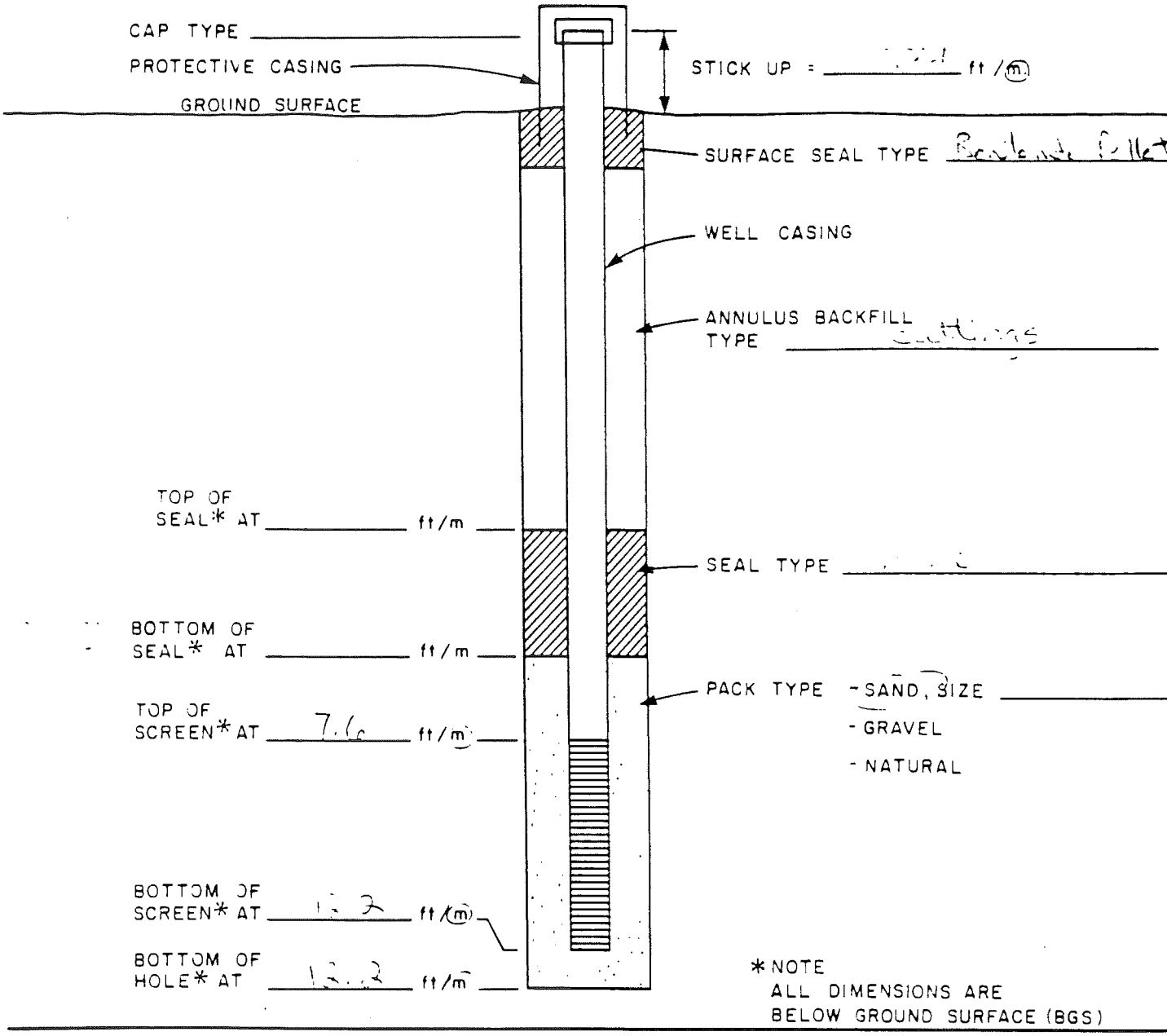
001031

CRA

WELL INSTRUMENTATION LOG

PROJECT NAME: Bayview Landfill Site
PROJECT Nº: 1254
CLIENT: City of Burlington
LOCATION: Burlington, Ont.

HOLE DESIGNATION: LW1-86
DATE COMPLETED: 7 Jan /86
DRILLING METHOD: HSA
CRA SUPERVISOR: [illegible]



SCREEN TYPE ☐ continuous slot ☒ perforated ☐ louvre ☐ other:

SCREEN MATERIAL ☐ stainless steel ☒ plastic ☐ other:

SCREEN LENGTH: 4.6 ft/m SCREEN DIAMETER: 1¼ in/cm SCREEN SLOT SIZE: .20

WELL CASING MATERIAL: PVC WELL CASING DIAMETER: 1¼ in

HOLE DIAMETER: 3"

DEVELOPMENT METHOD: DURATION:

001032

STRATIGRAPHY LOG (OVERBURDEN)

SHEET NO. 1 OF 1

PROJECT NAME Bayview Landfill
PROJECT NUMBER 1354
CLIENT City of Burlington
LOCATION Burlington, Ont.

DRILLING CONTRACTOR Atcost Soil Drilling
DRILLER
SURFACE ELEVATION 151.44 m AMSL
WEATHER (a.m.)
(p.m.)

HOLE DESIGNATION LW2-86
DATE STARTED Jan 7/86
DATE COMPLETED Jan. 7/86
DRILLING METHOD HSA
CRA SUPERVISOR Bob Mayberry

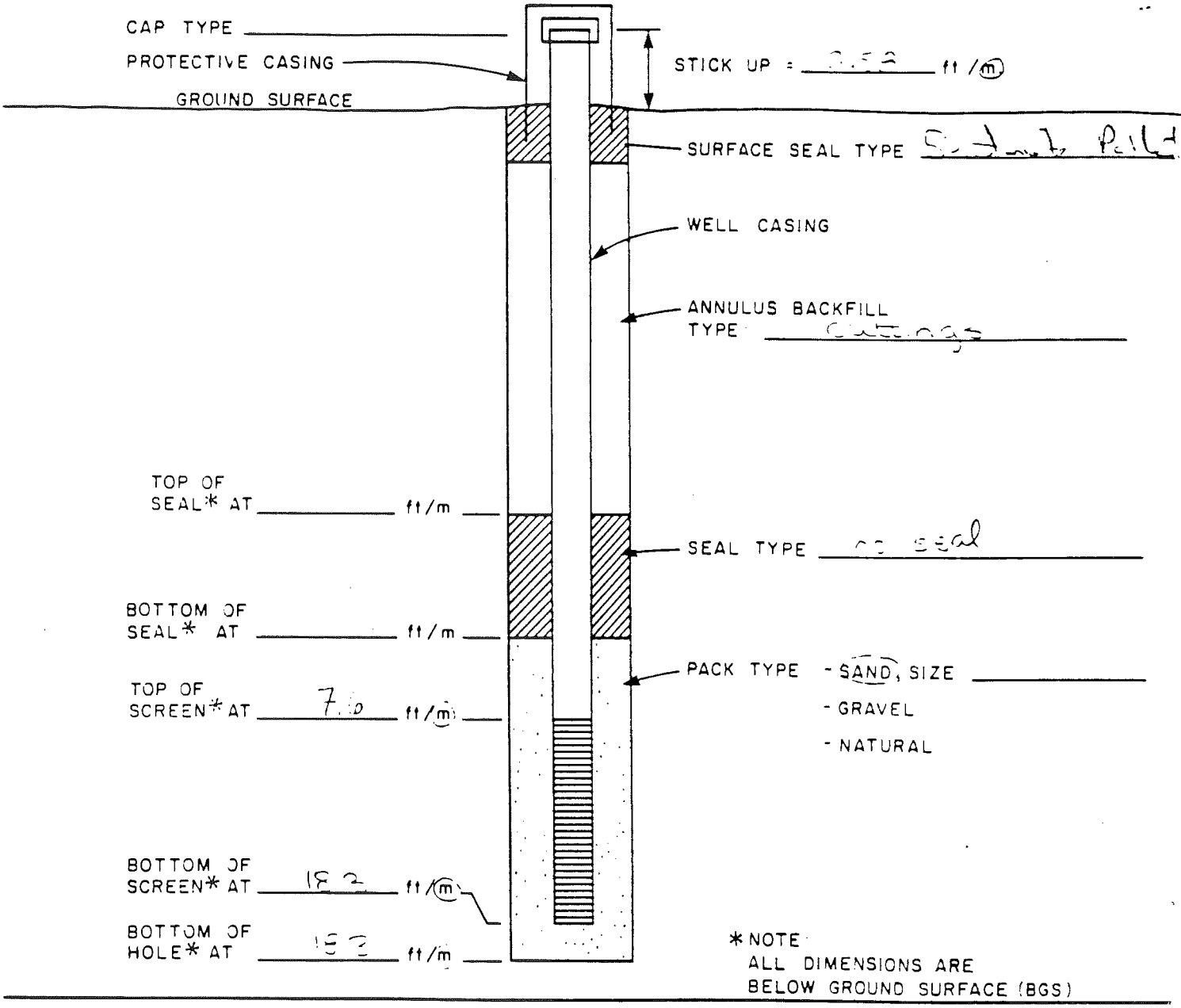
DEPTH OR ELEVATION (ft/m) FROM	AT	TO	SAMPLE #	SAMPLING METHOD	PENETRATION RECORD SPLIT SPOON BLOWS 6"	6"	6"	6"	RECOVERED LENGTH	SAMPLE DESCRIPTION (COMPONENTS, COLOUR, MOISTURE, NATIVE/FILL)	NOTES (STRUCTURES, DRILLER'S COMMENTS, GEOLOGIC CLASSIFICATION)
0		8								Cover Soil (no sample)	
8		53								Refuse	
53		60								Clay with silt, sand, red (no sample)	
	60			SS						+120 Blows - 8"	
										- weathered shale, red	end of hole

001033

CRA

WELL INSTRUMENTATION LOG

PROJECT NAME: Fairview Landfill Site
HOLE DESIGNATION: LW2-86
PROJECT Nº: 1354
DATE COMPLETED: Jan 7 86
CLIENT: City of Burlington
DRILLING METHOD: HSA
LOCATION: Burlington, Ont.
CRA SUPERVISOR: Bob Maybee



SCREEN TYPE ☐ continuous slot ☒ perforated ☐ louvre ☐ other:

SCREEN MATERIAL ☐ stainless steel ☒ plastic ☐ other:

SCREEN LENGTH: 10.67 ft/m SCREEN DIAMETER: 1 1/4 in/cm SCREEN SLOT SIZE: 010

WELL CASING MATERIAL: PVC WELL CASING DIAMETER: 1 1/4 in/

HOLE DIAMETER: 2"

DEVELOPMENT METHOD: DURATION: 9 hrs.

001034

STRATIGRAPHY LOG (OVERBURDEN)

SHEET NO. 1 OF 1

PROJECT NAME Bayview Landfill
PROJECT NUMBER 1354
CLIENT City of Burlington
LOCATION Burlington, Ont.

DRILLING CONTRACTOR Atcost Soil Drilling
DRILLER
SURFACE ELEVATION 152.44m AMSL
WEATHER (a.m.)
(p.m.)

HOLE DESIGNATION LW3-86
DATE STARTED Jan. 6/86
DATE COMPLETED Jan 6/86
DRILLING METHOD HSA
CRA SUPERVISOR Bob Mayberry

DEPTH OR ELEVATION (ft/m) FROM	AT	TO	SAMPLE #	SAMPLING METHOD	PENETRATION RECORD SPLIT SPOON BLOWS 6"	6"	6"	6"	RECOVERED LENGTH	SAMPLE DESCRIPTION (COMPONENTS, COLOUR, MOISTURE, NATIVE/FILL)	NOTES (STRUCTURES, DRILLER'S COMMENTS, GEOLOGIC CLASSIFICATION)
0		7								Cover Soil, clayey. (no sample)	
7		30								Refuse	
30		45								Clay with silt, sand, red (no sample)	
	45			SS						>100 Blows - 1"	
										- shale (no sample)	end of hole

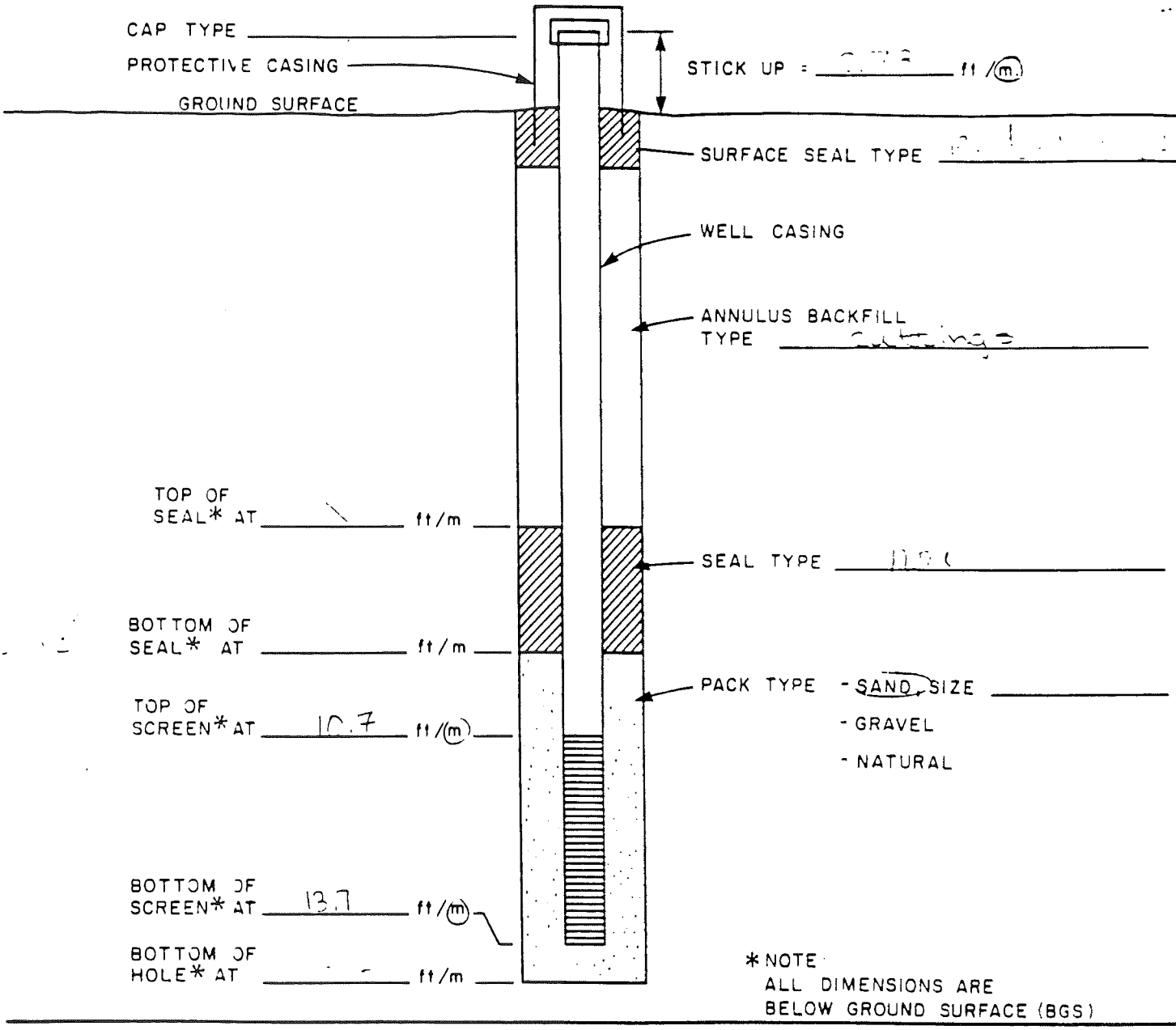
001035

CRA

WELL INSTRUMENTATION LOG

PROJECT NAME: Fairview Landfill Site
PROJECT Nº: 1254
CLIENT: City of Burlington
LOCATION: "Burlington", Ont.

HOLE DESIGNATION: LW3-86
DATE COMPLETED: Jan. 6 1986
DRILLING METHOD: HSA
CRA SUPERVISOR: Bob Mauberr
INSTA... BY: ...



SCREEN TYPE ☐ continuous slot ☒ perforated ☐ louvre ☐ other:

SCREEN MATERIAL ☐ stainless steel ☒ plastic ☐ other:

SCREEN LENGTH: 3 ft/(m) SCREEN DIAMETER: 1 1/4 (in)/cm SCREEN SLOT SIZE: .010

WELL CASING MATERIAL: PVC WELL CASING DIAMETER: (in)/

HOLE DIAMETER: 5"

DEVELOPMENT METHOD: DURATION:

001036

STRATIGRAPHY LOG (OVERBURDEN)

SHEET NO. 1 OF 1

PROJECT NAME Bayview Landfill
PROJECT NUMBER 1354
CLIENT City of Burlington
LOCATION Burlington, Ont.

DRILLING CONTRACTOR Atcost Soil Drilling
DRILLER
SURFACE ELEVATION 161 962 m AMSL
WEATHER (a.m.)
(p.m.)

HOLE DESIGNATION LW4-86
DATE STARTED Jan. 8/86
DATE COMPLETED Jan 8/86
DRILLING METHOD HSA
CRA SUPERVISOR Bob Mayberry

DEPTH OR ELEVATION (ft/m) FROM	AT	TO	SAMPLE #	SAMPLING METHOD	PENETRATION RECORD SPLIT SPOON BLOWS 6"	6"	6"	6"	RECOVERED LENGTH	SAMPLE DESCRIPTION (COMPONENTS, COLOUR, MOISTURE, NATIVE/FILL)	NOTES (STRUCTURES, DRILLER'S COMMENTS, GEOLOGIC CLASSIFICATION)
0		15								Cover Soil (no sample)	
15		38								Refuse	
38		45								Silty clay, red (no sample)	
45		50								Weathered shale	
	50									-100 Blows - 5" Weathered shale	end of hole

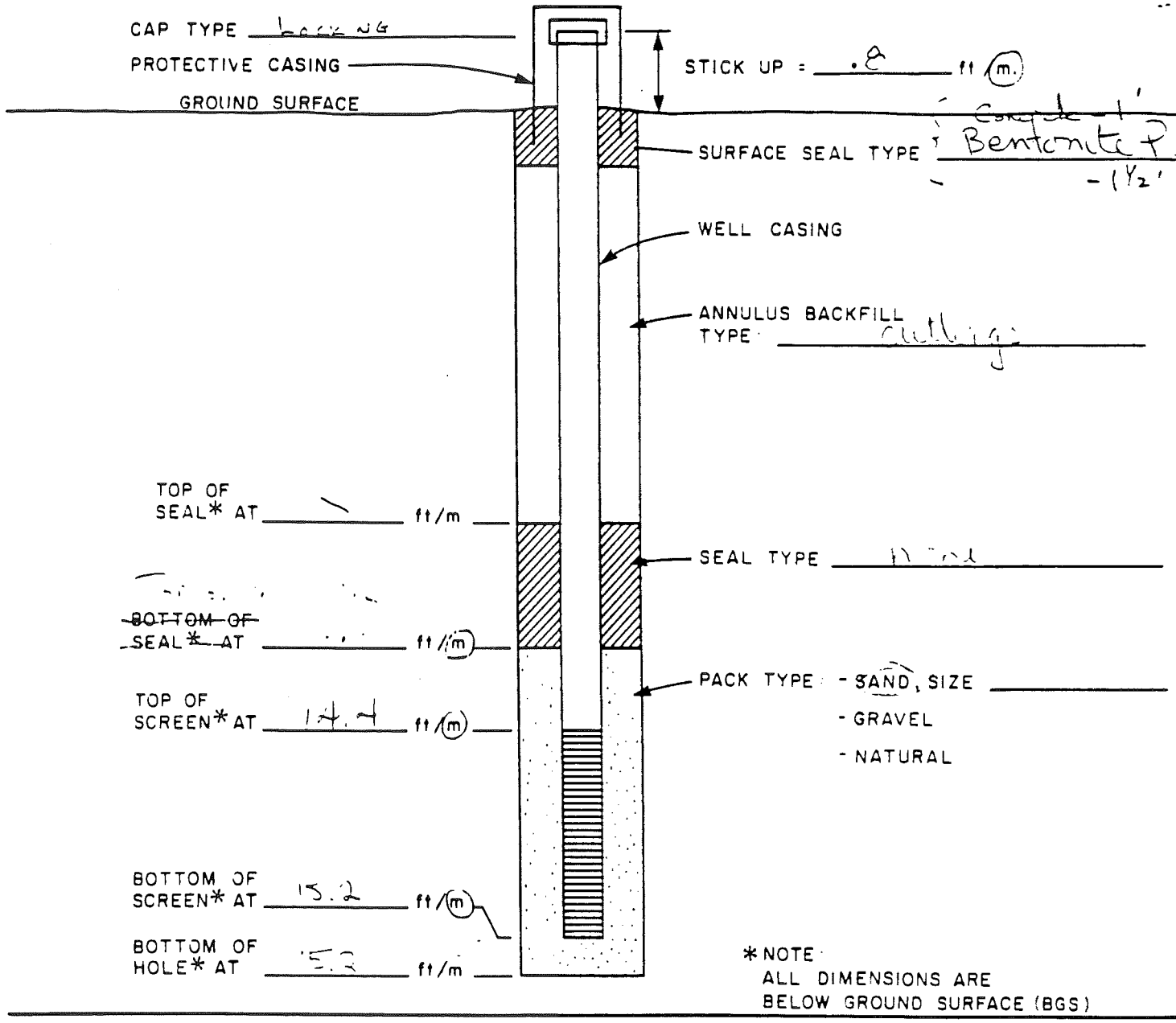
001037

CRA

WELL INSTRUMENTATION LOG

PROJECT NAME: Bayview Landfill Site
PROJECT Nº: 1354
CLIENT: City of Burlington
LOCATION: Burlington Ont

HOLE DESIGNATION: LW4-86
DATE COMPLETED: Jan 8 | 86
DRILLING METHOD: HSA
CRA SUPERVISOR: Bob Mauzer



SCREEN TYPE: ☐ continuous slot ☒ perforated ☐ louvre ☐ other:

SCREEN MATERIAL: ☐ stainless steel ☒ plastic ☐ other:

SCREEN LENGTH: . ft/(m) SCREEN DIAMETER: 2 (in)/cm SCREEN SLOT SIZE: #10

WELL CASING MATERIAL: PVC WELL CASING DIAMETER: 2 (in)

HOLE DIAMETER: 8"

DEVELOPMENT METHOD: DUPATION: 3 1/2 hrs.

001038

STRATIGRAPHY LOG (OVERBURDEN)

SHEET NO. 1 OF 1

PROJECT NAME Bayview Landfill
PROJECT NUMBER 1354
CLIENT City of Burlington
LOCATION Burlington, Ont.

DRILLING CONTRACTOR Atcost Soil Drilling
DRILLER
SURFACE ELEVATION 161.172 m AMSL
WEATHER (a.m.)
(p.m.)

HOLE DESIGNATION LW5-86
DATE STARTED Jan. 8/86
DATE COMPLETED Jan 8/86
DRILLING METHOD HSA
CRA SUPERVISOR Bob Mayberry

DEPTH (ft/m) OR ELEVATION (ft/m) FROM	AT	TO	SAMPLE #	SAMPLING METHOD	PENETRATION RECORD SPLIT SPOON BLOWS 6"	6"	6"	6"	RECOVERED LENGTH	SAMPLE DESCRIPTION (COMPONENTS, COLOUR, MOISTURE, NATIVE/FILL)	NOTES (STRUCTURES, DRILLER'S COMMENTS, GEOLOGIC CLASSIFICATION)
0		7								Cover soil, clayey (no sample)	
7		22								Refuse	
22		30								Silty clay, red-brown (no sam)	
	30			SS	88					Weathered shale	end of hole

001039

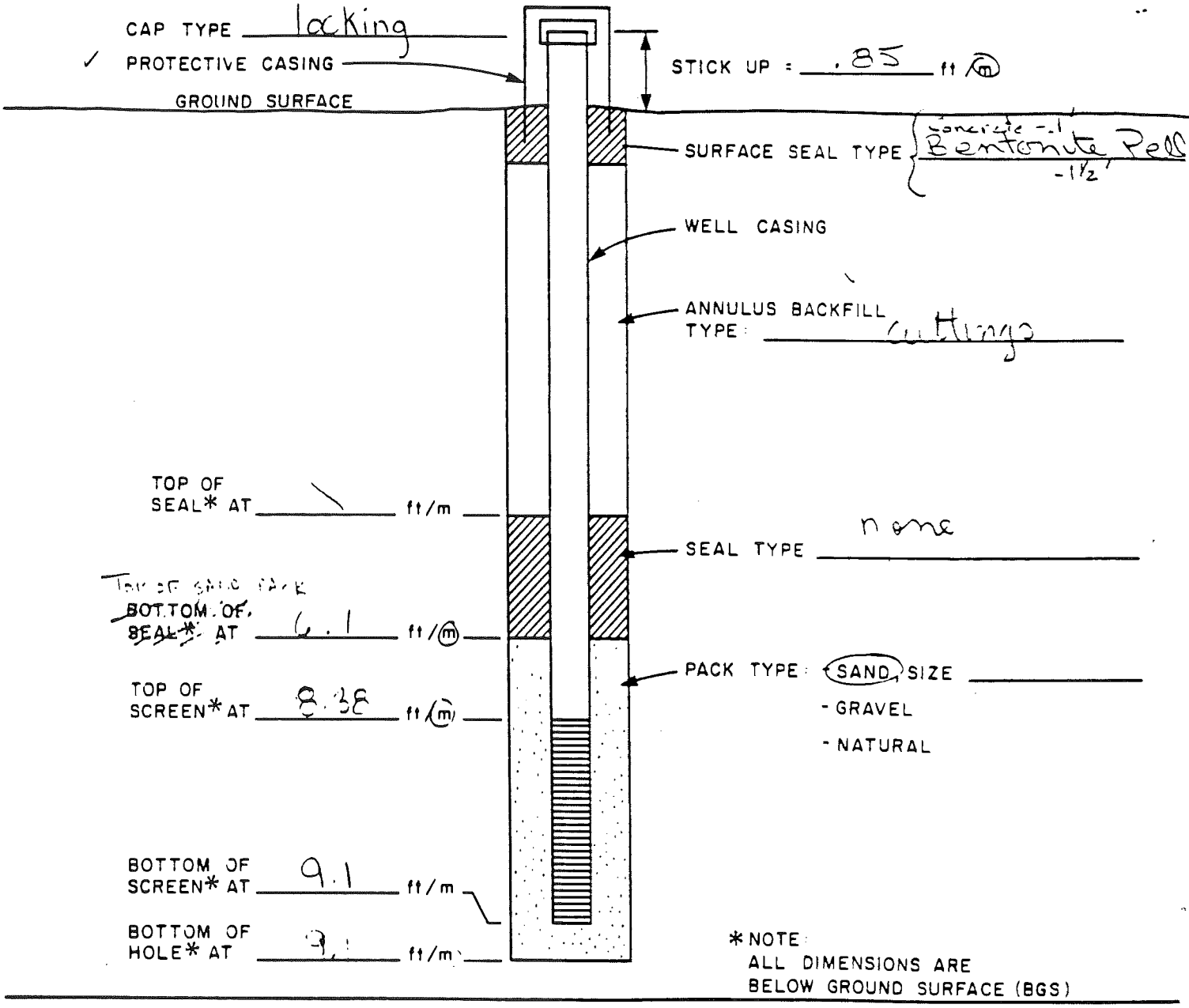
2/05/85

CRA

WELL INSTRUMENTATION LOG

PROJECT NAME: Fairview Landfill Site
PROJECT Nº: 1354
CLIENT: City of Burlington
LOCATION: Burlington, Ont

HOLE DESIGNATION: LW5-86
DATE COMPLETED: Jan 8 | 86
DRILLING METHOD: HSA
CRA SUPERVISOR: Bob Mayberry



SCREEN TYPE: ☐ continuous slot ☒ perforated ☐ louvre ☐ other:

SCREEN MATERIAL: ☐ stainless steel ☒ plastic ☐ other:

SCREEN LENGTH: ft (m) SCREEN DIAMETER: 2 (in)/cm SCREEN SLOT SIZE: #10

WELL CASING MATERIAL: PVC WELL CASING DIAMETER: 2 (in)/c

HOLE DIAMETER: 6"

DEVELOPMENT METHOD: DURATION: 1 hr.

001040

STRATIGRAPHY LOG (OVERBURDEN)

SHEET NO. 1 OF 1

PROJECT NAME Bayview Landfill
PROJECT NUMBER 1354
CLIENT City of Burlington
LOCATION Burlington, Ont.

DRILLING CONTRACTOR Atcost Soil Drilling
DRILLER
ELEVATION 168.44 ±L
WEATHER (a.m.)
(p.m.)

HOLE DESIGNATION LWG-86
DATE STARTED Jan. 9/86
DATE COMPLETED Jan 9/86
DRILLING METHOD HSA
CRA SUPERVISOR Bob Mayberry

DEPTH OR ELEVATION (ft/m) FROM	AT	TO	SAMPLE #	SAMPLING METHOD	PENETRATION RECORD SPLIT SPOON BLOWS 6"	6"	6"	6"	RECOVERED LENGTH	SAMPLE DESCRIPTION (COMPONENTS, COLOUR, MOISTURE, NATIVE/FILL)	NOTES (STRUCTURES, DRILLER'S COMMENTS, GEOLOGIC CLASSIFICATION)
0		10								Cover soil (no sample)	
10		21								Refuse	
21		30								Silty clay, red (no sample)	
30		35								Weathered shale	
	35									- 100 Blows - 7"	
										- Weathered shale	end of hole

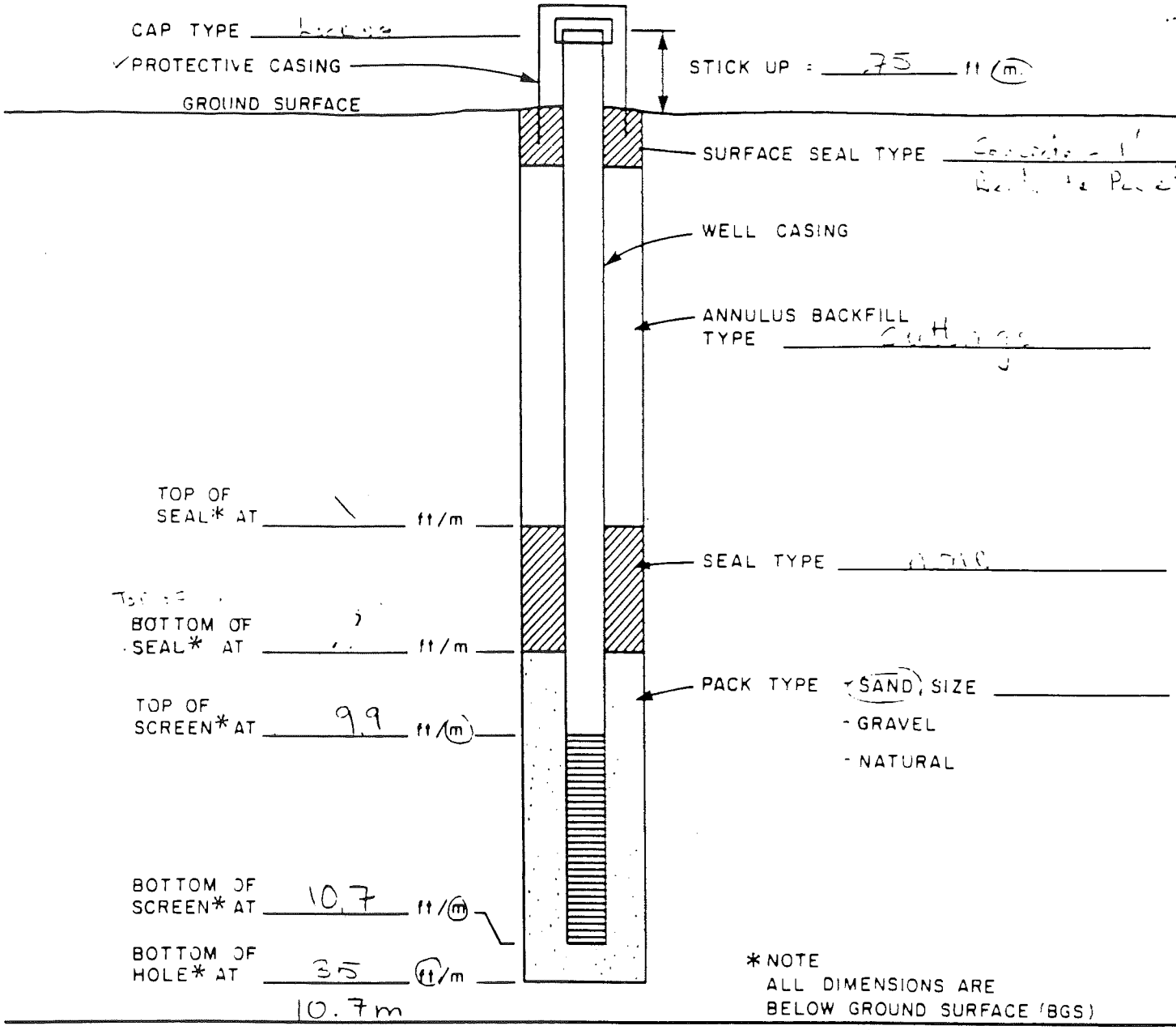
001041

CRA

WELL INSTRUMENTATION LOG

PROJECT NAME: Bayview Landfill Site
PROJECT Nº: 1354
CLIENT: City of Burlington
LOCATION: Burlington, Ont

HOLE DESIGNATION: LW6-86
DATE COMPLETED: 9 Jan 86
DRILLING METHOD: CA
CRA SUPERVISOR: Zoh Mirzayan



SCREEN TYPE: ☐ continuous slot ☒ perforated ☐ louvre ☐ other

SCREEN MATERIAL: ☐ stainless steel ☒ plastic ☐ other:

SCREEN LENGTH: ft (m) SCREEN DIAMETER: 2 (in)/cm SCREEN SLOT SIZE: #10

WELL CASING MATERIAL: PVC WELL CASING DIAMETER: 2 (in)

HOLE DIAMETER: 8"

DEVELOPMENT METHOD: DURATION: 4 hrs

SPT (N) Value ○ ○ □ | Plastic and Liquid Limit —o | Project: HALTON EPA STUDY | Dwg No 1

Dynamic Cone Test —— | Unconfined Triaxial at Overburden Pressure 15 ⊂ 5 10 | SITE F. BURLINGTON | Borehole No HC 4-85

Shelby Tube ● ● | % Strain at Failure | Project No T 6600-HY

Field Vane Test × s | Penetrometer ▲

Lab Vane Test ×

Hole location and datum see drawing No 1

SAMPLES	Soil Description	ELEV m	Shear Strength (ASTM D2573) CSA A119.1 kPa 20 40 60	Natural Moisture Content % Atterberg Limits Dry Weight 10 20 30	Natural Unit Weight kN/m³
	RED SHALE with occasional mottled or bands of GREEN SHALE moderately weathered vertical fractures to ∿ 6m. Horizontal partings 50 to 100 mm apart.	137.40			
	Refusal	131.30			

Notes: Borehole advanced to 6.1m. Bedrock cored from 6.1m to 30.8m. See corresponding sheets. Continuous split barrel sampling.

0 1 2 3 4 5 6 7 8 9 10 11

ILLIDIrO

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 137.40	Datum: GEODETIC	Borehole No.: HC 4-85
Location: SITE F, BURLINGTON	Date Started: SEPT 26/85	Completed: SEPT 28/85	Logged By: J.R. EVANS	Sheet: 1 of 6
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No.: 1-6200-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No	CORE RECOVERY %	ROD %	CORE SIZE/CASING	WATER RECOVERY/ LEVEL & TESTS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		5.5																
		6.0																
131.30				Shale-unweathered to highly weathered; very low strength to 30.8 m. Very close to wide spacing. The roughness of the fracture plane varies from rough undulating to smooth planar.	1	B	F	C	SP	T	O			1	95	69	HQ	
		6.5		Dipping joints at: 8.7-8.9 m, 9.75-10.0 m, 12.2-12.6 m, 16.1-16.2 m, 16.5-16.6 m, 23.55-24.0 m, 29.2-29.3 m.				C/M										
		7.0		Vertical joints at 16.9-77.1 m, 25.0-25.3 m, 26.6-27.8 m, 28.5, 30.1-30.8 m.														
		7.5		Dipping and vertical joints at 17.1-17.5 m, 30.0 - 30.1 m.														
				Reddish brown to greyish green, mottled in sections.														
		8.0		Ground up core/possible.														
				Fracture zones at 10.0-10.1 m, 10.5-10.6 m, 10.7-10.72 m, 11.9 - 11.92 m, 16.9-17.1 m, 23.5-23.55 m, 27.6-27.61 m, 27.9-28.4 m, 28.5-28.9 m, 28.95-29.2 m, 29.8- 29.81 m, 30.0-30.01 m.				C/M	SP/SU								
		8.5		Clay/mud/seams at 10.7 m.	2	B/J	F/D	C	RP									
								VC										
		9.0		Vugs/gypsum filled vugs and fracture zone surface coatings at 6.6-8.7 m, 12.6-14.2 m, 16.5-16.9 m, 17.1-17.93 m, 18.6-21.7 m, 24.6-24.7 m, 25.3-26.6 m, 28.5-28.9 m, 29.3-29.8 m.	1	B	F	C	SP					2	83	76	HQ	
								C/M										
		9.5			2	B/J	F/D	C										
		10.0			1	B	F	C	RP									
								VC										
		10.5						C										

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 137.40	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 26/85	Completed: SEPT 28/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 4-85

Sheet 2 of 6

Project No. T 5600-HY

1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No. OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No. CORE RECOVERY %	16 R Q D %	17 CORE SIZE/CASING	18 WATER RECOVERY LEVEL & TESTS	19
	10.5			1	B	F	VC	DR	T	O								
	11.0						M	SR										
	11.5							RR										
	12.0						C	SR										
	12.5			2	B/J	F/D	C/VC	RU						3 98	59			
				1	B	F	C/M	RR										
	13.0																	
	13.5																	
	14.0																	
	14.5																	
							VC											
	15.0						C/VC											
							C/M	RU										
	15.5																	

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 137.40	Datum: GEODETIC
Location: SITE F, BURLINGTON	Core Started: SEPT 26/85	Completed: SEPT 28/85	Logged By: G.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: NQ

Borehole No: HC 4-85

Sheet 1 of 6

Project No: T 6600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No / CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY / LEVEL & TESTS
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	15.5			1	R	F	C/M	SU	T	O				4 85	43		
	16.0			2				RC									
				1	B	F	C	SP									
	16.5			2	B/	F/	C	RU									
							VC										
				1	B	F	C	SU									
	17.0			2	B/	F/	VC	RP									
				3		F/	C	RU									
	17.5					Q/	VC										
				1	B	F	C										
	18.0						C										
							C	SU									
							C	SP									
	18.5						M/C	SP									
								SU									
	19.0													5 100	100		
	19.5																
	20.0																
	20.5																

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 137.40	Datum: GEODETIC	Borehole No.: HC 4-85
Location: SITE F, BURLINGTON	Date Started: SEPT 26/85	Completed: SEPT 28/85	Logged By: J.R. EVANS	Sheet 4 of 6
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No.: T-5600-HY

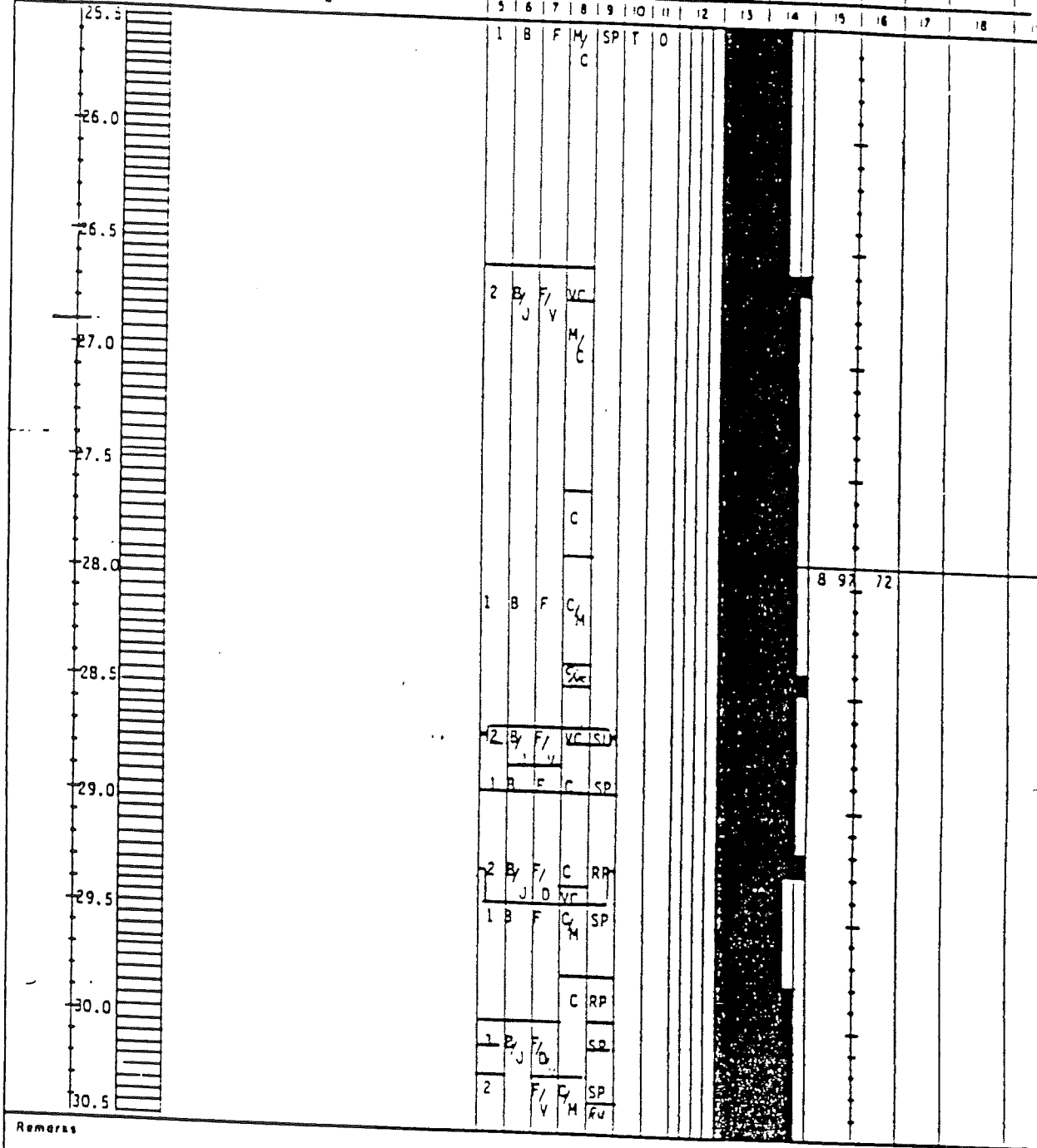
1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No / CORE RECOVERY %	16 R Q D %	17 CORE SIZE/CASING	18 WATER ALCOVERY / LEVEL & TESTS	19
	20.5			1	B	F	W/M/C	SP	SU	T	0							
	21.0																	
	21.5																	
	22.0						M/C	SP						5 89	57			
	22.5																	
	23.0																	
	23.5						C VC	SU										
				2	C/J	F/D			RP									
	24.0							SP										
				1	B	F	C											
	24.5						C VC	RP										
				4	B/J	F Qv	C	SU						7 98	87			
	25.0			2		F/V	C VC	RU SU										
	25.5			1	B	F	M	SP										

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 137.40	Datum: GEODETIC	Borehole No: HC 4-85
Location: SITE F, BURLINGTON	Date Started: SEPT 26/85	Completed: SEPT 28/85	Logged By: I. R. EVANS	Sheet: 5 of 6
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No: T-6600-HY



Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 137.40	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 26/85	Completed: SEPT 28/85	Logged By: I.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 4-85

Sheet 5 of 5

Project No. T-6600-HY

1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No CORE RECOVERY %	16 R Q D %	17 CORE SIZE/CASING	18 WATER RECOVERY LEVEL & TESTS	19
	30.5			2	B/J	F/V	C/M	SP/RU	0	T								
106.90			Borehole terminated at 30.80 m															
	31.0																	

Remarks

SPT 'N' Value
Dynamic Cone Test
Shelby Tube
Field Vane Test
Lab Vane Test
Plastic and Liquid Limit
Undrained Triaxial at
Overburden Pressure
% Strain at Failure
Penetrometer

Project: HALTON EPA STUDY
SITE F, BURLINGTON

Dwg No 1
Borehole No HC 6-8
Project No T 6600

Hole location and datum see drawing No 1

G W L	Symbol	Soil Description	ELEV m
		CLAYEY SILT TILL: yellow brown highly weathered mottled, trace of gravel, organics and roots noted to 2.59m. Vertical fracturing noted from 1.07m to 4.88m. Horizontal fractures noted from 2.59 to 4.11m becoming greenish brown with depth.	127.78
		WEATHERED RED SHALE thinly bedded.	122.90
		GREEN SHALE, hard.	122.15
		REFUSAL	121.68

Notes: Borehole advanced to 6.10m. Bedrock cored from 30.80m. to 27.74m. See corresponding core sheets.

Continuous split barrel sampling.

Shear Strength (ASTM D1586 CSA A119.1) kPa

Natural Moisture Content and Atterberg Limits % Dry Weight

TL10r0

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 127.78	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 22/85	Completed: SEPT 25/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC-6-85 | Sheet 1 of 5 | Project No. T 5500-HY

ELEVATION	DEPTH (m)	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No / CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
121.68	6.0																
	6.5		Shale-unweathered to highly weathered in sections. Unweathered below 15.5 m very low strength to 30.8 m.	1	B	F	VC/C	RP	T	O				1 66	33		
			Bedding spacing ranges from very close to moderate. The roughness of the fracture surface varies from slickensided planar to rough undulating.	2	B/J	F/V	C							2 93	63		
	7.0		Dipping joints at 7.3 - 7.4 m, 26.1 - 26.8 m, 27.2 - 27.7 m.	1	B	F	M	RP/LP									
			Vertical joints at 6.4 - 6.7 m, 7.4 - 8.2 m, 9.4 - 9.8 m, 14.8 - 15.5 m, 26.8 - 27.2 m.	2	B/J	F/V	C	LP									
	7.5		Reddish brown to greyish green, mottled in sections. Ground up core / possible.	1	B	F		RP									
	8.0		Fracture zones at 7.4 - 7.44 m, 8.2 - 8.23 m, 8.6 - 8.7 m, 16.9 - 17.0 m, 19.5 - 19.8 m, 20.6 - 20.64 m.	2	B/J	F/V	VC										
			Clay/mud seams at 19.5 m, 29.08 m, 29.11 m.				M										
	8.5		Gypsum coated fracture surface at 19.1 m.	1	B	F	C										
	9.0		Possible slickensides at 6.7 - 7.4 m, 8.9 - 9.0 m, 16.1 - 16.6 m, 17.0 - 18.0 m.				VC	LP/RP									
	9.5			2	B/J	F/V	C/VC	RP						3 94	98		
	10.0			1	B	F	C	SP									
	10.5							RP/SP									

Remarks

CORE LOG

Trow Ltd

Project: HALTON SPA STUDY	Orientation: VERTICAL	Collar Elevation: 127.78	Datum: GEODETIC	Borehole No.: HC 6-85
Location: SITE E, BURLINGTON	Date Started: SEPT 22/85	Completed: SEPT 25/85	Logged By: J.R. EVANS	Sheet 2 of
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No.: T 5600-HY

1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No. OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No. / CORE RECOVERY %	16 RQD %	17 CORE SIZE/CASING	18 WATER RECOVERY, LEVEL & TESTS
	10.5			1	B	F	C	SP / RP	T	O							
	11.0																
	11.5																
	12.0																
	12.5						M	SP						4 98	97		
	13.0																
	13.5																
	14.0																
	14.5																
	15.0			2	B/J	F/V	C										
	15.5																

Remarks

CORE LOG

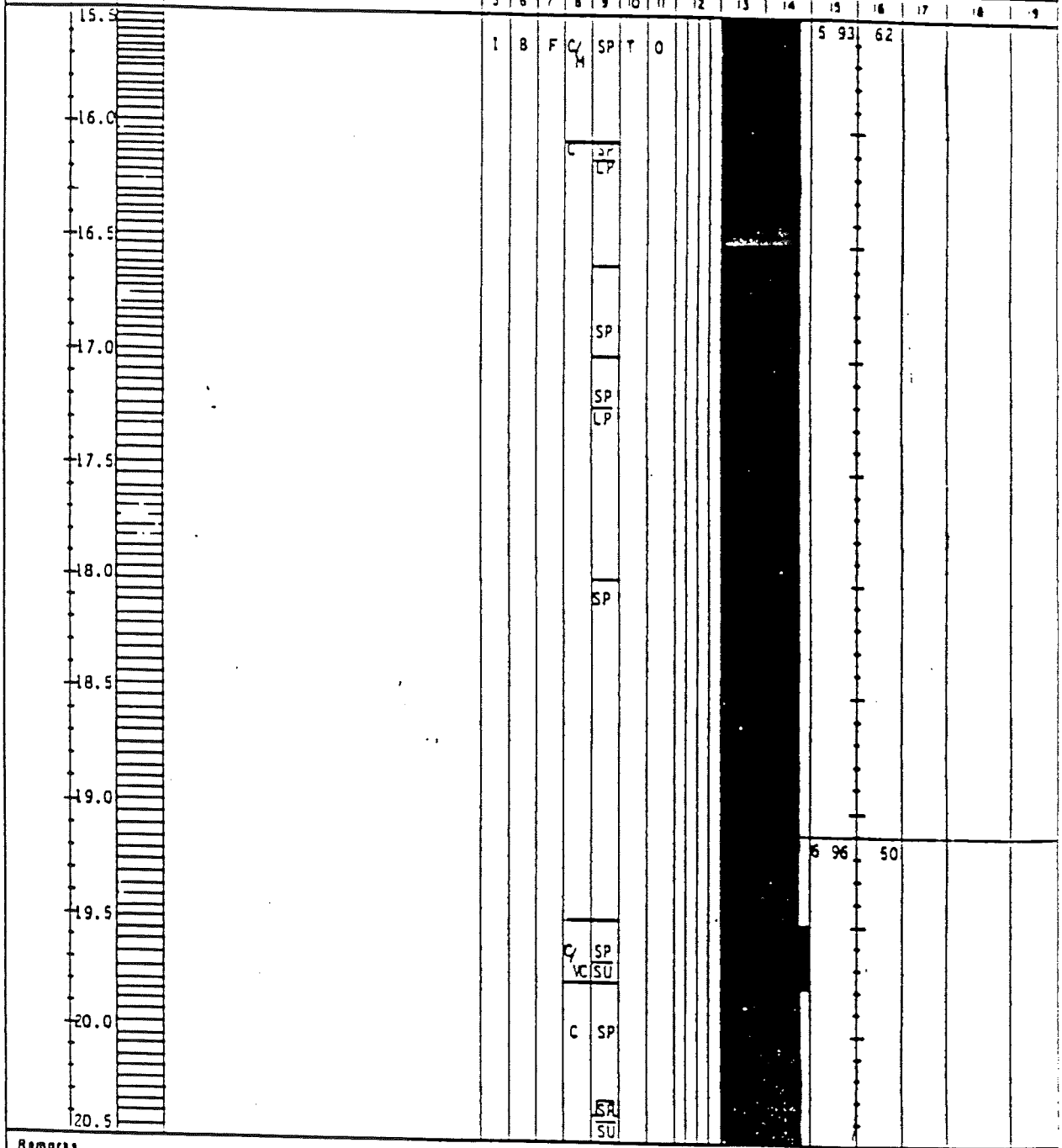
Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 127.78	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 22/85	Completed: SEPT 25/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No: HC 6-85

Sheet 3 of 6

Project No.: T 5800-HY



Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 127.78	Datum: GEODETIC
Location: SITE F BURLINGTON	Date Started: SEPT 22/85	Completed: SEPT 25/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 5-85

Sheet 4 of 5

Project No. [illegible]

1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No / CORE RECOVERY %	16 R Q D %	17 CORE SIZE/CASING	18 WATER RECOVERY / LEVEL & TESTS
	20.5			1	B	F	C	SP SU SR	T	O							
	21.0						C/M										
	21.5						M	SP						7 99	93		
	22.0						VC	RU									
	22.5						M										
	23.0																
	23.5																
	24.0																
	24.5																
	25.0						M/C	SP						8 97	78		
	25.5																

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 127.78	Datum: GEODETIC	Borehole No.: HC 6-85
Location: SITE F, BURLINGTON	Date Started: SEPT 22/85	Completed: SEPT 25/85	Logged By: J.R. EVANS	Sheet 5 of 6
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No.: T-8600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No. / CORE RECOVERY %	ROD %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18 19
	25.5			1	B	F	M/C	SP	T	O							
	26.0						C										
				2	B/J	F/O	M/C										
	26.5																
	27.0						C										
	27.5						VC										
				1	B	F	C							9 99	89		
	28.0																
	28.5						C										
							VC										
	29.0						VC	SM									
							C/M	SP									
	29.5																
	30.0																
	30.5																

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 127.78	Datum: GEODETIC	Borehole no.: HC 6-85
Location: SITE F, BURLINGTON	Core Started: SEPT 22/85	Completed: SEPT 25/85	Logged By: J.R. EVANS	Sheet: 6 of 6
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No.: 6600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No. CORE RECOVERY %	RQD %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
96.82	31.0		Borehole terminated at 30.80 m	1	B	F	C/M	SP	T	O						-	-

Remarks

SPT (N) Value ○ ○ □ Plastic and Liquid Limit —○— P ... HALTON EPA STUDY Page No. 1

Dynamic Cone Test —— Undrained Triaxial at ... SITE F, BURLINGTON Borehole No. HC_7-85_

Shelby Tube ● ● Overburden Pressure ... Project No. T 6600-

Field Vane Test ×s ... Strain at Failure ...

Lab Vane Test ×c Penetrometer ▲

Hole location and datum see drawing No. 1

G W L	Sample	Soil Description	ELEV	Depth (m)	ASTM Unconfined Compression Strength (Shear Strength) MPa	Natural Water Content / Atterberg Limits / Dry Density
		Sandy SILT TILL with occasional gravel, traces of organics and seams of fine sand.	130.86	0		
		Greyish brown clayey SILT -TILL.	130.25	1		
				2		
				3		
				4		
				5		
				6		
				7		
				8		
				9		
		REFUSAL	126.47	10		

Notes: Borehole advanced to 4.39m. Bedrock cored from 4.39m. to 30.69m. See corresponding core sheets.

Continuous split spoon sampling.

TL10rD

001057

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 130.66	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: SEPT 10/85	Completed: SEPT 13/85	Logged By: M. LOHSE/ J. EVANS/S. KHAN
Client: REGION OF HALTON	Drilling Agency: MASTER SOIL	Drill Type: CME 55	Core Barrel & Bit Design: HQ

Borehole No. HC-7-85 | Sheet 1 of | Project No. T 2600-HY

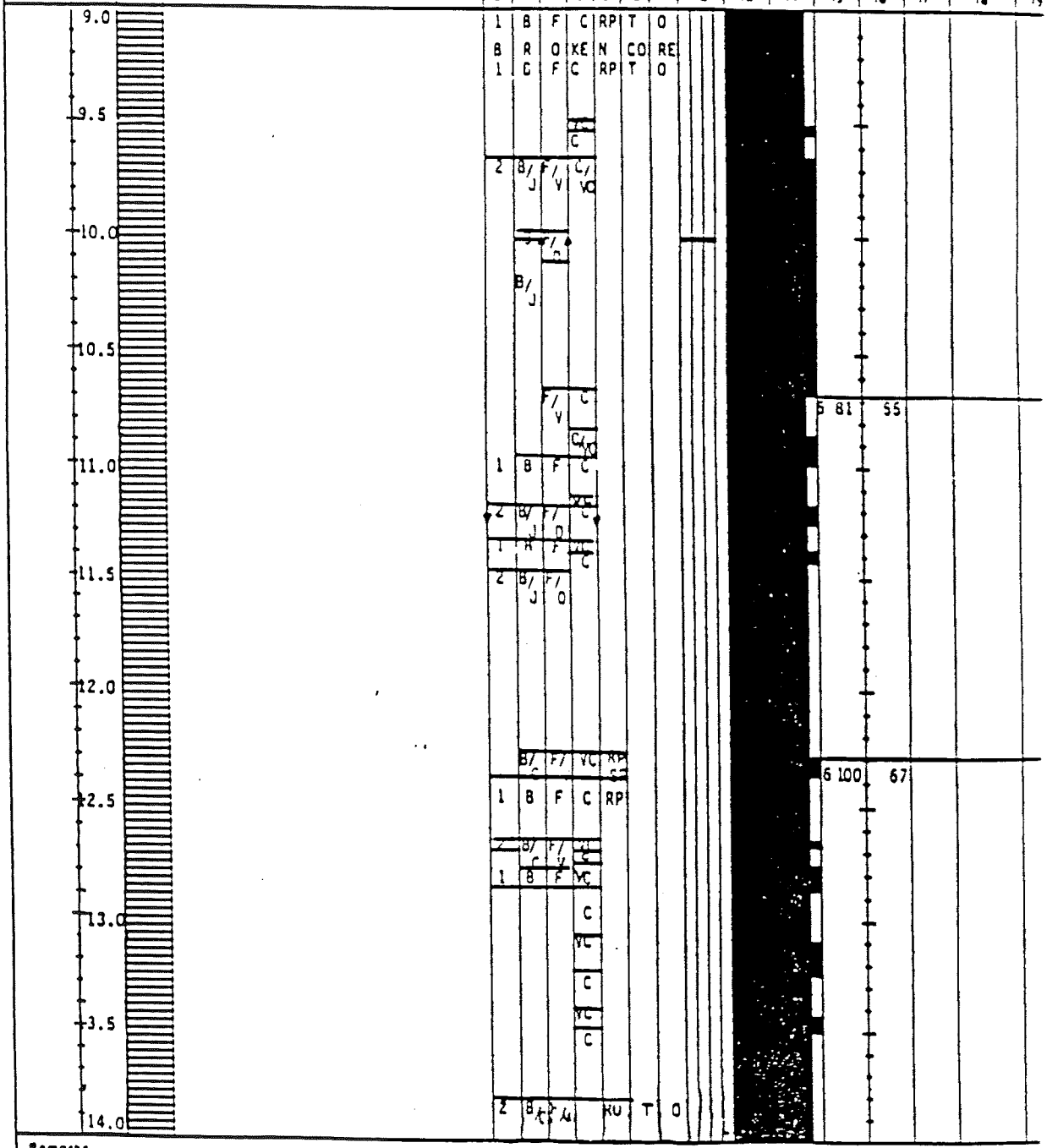
ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No. OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No. CORE RECOVERY %	R.Q.D. %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	4.0																
126.47	4.5		Shale: unweathered to weathered (largely in first 2 m) very low strength to 30.69 m. Bedding spacing ranges from very close to moderate and roughness of the fracture surface from rough planar to smooth planar. Dipping joints - (m) 4.89-5.24, 6.44-6.65, 7.70-7.82, 8.04-8.14, 9.99-10.68, 11.25-11.37, 11.48-12.29, 21.79-22.09, 24.00-24.48, 30.13-30.27, 30.41-30.46 m. Vertical Joints (m) 4.41-4.89, 5.24-5.37, 6.23-6.44, 6.85-6.95, 9.14-8.43, 9.65-9.99, 10.68-10.99, 12.29-12.37, 12.65-12.68, 13.84-14.47, 15.87-15.95, 17.13-17.30, 17.77-18.07, 19.46-19.53, 21.31-21.34, 22.71-22.73, 22.91-22.96, 23.69-23.77, 26.23-26.25 m. Flat, Vertical, Dipping Joints (m) 5.42-5.57, 22.28-22.71, 24.48-24.60, 28.53-28.68 m. Reddish brown to greenish grey mottled in sections, ground up core possible fracture zone at 5.37-5.42, 6.30-6.35, 7.68-7.70, 7.02-7.84, 9.15-9.17, 13.16-13.18, 13.44-13.55, 15.48-15.99, 18.94-18.98, 21.31-21.34, 22.28-22.13, 22.96-23.22, 24.48-24.60, 26.23-26.25, 26.75-27.05 m. Clay/mud seams - 5.57-6.23, 10.12-10.13 m. Vugs/Gypsum filled vugs and fracture surface coatings at 4.39-5.42, 6.40-6.71, 6.99-7.09, 7.84-8.04, 8.14-8.33, 8.54-8.67, 10.99-11.62, 11.73-12.29, 12.37-12.92, 13.49-13.51 m. Fine Gravel and sand seams at 13.82-13.84, 13.93-13.94 m.	1 B F VC C RP T O 2 B/C F/V C F/D 3 F/V Broken Core B/C F/C D/ Clay Seam 3 B/C F/V Broken Core 3 B/C F/V 2 F/D 1 B F 2 B/C F/V 1 B F Broken Core 2 B/ F/ RP Broken Core 1 B F 2 B/C F/D SP RP 1 B F VC - C								1 71	47		
	5.0																
	5.5																
	6.0																
	6.5													2 69	39		
	7.0																
	7.5																
	8.0													3 04	44		
	8.5																
	9.00																

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 130.86	Datum: GEODETIC	Borehole No: HC-7-85
Location: SITE F, BURLINGTON	Date Started: SEPT 10/85	Completed: SEPT 13/85	Logged By: LOHSE/ J. EVANS/S. KHAN	Sheet 2 of 6
Client: REGION OF HALTON	Drilling Agency: MASTER SOIL	Drill Type: CME 55	Core Barrel & Bit Design: HQ	Project No. T 5500-HV



Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 130.36	Datum: GEODETIC	Borehole No: HC-7-85
Location: SITE F, BURLINGTON	Date Started: SEPT 10/85	Completed: SEPT 13/85	Logged By: LOHSE/ J. EVANS/S. KHAN	Sheet 1 of 1
Client: REGION OF HALTON	Drilling Agency: MASTER SOIL	Drill Type: CME 55	Core Barrel & Bit Design: HQ	Project No: 5600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No. OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No. / CORE RECOVERY %	RQD %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

14.0
14.5
15.0
15.5
16.0
16.5
17.0
17.5
18.0
18.5
19.0

7 98 93

8 92 00

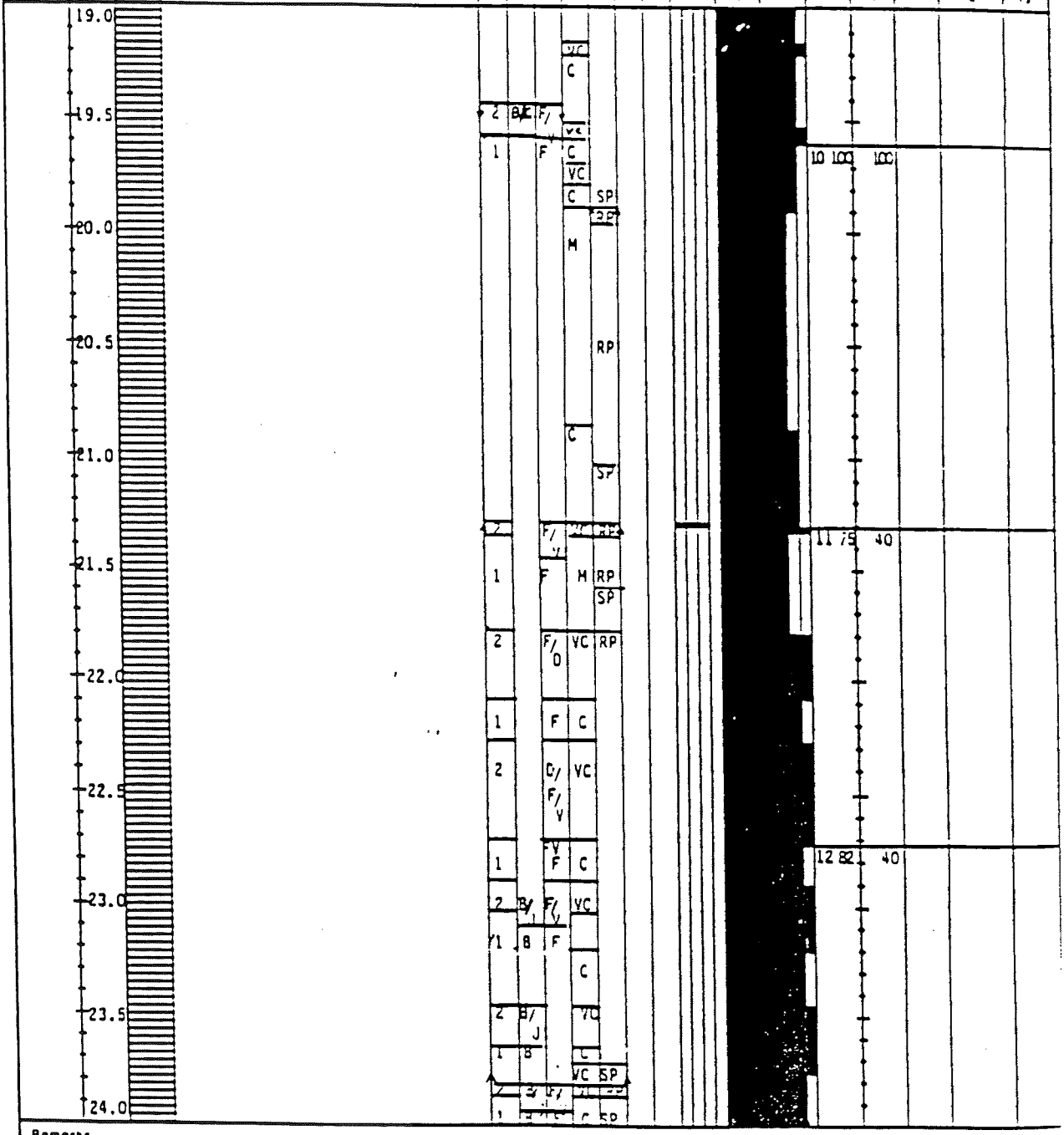
9 100 71

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 130.86	Datum: GEODETIC	Borehole No: HC-7-85
Location: SITE F, BURLINGTON	Date Started: SEPT 10/85	Completed: SEPT 12/85	Logged By: LOHSE/J. EVANS/S. VUAN	Sheet 4 of 6
Client: REGION OF HALTON	Drilling Agency: MASTER SOIL	Drill Type: CME 55	Core Barrel & Bit Design: HQ	Project No.: 5500-HV



Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 130.66	Datum: GEODETIC	Borehole No: HC-7-85
Location: SITE F, BURLINGTON	Date Started: SEPT 10/85	Completed: SEPT 13/85	Logged By: H. LOHSE/ J. EVANS/S. KHAN	Sheet: 5 of 5
Client: REGION OF HALTON	Drilling Agency: MASTER SOIL	Drill Type: CME 55	Core Barrel & Bit Design: HQ	Project No: T 5600-AY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No	CORE RECOVERY %	R Q D %	CORE SIZE/CASING	WATER RECOVERY	LEVEL & TESTS
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	16	17	18	19
	24.0				2		F/ D	VC	RP											
	24.5				3	B/ J	F/ D/								13	100	93			
					1	B	F	C	SP											
	25.0																			
	25.5							A												
	26.0							C	SP RP											
					2	B/ J	F/ V	VC	RP						14	84	31			
	26.5				1	B	F	C												
								VC												
	27.0							C												
								VC												
								C												
	27.5																			
	28.0														15	61	60			
								M	SP											
	28.5				3	A G	F/ D/	VC	RP											
					1	B	F	M	SP											
	29.0																			

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 130.86	Datum: GEODETIC	Borehole No.: HC-7-85
Location: SITE F, BURLINGTON	Date Started: SEPT 10/85	Completed: SEPT 13/85	Logged By: H. LOHSE/ J. EVANS/S. KHAN	Sheet 1 of 1
Client: REGION OF HALTON	Drilling Agency: MASTER SOIL	Drill Type: CME 55	Core Barrel & Bit Design: HQ	Project No.: T 6600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No. OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No. CORE RECOVERY %	R.Q.D. %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	29.0																
	29.5						C	RP SP						16 100	95		
	30.0														30		
				2		F/D	C VC	RP									
	30.5			1		F	C VC										
100.17			Borehole terminated at 30.69 m														
	31.0																

Remarks

Dynamic Cone Test
Shelby Tube
Field Vane Test
Lab Vane Test
Plastic and Liquid Limit
Undrained Triaxial at
Overburden Pressure
% Strain at Failure
Penetrometer

Project: HALTON EPA STUDY
SITE F. BURLINGTON

Date No 1
Borehole No HC 9-8
Project No T 6600-

Note location and datum see drawing No 1

G.W.L.	Symbol	Soil Description	ELEV m
		TOPSOIL dark reddish brown	105.58
		CLAY TILL red brown thin silt seams to 1.5m, trace of gravel, vertical fractures, some mottling at depth.	105.43
		FINE to MEDIUM INTERBEDDED SAND yellow brown with some clay layers.	102.50
		RED BROWN CLAY interbedded with silt and sand	101.40
		MEDIUM RED BROWN SAND and fine gravel.	101.31
		GRAVEL TILL with reddish brown silty sand matrix.	101.16
		FINE to MEDIUM SAND bedded loose trace of gravel.	
		SAND TILL some clay lumps and gravel.	99.86
		RED BROWN SHALE BOULDER.	99.48
		RED BROWN CLAY TILL.	99.18
		YELLOW BROWN CLAY SILT TILL trace of gravel.	98.94
		GREY BROWN CLAY SILT TILL with gravel and trace of sand.	97.96
		Refusal	96.48
			9.12 m

Notes: Borehole advanced to 9.10 m. Bedrock cored from 9.10 m to 30.90 m.

See corresponding core sheets

See Grain Size Curves

Shear Strength kPa

Natural Moisture Content and Atterberg Limits Dry Weight

001064

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 105.58	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: OCT 9/85	Completed: OCT 15/85	Logged By: I.D. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 9-85 | Sheet 1 of 5 | Project No. 6600-HY

1 ELEVATION	2 DEPTH (m)	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No / CORE RECOVERY %	16 RQD %	17 CORE SIZE/CASING	18 WATER RECOVERY	19 LEVEL & TESTS
95.48	9.0																	
	9.5		Shale - slightly to moderately weathered, very low strength to 30.9 m. Bedding spacing ranges from very close to wide and the roughness of the fracture plane from rough undulating to smooth planar. Dipping joints at 9.2 - 9.4 m, 11.6 - 11.9 m, 15.7 - 15.9 m, 28.1 - 28.2 m. Vertical joints at 9.1 - 9.2 m, 9.4 - 9.6 m, 17.2 - 17.3 m, 19.6 - 20.3 m, 23.85 23.9 m, 24.3 - 24.5 m. Reddish brown to greyish green, mottled in sections. Ground up core / fracture zone at 9.6 - 9.7 m, 15.9 - 16.0 m, 17.1 m, 18.9 - 18.92 m, 24.8 - 24.85 m, 27.0 - 27.5 m, 30.8 m. Clay/mud seams at 9.1 - 9.2 m. Gypsum coated fracture zone at 16.5 m, 17.3 m, 19.6 m, 20.9 m.	2	B/	F/	C/ VC	PU	SC	T			1 89	28			
	10.0			1	B	F	C/ VC	RU/ SU	O	T				2 92	73			
	10.5						C/	SU										
	11.0																	
	11.5																	
	12.0			2	B/ J	F/ D	C	SP	O	T								
	12.5			1	B	F	C	RU/ SU	O	T								
	13.0						VC	SP						3 99	89			
	13.5																	

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 105.58	Datum: GEODETIC	Borehole No.: HC 9-85
Location: SITE F, BURLINGTON	Core Started: OCT 9/85	Completed: OCT 15/85	Logged By: J.R. EVANS	Sheet 2 of 5
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No.: T 4600-HY

1 ELEVATION	2 DEPTH (m)	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No. OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No. CORE RECOVERY %	16 R.Q.D. %	17 CORE SIZE/CASING	18 WATER RECOVERY, LEVEL & TESTS	19
	13.5			1	B	F	W	SP	T	O								
	14.0						C											
	14.5																	
	15.0						C/H											
	15.5						C	SP						4 93	76			
	16.0			2	B/J	F/D												
				1	B	F												
	16.5																	
	17.0																	
	17.5			2	B/	F/	VC	SP										
							M											
	18.0																	
	18.5						C	RF										

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 105.58	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: OCT 9/85	Completed: OCT 15/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No.: HC 9-85

Sheet 3 of 5

Project No.: T 6600-HY

1 ELEVATION	2 DEPTH	3 SYMBOL	4 GENERAL DESCRIPTION	Joint Characteristics: 5 No. OF SETS	6 JOINT TYPE	7 ORIENTATION	8 SPACING	9 ROUGHNESS	10 FILLING	11 APERTURE	12 WEATHERING	13 STRENGTH	14 FRACTURE FREQUENCY	15 RUN No. / CORE RECOVERY %	16 R Q D %	17 CORE SIZE/CASING	18 WATER RECOVERY, LEVEL & TESTS	19
	18.5			1	B	F	C	RP	T	O								
							VC	SP						5 92	92			
	19.0						C											
							C/F	SP										
	19.5						M	SP										
				2	B/J	F/V												
	20.0																	
	20.5			1	B	F												
	21.0																	
	21.5																	
							C											
	22.0													6 100	80			
	22.5																	
	23.0																	
	23.5																	

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 105.58	Datum: GEODETIC	Borehole No.: HC 9-85	
Location: SITE F, BURLINGTON	Date Started: OCT 9/85	Completed: OCT 15/85	Logged By: I.D. EVANS	Sheet: 4 of 5	
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ	Project No.: T 5600-HY	

ELEVATION	DEPTH (m)	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No / CORE RECOVERY %	RQD %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	23.5			1	B	F	C	SP	T	O							
	24.0			2	B/	F/											
				1	B	F											
	24.5			2	B/	F/											
				1	B	F	VC										
	25.0						C/M							7 95	91		
	25.5						C										
	26.0																
	26.5						M										
	27.0						M										
	27.5						C										
	28.0													8 99	88		
				2	B/	F/											
	28.5			1	B	F											

Remarks

CORE LOG

Trow Ltd

Project: HALTON EPA STUDY	Orientation: VERTICAL	Collar Elevation: 105.58	Datum: GEODETIC
Location: SITE F, BURLINGTON	Date Started: OCT 9/85	Completed: OCT 15/85	Logged By: J.R. EVANS
Client: REGION OF HALTON	Drilling Agency: ALL TERRAIN	Drill Type: CME 75	Core Barrel & Bit Design: HQ

Borehole No. HC 9-85

Sheet 5 of 5

Project No. T 6600-HY

ELEVATION	DEPTH	SYMBOL	GENERAL DESCRIPTION	Joint Characteristics: No. OF SETS	JOINT TYPE	ORIENTATION	SPACING	ROUGHNESS	FILLING	APERTURE	WEATHERING	STRENGTH	FRACTURE FREQUENCY	RUN No. CORE RECOVERY %	ROD %	CORE SIZE/CASING	WATER RECOVERY, LEVEL & TESTS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	28.5			1	B	F	C	SP	T	O							
	29.0																
	29.5						C/M										
	30.0																
							M										
	30.5																
							C	RP									
74.64	31.0		Borehole terminated at 30.90 m														

Remarks

APPENDIX D

1995 MONITORING PROGRAM

CONESTOGA-ROVERS & ASSOCIATES
1995 SITE MONITORING SPECIFICATIONS

PROJECT: Bayview Park Landfill Site

PROJECT NO.: 1354-30

PROJECT MANAGER: Peter Hayes

PROJECT COORDINATOR: Jo-Anne Ing

MONITORING STAFF:	RESPONSIBILITY
Roger Waller	Field Technician
Dan Daum	Field Technician
Rob Toth	Coordinator/Chemist QA/QC

LABORATORY USED: CRA Analytical Services (CAS), Novamann (Ontario) Ltd. (Novamann)

AUTHORIZATION:	MONITORING EVENT	SIGNATURE	DATE
	April		
	July		
	October		Sept 26/95

MONITORING PROGRAM DESCRIPTION
- o surface water monitoring Section 1.0
- o leachate level monitoring Section 2.0
- o leachate collection monitoring Section 3.0
- o off-Site groundwater monitoring Section 4.0
- o leachate seep inspection Section 5.0

SPECIAL INSTRUCTION
- o January event:
- o April event:
- o July event:
- **o October event:**

REVISION:	DATE	REVISION
	April 4, 1995	delete off-site groundwater wells HC4-3, HC6-2, HC6-3
	June 13, 1995	review for July monitoring event
	Sept. 25, 1995	review for October monitoring event

1.0 SURFACE WATER MONITORING

1.1 Locations: 12 surface water: SW1-87, SW3-87, SW4-87, SW5-87, SW6-87, SW7-87, SW8-87, SW9-87, SW10-87, SW11-87, SW12-87, SW13-88

sample locations	12
duplicates	1
field Blank	1
Total	14

(additional trip blank for VOCs)

1.2 Monitoring Frequency:

Semiannually: April, after significant rainfall (wet weather sampling) July (dry weather sampling), if July sampling event is dry then surface water samples will be collected in October.

1.3 Types of Monitoring

1. measure flow rate accurately at each location using flow meter and record as L/sec or gpm

2. sampling:

VOCs	see Table A.1
General Chemistry	field pH, field conductivity, alkalinity, chloride, sulfate, TKN, ammonia-N, phenols
Bacteria	total coliforms, fecal coliforms, fecal streptococci, E. Coli coliforms

3. laboratory detection limit for ammonia must be less than 0.02 mg/L

2.0 LEACHATE WELL MONITORING

2.1 Location: 6 Leachate Wells LW1, LW2, LW3, LW4, LW5, LW6

2.2 Monitoring Frequency:

Twice per year: April and July

2.3 Types of Monitoring

1. measure depth with plopper (sound) of each leachate well
2. monitor leachate level in each well

3.0 LEACHATE COLLECTION SYSTEM MONITORING

3.1 Location: 2 Manholes MH15 and MH14

Sample location	1 (MH15 only)
Field blank	1
(additional trip blank for VOCs in October only)	

3.2 Monitoring Frequency:

Two times per year for leachate quality at MH15: **April and October**

3.3 Types of Monitoring

1. Sampling (at MH15):

General chemistry	see Table A.1, includes Field pH and Field Conductivity
Metals & Cyanide	see Table A.1
VOCs	see Table A.1
BNAEs	see Table A.1
Pesticides & PCBs	see Table A.1

NOTE: Attached parameter list (Table A.1) must be followed with no omissions.

4.0 OFF-SITE GROUNDWATER MONITORING

4.1 APRIL - WET WEATHER MONITORING EVENT

4.1.1 Locations:

8 Groundwater	PW1, PW3, HC4-2, HC4-4, HC7-1, HC7-2 HC9-2, HC9-3

General chemistry	
Sample locations	8
Duplicates	2 (one each of PW series and HC series)
Field Blank	1
Total	11
VOCs	
Sample locations	2 (PW1, PW3)
Duplicate	1
Total	3

4.1.2 Monitoring Frequency:

APRIL, after significant rainfall

4.1.3 Types of Monitoring

1. measure well depth and water level at each well

2. pump PW1 and PW3 for a minimum of 5 (five) hours (keck pump or well wizard purge pump may be used)

- sample PW1 and PW3, after pumping

3. Sampling: General Chemistry field pH, field conductivity, alkalinity, TKN, ammonia-N, chloride

phenol

VOCs see Table A.1 for VOC analyses

4.2 JULY - DRY WEATHER MONITORING EVENT

4.2.1 Locations:

8 Groundwater	PW1, PW3, HC4-2, HC4-4, HC7-1, HC7-2, HC9-2, HC9-3

General chemistry	
Sample locations	8
Duplicates	2 (one each of PW series and HC series)
Field Blank	1
Total	11

VOCs	
Sample locations	6 (2 PW series and 4 HC series wells)
Duplicate	2 (one each of PW series and HC series)
Field Blank	1
Total	9

4.2.2 Monitoring Frequency:

JULY, after significant dry period.

4.2.3 Types of Monitoring

1. measure well depth and water level at each well

2. pump PW1 and PW3 for a minimum of 5 (five) hours (Keck pump or Well Wizard purge pump may be used)
   - sample PW1 and PW3 after pumping for VOCs and general chemistry

3. sample select HC series for VOCs, one well at each HC nest, wells to be sampled will be verified by Peter Hayes prior to monitoring event

4.	Sampling:	General Chemistry	field pH, field conductivity, alkalinity, TKN, ammonia-N, chloride
			phenol
		VOCs	see Table A.1 for VOC analyses

5.0 LEACHATE SEEP INSPECTION

5.1	Locations:	9 Leachate Seeps	LS1, LS2, LS3, LS4, LS5, LS6, LS7, LS8, LS9

5.2 Monitoring Frequency:

Four times per year: January, April, July and October

5.3 Types of Monitoring:

1. Identify and photograph any leachate seep that has re-occured
2. Estimate flow rate at the seep and report as L/sec or gpm
3. Complete leachate seep inspection sheets
4. Report any occurrences of leachate seeps immediately to Peter Hayes or Jo-Anne Ing.

6.0 BOTTLE REQUIREMENTS

Analytical Destination	Samples Analyzed	Test Parameters
a) April		
CAS	30 X 1000 mL	General Chemistry
	30 x 500 ml	Phenols
Mann	15 x bacteria kits	Bacteria
Mann	20 x 2 x 40 ml (+ 2 trip blanks)	VOCs
	2 x 500 ml	metals
	2 x 250 ml	mercury
	2 x 250 ml	cyanide
	2 x 1000 ml	BNAEs
	2 x 1000 ml	Pesticides & PCBs
b) July		
CAS	30 X 1000 mL	General Chemistry
	30 x 500 ml	Phenols
Mann	15 x bacteria kits	Bacteria
Mann	25 x 2 x 40 ml (+ 2 trip blanks)	VOCs
c) October		
CAS	**2 x 1000 ml**	**General Chemistry**
	2 x 500 ml	**Phenols**
Mann	**3 x 2 x 40 ml**	**VOCs**
	2 x 500 ml	**metals**
	2 x 250 ml	**mercury**
	2 x 250 ml	**cyanide**
	2 x 1000 ml	**BNAEs**
	2 x 1000 ml	**Pesticides & PCBs**

TABLE A.1
LEACHATE PARAMETER LIST
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

GENERAL CHEMISTRY (CAS)

Hardness	Alkalinity	Fluoride
Chloride	Sulfate	Phosphorous (total)
TKN	Ammonia-N	Phenols
BOD	COD	Suspended Solids

METALS & CYANIDE (Novamann)

Aluminum (total)	Antimony (total)	Arsenic (total)
Barium (total)	Bismuth (total)	Cadmium (total)
Chromium (total)	Cobalt (total)	Copper (total)
Iron (total)	Lead (total)	Manganese (total)
Mercury (total)	Molybdenum (total)	Nickel (total)
Selenium (total)	Silver (total)	Tin (total)
Titanium (total)	Vanadium (total)	Zinc (total)
Cyanide (total)		

VOCs (Novamann)

1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Trichloroethane
Benzene	Trichloroethylene	Toluene
Tetrachloroethylene	Ethylbenzene	Chlorobenzene
1,3-Dichlorobenzene	1,4-Dichlorobenzene	m + p-Xylene
o-Xylene		

BNAEs (Novamann)

bis(2-ethylhexyl)Phthalate

PESTICIDES & PCBs (Novamann)

Aldrin	Carbaryl	Chlordane (Alpha and Gamma)
DDT	Diazinon	Dieldrin
Endrin	Heptachlor	Heptachlor Epoxide
Lindane (Gamma BHC)	Methoxychlor	Methyl Parathion
Parathion (Ethyl Parathion)	Toxaphene	PCBs

APPENDIX E

LEACHATE DISCHARGE FLOW REPORTS FOR 1995

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

January 30, 1995

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-4-1

During the period December 28, 1994 to January 27, 1995 inclusive the leachate discharge flows from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows:

Location	Pump	Pump Hours	Rate (M^3)	Total Flow
Station 2	1		12.560	1,317.54
Station 2	2		12.560	1,031.17
Station 3	1		8.025	1,267.95
Station 3	2		8.025	1,270.35
Collection	(MH 14)		-	13.33
TOTAL				4,900.35

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Supervisor of Client Services
and Contract Administration

EV/lk
74-95
c.c. - R. Young, Director TEAMS
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

March 2, 1995

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

MAR 7 1995

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees
Regional Sanitary System
File: 760-04-1

During the period January 28, 1995 to February 28, 1995 inclusive the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows:

Location	Pump	Pump Hours	Rate (M^3 Hr)	Total Flow
Station 2	1	74.9	12.560	940.74
Station 2	2	75.8	12.560	952.04
Station 3	1	95.5	8.025	766.38
Station 3	2	95.9	8.025	769.60
Collection (M.H.14)		-	-	13.76
TOTAL				3,442.52

Estimates of flow volumes for the collection located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Supervisor of
Client Services &
Contract Administration

EV/lk
168-95
c.c. - R. Young, Director TEAMS
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

April 6, 1995

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

APR 13 1995

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees
Regional Sanitary System
File: 760-04-1

During the period March 1, 1995 to March 31, 1995 inclusive the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows:

Location	Pump	Pump Hours	Rate (M^3 Hr).	Total Flow
Station 2	1	96.7	12.560	1,214.55
Station 2	2	84.2	12.560	1,057.55
Station 3	1	64.4	8.025	516.81
Station 3	2	63.9	8.025	512.79
Collection (M.H.14)		-	-	13.33
TOTAL				3,315.03

Estimates of flow volumes for the collection located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Supervisor of
Client Services &
Contract Administration

EV/lk
168-95
c.c. - R. Young, Director TEAMS
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank

1354

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

May 3,1995

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-4-1

During the period April 1, 1995 to April 28, 1995 inclusive the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows:

Location	Pump #	Pump Hours	Rate (m^3/hour)	Total Flow
Station 2	1	99.6	12.560	1,250.97
Station 2	2	85.5	12.560	1,073.88
Station 3	1	59.0	8.025	473.47
Station 3	2	59.1	8.025	474.27
Collection (M.H. 14)				12.04
Total				3,284.63

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Supervisor of Client Services &
Contract Administration

EV/lk
351-95
c.c. - R. Young, Director
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

June 16, 1995

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-4-1

During the period April 29 to May 31, 1995 inclusive the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional sanitary sewer were as follows:

LOCATION	PUMP	PUMP HOURS	RATE (M^3)	TOTAL FLOW
Station 2	1	95.4 hours	12.560	1,198.22
Station 2	2	79.7	12.560	1,001.03
Station 3	1	61.9	8.025	496.75
Station 3	2	61.9	8.025	496.75
Collection (M.H. 14)				14.19
Total				3,206.94

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Supervisor of Client Services
& Contract Administration

EV/lk
483-95
c.c. - R. Young, Director
- G. Ferraro, Conestoga-Rovers
- R. Calderbank

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone:
Fax No.: 333-6143
333-5866

July 6, 1995

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

JUL 1 1 1995

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees
Regional Sanitary System
File: 760-4-1

During the period June 1, 1995 to June 30, 1995 inclusive the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows:

Location	Pump	Pump Hours	Rate (m^3/Hour)	Total Flow
Station 2	1	19.1	12.560	239.89
Station 2	2	61.2	12.560	768.67
Station 3	1	39.8	8.025	319.39
Station 3	2	39.3	8.025	315.38
Collection (M.H. 14)			-	12.09
TOTAL				1,655.42

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Supervisor of Client Services &
Contract Administration

EV/lk
514-95
c.c. - R. Young, Director
- G. Ferraro, Eng., Conestoga-Rovers
- R. Calderbank

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

August 3, 1995

Mr.Michael Skora
Finance Analyst - Utilities
Region of Halton
P.O. Box 7000
Oakville, Ontario
L6J 6E1

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-04-1

During the period July 1, 1995 to July 28, 1995 inclusive, the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows:

Location	Pump	Pump Hours	Rate (m^3 Hr.)	Total Flow
Station 2	1		12.560	
Station 2	2	72.5	12.560	910.60
Station 3	1	35.0	8.025	280.88
Station 3	2	34.8	8.025	279.27
Collection	(MH 14)			12.04
TOTAL				1,482.79

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Supervisor of Client Services
& Contract Administration

EV/lk
585-95
c.c. - R. Young, TEAMS
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank, TEAMS

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6
Telephone: (905) 333-6143
(905) 333-5866
Fax No.:

September 14, 1995

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-4-1

During the period July 29, 1995 to September 12, 1995 inclusive, the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows: (Please note that the #1 pump on Station 2 is under repair.)

Location	Pump	Pump Hours	Rate (M3 Hr)	Total Flow
Station 2	1		12.560	
Station 2	2	100	12.560	1,236.00
Station 3	1	46.9	8.025	376.37
Station 3	2	46.6	8.025	73.96
Collection (M.H. 14)			---	19.78
TOTAL				2,026.11

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio
Supervisor of Client Services
& Contract Admin.

EV/lja
cc: R. Young, Director of T.E.A.M.S.
G. Ferraro, P. En., Connestoga-Rovers
R. Calderbank

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

November 7, 1995

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-4-1

During the period September 13, 1995 to October 31, 1995 inclusive, the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows: (Please note that the #1 Pump on Station 2 is now working):

LOCATION	PUMP	PUMP HOURS	RATE (m^3/hr)	TOTAL FLOW
Station 2	1	9.1	12.560	114.29
Station 2	2	119.6	12.560	1,502.17
Station 3	1	66.9	8.025	536.87
Station 3	2	66.9	-	536.87
Collection (MH 14)				21.07
TOTAL				2,711.27

Estimates of flow volumes for the collector located at manhole 14 are based upon average daily flow of 0.43 cubic metres.

Please direct all invoicing or discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Supervisor of Client Services &
Contract Administration

EV/lk
791-95
c.c. - R. Young
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

1354

December 5, 1995

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-4-1

During the period November 1, 1995 to December 1, 1995 inclusive, the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows:

Location	Pump	Pump Hours	Rate (m^3 Hr.)	Total Flow
Station 2	1	99.2	12.560	1,245.95
Station 2	2	120.7	12.560	1,515.99
Station 3	1	141.1	8.025	1,132.33
Station 3	2	141.3	8.025	1,133.93
Collection (M.H. 14)		-	-	13.33
TOTAL				5,041.53

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Supervisor of Client Services
& Contract Administration

EV/lk
c.c. - R. Young
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank

1529

JAN 8 1996

The Corporation of the
City of Burlington

City Hall:
426 Brant Street, Burlington, Ontario, Canada
Mailing Address:
P.O. Box 5013, Burlington, Ontario, Canada L7R 3Z6

Telephone: 333-6143
Fax No.: 333-5866

January 4, 1996

Mr. Michael Skora
Finance Analyst - Utilities
Region of Halton
Box 7000
Oakville, Ontario
L6J 6E1

Dear Mr. Skora:

Re: Bayview Park Landfill Site
Leachate Discharge Fees -
Regional Sanitary System
File: 760-4-1

During the period December 1, 1995 to December 29, 1995 inclusive, the leachate discharge flow from the closed Bayview Park Landfill Site to the Regional Sanitary Sewer were as follows. Please note that this is the last read out done by the City of Burlington.

Location	Pump	Pump Hours	Rate (m^3 Hr.)	Total Flow
Station 2	1	79.9	12.560	1,003.54
Station 2	2	98.5	12.560	1,237.16
Station 3	1	115.4	8.025	926.08
Station 3	2	115.6	8.025	927.65
Collection (M.H. 14)		-	-	12.04
TOTAL				4,106.47

Estimates of flow volumes for the collector located at manhole 14 are based upon an average daily flow of 0.43 cubic metres.

Please direct all invoicing for discharge fees and correspondence to my attention.

Yours truly,

E. Verticchio,
Supervisor of Client Services
& Contract Administration

EV/lk
c.c. - R. Young
- G. Ferraro, P. Eng., Conestoga-Rovers
- R. Calderbank

APPENDIX F

LEACHATE SEEP INSPECTION SUMMARY REPORTS

1354
FIELD FILE

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS 1

PROJECT NO.: 1354-30

INSPECTOR: WALLED

DATE: 01/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☑ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☑ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS 2 PROJECT NO.: 1354-30

INSPECTOR: [illegible] DATE: 01/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain ☑ Snow ☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry ☐ Moist ☐ Wet ☐ Ponded Water	
VEGETATION STRESS	☐ Yes ☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes ☑ No	
PHOTOGRAPH TAKEN	☐ Yes ☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes ☐ No ☑ Not Applicable	
ACTION REQUIRED	☐ Yes ☑ No	
SAMPLE COLLECTED	☐ Yes ☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS3 PROJECT NO.: 1354-30

INSPECTOR: WALLEN DATE: 01/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☑ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☑ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS4

PROJECT NO.: 1357-30

INSPECTOR: WALLED

DATE: 01/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain ☑ Snow ☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry ☐ Moist ☐ Wet ☐ Ponded Water	
VEGETATION STRESS	☐ Yes ☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes ☑ No	
PHOTOGRAPH TAKEN	☐ Yes ☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes ☐ No ☑ Not Applicable	
ACTION REQUIRED	☐ Yes ☑ No	
SAMPLE COLLECTED	☐ Yes ☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LSS

PROJECT NO.: 1354-30

INSPECTOR: [illegible]

DATE: 01/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☑ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☑ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS6 PROJECT NO.: 1357-30

INSPECTOR: WALLED DATE: 01/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain ☑ Snow ☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry ☐ Moist ☐ Wet ☐ Ponded Water	
VEGETATION STRESS	☐ Yes ☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes ☑ No	
PHOTOGRAPH TAKEN	☐ Yes ☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes ☐ No ☑ Not Applicable	
ACTION REQUIRED	☐ Yes ☑ No	
SAMPLE COLLECTED	☐ Yes ☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS7 PROJECT NO.: 1354-30

INSPECTOR: WALLEN DATE: 01/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☑ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☑ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: L58 PROJECT NO.: 1354-30

INSPECTOR: WALLEN DATE: 01/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain ☑ Snow ☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry ☐ Moist ☐ Wet ☐ Ponded Water	
VEGETATION STRESS	☐ Yes ☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes ☑ No	
PHOTOGRAPH TAKEN	☐ Yes ☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes ☐ No ☑ Not Applicable	
ACTION REQUIRED	☐ Yes ☑ No	
SAMPLE COLLECTED	☐ Yes ☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS 9 PROJECT NO.: 1354-30

INSPECTOR: [illegible] DATE: 01/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☑ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☑ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 1 PROJECT NO.: 1354

INSPECTOR: Dacan DATE: April 5, 1995

		COMMENTS
WEATHER CONDITION	☐ Rain	-1°C
	☒ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☐ Dry	
	☒ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☒ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☒ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☒ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☒ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☒ No	
SAMPLE COLLECTED	☐ Yes	
	☒ No	

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 2 PROJECT NO.: 1354

INSPECTOR: Dacon DATE: April 5, 1995

		COMMENTS
WEATHER CONDITION	☐ Rain	-1 °C
	☒ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☒ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☒ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☒ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☒ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☒ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☒ No	
SAMPLE COLLECTED	☐ Yes	
	☒ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 3 PROJECT NO.: 1354

INSPECTOR: Dawn DATE: April 5, 1995

		COMMENTS
WEATHER CONDITION	☐ Rain	-1°C
	☒ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☒ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☒ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☒ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☒ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☒ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☒ No	
SAMPLE COLLECTED	☐ Yes	
	☒ No	

6842

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 4 PROJECT NO.: B54

INSPECTOR: Dacm DATE: April 5, 1995

		COMMENTS
WEATHER CONDITION	☐ Rain	-1°C
	☒ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☒ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☒ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☒ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☒ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☒ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☒ No	
SAMPLE COLLECTED	☐ Yes	
	☒ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 5 PROJECT NO.: 1354

INSPECTOR: Dave DATE: April 5, 1995

		COMMENTS
WEATHER CONDITION	☐ Rain	-1°C
	☒ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☒ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☒ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☒ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☒ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☒ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☒ No	
SAMPLE COLLECTED	☐ Yes	
	☒ No	

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 6 PROJECT NO.: 1354

INSPECTOR: Dawn DATE: April 5, 1995

		COMMENTS
WEATHER CONDITION	☐ Rain	-1°C
	☒ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☒ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☒ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☒ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☒ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☒ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☒ No	
SAMPLE COLLECTED	☐ Yes	
	☒ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 7 PROJECT NO.: 1351

INSPECTOR: Dacm DATE: April 5, 1995

		COMMENTS
WEATHER CONDITION	☐ Rain	-1°C
	☒ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☒ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☒ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☒ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☒ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☒ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☒ No	
SAMPLE COLLECTED	☐ Yes	
	☒ No	

6812

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 8

PROJECT NO.: 1354

INSPECTOR: Dave

DATE: April 5, 1995

		COMMENTS
WEATHER CONDITION	☐ Rain	-1°C
	☒ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☒ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☒ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☒ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☒ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☒ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☒ No	
SAMPLE COLLECTED	☐ Yes	
	☒ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 9 PROJECT NO.: 1B54

INSPECTOR: Dacon DATE: April 5, 1995

		COMMENTS
WEATHER CONDITION	☐ Rain	-1°C
	☒ Snow	
	☐ Sunny	
CONDITION OF COVER/ SOIL MATERIAL	☒ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☒ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☒ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☒ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☒ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☒ No	
SAMPLE COLLECTED	☐ Yes	
	☒ No	

6842 (1)

1354

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 1 PROJECT NO.: 1354

INSPECTOR: Dfam DATE: 07/1/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	± 25° C
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☑ Yes	Soil Was Moist Last Eve.
	☐ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☑ No	
	☐ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 2 PROJECT NO.: 1354

INSPECTOR: Dave DATE: 07/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	+25°C
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☑ No	
	☐ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 3 PROJECT NO.: 1354

INSPECTOR: Daum DATE: 07/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	+25°C
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☑ No	
	☐ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 4 PROJECT NO.: 1354

INSPECTOR: Dawn DATE: 07/19/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	+25°C
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☑ No	
	☐ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 5 PROJECT NO.: 1354

INSPECTOR: Dave DATE: 071195

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	~25°C
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☑ No	
	☐ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 6 PROJECT NO.: 1354

INSPECTOR: Dan DATE: 07/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	+25°C
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☑ No	
	☐ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 7 PROJECT NO.: 1354

INSPECTOR: Dawn DATE: 07/11/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	+25°C
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☑ No	
	☐ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 8 PROJECT NO.: 1354

INSPECTOR: Daum DATE: 071195

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	+25°C
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☑ No	
	☐ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: 9 PROJECT NO.: 135-4

INSPECTOR: Dawn DATE: 07/1/85

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	+25°C
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☑ No	
	☐ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

1354
FIELD FILE

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS 1

PROJECT NO.: 1354-30

INSPECTOR: Darin

DATE: 10/19/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	+ 10°C Cloudy
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☑ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS2 PROJECT NO.: 1354-30

INSPECTOR: Dawn DATE: 10/19/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	770°C Cloudy
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☑ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS3 PROJECT NO.: 1354-30

INSPECTOR: Dawn DATE: 10/19/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	11°C Cloudy
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☑ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☐ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS 4 PROJECT NO.: 1384-30

INSPECTOR: Dave DATE: 10/19/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	+10°C Cloudy
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☑ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: L55 PROJECT NO.: 1354-30

INSPECTOR: Dawn DATE: 10/19/95

		COMMENTS
WEATHER CONDITION	☐ Rain ☐ Snow ☑ Sunny	T10°C Cloudy
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry ☐ Moist ☐ Wet ☐ Ponded Water	
VEGETATION STRESS	☐ Yes ☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes ☑ No	
PHOTOGRAPH TAKEN	☐ Yes ☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes ☐ No ☑ Not Applicable	
ACTION REQUIRED	☐ Yes ☑ No	
SAMPLE COLLECTED	☐ Yes ☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS6 PROJECT NO.: 1854-30

INSPECTOR: Darcy DATE: 10/19/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	~10°C cloudy
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☑ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS7 PROJECT NO.: 1354-3C

INSPECTOR: Doug DATE: 10/19/95

		COMMENTS
WEATHER CONDITION	☐ Rain ☐ Snow ☑ Sunny	+10°C Cloudy
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry ☐ Moist ☐ Wet ☐ Ponded Water	
VEGETATION STRESS	☐ Yes ☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes ☑ No	
PHOTOGRAPH TAKEN	☐ Yes ☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes ☐ No ☑ Not Applicable	
ACTION REQUIRED	☐ Yes ☑ No	
SAMPLE COLLECTED	☐ Yes ☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS 8 PROJECT NO.: 1354-3

INSPECTOR: Drum DATE: 10/19/95

		COMMENTS
WEATHER CONDITION	☐ Rain	
	☐ Snow	
	☑ Sunny	7/0°C Cloudy
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry	
	☐ Moist	
	☐ Wet	
	☐ Ponded Water	
VEGETATION STRESS	☐ Yes	
	☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes	
	☑ No	
PHOTOGRAPH TAKEN	☐ Yes	
	☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes	
	☐ No	
	☑ Not Applicable	
ACTION REQUIRED	☐ Yes	
	☑ No	
SAMPLE COLLECTED	☐ Yes	
	☑ No	

6842 (1)

LEACHATE SEEP INSPECTION

LEACHATE SEEP NO.: LS 9

PROJECT NO.: 1354-30

INSPECTOR: Darcy

DATE: 10/17/95

		COMMENTS
WEATHER CONDITION	☐ Rain ☐ Snow ☑ Sunny	T10°C Cloudy
CONDITION OF COVER/ SOIL MATERIAL	☑ Dry ☐ Moist ☐ Wet ☐ Ponded Water	
VEGETATION STRESS	☐ Yes ☑ No	
CHANGE FROM PREVIOUS INSPECTION	☐ Yes ☑ No	
PHOTOGRAPH TAKEN	☐ Yes ☑ No	
PROJECT MANAGER NOTIFIED	☐ Yes ☐ No ☑ Not Applicable	
ACTION REQUIRED	☐ Yes ☑ No	
SAMPLE COLLECTED	☐ Yes ☑ No	

6842 (1)

APPENDIX G

DATA BASE

APPENDIX G-1

SURFACE WATER

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW1-87							
Sample Date:			03/26/86	05/28/86	08/14/86	11/03/86	03/19/87	05/04/87	05/12/88	11/16/89
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	351	580	786	367	338	362	322	133
AMMONIA NITROGEN	mg/l	--	4.20	14.50	35.00	5.03	0.04	0.03	ND(0.02)	ND(0.02)
CHLORIDE	mg/l	--	--	220	497	54	12	8.95	14.0	20.0 J
CONDUCTIVITY	umhos/cm	--	--	1386	2900	581	840	810	650	380
DOC	mg/l	--	39.0	25.0	38.0	12.0	3.0	2.0	--	--
HARDNESS	mg/l	--	535	845	962	518	434	493	--	--
KJELDAHL NITROGEN	mg/l	--	4.60	15.20	41.00	3.60	0.44	0.29	0.07	0.36 J
NITRATE	mg/l	--	2.40	1.31	70.00	ND(0.01)	0.07	0.02	--	--
NITRITE	mg/l	--	0.010	0.166	0.480	0.004	0.017	0.003	--	--
PH		6.5-8.5	--	8.10	7.42	7.95	6.35	6.48	7.53	7.56
SULFATE	mg/l	--	128	145	195	130	140	125	112	22.4 J
TOTAL PHENOLS	ug/l	--	ND(2.0)	ND(2.0)	19.0	ND(2.0)	ND(2.0)	ND(2.0)	5	ND(1)
Metals										
IRON	mg/l	--	0.70	0.05	0.13	0.10	ND(0.02)	0.04	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	58	6	930	400	ND(1)	ND(1)	500	440
FAECAL STREPTOCOCCI	/100ml	--	4	600	4,900	1,100	10	60	82	1440
TOTAL COLIFORMS	/100ml	--	2100	27000	800,000	11,000	1100	210	1300	740

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW1-87							
Sample Date:			04/10/90	04/10/91	04/27/92	07/20/92	04/07/93	04/20/94	07/07/94	04/05/95
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	267	219	192	342	268	275	137	278
AMMONIA NITROGEN	mg/l	--	ND(0.03)	ND(0.03)	0.06	0.03	0.09	0.19	0.01	0.14
CHLORIDE	mg/l	--	7.0	14.4	18.1	17.4	24.9	7.10	7.27	8.61
CONDUCTIVITY	umhos/cm	--	586	453	377	1500	450	600	400	500
DOC	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	ND(0.06)	ND(0.06)	0.15	0.42	0.23	0.47	1.21	0.60
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.90	7.5	7.70	8.05	8.38	8.3	7.9	7.8
SULFATE	mg/l	--	130	51.1	64.7	91.9	70.2	70.7	76.3	98.8
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)
Metals										
IRON	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	75
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	1600	ND(10)
FAECAL COLIFORM	/100ml	--	10	90	6 (a)	ND(1)	ND(1) (a)	31	1600	ND(10)
FAECAL STREPTOCOCCI	/100ml	--	43	384	37 (a)	320	ND(1) (a)	22	1600	10
TOTAL COLIFORMS	/100ml	--	144	180	6 (a)	14	ND(1) (a)	140	1600	20

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW1-87	SW2-87				SW3-87		
Sample Date:			11/07/95	03/26/86	05/28/86	08/14/86	11/03/86	03/26/86	05/28/86	08/14/86
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	204 J	1560	2080	1710	1570	965	866	1770
AMMONIA NITROGEN	mg/l	--	ND(0.01)	81.00	138.00	180.00	221.00	50.00	105.00	170.00
CHLORIDE	mg/l	--	24.6	--	849	797	660	--	841	471
CONDUCTIVITY	umhos/cm	--	600	--	4200	4800	2340	--	3920	6000
DOC	mg/l	--	--	80.0	110.0	68.0	70.0	27.0	90.0	70.0
HARDNESS	mg/l	--	--	1160	1320	890	1120	1070	1220	1170
KJELDAHL NITROGEN	mg/l	--	1.02	137.00	150.00	183.00	148.00	51.00	108.00	174.00
NITRATE	mg/l	--	--	0.02	ND(0.01)	0.88	ND(0.01)	1.60	1.04	0.68
NITRITE	mg/l	--	--	ND(0.002)	ND(0.002)	ND(0.002)	ND(0.002)	0.014	ND(0.002)	ND(0.002)
PH		6.5-8.5	8.0	--	6.94	6.77	6.79	--	7.58	7.48
SULFATE	mg/l	--	97.1	ND(5)	ND(5)	ND(5)	ND(5)	95	135	100
TOTAL PHENOLS	ug/l	--	ND(1)	ND(2.0)	17.9	24.3	ND(2.0)	ND(2.0)	ND(2.0)	21.1
Metals										
IRON	mg/l	--	--	53.00	11.30	6.60	13.00	3.10	0.15	0.65
Biological Testing										
BACKGROUND CFU	/100ml	--	>20000 J	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	960 J	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	960 J	4	ND(1)	ND(1)	ND(1)	2	ND(1)	50
FAECAL STREPTOCOCCI	/100ml	--	1400 J	ND(1)	24	ND(1)	60	2	52	610
TOTAL COLIFORMS	/100ml	--	1100 J	300	20	16000	29000	3600	7000	600000

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW3-87	SW4-87						SW5-87
Sample Date:			11/03/86	03/26/86	05/28/86	08/14/86	11/03/86	04/07/93	11/07/95	03/26/86
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	–	1220	1800	1830	1890	1580	240	130 J	397
AMMONIA NITROGEN	mg/l	–	160.00	98.00	83.00	170.00	174.00	0.12	ND(0.01)	0.63
CHLORIDE	mg/l	–	596	–	834	769	485	35.1	50.6	–
CONDUCTIVITY	umhos/cm	–	2100	–	4420	5150	2100	490	400	–
DOC	mg/l	–	35.0	40.0	75.0	46.0	65.0	–	–	7.5
HARDNESS	mg/l	–	989	1540	1420	1140	1280	–	–	550
KJELDAHL NITROGEN	mg/l	–	77.00	129.00	130.00	179.00	101.00	0.32	0.59	1.45
NITRATE	mg/l	–	ND(0.01)	0.07	0.92	1.66	ND(0.01)	–	–	0.52
NITRITE	mg/l	–	ND(0.002)	0.004	ND(0.002)	0.002	ND(0.002)	–	–	0.012
PH		6.5-8.5	7.44	–	7.50	7.26	7.11	7.92	8.2	–
SULFATE	mg/l	–	125	ND(5)	ND(5)	65	ND(5)	85.1	29.7	110
TOTAL PHENOLS	ug/l	–	ND(2.0)	ND(2.0)	ND(2.0)	35.2	ND(2.0)	ND(1.0)	ND(1)	11.5
Metals										
IRON	mg/l	–	0.17	2.1	0.71	0.25	0.14	–	–	1.35
Biological Testing										
BACKGROUND CFU	/100ml	–	–	–	–	–	–	–	>2000 J	–
ESCHERICHIA COLI	/100ml	–	–	–	–	–	–	–	60.0 J	–
FAECAL COLIFORM	/100ml	–	ND(1)	ND(1)	ND(1)	90	70	ND(1) (a)	60.0 J	14
FAECAL STREPTOCOCCI	/100ml	–	490	2	110	1200	60	ND(1) (a)	1100 J	8
TOTAL COLIFORMS	/100ml	–	15000	42000	2100	180000	5500	ND(1) (a)	80.0 J	4700

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW5-87							
Sample Date:			05/28/86	08/14/86	11/03/86	03/19/87	05/12/88	08/16/88	11/16/89	04/10/90
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	677	657	428	566	637	448	135	371
AMMONIA NITROGEN	mg/l	--	1.25	0.64	1.81	0.99	ND(0.02)	ND(0.02)	ND(0.02)	0.52
CHLORIDE	mg/l	--	242	228	90	157	560	130	32.0 J	249
CONDUCTIVITY	umhos/cm	--	1670	1880	668	1585	2050	1245	495	1378
DOC	mg/l	--	14.0	12.5	5.0	8.0	--	--	--	--
HARDNESS	mg/l	--	840	688	610	664	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	1.64	1.05	0.97	1.69	0.70	0.40	0.37 J	0.65
NITRATE	mg/l	--	0.40	0.76	ND(0.01)	0.43	--	--	--	--
NITRITE	mg/l	--	0.130	0.030	0.016	0.030	--	--	--	--
PH		6.5-8.5	7.63	7.11	7.45	6.38	7.30	7.35	7.53	7.52
SULFATE	mg/l	--	100	80	125	110	93.8	87.8	103 J	134
TOTAL PHENOLS	ug/l	--	17.9	12.1	ND(2.0)	24.6	7	ND(1)	ND(1)	ND(1)
Metals										
IRON	mg/l	--	0.11	0.14	0.03	ND(0.02)	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	14	98	60	ND(1)	60	1300	512	4
FAECAL STREPTOCOCCI	/100ml	--	180	340	90	10	ND(1)	370	1440	128
TOTAL COLIFORMS	/100ml	--	2200	83000	500	830	440	3900	980	20

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW5-87							
Sample Date:			04/10/91	04/27/92	07/20/92	04/07/93	04/20/94	07/07/94	04/05/95	11/07/95
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	223	204	568	340	439	300	278	258 J
AMMONIA NITROGEN	mg/l	--	ND(0.03)	ND(0.03)	0.03	0.14	ND(0.01)	0.03	ND(0.01)	ND(0.01)
CHLORIDE	mg/l	--	120	84.3	301	168	178	313	335	132
CONDUCTIVITY	umhos/cm	--	716	593	3300	865	1500	1500	1500	1000
DOC	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	ND(0.06)	ND(0.06)	0.95	0.17	ND(0.10)	1.64	0.88	0.88
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.5	7.52	7.66	8.05	7.6	7.9	7.7	7.9
SULFATE	mg/l	--	451	106	108	90.3	114	72.4	92.7	82.0
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
Metals										
IRON	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	280	>20000 J
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	540	ND(10)	100 J
FAECAL COLIFORM	/100ml	--	400	--	10	ND(1) (a)	2	1600	ND(10)	100 J
FAECAL STREPTOCOCCI	/100ml	--	102	--	240	ND(1) (a)	22	1600	20	1000 J
TOTAL COLIFORMS	/100ml	--	580	--	ND(1)	ND(1) (a)	11	1600	ND(10)	300 J

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW6-87							
Sample Date:			03/26/86	05/28/86	11/03/86	03/19/87	05/04/87	05/12/88	08/16/88	11/16/89
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	255	358	357	318	367	364	230	156
AMMONIA NITROGEN	mg/l	--	0.47	0.10	1.40	0.04	0.02	ND(0.02)	ND(0.02)	ND(0.02)
CHLORIDE	mg/l	--	--	73	46	28	32.8	34.0	22.7	15.0 J
CONDUCTIVITY	umhos/cm	--	--	933	510	800	870	840	680	470
DOC	mg/l	--	7.0	11.0	5.0	3.0	6.0	--	--	--
HARDNESS	mg/l	--	425	540	532	412	461	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.79	0.71	0.55	0.45	0.53	ND(0.02)	0.48	0.42 J
NITRATE	mg/l	--	0.48	1.10	ND(0.01)	0.10	ND(0.01)	--	--	--
NITRITE	mg/l	--	0.016	0.010	0.003	0.007	0.001	--	--	--
PH		6.5-8.5	--	8.15	8.17	6.42	6.41	7.04	7.05	7.55
SULFATE	mg/l	--	118	105	150	145	134	163	67.1	89.4 J
TOTAL PHENOLS	ug/l	--	30.2	79.3	ND(2.0)	4.24	ND(2.0)	1	0.014	ND(1)
Metals										
IRON	mg/l	--	0.30	0.02	ND(0.02)	ND(0.02)	0.06	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	18	1700	790	ND(1)	ND(1)	290	2000	940
FAECAL STREPTOCOCCI	/100ml	--	12	1400	1600	10	270	400	590	720
TOTAL COLIFORMS	/100ml	--	940	33000	1600	1400	1600	5700	18000	1260

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW6-87							
Sample Date:			04/10/90	04/10/91	04/27/92	07/20/92	07/20/92 Dupl.	04/07/93	07/02/93	04/20/94
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	273	218	210	334	334	259	304	292
AMMONIA NITROGEN	mg/l	--	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	0.14 J
CHLORIDE	mg/l	--	17.0	12.4	12.7	30.3	34.7	16.2	18.6	20.6
CONDUCTIVITY	umhos/cm	--	637	475	418	1730	1730	460	--	700
DOC	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	ND(0.06)	ND(0.06)	0.14	0.23	0.19	0.42	0.52	0.35 J
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.95	7.5	7.94	8.06	8.06	8.06	--	8.2
SULFATE	mg/l	--	142	82.2	79.7	122	122	62.6	102	87.1
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)
Metals										
IRON	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	140	110	--	ND(1)	ND(1)	ND(1) (a)	290	17
FAECAL STREPTOCOCCI	/100ml	--	91	184	--	250	200	ND(1) (a)	250	13
TOTAL COLIFORMS	/100ml	--	336	180	--	2	ND(1)	8 (a)	1000	280

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW6-87			SW7-87				
Sample Date:			04/20/94 Dupl.	04/05/95	11/07/95	03/26/86	05/28/86	08/14/86	11/03/86	03/19/87
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	288	288	251 J	573	582	637	632	414
AMMONIA NITROGEN	mg/l	--	ND(0.01) UJ	0.02	ND(0.01)	20.00	0.10	0.05	9.13	0.04
CHLORIDE	mg/l	--	23.3	30.7	27.4	--	537	646	475	1192
CONDUCTIVITY	umhos/cm	--	700	600	700	--	2260	3060	1150	1525
DOC	mg/l	--	--	--	--	22.0	32.0	12.0	15.0	7.5
HARDNESS	mg/l	--	--	--	--	703	800	736	851	540
KJELDAHL NITROGEN	mg/l	--	ND(0.10) UJ	0.33	0.34	23.00	1.64	192.00	0.19	0.83
NITRATE	mg/l	--	--	--	--	3.00	14.00	77.00	ND(0.01)	1.20
NITRITE	mg/l	--	--	--	--	0.062	0.020	0.192	0.200	0.011
PH		6.5-8.5	8.2	7.8	7.9	--	8.26	8.28	7.97	7.03
SULFATE	mg/l	--	95.1	136	133	93	90	10	120	130
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1)	ND(2.0)	2.4	10.4	ND(2.0)	15.1
Metals										
IRON	mg/l	--	--	--	--	0.75	0.04	0.06	0.03	ND(0.02)
Biological Testing										
BACKGROUND CFU	/100ml	--	--	280	>2000 J	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	2	550 J	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	33	2	550 J	66	60	380	170	ND(1)
FAECAL STREPTOCOCCI	/100ml	--	17	8	1000 J	2	1000	4600	820	120
TOTAL COLIFORMS	/100ml	--	920	25	740 J	2900	6200	520000	1000	700

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW7-87							
Sample Date:			05/04/87	11/10/87	05/12/88	08/16/88	11/16/89	04/10/90	04/10/91	04/27/92
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	447	410	412	380	281	348	282	324
AMMONIA NITROGEN	mg/l	--	0.02	0.11	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.03)	ND(0.03)	ND(0.03)
CHLORIDE	mg/l	--	183	--	200	293	266 J	117	83.7	118
CONDUCTIVITY	umhos/cm	--	1545	2120	1400	20100	1573	1060	725	710
DOC	mg/l	--	8.0	13.0	--	--	--	--	--	--
HARDNESS	mg/l	--	548	788	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.68	0.19	0.18	0.77	0.62 J	ND(0.06)	ND(0.06)	0.20
NITRATE	mg/l	--	0.16	ND(1.0)	--	--	--	--	--	--
NITRITE	mg/l	--	0.011	ND(0.001)	--	--	--	--	--	--
PH		6.5-8.5	6.89	7.67	6.80	7.45	7.69	7.95	7.5	7.98
SULFATE	mg/l	--	120	300	202	367	400 J	176	86.2	115
TOTAL PHENOLS	ug/l	--	ND(2.0)	8.6	4	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Metals										
IRON	mg/l	--	0.02	0.04	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	10	ND(1)	12	1600	246	8	104	14 (a)
FAECAL STREPTOCOCCI	/100ml	--	140	58	120	400	330	11	292	34 (a)
TOTAL COLIFORMS	/100ml	--	900	480	900	6800	820	100	150	16 (a)

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW7-87							
Sample Date:			07/20/92	04/07/93	07/02/93	04/20/94	07/07/94	07/07/94 Dupl.	04/05/95	11/07/95
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	414	341	412	324	294	272	307	303 J
AMMONIA NITROGEN	mg/l	--	0.03	0.90	ND(0.03)	0.10	0.01	0.01	ND(0.01)	ND(0.01)
CHLORIDE	mg/l	--	166	296	93.2	72.2	78.9	72.6	138	186
CONDUCTIVITY	umhos/cm	--	2800	670	--	800	800	800	900	1300
DOC	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.32	1.06	0.90	0.38	1.58	1.04	0.54	0.52
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.92	8.35	--	8.5	7.5	7.5	7.9	7.6
SULFATE	mg/l	--	161	307	80.9	84.9	62.4	59.4	153	216
TOTAL PHENOLS	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Metals										
IRON	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	220	>2000 J
ESCHERICHIA COLI	/100ml	--	--	--	--	--	1600	1600	1	120 J
FAECAL COLIFORM	/100ml	--	ND(1)	ND(1) (a)	2800	ND(1.8)	1600	1600	1	120 J
FAECAL STREPTOCOCCI	/100ml	--	500	ND(1) (a)	290	4	1600	1600	11	150 J
TOTAL COLIFORMS	/100ml	--	ND(1)	48 (a)	13000	33	1600	1600	6	120 J

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW8-87							
Sample Date:			03/26/86	05/28/86	08/14/86	11/03/86	03/19/87	05/04/87	11/10/87	05/12/88
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	225	358	488	342	283	342	350	336
AMMONIA NITROGEN	mg/l	--	0.04	0.17	0.06	0.32	0.09	0.01	0.09	ND(0.02)
CHLORIDE	mg/l	--	--	48	171	39	30	31.8	--	40.0
CONDUCTIVITY	umhos/cm	--	--	776	1590	374	815	820	1040	730
DOC	mg/l	--	9.5	6.0	5.0	5.0	3.0	5.0	5.5	--
HARDNESS	mg/l	--	343	490	1030	486	358	416	538	--
KJELDAHL NITROGEN	mg/l	--	0.51	1.04	0.78	0.40	0.61	0.25	0.15	ND(0.02)
NITRATE	mg/l	--	0.29	0.25	0.09	ND(0.01)	0.50	0.01	ND(1.0)	--
NITRITE	mg/l	--	0.008	0.020	0.005	0.004	0.053	0.002	ND(0.001)	--
PH		6.5-8.5	--	8.16	7.10	7.91	6.38	6.26	7.31	7.52
SULFATE	mg/l	--	72	54	137	90	85	85	170	62.7
TOTAL PHENOLS	ug/l	--	ND(2.0)	106.0	65.2	ND(2.0)	ND(2.0)	ND(2.0)	16.5	ND(1)
Metals										
IRON	mg/l	--	0.75	0.02	0.48	ND(0.02)	--	0.02	0.04	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	12	50	3500	550	ND(1)	ND(1)	ND(1)	34
FAECAL STREPTOCOCCI	/100ml	--	2	280	3600	390	60	30	10	220
TOTAL COLIFORMS	/100ml	--	2900	6300	400000	2100	1300	110	620	370

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW8-87							
Sample Date:			08/16/88	11/16/89	04/10/90	04/10/91	04/27/92	07/20/92	04/07/93	07/02/93
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	382	154	253	190	201	400	233	331
AMMONIA NITROGEN	mg/l	--	ND(0.02)	ND(0.02)	ND(0.03)	ND(0.03)	ND(0.03)	0.03	0.08	ND(0.03)
CHLORIDE	mg/l	--	37.8	41.0 J	28.5	30.3	43.3	41.4	31.8	24.4
CONDUCTIVITY	umhos/cm	--	1094	485	566	443	438	1800	420	--
DOC	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	6.29	0.44 J	ND(0.06)	ND(0.06)	0.14	0.10	0.58	1.20
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.34	7.30	7.75	7.5	7.80	7.52	7.92	--
SULFATE	mg/l	--	226	57.2 J	48	29.9	50.3	66.4	51.9	58.0
TOTAL PHENOLS	ug/l	--	7	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)
Metals										
IRON	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	5000	680	124	56	2 (a)	ND(1)	ND(1) (a)	1500
FAECAL STREPTOCOCCI	/100ml	--	1400	1080	15	152	10 (a)	320	ND(1) (a)	1300
TOTAL COLIFORMS	/100ml	--	120000	740	152	144	2 (a)	ND(1)	8 (a)	4500

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW8-87					SW9-87		
Sample Date:			04/20/94	07/07/94	04/05/95	04/05/95 Dupl.	11/07/95	03/26/86	05/28/86	11/03/86
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	269	342	222	289	278 J	260	358	260
AMMONIA NITROGEN	mg/l	--	0.15	0.01	0.02 J	1.38 J	ND(0.01)	0.03	0.10	0.10
CHLORIDE	mg/l	--	38.4	49.5	49.9	63.7	50.8	--	12	5
CONDUCTIVITY	umhos/cm	--	600	800	--	600	800	--	782	396
DOC	mg/l	--	--	--	--	--	--	4.0	5.0	4.5
HARDNESS	mg/l	--	--	--	--	--	--	435	465	385
KJELDAHL NITROGEN	mg/l	--	0.24	1.42	0.51 J	1.46 J	0.18	0.39	0.43	0.21
NITRATE	mg/l	--	--	--	--	--	--	0.30	0.02	ND(0.01)
NITRITE	mg/l	--	--	--	--	--	--	0.004	ND(0.002)	ND(0.002)
PH		6.5-8.5	8.4	7.5	--	7.7	7.6	--	7.81	7.55
SULFATE	mg/l	--	54.6	44.2	79.0	93.2	82.0	138	125	145
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	24.4	ND(2.0)	ND(2.0)
Metals										
IRON	mg/l	--	--	--	--	--	--	0.25	0.01	0.08
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	900	590	>2000 J	--	--	--
ESCHERICHIA COLI	/100ml	--	--	1600	ND(10)	ND(10)	210 J	--	--	--
FAECAL COLIFORM	/100ml	--	540	1600	ND(10)	ND(10)	210 J	18	330	490
FAECAL STREPTOCOCCI	/100ml	--	1.8	1600	ND(10)	ND(10)	720 J	ND(1)	260	560
TOTAL COLIFORMS	/100ml	--	920	1600	30	60	280 J	320	2800	2800

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW9-87							
Sample Date:			03/19/87	05/04/87	05/12/88	11/16/89	11/16/89 Dupl.	04/10/90	04/10/91	04/27/92
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	374	427	357	54.1	52.0	328	161	116
AMMONIA NITROGEN	mg/l	--	0.01	0.02	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.03)	ND(0.03)	ND(0.03)
CHLORIDE	mg/l	--	8	8.46	8.0	1.0 J	2.0	5.0	9.34	1.68
CONDUCTIVITY	umhos/cm	--	900	910	820	222	--	685	363	263
DOC	mg/l	--	2.0	4.5	--	--	--	--	--	--
HARDNESS	mg/l	--	464	509	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.29	0.2	ND(0.02)	1.18 J	0.59	ND(0.06)	ND(0.06)	ND(0.06)
NITRATE	mg/l	--	0.29	0.02	--	--	--	--	--	--
NITRITE	mg/l	--	0.001	0.001	--	--	--	--	--	--
PH		6.5-8.5	6.48	6.53	7.27	7.00	--	7.39	7.5	7.31
SULFATE	mg/l	--	150	141	199	13.0 J	ND(1.0)	172	58.0	71.8
TOTAL PHENOLS	ug/l	--	11.2	3.17	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Metals										
IRON	mg/l	--	ND(0.02)	0.02	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	ND(1)	ND(1)	24	282	400	720	52	2 (a)
FAECAL STREPTOCOCCI	/100ml	--	ND(1)	ND(1)	20	470	1010	120	180	4 (a)
TOTAL COLIFORMS	/100ml	--	280	200	500	580	960	1600	96	2 (a)

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW9-87				SW9A-93		SW10-87	
Sample Date:			04/07/93	04/20/94	07/07/94	04/05/95	04/07/93	07/07/94	03/26/86	05/28/86
Parameters	Units	MOE Obj.								
General Chemistry										
ALKALINITY	mg/l	--	258	310	384	337	239	263	245	298
AMMONIA NITROGEN	mg/l	--	ND(0.03)	0.16	0.08	0.02	ND(0.03)	0.04	0.03	0.10
CHLORIDE	mg/l	--	5.02	8.40	8.10	8.10	6.81	6.07	--	42
CONDUCTIVITY	umhos/cm	--	460	700	600	600	360	500	--	693
DOC	mg/l	--	--	--	--	--	--	--	3.5	5.0
HARDNESS	mg/l	--	--	--	--	--	--	--	370	437
KJELDAHL NITROGEN	mg/l	--	0.16	0.32	0.62	0.96	0.96	1.30	0.25	0.44
NITRATE	mg/l	--	--	--	--	--	--	--	0.12	0.04
NITRITE	mg/l	--	--	--	--	--	--	--	0.004	0.002
PH		6.5-8.5	7.99	7.7	7.5	7.6	8.29	7.8	--	8.39
SULFATE	mg/l	--	95.1	123	130	162	59.1	74.5	100	88
TOTAL PHENOLS	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	36.8	190.0
Metals										
IRON	mg/l	--	--	--	--	--	--	--	0.30	0.01
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	420	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	540	ND(10)	--	1600	--	--
FAECAL COLIFORM	/100ml	--	ND(1) (a)	ND(1.8)	920	ND(10)	ND(1) (a)	1600	16	2000
FAECAL STREPTOCOCCI	/100ml	--	ND(1) (a)	7.8	1600	100	ND(1) (a)	1600	2	150
TOTAL COLIFORMS	/100ml	--	24 (a)	21	1600	30	38 (a)	1600	430	4000

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW10-87							
Sample Date:			08/14/86	11/03/86	03/19/87	05/04/87	05/04/87 Dupl.	08/17/87	08/17/87 Dupl.	11/10/87
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	259	331	318	317	327	--	--	350
AMMONIA NITROGEN	mg/l	--	0.05	1.20	0.01	ND(0.01)	ND(0.01)	0.15	0.09	0.14
CHLORIDE	mg/l	--	107	42	30	46.7	47.7	--	--	--
CONDUCTIVITY	umhos/cm	--	971	495	715	700	700	1065	1065	1400
DOC	mg/l	--	5.0	6.5	2.5	4.0	3.0	3.5	4.0	6.0
HARDNESS	mg/l	--	262	500	416	399	401	--	--	732
KJELDAHL NITROGEN	mg/l	--	0.39	0.49	0.27	0.17	0.16	0.22	0.12	0.22
NITRATE	mg/l	--	0.16	ND(0.01)	0.05	0.02	0.05	--	--	ND(1.0)
NITRITE	mg/l	--	0.003	ND(0.002)	0.004	ND(0.001)	ND(0.001)	--	--	ND(0.001)
PH		6.5-8.5	7.89	8.18	7.82	7.80	7.80	6.90	6.90	7.96
SULFATE	mg/l	--	195	58	115	94	93	--	--	250
TOTAL PHENOLS	ug/l	--	12.9	ND(2.0)	5.04	3.77	ND(2.0)	--	--	4.1
Metals										
IRON	mg/l	--	1.36	ND(0.02)	ND(0.02)	0.02	0.02	0.06	0.06	0.06
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	2500	270	ND(1)	10	ND(1)	3100	1800	ND(1)
FAECAL STREPTOCOCCI	/100ml	--	1300	1300	ND(1)	40	50	2300	2300	110
TOTAL COLIFORMS	/100ml	--	600000	4300	250	180	200	18000	14000	290

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW10-87							
Sample Date:			05/12/88	08/16/88	08/16/88 Dupl.	11/16/89	04/10/90	04/10/91	04/27/92	07/20/92
Parameters	Units	MOE Obj.								
General Chemistry										
ALKALINITY	mg/l	--	322	263	263	154	277	226	210	294
AMMONIA NITROGEN	mg/l	--	1.26	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.03)	ND(0.03)	ND(0.03)	0.03
CHLORIDE	mg/l	--	50.0	131	126	30.0 J	31.5	43.6	29.3	51.6
CONDUCTIVITY	umhos/cm	--	780	1110	1110	521	684	544	475	1680
DOC	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	ND(0.02)	ND(0.02)	ND(0.02)	0.50 J	ND(0.06)	0.09	0.24	0.26
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.99	7.68	7.68	7.70	8.06	7.5	8.04	7.95
SULFATE	mg/l	--	130	180	202	107 J	149	68.0	102	160
TOTAL PHENOLS	ug/l	--	ND(1)	37	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)
Metals										
IRON	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	420	160	1700	840	146	100	12 (a)	ND(1)
FAECAL STREPTOCOCCI	/100ml	--	58	380	440	1140	70	136	9 (a)	200
TOTAL COLIFORMS	/100ml	--	20	8300	6100	900	264	210	15 (a)	240

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW10-87							
Sample Date:			04/07/93	07/02/93	07/02/93 Dupl.	04/20/94	07/07/94	04/05/95	07/11/95	11/07/95
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	245	282	282	279	157	270	271	243 J
AMMONIA NITROGEN	mg/l	--	ND(0.03)	ND(0.03)	ND(0.03)	0.14	0.01	ND(0.01)	0.05 U	ND(0.01)
CHLORIDE	mg/l	--	19.1	62.5	63.0	27.8	41.0	61.2	194	104
CONDUCTIVITY	umhos/cm	--	425	--	--	700	600	700	1200	1100
DOC	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.49	0.52	0.48	0.35	1.34	0.33	0.34	0.71
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	8.24	--	--	8.3	8.1	7.5	8.2	7.9
SULFATE	mg/l	--	67.2	108	108	82.1	126	152	184	282
TOTAL PHENOLS	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	1	ND(1)
Metals										
IRON	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	250	19000	20000 J
ESCHERICHIA COLI	/100ml	--	--	--	--	--	1600	ND(1)	160	950 J
FAECAL COLIFORM	/100ml	--	ND(1) (a)	ND(2)	5	11	1600	ND(1)	160	950 J
FAECAL STREPTOCOCCI	/100ml	--	ND(1) (a)	290	240	9.2	1600	6	94	790 J
TOTAL COLIFORMS	/100ml	--	20 (a)	640	350	350	1600	22	290	1800 J

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW11-87							
Sample Date:			11/16/89	04/10/90	04/10/91	04/10/91 Dupl.	04/27/92	04/27/92 Dupl.	04/07/93	11/07/95
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	74.9	141	129	130	124	131	156	95.4 J
AMMONIA NITROGEN	mg/l	--	ND(0.02)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	0.04	ND(0.03)	ND(0.01)
CHLORIDE	mg/l	--	10.0 J	39.0	53.3 J	11.2 J	20.4	26.4	59.2	6.33
CONDUCTIVITY	umhos/cm	--	380	517	353	--	305	305	380	400
DOC	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.45 J	0.06	ND(0.06)	ND(0.06)	ND(0.06)	0.07	0.33	0.41
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	6.95	7.30	7.5	--	7.28	7.28	7.40	7.7
SULFATE	mg/l	--	115 J	116	62.4	63.0	80.9	82.7	46.4	144
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)
Metals										
IRON	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	940 J
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	690 J
FAECAL COLIFORM	/100ml	--	720	ND(4)	400 J	260 J	2 (a)	ND(1) (a)	ND(1) (a)	690 J
FAECAL STREPTOCOCCI	/100ml	--	910	6	124 J	328 J	9 (a)	14 (a)	22 (a)	890 J
TOTAL COLIFORMS	/100ml	--	1280	108	600 J	360 J	3 (a)	ND(1) (a)	50 (a)	1500 J

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW11-87	SW12-87						
Sample Date:			11/07/95	03/19/87	05/04/87	05/12/88	08/16/88	11/16/89	04/10/90	04/10/90
			Dupl.							Dupl.
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	95.4 J	328	719	336	115	125	257	267
AMMONIA NITROGEN	mg/l	--	ND(0.01)	0.06	0.95	ND(0.02)	ND(0.02)	ND(0.02)	0.04	ND(0.03)
CHLORIDE	mg/l	--	5.65	46	217	40.0	39.9	17.0 J	12.0	9.0
CONDUCTIVITY	umhos/cm	--	400	915	925	780	1265	562	550	550
DOC	mg/l	--	--	5.0	8.5	--	--	--	--	--
HARDNESS	mg/l	--	--	425	897	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.43	0.42	1.48	ND(0.02)	ND(0.02)	0.50 J	0.07	0.09
NITRATE	mg/l	--	--	0.01	0.56	--	--	--	--	--
NITRITE	mg/l	--	--	0.012	0.030	--	--	--	--	--
PH		6.5-8.5	7.7	6.20	6.28	7.65	7.55	7.65	8.05	8.05
SULFATE	mg/l	--	143	110	138	220	518	158 J	97	104
TOTAL PHENOLS	ug/l	--	ND(1)	8.29	ND(2.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
Metals										
IRON	mg/l	--	--	ND(0.02)	0.06	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	750 J	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	640 J	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	640 J	ND(1)	ND(1)	110	750	1520	120 J	24 J
FAECAL STREPTOCOCCI	/100ml	--	1000 J	ND(1)	ND(1)	170	390	1600	83	72
TOTAL COLIFORMS	/100ml	--	1600 J	6800	600	7100	3400	1460	200	140

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW12-87							
Sample Date:			04/10/91	04/27/92	07/20/92	04/07/93	07/02/93	04/20/94	07/07/94	04/05/95
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	214	221	363	224	345	272	213	261
AMMONIA NITROGEN	mg/l	--	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	0.09	ND(0.01)	1.22
CHLORIDE	mg/l	--	47.6	8.81	18.4	7.09	19.9	10.4	12.5	21.3
CONDUCTIVITY	umhos/cm	--	416	372	1400	315	--	500	500	500
DOC	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	ND(0.06)	ND(0.06)	0.06	0.28	0.67	0.36	0.99	1.31
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	8.0	7.74	8.08	8.49	--	8.3	8.3	7.9
SULFATE	mg/l	--	222	55.1	49.2	35.5	24.9	46.7	20.9	76.2
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)
Metals										
IRON	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	180
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	1600	4
FAECAL COLIFORM	/100ml	--	46	2 (a)	8	ND(1) (a)	82	13	1600	4
FAECAL STREPTOCOCCI	/100ml	--	72	8 (a)	250	ND(1) (a)	190	4.5	1600	7
TOTAL COLIFORMS	/100ml	--	124	11 (a)	250	2 (a)	550	33	1600	38

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW12-87	SW13-88						
Sample Date:			11/07/95	05/12/88	08/16/88	11/16/89	04/10/90	04/10/91	04/27/92	07/20/92
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	--	243 J	332	254	175	287	227	220	334
AMMONIA NITROGEN	mg/l	--	ND(0.01)	ND(0.02)	0.26	ND(0.02)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)
CHLORIDE	mg/l	--	47.5	130	353	64.0 J	82.0	75.2	61.4	170
CONDUCTIVITY	umhos/cm	--	600	1080	1723	646	870	596	538	3050
DOC	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.52	0.19	0.87	0.55 J	ND(0.06)	ND(0.06)	0.24	0.25
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	8.1	7.39	8.10	7.57	8.11	7.5	7.92	8.26
SULFATE	mg/l	--	110	202	164	105 J	172	67.7	85.8	151
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	1	ND(1)	ND(1)	ND(1.0)
Metals										
IRON	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	>2000 J	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	80.0 J	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	80.0 J	142	2100	520	168	80	2 (a)	ND(1)
FAECAL STREPTOCOCCI	/100ml	--	290 J	120	3400	960	62	224	25 (a)	400
TOTAL COLIFORMS	/100ml	--	200 J	900	24000	960	260	170	7 (a)	2

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW13-88						SW13-93	
Sample Date:			04/07/93	04/07/93 Dupl.	07/02/93	04/20/94	04/05/95	11/07/95	04/07/93	07/07/94
Parameters	Units	MOE Obj.								
General Chemistry										
ALKALINITY	mg/l	--	265	--	297	290	229	264 J	268	142
AMMONIA NITROGEN	mg/l	--	0.18	--	ND(0.03)	0.12	ND(0.01)	ND(0.01)	0.07	0.39
CHLORIDE	mg/l	--	56.5	--	176	91.3	127	177	22.4	7.72
CONDUCTIVITY	umhos/cm	--	560	--	--	1000	1200	1200	440	300
DOC	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.32	--	1.31	0.32	0.46	0.55	0.57	4.13
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	8.40	--	--	8.4	7.6	7.8	8.37	7.9
SULFATE	mg/l	--	86.2	--	144	99.4	152	182	58.9	42.3
TOTAL PHENOLS	ug/l	--	ND(1.0)	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)
Metals										
IRON	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	210	>20000 J	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	ND(1)	140 J	--	1600
FAECAL COLIFORM	/100ml	--	ND(1) (a)	ND(1) (a)	520	13	ND(1)	140 J	--	1600
FAECAL STREPTOCOCCI	/100ml	--	ND(1) (a)	2 (a)	360	17	6	570 J	--	1600
TOTAL COLIFORMS	/100ml	--	8 (a)	12 (a)	11000	920	9	300 J	--	1600

Bayview Landfill Site
Burlington, Ontario

Table B.1
General Chemistry, Metals, Biological Testing
Surface Water Analytical Results

Location:			SW14-93	SW15-93	SWFB2	SWFBLK
Sample Date:			04/07/93	04/07/93	04/20/94	07/07/94
Parameters	*Units*	*MOE Obj.*				
General Chemistry						
ALKALINITY	mg/l	--	370	194	--	--
AMMONIA NITROGEN	mg/l	--	2.57	ND(0.03)	--	--
CHLORIDE	mg/l	--	95.4	18.7	--	--
CONDUCTIVITY	umhos/cm	--	700	400	--	44
DOC	mg/l	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	2.80	1.68	--	--
NITRATE	mg/l	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--
PH		6.5-8.5	7.85	7.88	8.5	8.1
SULFATE	mg/l	--	86.7	39.5	--	--
TOTAL PHENOLS	ug/l	--	ND(1.0)	ND(1.0)	--	--
Metals						
IRON	mg/l	--	--	--	--	--
Biological Testing						
BACKGROUND CFU	/100ml	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	ND(1.8)
FAECAL COLIFORM	/100ml	--	ND(1) (a)	ND(1) (a)	ND(1.8)	ND(1.8)
FAECAL STREPTOCOCCI	/100ml	--	ND(1) (a)	ND(1) (a)	ND(1.8)	ND(1.8)
TOTAL COLIFORMS	/100ml	--	ND(1) (a)	2 (a)	ND(1.8)	ND(1.8)

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW1-87							
Sample Date:			05/28/86	05/04/87	05/12/88	04/10/90	04/10/91	04/10/91 Dupl.	04/19/91	04/27/92
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	--	ND(1.0)	--	--	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	--	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	ND(1.0)	--	--	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	--	ND(1.0)	--	--	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	ND(1.0)	--	--	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	ND(1.0)	--	--	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	ND(10)	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	ND(1)	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(1)	--	ND(0.5)	--	--	ND(0.5)
BROMOFORM	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	--	--	--	--	--
BROMOMETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(16)	--	--	--	--	--
CARBON TETRACHLORIDE	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	--	--	--	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(1)	--	ND(0.5)	--	--	ND(0.5)
CHLOROETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(10)	--	--	--	--	--
CHLOROFORM	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	--	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	ND(2.0)	ND(2.0)	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	2.4	--	ND(1)	--	ND(0.5)	--	--	ND(0.5)
M&P-XYLENE	ug/l	--	8.7	ND(0.5)	ND(2)	--	ND(0.5)	--	--	ND(0.5)
MESITYLENE	ug/l	--	--	--	ND(1)	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	ND(2.0)	--	ND(50)	--	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	2.3	--	11	27 UJ	--	--	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	ND(1)	--	--	--	--	--
O-XYLENE	ug/l	--	4.4	ND(0.5)	ND(1)	--	ND(0.5)	--	--	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	ND(1)	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	--	ND(1.0)	ND(1.0)	ND(1.0)
TOLUENE	ug/l	--	14.3	ND(0.5)	ND(2)	--	ND(0.5)	--	--	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	--	--	--	--	--

001156

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW1-87							
Sample Date:			05/28/86	05/04/87	05/12/88	04/10/90	04/10/91	04/10/91 Dupl.	04/19/91	04/27/92
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	--	ND(1.0)	--	--	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(2)	--	--	--	--	--
VINYL CHLORIDE	ug/l	--	ND(2.0)	ND(2.0)	ND(12)	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW1-87						SW2-87	SW3-87
Sample Date:			07/20/92	04/07/93	04/20/94	07/07/94	04/05/95	11/07/95	05/28/86	05/28/86
Parameters	Units	MOE Obj.								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	ND(1.0)	ND(1.0)
1,1,2-TRICHLOROETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	ND(1.0)	ND(1.0)
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	--	--	--	--	ND(1.0)	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	ND(1.0)	ND(1.0)
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	ND(1.0)	--	--	--	--	1.0	ND(1.0)
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	--	ND(1.0)	--	--	--	--	ND(1.0)	ND(1.0)
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	48.3	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	ND(10)	--	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	16.1	ND(0.5)
BROMOFORM	ug/l	--	--	ND(2.0)	--	--	--	--	ND(1.0)	ND(1.0)
BROMOMETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	ND(2.0)	ND(2.0)
CARBON TETRACHLORIDE	ug/l	--	--	ND(1.0)	--	--	--	--	ND(1.0)	ND(1.0)
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	124.5	ND(0.5)
CHLOROETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	ND(2.0)	ND(2.0)
CHLOROFORM	ug/l	--	--	ND(1.0)	--	--	--	--	ND(1.0)	ND(1.0)
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1.0)	--	--	--	--	ND(1.0)	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	--	--	ND(1.0)	--	--	--	--	ND(1.0)	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	ND(1.0)	ND(1.0)
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	ND(2.0)	ND(2.0)
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	1.1	0.5
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	--	9.9	1.8
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	ND(2.0)	--	--	--	--	ND(2.0)	ND(2.0)
METHYLENE CHLORIDE	ug/l	--	--	ND(1.0)	--	--	--	--	ND(1.0)	ND(1.0)
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	2.4	1.1
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	ND(0.5)	ND(0.5)	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	6.1	3.0
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	--	--	--	--	ND(1.0)	ND(1.0)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1.0)	--	--	--	--	ND(1.0)	ND(1.0)

001158

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW1-87						SW2-87	SW3-87
Sample Date:			07/20/92	04/07/93	04/20/94	07/07/94	04/05/95	11/07/95	05/28/86	05/28/86
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	ND(2.0)	ND(2.0)
VINYL CHLORIDE	ug/l	--	--	ND(2.0)	--	--	--	--	ND(2.0)	ND(2.0)

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW4-87			SW5-87				
Sample Date:			05/28/86	04/07/93	11/07/95	05/28/86	05/12/88	08/16/88	11/16/89	04/10/90
Parameters	Units	MOE Obj.								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(2)	ND(1.0)	ND(0.50)	--
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(1.0)	ND(2.0)	--	ND(1.0)	ND(2)	ND(1.0)	ND(0.33)	--
1,1,2-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(2.0)	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.21)	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	--
1,1-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.32)	--
1,2,4-TRICHLOROBENZENE	ug/l	--	ND(1.0)	--	--	ND(1.0)	--	--	ND(0.50)	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	ND(0.18)	--
1,2-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.24)	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(2)	ND(1.0)	ND(0.82)	--
1,2-DICHLOROPROPANE	ug/l	--	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(0.23)	--
1,4-DICHLOROBENZENE	ug/l	--	1.0	ND(1.0)	ND(1)	3.4	ND(1)	ND(1.0)	ND(0.22)	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	ND(10)	--	--	ND(10)	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	ND(1)	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	0.19 U	--
BROMOFORM	ug/l	--	ND(1.0)	ND(2.0)	--	ND(1.0)	ND(2)	ND(1.0)	ND(0.49)	--
BROMOMETHANE	ug/l	--	ND(2.0)	ND(2.0)	--	ND(2.0)	ND(16)	ND(2.0)	ND(0.83)	--
CARBON TETRACHLORIDE	ug/l	--	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(2)	ND(1.0)	ND(0.93)	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.27)	--
CHLOROETHANE	ug/l	--	ND(2.0)	ND(2.0)	--	ND(2.0)	ND(10)	ND(2.0)	ND(0.50)	--
CHLOROFORM	ug/l	--	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1)	ND(1.0)	3.6 U	12.0 UJ
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.27)	--
DIBROMOCHLOROMETHANE	ug/l	--	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.24)	--
DICHLOROBROMOMETHANE	ug/l	--	ND(1.0)	ND(2.0)	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.50)	--
DICHLORODIFLUOROMETHANE	ug/l	--	ND(2.0)	--	--	ND(2.0)	--	ND(2.0)	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	ND(0.50)	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	1.2	ND(1)	ND(0.5)	ND(0.24)	--
M&P-XYLENE	ug/l	--	1.3	ND(0.5)	--	5.2	ND(2)	ND(0.5)	0.21 U	--
MESITYLENE	ug/l	--	--	--	--	--	ND(1)	--	--	--
METHYL CHLORIDE	ug/l	--	ND(2.0)	ND(2.0)	--	ND(2.0)	ND(50)	ND(2.0)	0.72 U	--
METHYLENE CHLORIDE	ug/l	--	ND(1.0)	ND(1.0)	--	ND(1.0)	11	ND(1.0)	19.4 U	39.0 UJ
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	ND(1)	--	--	--
O-XYLENE	ug/l	--	0.7	ND(0.5)	ND(0.5)	2.9	ND(1)	ND(0.5)	ND(0.19)	--
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	ND(1)	--	--	--
P+M-XYLENE	ug/l	--	--	--	ND(0.5)	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	0.21 U	--
TOLUENE	ug/l	--	2.1	ND(0.5)	ND(0.5)	2.6	2.6	ND(0.5)	0.34 U	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	--

001160

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW4-87			SW5-87				
Sample Date:			05/28/86	04/07/93	11/07/95	05/28/86	05/12/88	08/16/88	11/16/89	04/10/90
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(0.92)	--
TRICHLOROFLUOROMETHANE	ug/l	--	ND(2.0)	ND(2.0)	--	ND(2.0)	ND(2)	ND(2.0)	0.26 U	--
VINYL CHLORIDE	ug/l	--	ND(2.0)	ND(2.0)	--	ND(2.0)	ND(12)	ND(2.0)	ND(0.74)	--

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW5-87							
Sample Date:			04/10/91	04/27/92	07/20/92	04/07/93	04/20/94	07/07/94	04/05/95	11/07/95
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	ND(2.0)	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	ND(2.0)	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	ND(10)	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	--	--	ND(2.0)	--	--	--	--
BROMOMETHANE	ug/l	--	--	--	--	ND(2.0)	--	--	--	--
CARBON TETRACHLORIDE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	--	ND(2.0)	--	--	--	--
CHLOROFORM	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	ND(2.0)	--	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	--
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	ND(2.0)	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	ND(0.5)	ND(0.5)
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--

001162

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW5-87							
Sample Date:			04/10/91	04/27/92	07/20/92	04/07/93	04/20/94	07/07/94	04/05/95	11/07/95
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	ND(2.0)	--	--	--	--
VINYL CHLORIDE	ug/l	--	--	--	--	ND(2.0)	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW6-87							
Sample Date:			05/28/86	05/04/87	05/12/88	08/16/88	11/16/89	04/10/90	04/10/91	04/27/92
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.50)	--	ND(1.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.33)	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.21)	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	--	ND(1.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.32)	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	--	--	ND(0.50)	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	ND(0.18)	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.24)	--	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.82)	--	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.23)	--	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.22)	--	ND(1.0)	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	ND(10)	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	ND(1)	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	0.19 U	--	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.49)	--	--	--
BROMOMETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(16)	ND(2.0)	ND(0.83)	--	--	--
CARBON TETRACHLORIDE	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.93)	--	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.27)	--	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(10)	ND(2.0)	ND(0.50)	--	--	--
CHLOROFORM	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	2.4 U	1.25 UJ	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.27)	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.24)	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.50)	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	ND(2.0)	ND(2.0)	--	ND(2.0)	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	ND(0.50)	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	--	ND(1)	ND(0.5)	ND(0.24)	--	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	1.0	ND(0.5)	ND(2)	ND(0.5)	0.21 U	--	ND(0.5)	ND(0.5)
MESITYLENE	ug/l	--	--	--	ND(1)	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	ND(2.0)	--	ND(50)	ND(2.0)	0.65 U	--	--	--
METHYLENE CHLORIDE	ug/l	--	ND(1.0)	--	11	ND(1.0)	16.8 U	18.3 UJ	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	ND(1)	--	--	--	--	--
O-XYLENE	ug/l	--	0.5	ND(0.5)	ND(1)	ND(0.5)	ND(0.19)	--	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	ND(1)	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	0.21 U	--	ND(1.0)	ND(1.0)
TOLUENE	ug/l	--	2.4	ND(0.5)	ND(2)	ND(0.5)	0.36 U	--	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW6-87							
Sample Date:			05/28/86	05/04/87	05/12/88	08/16/88	11/16/89	04/10/90	04/10/91	04/27/92
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.92)	--	ND(1.0)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(2)	ND(2.0)	0.65 U	--	--	--
VINYL CHLORIDE	ug/l	--	ND(2.0)	ND(2.0)	ND(12)	ND(2.0)	ND(0.74)	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW6-87							
Sample Date:			07/20/92	07/20/92 Dupl.	04/07/93	07/02/93	04/20/94	04/20/94 Dupl.	04/05/95	11/07/95
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,2-DICHLOROPROPANE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	ND(10)	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
BROMOMETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
CARBON TETRACHLORIDE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
CHLOROFORM	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	--
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	ND(0.5)	ND(0.5)
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW6-87							
Sample Date:			07/20/92	07/20/92 Dupl.	04/07/93	07/02/93	04/20/94	04/20/94 Dupl.	04/05/95	11/07/95
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	--	ND(1)	ND(1)	ND(1)	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
VINYL CHLORIDE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW7-87							
Sample Date:			05/28/86	05/04/87	05/12/88	08/16/88	11/16/89	11/16/89 Dupl.	04/10/90	04/10/91
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.50)	ND(0.50)	--	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.33)	ND(0.33)	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.21)	ND(0.21)	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	ND(0.20)	--	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.32)	ND(0.32)	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	--	--	ND(0.50)	ND(0.50)	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.24)	ND(0.24)	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.82)	ND(0.82)	--	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	ND(0.20)	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.23)	ND(0.23)	--	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.22)	ND(0.22)	--	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	ND(10)	--	ND(0.50)	ND(0.50)	--	--
A-METHYLSTYRENE	ug/l	--	--	--	ND(1)	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.19)	ND(0.19)	--	ND(0.5)
BROMOFORM	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.49)	ND(0.49)	--	--
BROMOMETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(16)	ND(2.0)	ND(0.83)	ND(0.83)	--	--
CARBON TETRACHLORIDE	ug/l	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.93)	ND(0.93)	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.27)	ND(0.27)	--	ND(0.5)
CHLOROETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(10)	ND(2.0)	ND(0.50)	ND(0.50)	--	--
CHLOROFORM	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	0.51 U	0.51	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.27)	ND(0.27)	--	--
DIBROMOCHLOROMETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.24)	ND(0.24)	--	--
DICHLOROBROMOMETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.50)	ND(0.50)	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	ND(2.0)	ND(2.0)	--	ND(2.0)	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	ND(0.50)	ND(0.50)	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	--	ND(1)	ND(0.5)	ND(0.24)	ND(0.24)	--	ND(0.5)
M&P-XYLENE	ug/l	--	1.0	ND(0.5)	ND(2)	ND(0.5)	0.21 U	0.21 U	--	ND(0.5)
MESITYLENE	ug/l	--	--	--	ND(1)	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	ND(2.0)	--	ND(50)	ND(2.0)	ND(0.65)	ND(0.65)	--	--
METHYLENE CHLORIDE	ug/l	--	ND(1.0)	--	ND(10)	ND(1.0)	0.92 U	0.92 U	11.0 UJ	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	ND(1)	--	--	--	--	--
O-XYLENE	ug/l	--	0.5	ND(0.5)	ND(1)	ND(0.5)	ND(0.19)	ND(0.19)	--	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	ND(1)	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.21)	ND(0.21)	--	ND(1.0)
TOLUENE	ug/l	--	2.7	ND(0.5)	ND(2)	ND(0.5)	ND(0.24)	ND(0.24)	--	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	ND(0.20)	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	--	--

001168

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW7-87							
Sample Date:			05/28/86	05/04/87	05/12/88	08/16/88	11/16/89	11/16/89 Dupl.	04/10/90	04/10/91
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.92)	ND(0.92)	--	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(2)	ND(2.0)	ND(0.26)	ND(0.26)	--	--
VINYL CHLORIDE	ug/l	--	ND(2.0)	ND(2.0)	ND(12)	ND(2.0)	ND(0.74)	ND(0.74)	--	--

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW7-87							
Sample Date:			04/27/92	07/20/92	04/07/93	07/02/93	04/20/94	07/07/94	07/07/94 Dupl.	04/05/95
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,2-DICHLOROPROPANE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	ND(10)	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
BROMOMETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
CARBON TETRACHLORIDE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
CHLOROFORM	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	ND(0.5)
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--

001170

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW7-87							
Sample Date:			04/27/92	07/20/92	04/07/93	07/02/93	04/20/94	07/07/94	07/07/94 Dupl.	04/05/95
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	--	ND(1)	ND(1)	ND(1)	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
VINYL CHLORIDE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW7-87	SW8-87						
Sample Date:			11/07/95	05/28/86	05/04/87	05/12/88	08/16/88	11/16/89	04/10/90	04/10/91
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.50)	--	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.33)	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.21)	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	--	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.32)	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	ND(1.0)	ND(1.0)	--	--	ND(0.50)	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.24)	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.82)	--	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.23)	--	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.22)	--	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	ND(10)	--	ND(0.50)	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	ND(1)	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.19)	2.6 J	ND(0.5)
BROMOFORM	ug/l	--	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.49)	--	--
BROMOMETHANE	ug/l	--	--	ND(2.0)	ND(2.0)	ND(16)	ND(2.0)	ND(0.83)	--	--
CARBON TETRACHLORIDE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)	ND(0.93)	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.27)	--	ND(0.5)
CHLOROETHANE	ug/l	--	--	ND(2.0)	ND(2.0)	ND(10)	ND(2.0)	ND(0.50)	--	--
CHLOROFORM	ug/l	--	--	ND(1.0)	1.0	ND(1)	ND(1.0)	3.2 U	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	ND(1.0)	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.27)	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.24)	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.50)	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	ND(2.0)	ND(2.0)	--	ND(2.0)	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	ND(0.50)	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	--	ND(1)	ND(0.5)	ND(0.24)	--	ND(0.5)
M&P-XYLENE	ug/l	--	--	0.7	ND(0.5)	ND(2)	ND(0.5)	0.21 U	--	ND(0.5)
MESITYLENE	ug/l	--	--	--	--	ND(1)	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	ND(2.0)	--	ND(50)	ND(2.0)	ND(0.65)	--	--
METHYLENE CHLORIDE	ug/l	--	--	ND(1.0)	--	ND(10)	ND(1.0)	0.92 U	250 UJ	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	ND(1)	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.19)	--	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	ND(1)	--	--	--	--
P+M-XYLENE	ug/l	--	ND(0.5)	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.21)	--	ND(1.0)
TOLUENE	ug/l	--	ND(0.5)	2.0	ND(0.5)	ND(2)	ND(0.5)	0.29	--	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW7-87	SW8-87						
Sample Date:			11/07/95	05/28/86	05/04/87	05/12/88	08/16/88	11/16/89	04/10/90	04/10/91
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)	ND(0.92)	--	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	--	ND(2.0)	ND(2.0)	ND(2)	ND(2.0)	ND(0.26)	--	--
VINYL CHLORIDE	ug/l	--	--	ND(2.0)	ND(2.0)	ND(12)	ND(2.0)	ND(0.74)	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW8-87							
Sample Date:			04/27/92	07/20/92	04/07/93	07/02/93	04/20/94	07/07/94	04/05/95	04/05/95 Dupl.
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,2-DICHLOROPROPANE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	ND(10)	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
BROMOMETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
CARBON TETRACHLORIDE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
CHLOROFORM	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	--
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	ND(0.5)	ND(0.5)
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--

001174

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW8-87							
Sample Date:			04/27/92	07/20/92	04/07/93	07/02/93	04/20/94	07/07/94	04/05/95	04/05/95 Dupl.
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	--	ND(1)	ND(1)	ND(1)	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
VINYL CHLORIDE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW8-87	SW9-87						
Sample Date:			11/07/95	05/28/86	05/04/87	05/12/88	04/10/90	04/10/91	04/27/92	04/07/93
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(2)	--	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(2)	--	--	--	ND(2.0)
1,1,2-TRICHLOROETHANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	ND(2.0)
1,1-DICHLOROETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	--	ND(1.0)	ND(1.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	ND(1.0)	ND(1.0)	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	ND(1.0)
1,2-DICHLOROETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(2)	--	ND(1.0)	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	ND(1.0)
1,3-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	--	ND(1.0)	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	--	ND(1.0)	ND(1.0)	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	ND(10)	--	--	--	ND(10)
A-METHYLSTYRENE	ug/l	--	--	--	--	ND(1)	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	--	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	ND(1.0)	ND(1.0)	ND(2)	--	--	--	ND(2.0)
BROMOMETHANE	ug/l	--	--	ND(2.0)	ND(2.0)	ND(16)	--	--	--	ND(2.0)
CARBON TETRACHLORIDE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(2)	--	--	--	ND(1.0)
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	--	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	ND(2.0)	ND(2.0)	ND(10)	--	--	--	ND(2.0)
CHLOROFORM	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	ND(1.0)
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1.0)	--	--	--	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	ND(2.0)
DICHLORODIFLUOROMETHANE	ug/l	--	--	ND(2.0)	ND(2.0)	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	--	ND(1)	--	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	--	0.8	ND(0.5)	ND(2)	--	ND(0.5)	ND(0.5)	ND(0.5)
MESITYLENE	ug/l	--	--	--	--	ND(1)	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	ND(2.0)	--	ND(50)	--	--	--	ND(2.0)
METHYLENE CHLORIDE	ug/l	--	--	ND(1.0)	1.5	ND(10)	70 UJ	--	--	ND(1.0)
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	ND(1)	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	--	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	ND(1)	--	--	--	--
P+M-XYLENE	ug/l	--	ND(0.5)	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	--	ND(1.0)	ND(1.0)	ND(1.0)
TOLUENE	ug/l	--	ND(0.5)	1.9	ND(0.5)	2.9	--	ND(0.5)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1)	--	--	--	ND(1.0)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1.0)	ND(1.0)		--	--	--	ND(1.0)

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW8-87	SW9-87						
Sample Date:			11/07/95	05/28/86	05/04/87	05/12/88	04/10/90	04/10/91	04/27/92	04/07/93
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	--	ND(1.0)	ND(1.0)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	--	ND(2.0)	ND(2.0)	ND(2)	--	--	--	ND(2.0)
VINYL CHLORIDE	ug/l	--	--	ND(2.0)	ND(2.0)	ND(12)	--	--	--	ND(2.0)

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW9-87			SW9A-93		SW10-87		
Sample Date:			04/20/94	07/07/94	04/05/95	04/07/93	07/07/94	05/28/86	05/04/87	05/04/87 Dupl.
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	ND(2.0)	--	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	ND(2.0)	--	ND(1.0)	ND(1.0)	ND(1.0)
1,1-DICHLOROETHANE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(1.0)	ND(1.0)
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)
1,2-DICHLOROETHANE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)
1,3-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	ND(10)	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	--	--	ND(2.0)	--	ND(1.0)	ND(1.0)	ND(1.0)
BROMOMETHANE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	ND(2.0)
CARBON TETRACHLORIDE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	ND(2.0)
CHLOROFORM	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	1.1	ND(1.0)
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	ND(2.0)	--	ND(1.0)	ND(1.0)	ND(1.0)
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	ND(2.0)	ND(2.0)
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	--
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	0.8	ND(0.5)	0.5
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	--	--
METHYLENE CHLORIDE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	--	ND(1.0)
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	ND(0.5)	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	1.4	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)

001178

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW9-87			SW9A-93		SW10-87		
Sample Date:			04/20/94	07/07/94	04/05/95	04/07/93	07/07/94	05/28/86	05/04/87	05/04/87 Dupl.
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	ND(2.0)
VINYL CHLORIDE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	ND(2.0)

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW10-87							
Sample Date:			05/12/88	08/16/88	08/16/88 Dupl.	04/10/90	04/10/91	04/27/92	07/20/92	04/07/93
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(2)	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(2)	ND(1.0)	ND(1.0)	--	--	--	--	ND(2.0)
1,1,2-TRICHLOROETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	--	--	--	ND(2.0)
1,1-DICHLOROETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	--	--	--	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	--	--	--	ND(1.0)
1,2-DICHLOROETHANE	ug/l	--	ND(2)	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	--	--	--	ND(1.0)
1,3-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	--	ND(10)	--	--	--	--	--	--	ND(10)
A-METHYLSTYRENE	ug/l	--	ND(1)	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(1)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	ND(2)	ND(1.0)	ND(1.0)	--	--	--	--	ND(2.0)
BROMOMETHANE	ug/l	--	ND(16)	ND(2.0)	ND(2.0)	--	--	--	--	ND(2.0)
CARBON TETRACHLORIDE	ug/l	--	ND(2)	ND(1.0)	ND(1.0)	--	--	--	--	ND(1.0)
CHLOROBENZENE	ug/l	--	ND(1)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	ND(10)	ND(2.0)	ND(2.0)	--	--	--	--	ND(2.0)
CHLOROFORM	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	--	--	--	ND(1.0)
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	ND(1.0)	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	--	--	--	--	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	--	--	--	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	--	--	--	ND(2.0)
DICHLORODIFLUOROMETHANE	ug/l	--	--	ND(2.0)	ND(2.0)	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(1)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(2)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MESITYLENE	ug/l	--	ND(1)	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	ND(50)	ND(2.0)	ND(2.0)	--	--	--	--	ND(2.0)
METHYLENE CHLORIDE	ug/l	--	10	ND(1.0)	ND(1.0)	4.9 UJ	--	--	--	ND(1.0)
METHYLSTYRENE ISOMERS	ug/l	--	ND(1)	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(1)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	ND(1)	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
TOLUENE	ug/l	--	ND(2)	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	--	--	--	ND(1.0)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	--	--	--	--	ND(1.0)

001180

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW10-87							
Sample Date:			05/12/88	08/16/88	08/16/88 Dupl.	04/10/90	04/10/91	04/27/92	07/20/92	04/07/93
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	ND(2)	ND(2.0)	ND(2.0)	--	--	--	--	ND(2.0)
VINYL CHLORIDE	ug/l	--	ND(12)	ND(2.0)	ND(2.0)	--	--	--	--	ND(2.0)

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW10-87							SW11-87
Sample Date:			07/02/93	07/02/93 Dupl.	04/20/94	07/07/94	04/05/95	07/11/95	11/07/95	11/16/89
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.50)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	ND(0.33)
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	ND(0.21)
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.20)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	ND(0.32)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	ND(0.50)
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	ND(0.18)
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	ND(0.24)
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.82)
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	--	--	--	--	ND(0.20)
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.23)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.22)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	0.19 U
BROMOFORM	ug/l	--	--	--	--	--	--	--	--	ND(0.49)
BROMOMETHANE	ug/l	--	--	--	--	--	--	--	--	ND(0.83)
CARBON TETRACHLORIDE	ug/l	--	--	--	--	--	--	--	--	ND(0.93)
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.27)
CHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	ND(0.50)
CHLOROFORM	ug/l	--	--	--	--	--	--	--	--	0.51 U
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--	ND(0.27)
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	--	--	--	--	ND(0.24)
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	--	--	--	--	ND(0.50)
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	ND(0.50)
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.24)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	--	--	0.21 U
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	--	--	--	--	0.65 U
METHYLENE CHLORIDE	ug/l	--	--	--	--	--	--	--	--	7.1 U
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.19)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	ND(0.5)	ND(0.5)	ND(0.5)	--
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	0.21 U
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	0.24 U
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	ND(0.20)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW10-87							SW11-87
Sample Date:			07/02/93	07/02/93 Dupl.	04/20/94	07/07/94	04/05/95	07/11/95	11/07/95	11/16/89
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	--	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(0.92)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	0.26 U
VINYL CHLORIDE	ug/l	--	--	--	--	--	--	--	--	ND(0.74)

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW11-87							
Sample Date:			04/10/90	04/10/91	04/10/91 Dupl.	04/27/92	04/27/92 Dupl.	04/07/93	11/07/95	11/07/95 Dupl.
Parameters	Units	MOE Obj.								
1,1,1-TRICHLOROETHANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	--	--
1,1-DICHLOROETHANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	--	--	ND(1.0)	--	--
1,3-DICHLOROBENZENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)
1,4-DICHLOROBENZENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	ND(10)	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	--	--	--	--	ND(2.0)	--	--
BROMOMETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	--	--
CARBON TETRACHLORIDE	ug/l	--	--	--	--	--	--	ND(1.0)	--	--
CHLOROBENZENE	ug/l	--	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	--	--
CHLOROFORM	ug/l	--	--	--	--	--	--	ND(1.0)	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	--	--	ND(1.0)	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	--
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	--	--	ND(2.0)	--	--
METHYLENE CHLORIDE	ug/l	--	7.3 UJ	--	--	--	--	ND(1.0)	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	ND(0.5)	ND(0.5)
TETRACHLOROETHYLENE	ug/l	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)
TOLUENE	ug/l	--	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW11-87							
Sample Date:			04/10/90	04/10/91	04/10/91 Dupl.	04/27/92	04/27/92 Dupl.	04/07/93	11/07/95	11/07/95 Dupl.
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	--	--
VINYL CHLORIDE	ug/l	--	--	--	--	--	--	ND(2.0)	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW12-87							
Sample Date:			05/04/87	05/12/88	08/16/88	11/16/89	04/10/90	04/10/90 Dupl.	04/10/91	04/27/92
Parameters	Units	MOE Obj.								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(2)	ND(1.0)	ND(0.50)	--	--	ND(1.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(1.0)	ND(2)	ND(1.0)	ND(0.33)	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.21)	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	--	--	ND(1.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.32)	--	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	ND(1.0)	--	--	ND(0.50)	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	ND(0.18)	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.24)	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(2)	ND(1.0)	ND(0.82)	--	--	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.23)	--	--	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.22)	--	--	ND(1.0)	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	ND(10)	--	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	ND(1)	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(1)	ND(0.5)	0.19 U	--	--	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	ND(1.0)	ND(2)	ND(1.0)	ND(0.49)	--	--	--	--
BROMOMETHANE	ug/l	--	ND(2.0)	ND(16)	ND(2.0)	ND(0.83)	0.83 J	17.0 J	--	--
CARBON TETRACHLORIDE	ug/l	--	ND(1.0)	ND(2)	ND(1.0)	ND(0.93)	--	--	--	--
CHLOROBENZENE	ug/l	--	1.3	ND(1)	ND(0.5)	ND(0.27)	--	--	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	ND(2.0)	ND(10)	ND(2.0)	ND(0.50)	--	--	--	--
CHLOROFORM	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	1.10 U	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.27)	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.24)	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.50)	--	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	ND(2.0)	--	ND(2.0)	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	ND(0.50)	--	--	--	--
ETHYLBENZENE	ug/l	--	--	ND(1)	ND(0.5)	ND(0.24)	--	--	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(2)	ND(0.5)	0.21 U	--	--	ND(0.5)	ND(0.5)
MESITYLENE	ug/l	--	--	ND(1)	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	ND(50)	ND(2.0)	0.65 U	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	--	10	ND(1.0)	26 U	52 UJ	110 UJ	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	ND(1)	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(1)	ND(0.5)	ND(0.19)	--	--	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	ND(1)	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	0.21 U	--	--	ND(1.0)	ND(1.0)
TOLUENE	ug/l	--	ND(0.5)	ND(2)	ND(0.5)	0.29 U	--	--	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.20)	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW12-87							
Sample Date:			05/04/87	05/12/88	08/16/88	11/16/89	04/10/90	04/10/90 Dupl.	04/10/91	04/27/92
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(0.92)	--	--	ND(1.0)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	ND(2.0)	ND(2)	ND(2.0)	0.26 U	--	--	--	--
VINYL CHLORIDE	ug/l	--	ND(2.0)	ND(12)	ND(2.0)	ND(0.74)	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW12-87							SW13-88
Sample Date:			07/20/92	04/07/93	07/02/93	04/20/94	07/07/94	04/05/95	11/07/95	05/12/88
Parameters	Units	MOE Obj.								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--	ND(2)
1,1,2-TRICHLOROETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--	ND(1)
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	--	--	--	--	--	ND(1)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	ND(1.0)	--	--	--	--	--	ND(1)
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(2)
1,2-DICHLOROPROPANE	ug/l	--	--	ND(1.0)	--	--	--	--	--	ND(1)
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	ND(10)	--	--	--	--	--	ND(10)
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	ND(1)
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)
BROMOFORM	ug/l	--	--	ND(2.0)	--	--	--	--	--	ND(2)
BROMOMETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--	ND(16)
CARBON TETRACHLORIDE	ug/l	--	--	ND(1.0)	--	--	--	--	--	ND(2)
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)
CHLOROETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--	ND(10)
CHLOROFORM	ug/l	--	--	ND(1.0)	--	--	--	--	--	ND(1)
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1.0)	--	--	--	--	--	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	--	--	ND(1.0)	--	--	--	--	--	ND(1)
DICHLOROBROMOMETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--	ND(1)
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	--	ND(2)
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	ND(1)
METHYL CHLORIDE	ug/l	--	--	ND(2.0)	--	--	--	--	--	ND(50)
METHYLENE CHLORIDE	ug/l	--	--	ND(1.0)	--	--	--	--	--	ND(10)
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	ND(1)
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	ND(1)
P+M-XYLENE	ug/l	--	--	--	--	--	--	ND(0.5)	ND(0.5)	--
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(2)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	--	--	--	--	--	ND(1)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1.0)	--	--	--	--	--	ND(1.0)

001188

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW12-87							SW13-88
Sample Date:			07/20/92	04/07/93	07/02/93	04/20/94	07/07/94	04/05/95	11/07/95	05/12/88
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--	ND(2)
VINYL CHLORIDE	ug/l	--	--	ND(2.0)	--	--	--	--	--	ND(12)

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW13-88							
Sample Date:			08/16/88	11/16/89	04/10/90	04/10/91	04/27/92	07/20/92	04/07/93	07/02/93
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(0.50)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(1.0)	ND(0.33)	--	--	--	--	ND(2.0)	--
1,1,2-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(0.21)	--	--	--	--	ND(2.0)	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(0.20)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(0.32)	--	--	--	--	ND(1.0)	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	ND(0.50)	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(0.24)	--	--	--	--	ND(1.0)	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(0.82)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	ND(1.0)	ND(0.20)	--	--	--	--	ND(1.0)	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(0.23)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(0.22)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	ND(0.50)	--	--	--	--	ND(10)	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.19)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	ND(1.0)	ND(0.49)	--	--	--	--	ND(2.0)	--
BROMOMETHANE	ug/l	--	ND(2.0)	ND(0.83)	--	--	--	--	ND(2.0)	--
CARBON TETRACHLORIDE	ug/l	--	ND(1.0)	ND(0.93)	--	--	--	--	ND(1.0)	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.27)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	ND(2.0)	ND(0.50)	--	--	--	--	ND(2.0)	--
CHLOROFORM	ug/l	--	ND(1.0)	0.51 U	--	--	--	--	ND(1.0)	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1.0)	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(0.27)	--	--	--	--	ND(1.0)	--
DIBROMOCHLOROMETHANE	ug/l	--	ND(1.0)	ND(0.24)	--	--	--	--	ND(1.0)	--
DICHLOROBROMOMETHANE	ug/l	--	ND(1.0)	ND(0.50)	--	--	--	--	ND(2.0)	--
DICHLORODIFLUOROMETHANE	ug/l	--	ND(2.0)	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	ND(0.50)	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.24)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	0.21 U	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	ND(2.0)	ND(0.65)	--	--	--	--	ND(2.0)	--
METHYLENE CHLORIDE	ug/l	--	ND(10)	1.18 U	1.02 UJ	--	--	--	ND(1.0)	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.19)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(0.21)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
TOLUENE	ug/l	--	ND(0.5)	ND(0.24)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(0.20)	--	--	--	--	ND(1.0)	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	--	--	--	--	ND(1.0)	--

001190

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW13-88							
Sample Date:			08/16/88	11/16/89	04/10/90	04/10/91	04/27/92	07/20/92	04/07/93	07/02/93
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	ND(1.0)
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(0.92)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	--
TRICHLOROFLUOROMETHANE	ug/l	--	ND(2.0)	ND(0.26)	--	--	--	--	ND(2.0)	--
VINYL CHLORIDE	ug/l	--	ND(2.0)	ND(0.74)	--	--	--	--	ND(2.0)	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW13-88			SW13-93		SW14-93	SW15-93	SWFB2
Sample Date:			04/20/94	04/05/95	11/07/95	04/07/93	07/07/94	04/07/93	04/07/93	04/20/94
Parameters	Units	MOE Obj.								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	--
1,1-DICHLOROETHANE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	--
1,2-DICHLOROETHANE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
1,4-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	ND(10)	--	ND(10)	ND(10)	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	--
BROMOMETHANE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	--
CARBON TETRACHLORIDE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	--
CHLOROFORM	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	--	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	--
METHYLENE CHLORIDE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	ND(0.5)	ND(0.5)	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	--

001192

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SW13-88			SW13-93		SW14-93	SW15-93	SWFB2
Sample Date:			04/20/94	04/05/95	11/07/95	04/07/93	07/07/94	04/07/93	04/07/93	04/20/94
Parameters	*Units*	*MOE Obj.*								
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	--
VINYL CHLORIDE	ug/l	--	--	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	--

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SWFBLK
Sample Date:			07/07/94
Parameters	*Units*	*MOE Obj.*	
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--
1,2-DIBROMOETHANE	ug/l	--	--
1,2-DICHLOROBENZENE	ug/l	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1)
1,2-DICHLOROPROPANE	ug/l	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1)
1,4-DICHLOROBENZENE	ug/l	--	ND(1)
2-CHLOROETHYLVINYLETHER	ug/l	--	--
A-METHYLSTYRENE	ug/l	--	--
BENZENE	ug/l	--	ND(0.5)
BROMOFORM	ug/l	--	--
BROMOMETHANE	ug/l	--	--
CARBON TETRACHLORIDE	ug/l	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)
CHLOROETHANE	ug/l	--	--
CHLOROFORM	ug/l	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--
DICHLOROBROMOMETHANE	ug/l	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)
MESITYLENE	ug/l	--	--
METHYL CHLORIDE	ug/l	--	--
METHYLENE CHLORIDE	ug/l	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--
O-XYLENE	ug/l	--	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--
P+M-XYLENE	ug/l	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1)
TOLUENE	ug/l	--	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--

001194

Bayview Landfill Site
Burlington, Ontario

Table B.2
Volatile Organic Compounds
Surface Water Analytical Results

Location:			SWFBLK
Sample Date:			07/07/94
Parameters	*Units*	*MOE Obj.*	
TRICHLOROETHANE	ug/l	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	--
VINYL CHLORIDE	ug/l	--	--

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Table B.3
Acid Extractables and Base Neutrals/SVOC
Surface Water Analytical Results

Location:			SW1-87	SW2-87	SW3-87	SW4-87	SW5-87	SW6-87	SW7-87	SW8-87
Sample Date:			05/28/86	05/28/86	05/28/86	05/28/86	05/28/86	05/28/86	05/28/86	05/28/86
Parameters	*Units*	*MOE Obj.*								
Acid Extractables										
2,4,6-TRICHLOROPHENOL	ug/l	18	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2,4-DICHLOROPHENOL	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2,4-DIMETHYL PHENOL	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2,4-DINITROPHENOL	ug/l	--	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)
2-CHLOROPHENOL	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2-NITROPHENOL	ug/l	--	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
4,6-DINITRO-O-CRESOL	ug/l	--	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
4-NITROPHENOL	ug/l	--	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
P-CHLORO-M-CRESOL	ug/l	--	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
PENTACHLOROPHENOL	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
PHENOL	ug/l	--	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)
Base Neutrals/SVOC										
1,2,4-TRICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-DIPHENYLHYDRAZINE	ug/l	--	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	31.0	ND(1.0)	1.1	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2,4-DINITROTOLUENE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2,6-DINITROTOLUENE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2-CHLORONAPHTHALENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
3,3'-DICHLOROBENZIDINE	ug/l	--	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
4-BROMOPHENYL PHENYL ETHER	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
9H-FLUORENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
ACENAPHTHENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
ACENAPHTHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
ANTHRACENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
BENZIDINE	ug/l	--	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
BENZO(A)ANTHRACENE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BENZO(A)PYRENE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BENZO(B)FLUORANTHENE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BENZO(GHI)PERYLENE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BENZO(K)FLUORANTHENE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BIS(2-CHLOROETHYL)ETHER	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table B.3
Acid Extractables and Base Neutrals/SVOC
Surface Water Analytical Results

Location:			SW1-87	SW2-87	SW3-87	SW4-87	SW5-87	SW6-87	SW7-87	SW8-87
Sample Date:			05/28/86	05/28/86	05/28/86	05/28/86	05/28/86	05/28/86	05/28/86	05/28/86
Parameters	*Units*	*MOE Obj.*								
Base Neutrals/SVOC (Cont'd)										
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	14.2	17.7	25.3	25.8	19.0	16.4	8.3	11.0
BUTYL BENZYL PHTHALATE	ug/l	--	3.4	6.4	8.6	8.1	2.8	9.2	2.8	5.7
CHRYSENE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
DI-N-BUTYL PHTHALATE	ug/l	--	14.3	13.8	26.8	16.1	ND(1.0)	19.7	5.6	ND(1.0)
DI-N-OCTYL PHTHALATE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
DIBENZO(A,H)ANTHRACENE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
DIETHYL PHTHALATE	ug/l	--	ND(2.0)	13.4	16.3	15.3	8.2	17.0	5.4	5.7
DIMETHYL PHTHALATE	ug/l	--	ND(2.0)	5.4	ND(2.0)	6.2	4.6	7.8	ND(2.0)	ND(2.0)
FLUORANTHENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
HEXACHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
HEXACHLOROBUTADIENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
HEXACHLOROCYCLOPENTADIENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
HEXACHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
INDENO(1,2,3-CD)PYRENE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
ISOPHORONE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)
N-NITROSODIPHENYLAMINE	ug/l	--	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
NAPHTHALENE	ug/l	--	ND(1.0)	4.0	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
NITROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
PHENANTHRENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
PYRENE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)

001198

Bayview Landfill Site
Burlington, Ontario

Table B.3
Acid Extractables and Base Neutrals/SVOC
Surface Water Analytical Results

Location:			SW9-87	SW10-87
Sample Date:			05/28/86	05/28/86
Parameters	*Units*	*MOE Obj.*		
Acid Extractables				
2,4,6-TRICHLOROPHENOL	ug/l	18	ND(2.0)	ND(2.0)
2,4-DICHLOROPHENOL	ug/l	--	ND(2.0)	ND(2.0)
2,4-DIMETHYL PHENOL	ug/l	--	ND(2.0)	ND(2.0)
2,4-DINITROPHENOL	ug/l	--	ND(3.0)	ND(3.0)
2-CHLOROPHENOL	ug/l	--	ND(2.0)	ND(2.0)
2-NITROPHENOL	ug/l	--	ND(5.0)	ND(5.0)
4,6-DINITRO-O-CRESOL	ug/l	--	ND(5.0)	ND(5.0)
4-NITROPHENOL	ug/l	--	ND(5.0)	ND(5.0)
P-CHLORO-M-CRESOL	ug/l	--	ND(5.0)	ND(5.0)
PENTACHLOROPHENOL	ug/l	--	ND(2.0)	ND(2.0)
PHENOL	ug/l	--	ND(3.0)	ND(3.0)
Base Neutrals/SVOC				
1,2,4-TRICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)
1,2-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)
1,2-DIPHENYLHYDRAZINE	ug/l	--	ND(5.0)	ND(5.0)
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)
2,4-DINITROTOLUENE	ug/l	--	ND(2.0)	ND(2.0)
2,6-DINITROTOLUENE	ug/l	--	ND(2.0)	ND(2.0)
2-CHLORONAPHTHALENE	ug/l	--	ND(1.0)	ND(1.0)
3,3'-DICHLOROBENZIDINE	ug/l	--	ND(5.0)	ND(5.0)
4-BROMOPHENYL PHENYL ETHER	ug/l	--	ND(1.0)	ND(1.0)
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	ND(1.0)	ND(1.0)
9H-FLUORENE	ug/l	--	ND(1.0)	ND(1.0)
ACENAPHTHENE	ug/l	--	ND(1.0)	ND(1.0)
ACENAPHTHYLENE	ug/l	--	ND(1.0)	ND(1.0)
ANTHRACENE	ug/l	--	ND(1.0)	ND(1.0)
BENZIDINE	ug/l	--	ND(5.0)	ND(5.0)
BENZO(A)ANTHRACENE	ug/l	--	ND(2.0)	ND(2.0)
BENZO(A)PYRENE	ug/l	--	ND(2.0)	ND(2.0)
BENZO(B)FLUORANTHENE	ug/l	--	ND(2.0)	ND(2.0)
BENZO(GHI)PERYLENE	ug/l	--	ND(2.0)	ND(2.0)
BENZO(K)FLUORANTHENE	ug/l	--	ND(2.0)	ND(2.0)
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	ND(2.0)	ND(2.0)
BIS(2-CHLOROETHYL)ETHER	ug/l	--	ND(1.0)	ND(1.0)
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	ND(1.0)	ND(1.0)

Bayview Landfill Site
Burlington, Ontario

Table B.3
Acid Extractables and Base Neutrals/SVOC
Surface Water Analytical Results

Location:			SW9-87	SW10-87
Sample Date:			05/28/86	05/28/86
Parameters	*Units*	*MOE Obj.*		
Base Neutrals/SVOC (Cont'd)				
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	14.4	8.6
BUTYL BENZYL PHTHALATE	ug/l	--	5.8	6.2
CHRYSENE	ug/l	--	ND(2.0)	ND(2.0)
DI-N-BUTYL PHTHALATE	ug/l	--	10.2	ND(1.0)
DI-N-OCTYL PHTHALATE	ug/l	--	ND(2.0)	ND(2.0)
DIBENZO(A,H)ANTHRACENE	ug/l	--	ND(2.0)	ND(2.0)
DIETHYL PHTHALATE	ug/l	--	4.1	4.6
DIMETHYL PHTHALATE	ug/l	--	ND(2.0)	ND(2.0)
FLUORANTHENE	ug/l	--	ND(1.0)	ND(1.0)
HEXACHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)
HEXACHLOROBUTADIENE	ug/l	--	ND(1.0)	ND(1.0)
HEXACHLOROCYCLOPENTADIENE	ug/l	--	ND(1.0)	ND(1.0)
HEXACHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)
INDENO(1,2,3-CD)PYRENE	ug/l	--	ND(2.0)	ND(2.0)
ISOPHORONE	ug/l	--	ND(1.0)	ND(1.0)
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	ND(3.0)	ND(3.0)
N-NITROSODIPHENYLAMINE	ug/l	--	ND(4.0)	ND(4.0)
NAPHTHALENE	ug/l	--	ND(1.0)	ND(1.0)
NITROBENZENE	ug/l	--	ND(1.0)	ND(1.0)
PHENANTHRENE	ug/l	--	ND(1.0)	ND(1.0)
PYRENE	ug/l	--	ND(2.0)	ND(2.0)

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table B.4

Pesticides and PCB's

Surface Water Analytical Results

Location:			SW1-87	SW2-87		SW3-87	SW4-87	SW5-87	SW6-87	SW7-87
Sample Date:			05/28/86	03/26/86	05/28/86	05/28/86	05/28/86	05/28/86	05/28/86	05/28/86
Parameters	*Units*	*MOE Obj.*								
Pesticides and PCB's										
2,4-DDD	ug/l	--	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4,4-DDD	ug/l	--	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4,4-DDE	ug/l	--	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4,4-DDT	ug/l	--	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
ALDRIN	ug/l	--	ND(0.010)	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
ALPHA-BHC	ug/l	--	ND(0.010)	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
ALPHA-CHLORDANE	ug/l	--	ND(0.010)	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
ALPHA-ENDOSULFAN	ug/l	--	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
BETA-BHC	ug/l	--	ND(0.010)	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
BETA-ENDOSULFAN	ug/l	--	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
DELTA-BHC	ug/l	--	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
DIELDRIN	ug/l	--	ND(0.010)	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
ENDOSULFAN SULFATE	ug/l	--	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
ENDRIN	ug/l	--	ND(0.010)	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
GAMMA-BHC(LINDANE)	ug/l	--	ND(0.010)	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
GAMMA-CHLORDANE	ug/l	--	ND(0.010)	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
HEPTACHLOR	ug/l	--	ND(0.010)	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
HEPTACHLOR EPOXIDE	ug/l	--	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
HEXACHLOROBENZENE	ug/l	--	ND(0.010)	ND(0.010)	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
METHOXYCHLOR	ug/l	--	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
MIREX	ug/l	--	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
OXYCHLORDANE	ug/l	--	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
TOTAL PCB	ug/l	--	ND(0.050)	--	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)	ND(0.050)

Bayview Landfill Site
Burlington, Ontario

Table B.4

Surface Water Analytical Results

Pesticides and PCB's

Location:			SW8-87	SW9-87	SW10-87
Sample Date:			05/28/86	05/28/86	05/28/86
Parameters	*Units*	*MOE Obj.*			
Pesticides and PCB's					
2,4-DDD	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)
4,4-DDD	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)
4,4-DDE	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)
4,4-DDT	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)
ALDRIN	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)
ALPHA-BHC	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)
ALPHA-CHLORDANE	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)
ALPHA-ENDOSULFAN	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)
BETA-BHC	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)
BETA-ENDOSULFAN	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)
DELTA-BHC	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)
DIELDRIN	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)
ENDOSULFAN SULFATE	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)
ENDRIN	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)
GAMMA-BHC(LINDANE)	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)
GAMMA-CHLORDANE	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)
HEPTACHLOR	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)
HEPTACHLOR EPOXIDE	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)
HEXACHLOROBENZENE	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)
METHOXYCHLOR	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)
MIREX	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)
OXYCHLORDANE	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)
TOTAL PCB	ug/l	--	ND(0.050)	ND(0.050)	ND(0.050)

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table B.5
Surface Water QAQC Analytical Results

Location:		FBLK			FBLK1			FBLK2		
Sample Date:		05/04/87	11/16/89	04/10/91	05/28/86	04/27/92	04/07/93	05/28/86	07/20/92	04/19/94
Parameters	*Units*									
Acid Extractables										
2,4,6-TRICHLOROPHENOL	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
2,4-DICHLOROPHENOL	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
2,4-DIMETHYL PHENOL	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
2,4-DINITROPHENOL	ug/l	--	--	--	ND(3.0)	--	--	ND(3.0)	--	--
2-CHLOROPHENOL	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
2-NITROPHENOL	ug/l	--	--	--	ND(5.0)	--	--	ND(5.0)	--	--
4,6-DINITRO-O-CRESOL	ug/l	--	--	--	ND(5.0)	--	--	ND(5.0)	--	--
4-NITROPHENOL	ug/l	--	--	--	ND(5.0)	--	--	ND(5.0)	--	--
P-CHLORO-M-CRESOL	ug/l	--	--	--	ND(5.0)	--	--	ND(5.0)	--	--
PENTACHLOROPHENOL	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
PHENOL	ug/l	--	--	--	ND(3.0)	--	--	ND(3.0)	--	--
Base Neutrals/SVOC										
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	--	--	--	ND(5.0)	--	--	ND(5.0)	--	--
1,3-DICHLOROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
1,4-DICHLOROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
2,4-DINITROTOLUENE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
2,6-DINITROTOLUENE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
2-CHLORONAPHTHALENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
3,3'-DICHLOROBENZIDINE	ug/l	--	--	--	ND(5.0)	--	--	ND(5.0)	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
9H-FLUORENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
ACENAPHTHENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
ACENAPHTHYLENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
ANTHRACENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
BENZIDINE	ug/l	--	--	--	ND(5.0)	--	--	ND(5.0)	--	--
BENZO(A)ANTHRACENE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
BENZO(A)PYRENE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
BENZO(B)FLUORANTHENE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
BENZO(GHI)PERYLENE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
BENZO(K)FLUORANTHENE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	--	--	27.6	--	--	21.1	--	--
BUTYL BENZYL PHTHALATE	ug/l	--	--	--	7.6	--	--	6.9	--	--
CHRYSENE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--

Bayview Landfill Site
Burlington, Ontario

Table B.5
Surface Water QAQC Analytical Results

Location:		FBLK			FBLK1			FBLK2		
Sample Date:		05/04/87	11/16/89	04/10/91	05/28/86	04/27/92	04/07/93	05/28/86	07/20/92	04/19/94
Parameters	*Units*									
Base Neutrals/SVOC (Cont'd)										
DI-N-BUTYL PHTHALATE	ug/l	--	--	--	ND(1.0)	--	--	19.2	--	--
DI-N-OCTYL PHTHALATE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
DIETHYL PHTHALATE	ug/l	--	--	--	38.1	--	--	21.0	--	--
DIMETHYL PHTHALATE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
FLUORANTHENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
HEXACHLOROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
HEXACHLOROBUTADIENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
HEXACHLOROETHANE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
ISOPHORONE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	--	--	ND(3.0)	--	--	ND(3.0)	--	--
N-NITROSODIPHENYLAMINE	ug/l	--	--	--	ND(4.0)	--	--	ND(4.0)	--	--
NAPHTHALENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
NITROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
PHENANTHRENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	--
PYRENE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	--
General Chemistry										
ALKALINITY	mg/l	--	ND(2.0)	--	--	1.7		--	1.7	ND(1.0)
AMMONIA NITROGEN	mg/l	--	ND(0.03)	--	--	ND(0.03)	ND(0.03)	--	ND(0.03)	ND(0.01)
CHLORIDE	mg/l	--	ND(1.0) UJ	--	--	ND(0.10)		--	ND(0.10)	ND(0.10)
CONDUCTIVITY	umhos/cm	--	--	11.24	--	62.0	24	--	34	--
KJELDAHL NITROGEN	mg/l	--	ND(0.06) UJ	--	--	ND(0.06)		--	ND(0.06)	ND(0.10)
PH		--	--	5.5	--	7.88	8.39	--	7.95	--
SULFATE	mg/l	--	ND(1.0) UJ	--	--	ND(0.10)		--	ND(0.10)	--
TOTAL PHENOLS	ug/l	--	ND(1)	--	--	3	ND(1.0)	--	ND(1.0)	ND(1)
Volatile Organics										
1,1,1-TRICHLOROETHANE	ug/l	ND(1.0)	ND(0.50)	--	--	--	ND(1.0)	--	--	--
1,1,2,2-TETRACHLOROETHANE	ug/l	ND(1.0)	ND(0.33)	--	--	--	ND(2.0)	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	ND(1.0)	ND(0.21)	--	--	--	ND(2.0)	--	--	--
1,1-DICHLOROETHANE	ug/l	ND(1.0)	ND(0.20)	ND(1.0)	--	ND(1.0)	ND(1.0)	--	ND(1.0)	--
1,1-DICHLOROETHYLENE	ug/l	ND(1.0)	ND(0.32)	--	--	--	ND(1.0)	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	ND(1.0)	ND(0.50)	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	ND(0.18)	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	ND(1.0)	ND(0.24)	--	--	--	ND(1.0)	--	--	--
1,2-DICHLOROETHANE	ug/l	ND(1.0)	ND(0.82)	ND(1.0)	--	ND(1.0)	ND(1.0)	--	ND(1.0)	--

001206

Bayview Landfill Site
Burlington, Ontario

Table B.5
Surface Water QAQC Analytical Results

Location:		FBLK			FBLK1			FBLK2		
Sample Date:		05/04/87	11/16/89	04/10/91	05/28/86	04/27/92	04/07/93	05/28/86	07/20/92	04/19/94
Parameters	Units									
Volatile Organics (Cont'd)										
1,2-DICHLOROPROPANE	ug/l	ND(1.0)	ND(0.20)	–	–	–	ND(1.0)	–	–	–
1,3-DICHLOROBENZENE	ug/l	ND(1.0)	ND(0.23)	ND(1.0)	–	ND(1.0)	ND(1.0)	–	ND(1.0)	–
1,4-DICHLOROBENZENE	ug/l	ND(1.0)	ND(0.22)	ND(1.0)	–	ND(1.0)	ND(1.0)	–	ND(1.0)	–
2-CHLOROETHYLVINYLETHER	ug/l	–	–	–	–	–	ND(10)	–	–	–
BENZENE	ug/l	0.8	0.26	0.8	–	ND(0.5)	ND(0.5)	–	ND(0.5)	–
BROMOFORM	ug/l	1.3	ND(0.49)	–	–	–	ND(2.0)	–	–	–
BROMOMETHANE	ug/l	ND(2.0)	ND(0.83)	–	–	–	ND(2.0)	–	–	–
CARBON TETRACHLORIDE	ug/l	ND(1.0)	ND(0.93)	–	–	–	ND(1.0)	–	–	–
CHLOROBENZENE	ug/l	ND(0.5)	ND(0.27)	ND(0.5)	–	ND(0.5)	ND(0.5)	–	ND(0.5)	–
CHLOROETHANE	ug/l	ND(2.0)	ND(0.50)	–	–	–	ND(2.0)	–	–	–
CHLOROFORM	ug/l	2.0	0.43	–	–	–	ND(1.0)	–	–	–
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND(1.0)	ND(0.27)	–	–	–	ND(1.0)	–	–	–
DIBROMOCHLOROMETHANE	ug/l	ND(1.0)	ND(0.24)	–	–	–	ND(1.0)	–	–	–
DICHLOROBROMOMETHANE	ug/l	ND(1.0)	ND(0.50)	–	–	–	ND(2.0)	–	–	–
DICHLORODIFLUOROMETHANE	ug/l	ND(2.0)	–	–	–	–	–	–	–	–
DICHLOROFLUOROMETHANE	ug/l	–	ND(0.50)	–	–	–	–	–	–	–
ETHYLBENZENE	ug/l	0.6	ND(0.24)	ND(0.5)	–	ND(0.5)	ND(0.5)	–	ND(0.5)	–
M&P-XYLENE	ug/l	2.3	0.51	–	–	–	ND(0.5)	–	–	–
METHYL CHLORIDE	ug/l	ND(0.2)	ND(0.65)	–	–	–	ND(2.0)	–	–	–
METHYLENE CHLORIDE	ug/l	1.6	58	–	–	–	ND(1.0)	–	–	–
O-XYLENE	ug/l	ND(0.5)	ND(0.19)	0.8	–	ND(0.5)	ND(0.5)	–	ND(0.5)	–
TETRACHLOROETHYLENE	ug/l	9.2	ND(0.21)	ND(1.0)	–	ND(1.0)	ND(1.0)	–	ND(1.0)	–
TOLUENE	ug/l	ND(0.5)	1.58	5.4	–	ND(0.5)	ND(0.5)	–	ND(0.5)	–
TRANS-1,2-DICHLOROETHYLENE	ug/l	ND(1.0)	ND(0.20)	–	–	–	ND(1.0)	–	–	–
TRANS-1,3-DICHLOROPROPYLENE	ug/l	ND(1.0)	–	–	–	–	ND(1.0)	–	–	–
TRICHLOROETHYLENE	ug/l	ND(1.0)	ND(0.92)	ND(1.0)	–	ND(1.0)	ND(1.0)	–	ND(1.0)	–
TRICHLOROFLUOROMETHANE	ug/l	ND(2.0)	2.6	–	–	–	ND(2.0)	–	–	–
VINYL CHLORIDE	ug/l	ND(2.0)	ND(0.74)	–	–	–	ND(2.0)	–	–	–
Pesticides and PCB's										
2,4-DDT	ug/l	ND(0.020)	–	–	–	–	–	–	–	–
DIELDRIN	ug/l	ND(0.020)	–	–	–	–	–	–	–	–
GAMMA-BHC(LINDANE)	ug/l	ND(0.020)	–	–	–	–	–	–	–	–
HEPTACHLOR EPOXIDE	ug/l	ND(0.020)	–	–	–	–	–	–	–	–
Biological Testing										
FAECAL COLIFORM	/100ml	–	ND(2)	ND(2)	–	ND(1) (a)	ND(1) (a)	–	ND(1)	–
FAECAL STREPTOCOCCI	/100ml	–	0	ND(2)	–	ND(1) (a)	ND(1) (a)	–	ND(1)	–
TOTAL COLIFORMS	/100ml	–	ND(4)	ND(2)	–	ND(1) (a)	ND(1) (a)	–	ND(1)	–

Bayview Landfill Site
Burlington, Ontario

Table B.5
Surface Water QAQC Analytical Results

Location:		FBLK2		FBLK3	TBLK		
Sample Date:		04/20/94	07/07/94	05/28/86	05/28/86	05/04/87	11/16/89
Parameters	*Units*						
Acid Extractables							
2,4,6-TRICHLOROPHENOL	ug/l	--	--	ND(2.0)	--	--	--
2,4-DICHLOROPHENOL	ug/l	--	--	ND(2.0)	--	--	--
2,4-DIMETHYL PHENOL	ug/l	--	--	ND(2.0)	--	--	--
2,4-DINITROPHENOL	ug/l	--	--	ND(3.0)	--	--	--
2-CHLOROPHENOL	ug/l	--	--	ND(2.0)	--	--	--
2-NITROPHENOL	ug/l	--	--	ND(5.0)	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	--	--	ND(5.0)	--	--	--
4-NITROPHENOL	ug/l	--	--	13.3	--	--	--
P-CHLORO-M-CRESOL	ug/l	--	--	ND(5.0)	--	--	--
PENTACHLOROPHENOL	ug/l	--	--	ND(2.0)	--	--	--
PHENOL	ug/l	--	--	ND(3.0)	--	--	--
Base Neutrals/SVOC							
1,2,4-TRICHLOROBENZENE	ug/l	--	--	ND(1.0)	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	ND(1.0)	--	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	--	--	ND(5.0)	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	--	ND(1.0)	--	--	--
1,4-DICHLOROBENZENE	ug/l	--	--	ND(1.0)	--	--	--
2,4-DINITROTOLUENE	ug/l	--	--	ND(2.0)	--	--	--
2,6-DINITROTOLUENE	ug/l	--	--	ND(2.0)	--	--	--
2-CHLORONAPHTHALENE	ug/l	--	--	ND(1.0)	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	--	--	ND(5.0)	--	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	--	--	ND(1.0)	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	--	ND(1.0)	--	--	--
9H-FLUORENE	ug/l	--	--	ND(1.0)	--	--	--
ACENAPHTHENE	ug/l	--	--	ND(1.0)	--	--	--
ACENAPHTHYLENE	ug/l	--	--	ND(1.0)	--	--	--
ANTHRACENE	ug/l	--	--	ND(1.0)	--	--	--
BENZIDINE	ug/l	--	--	ND(5.0)	--	--	--
BENZO(A)ANTHRACENE	ug/l	--	--	ND(2.0)	--	--	--
BENZO(A)PYRENE	ug/l	--	--	ND(2.0)	--	--	--
BENZO(B)FLUORANTHENE	ug/l	--	--	ND(2.0)	--	--	--
BENZO(GHI)PERYLENE	ug/l	--	--	ND(2.0)	--	--	--
BENZO(K)FLUORANTHENE	ug/l	--	--	ND(2.0)	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	--	ND(2.0)	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	--	--	ND(1.0)	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	--	ND(1.0)	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	--	4.9	--	--	--
BUTYL BENZYL PHTHALATE	ug/l	--	--	4.6	--	--	--
CHRYSENE	ug/l	--	--	ND(2.0)	--	--	--

001208

Bayview Landfill Site
Burlington, Ontario

Table B.5
Surface Water QAQC Analytical Results

Location:		FBLK2		FBLK3	TBLK		
Sample Date:		04/20/94	07/07/94	05/28/86	05/28/86	05/04/87	11/16/89
Parameters	*Units*						
Base Neutrals/SVOC (Cont'd)							
DI-N-BUTYL PHTHALATE	ug/l	--	--	7.5	--	--	--
DI-N-OCTYL PHTHALATE	ug/l	--	--	ND(2.0)	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	--	--	ND(2.0)	--	--	--
DIETHYL PHTHALATE	ug/l	--	--	11.1	--	--	--
DIMETHYL PHTHALATE	ug/l	--	--	2.1	--	--	--
FLUORANTHENE	ug/l	--	--	ND(1.0)	--	--	--
HEXACHLOROBENZENE	ug/l	--	--	ND(1.0)	--	--	--
HEXACHLOROBUTADIENE	ug/l	--	--	ND(1.0)	--	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	--	--	ND(1.0)	--	--	--
HEXACHLOROETHANE	ug/l	--	--	ND(1.0)	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	--	--	ND(2.0)	--	--	--
ISOPHORONE	ug/l	--	--	ND(1.0)	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	--	ND(3.0)	--	--	--
N-NITROSODIPHENYLAMINE	ug/l	--	--	ND(4.0)	--	--	--
NAPHTHALENE	ug/l	--	--	ND(1.0)	--	--	--
NITROBENZENE	ug/l	--	--	ND(1.0)	--	--	--
PHENANTHRENE	ug/l	--	--	ND(1.0)	--	--	--
PYRENE	ug/l	--	--	ND(2.0)	--	--	--
General Chemistry							
ALKALINITY	mg/l	--	ND(1.0)	--	--	--	--
AMMONIA NITROGEN	mg/l	--	ND(0.01)	--	--	--	--
CHLORIDE	mg/l	--	ND(0.10)	--	--	--	--
CONDUCTIVITY	umhos/cm	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	ND(0.10)	--	--	--	--
PH		--	--	--	--	--	--
SULFATE	mg/l	--	ND(0.10)	--	--	--	--
TOTAL PHENOLS	ug/l	--	ND(1)	--	--	--	--
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND(1)	ND(1)	--	ND(1.0)	ND(1.0)	ND(0.50)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	ND(1.0)	1.6	ND(0.33)
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	ND(1.0)	2.6	ND(0.21)
1,1-DICHLOROETHANE	ug/l	ND(1)	ND(1)	--	ND(1.0)	ND(1.0)	ND(0.20)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	ND(1.0)	ND(1.0)	ND(0.32)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	ND(1.0)	ND(0.50)
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	ND(1.0)	ND(1.0)	ND(0.24)
1,2-DICHLOROETHANE	ug/l	ND(1)	ND(1)	--	ND(1.0)	3.2	ND(0.82)

Bayview Landfill Site
Burlington, Ontario

Table B.5
Surface Water QAQC Analytical Results

Location:		FBLK2		FBLK3	TBLK		
Sample Date:		04/20/94	07/07/94	05/28/86	05/28/86	05/04/87	11/16/89
Parameters	*Units*						
Volatile Organics (Cont'd)							
1,2-DICHLOROPROPANE	ug/l	--	--	--	ND(1.0)	ND(1.0)	ND(0.20)
1,3-DICHLOROBENZENE	ug/l	ND(1)	ND(1)	--	ND(1.0)	ND(1.0)	ND(0.23)
1,4-DICHLOROBENZENE	ug/l	ND(1)	ND(1)	--	ND(1.0)	ND(1.0)	ND(0.22)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	ND(0.50)
BENZENE	ug/l	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.19)
BROMOFORM	ug/l	--	--	--	ND(1.0)	ND(1.0)	ND(0.49)
BROMOMETHANE	ug/l	--	--	--	ND(2.0)	ND(2.0)	ND(0.83)
CARBON TETRACHLORIDE	ug/l	--	--	--	ND(1.0)	ND(1.0)	ND(0.93)
CHLOROBENZENE	ug/l	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.27)
CHLOROETHANE	ug/l	--	--	--	ND(2.0)	ND(2.0)	ND(0.50)
CHLOROFORM	ug/l	--	--	--	ND(1.0)	1.3	3.3
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	ND(1.0)	ND(1.0)	ND(0.27)
DIBROMOCHLOROMETHANE	ug/l	--	--	--	ND(1.0)	ND(1.0)	ND(0.24)
DICHLOROBROMOMETHANE	ug/l	--	--	--	ND(1.0)	ND(1.0)	ND(0.50)
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	ND(2.0)	ND(2.0)	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	ND(0.50)
ETHYLBENZENE	ug/l	ND(0.5)	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.24)
M&P-XYLENE	ug/l	ND(0.5)	ND(0.5)	--	1.3	ND(0.5)	0.25
METHYL CHLORIDE	ug/l	--	--	--	ND(2.0)		ND(0.65)
METHYLENE CHLORIDE	ug/l	--	--	--	1.8	ND(0.5)	1.35
O-XYLENE	ug/l	--	ND(0.5)	--	0.8	ND(0.5)	ND(0.19)
TETRACHLOROETHYLENE	ug/l	ND(1)	ND(1)	--	ND(1.0)	2.0	ND(0.21)
TOLUENE	ug/l	ND(0.5)	ND(0.5)	--	3.11	ND(0.5)	ND(0.24)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	ND(1.0)	ND(1.0)	ND(0.20)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	ND(1.0)	ND(1.0)	--
TRICHLOROETHYLENE	ug/l	ND(1)	ND(1)	--	ND(1.0)	ND(1.0)	ND(0.92)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	ND(2.0)	ND(2.0)	ND(0.26)
VINYL CHLORIDE	ug/l	--	--	--	ND(2.0)	ND(2.0)	ND(0.74)
Pesticides and PCB's							
2,4-DDT	ug/l	--	--	--	--	--	--
DIELDRIN	ug/l	--	--	--	--	--	--
GAMMA-BHC(LINDANE)	ug/l	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	ug/l	--	--	--	--	--	--
Biological Testing							
FAECAL COLIFORM	/100ml	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

APPENDIX G-2

GROUNDWATER

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC1-1			HC2-1			HC4-1	
Sample Date:			06/15/87	08/17/87	08/17/87 Dupl.	06/15/87	06/15/87 Dupl.	08/17/87	05/12/88	08/16/88
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	--	--	--	--	--	--	82	79
AMMONIA NITROGEN	mg/l	--	0.21	0.32	0.21	0.77	0.76	0.87	ND(0.02)	9.28
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	--	--	--	--	--	--	9750	9000
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	6250	5530	5580	1370	1380	1763	19460	18290
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	0.26	0.39	0.26	0.94	0.93	1.06	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	2.56	0.37	0.64	5.16	2.84	1.00	11	9.3
ORGANIC NITROGEN	mg/l	--	2.35	0.05	0.43	4.39	2.08	0.13	--	--
PH		6.5-8.5	7.16	7.07	7.09	7.44	7.53	7.54	6.29	6.93
SULFATE	mg/l	--	--	--	--	--	--	--	2510	2230
TOTAL PHENOLS	ug/l	--	--	--	--	--	--	--	ND(1.0)	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	ND(1)	ND(1)
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	ND(1)	ND(1)
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	ND(1)	ND(1)

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC4-1	HC4-2						
Sample Date:			11/16/89	05/12/88	08/16/88	07/25/89	11/16/89	04/10/90	08/01/90	04/10/91
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	297	328	333	298	248	84	258	226
AMMONIA NITROGEN	mg/l	--	ND(0.03)	ND(0.02)	ND(0.02)	ND(0.02)	0.91 J	13.0	7.63	5.17
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	26	136	35	58	860	6778	655	920
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	1249	5480	20900	2200	2850	12300	3810	3450
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.20 J	5.42	0.95	0.59	1.15 J	16.8	12.4	8.47
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.30	7.15	7.07	6.80	7.70	7.09	6.92	6.5
SULFATE	mg/l	--	659	1050	1100	444	861	--	--	--
TOTAL PHENOLS	ug/l	--	--	ND(1.0)	--	--	--	ND(1)	1 J	ND(1)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	48	ND(1)	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	12	2	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	200	55	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC4-2							
Sample Date:			04/10/91	07/09/91	04/27/92	07/20/92	04/07/93	07/02/93	04/19/94	07/06/94
			Dupl.							
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	210	253	216	226	212	209	242	328
AMMONIA NITROGEN	mg/l	--	4.10	1.58	5.18	4.49	7.00	4.60	3.21	0.06
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	852	710	653	522	713	646	475	20.3
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	--	3150	3600	8910	3400	4800	4500	1200
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	7.10	2.34	5.51	5.03	7.28	5.44	3.81	1.32
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	--	7.0	7.60	6.93	7.11	7.4	7.4	7.3
SULFATE	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	ND(1)	1	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC4-2				HC4-3			
Sample Date:			07/06/94	04/05/95	07/11/95	07/11/95	07/25/89	11/16/89	04/10/90	08/01/90
			Dupl.			Dupl.				
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	318	183	264	266	317	326	330	400
AMMONIA NITROGEN	mg/l	--	0.05	5.97	2.70	2.70	ND(0.02)	ND(0.03) UJ	0.42	0.27
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	19.4	629	400	388	32	30	68.0	15.0
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	1200	3700	4000	4000	1030	1988	2240	1740
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	1.61	8.70	2.56	2.83	1.84	ND(0.06) UJ	0.68	0.83 U
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.3	8.8	7.0	7.0	6.90	7.20	7.15	6.73
SULFATE	mg/l	--	--	--	--	--	1530	1775	--	--
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1)	1	--	--	ND(1)	2 J
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC4-3							HC4-4
Sample Date:			04/10/91	07/09/91	04/27/92	07/20/92	04/07/93	07/02/93	07/02/93 Dupl.	07/25/89
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	320	333	326	302	330	308	300	210
AMMONIA NITROGEN	mg/l	--	ND(0.03)	0.35	0.06	0.18	0.14	ND(0.03)	0.35	5.49
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	29.8	19.4	29.2	20.6	30.6	23.0	78.7	710
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	1610	1072	1620	3640	1600	1950	--	9760
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	ND(0.06)	0.65	0.15	0.47	1.03	3.53	4.73	9.45
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	6.5	7.1	7.33	6.83	7.08	7.3	--	6.99
SULFATE	mg/l	--	--	--	--	--	--	--	--	3080
TOTAL PHENOLS	ug/l	--	ND(1)	2	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC4-4							
Sample Date:			11/16/89	04/10/90	08/01/90	04/10/91	07/09/91	04/27/92	07/20/92	04/07/93
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	320	512	436	306	336	327	325	368
AMMONIA NITROGEN	mg/l	--	ND(0.03) UJ	0.05	0.43	ND(0.03)	0.36	0.04	0.11	0.03
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	26.0	28.0	15.0	27.6	14.6	26.1	17.0	36.2
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	1820	1478	1810	1323	1015	1450	3300	1200
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.40 J	1.28	1.08 U	ND(0.06)	1.15	0.14	0.39	0.60
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.10	7.25	7.03	6.5	7.0	7.43	7.00	7.16
SULFATE	mg/l	--	1348	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC4-4					HC6-1	HC6-2	HC6-3
Sample Date:			07/02/93	04/19/94	07/06/94	04/05/95	07/11/95	11/16/89	11/16/89	07/25/89
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	321	329	311	176	332	216	148	107
AMMONIA NITROGEN	mg/l	--	ND(0.03)	0.42	ND(0.01)	0.07	0.01 U	4.59 J	5.13 J	13.40
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	26.5	25.1	23.1	50.0	20.9	2524	2799	10700
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	2000	1700	1900	1500	1700	5720	5950	1840
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	3.04	3.30	0.66	1.66	1.39	7.21 J	6.20 J	13.40
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.6	7.3	7.2	7.6	7.2	7.00	7.00	7.10
SULFATE	mg/l	--	--	--	--	--	--	979	1805	2530
TOTAL PHENOLS	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC6-3	HC6-4	HC7-1					
Sample Date:			11/16/89	11/16/89	07/25/89	11/16/89	04/10/90	08/01/90	04/10/91	07/09/91
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	ND(2.0) NS	156	44	374	202	54	66	99
AMMONIA NITROGEN	mg/l	--	ND(0.03) NS	4.80 J	10.4	7.61 J	11.3	14.3	11.2	1.42
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	115	2724	6750	6198	5418	5478	11717	5350
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	NS	6030	12050	8840	9800	8750	9140	7560
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	ND(0.06) NS	5.42 J	12.10	10.9 J	15.9	21.9	16.4	5.70
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	NS	7.00	7.08	6.80	7.05	6.56	7.0	6.6
SULFATE	mg/l	--	203	1390	1470	1531	--	--	--	--
TOTAL PHENOLS	ug/l	--	--	--	--	--	ND(1)	1 J	ND(1)	ND(1)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC7-1							
Sample Date:			04/27/92	07/20/92	07/20/92 Dupl.	04/07/93	04/07/93 Dupl.	07/02/93	04/19/94	04/20/94
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	56	97	87	91.4	88.4	59.2	70.0	--
AMMONIA NITROGEN	mg/l	--	9.37	8.03	7.84	8.50	9.50	6.40	8.67	--
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	4315	4240	4364	5148	4992	4408	3483	--
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	12400	2800	2800	8200	--	12000	11300	--
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	10.8	9.59	8.76	8.62	10.1	7.11	9.07	--
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	6.28	7.55	7.55	7.07	--	7.5	--	7.3
SULFATE	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	2.2	ND(1)	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC7-1				HC7-2			
Sample Date:			07/06/94	04/05/95	04/05/95 Dupl.	07/11/95	07/25/89	11/16/89	04/10/90	08/01/90
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	75.0	137	170	68.5	348	358	339	300
AMMONIA NITROGEN	mg/l	--	8.99	1.82	1.94	9.08	0.18	0.91 J	1.48	4.43
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	5426	1110	1273	5055	156	144	156	190
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	8800	4800	4800	9200	1202	1230	1223	1390
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	12.0	2.49	2.85	9.23	0.67	1.33 J	2.53	6.64
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.3	7.8	7.8	7.6	6.82	7.20	7.08	6.61
SULFATE	mg/l	--	--	--	--	--	248	205	--	--
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	--	--	ND(1)	ND(1)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC7-2							
Sample Date:			08/01/90	04/10/91	07/09/91	04/27/92	04/27/92	07/20/92	04/07/93	07/02/93
			Dupl.				Dupl.			
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	338	312	286	373	382	335	370	360
AMMONIA NITROGEN	mg/l	--	3.75	1.04	0.64	0.70	0.48	1.44	0.90	ND(0.03)
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	230	131	208	110	107	159	50.0	47.3
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	--	1285	1386	18000	18000	21000	740	890
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	8.60	1.50	1.86	0.89	0.59	1.80	1.03	0.63
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	--	7.0	7.0	6.56	6.56	7.63	7.26	7.7
SULFATE	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	9 J	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	2.2
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC7-2					HC7-3		HC9-1
Sample Date:			04/19/94	04/19/94 Dupl.	07/06/94	04/05/95	07/11/95	07/25/89	11/16/89	06/15/87
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	370	366	378	184	352	354	372	--
AMMONIA NITROGEN	mg/l	--	ND(0.01) UJ	0.19 J	0.22	0.27	0.52	ND(0.02)	ND(0.03) UJ	3.52
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	100	81.3	66.1	144	146	84	124	--
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	1000	1000	900	1400	1100	849	1037	20000
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	4.29
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.18 J	0.92 J	0.30	0.53	0.59	2.20	4.99 J	11.40
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	7.88
PH		6.5-8.5	7.2	7.2	7.5	7.6	7.2	6.74	7.30	6.49
SULFATE	mg/l	--	--	--	--	--	--	88.8	95.0	--
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC9-1			HC9-2				
Sample Date:			08/17/87	12/29/87	11/16/89	12/29/87	12/29/87 Dupl.	05/12/88	08/16/88	07/25/89
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	--	--	37.4	--	--	38	30	35
AMMONIA NITROGEN	mg/l	--	11.50	5.45	19.3 J	3.95	4.95	ND(0.02)	19.2	21.2
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	--	--	34889	--	--	17400	22500	17200
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	20000	10900	20000	42000	42000	42800	99000	9990
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	14.00	6.65	--	4.82	6.04	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	13.40	13.50	26.6 J	8.25	9.05	16.5	20.1	24.8
ORGANIC NITROGEN	mg/l	--	1.90	8.05	--	4.30	4.10	--	--	--
PH		6.5-8.5	7.09	6.93	6.70	6.64	6.64	6.78	6.9	6.11
SULFATE	mg/l	--	--	--	1318	--	--	1870	1840	1660
TOTAL PHENOLS	ug/l	--	--	--	--	--	--	ND(1.0)	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	60	ND(1)	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	ND(1)	ND(1)	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	65	60	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC9-2							
Sample Date:			11/16/89	04/10/90	08/01/90	07/09/91	07/09/91 Dupl.	04/27/92	07/20/92	04/07/93
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	22.9	61	35	65	58	50	42	45.0
AMMONIA NITROGEN	mg/l	--	15.7 J	16.7	25.5	2.00	1.59	18.3	17.0	22.0
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	16895	15695	16395	17056	16333	14281	17150	15466
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	15800	18820	15060	1515	--	18520	6080	16000
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	17.6 J	19.5	33.0	7.25	7.35	23.5	19.7	23.5
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	6.70	6.80	6.46	6.6	--	6.69	6.75	6.91
SULFATE	mg/l	--	1653	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	--	ND(1)	2 J	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC9-2					HC9-3		
Sample Date:			07/02/93	04/19/94	07/06/94	04/05/95	07/11/95	06/15/87	08/17/87	07/25/89
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	32.4	32.5	56.0	22.4	71.5	--	--	388
AMMONIA NITROGEN	mg/l	--	9.78	13.6	16.8	13.2	7.55	0.76	0.52	1.61
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	16178	16878	14092	11227	5973	--	--	190
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	27500	19900	19000	>19000	12800	3080	3660	1930
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	0.92	0.67	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	13.7	21.5	21.8	17.4	7.55	9.14	0.52	2.08
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	8.38	0.00	--
PH		6.5-8.5	7.1	7.1	7.0	7.8	7.3	7.39	7.34	6.92
SULFATE	mg/l	--	--	--	--	--	--	--	--	1060
TOTAL PHENOLS	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC9-3							
Sample Date:			11/16/89	11/16/89 Dupl.	04/10/90	08/01/90	04/10/91	07/09/91	04/27/92	07/20/92
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	322	322	2874	300	322	294	360	320
AMMONIA NITROGEN	mg/l	--	0.58 J	0.25 J	0.52	1.20	ND(0.03)	0.71	0.52	0.93
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	186	186	236	262	124	272	115	176
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	2020	2020	2420	2020	1428	2430	29500	5400
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.70 J	0.39 J	7.22	1.43 U	ND(0.06)	1.29	0.75	1.07
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.40	7.40	7.20	6.57	7.0	7.1	6.54	7.23
SULFATE	mg/l	--	1196	1257	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	--	--	1	2 J	ND(1)	ND(1)	ND(1)	ND(1.0)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			HC9-3						HC9-4	MB11-1
Sample Date:			04/07/93	07/02/93	04/19/94	07/06/94	04/05/95	07/11/95	11/16/89	06/15/87
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	377	354	369	324	273	302	349	--
AMMONIA NITROGEN	mg/l	--	1.80	ND(0.03)	0.20	0.28	0.60	0.45	ND(0.03) UJ	2.46
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	82.6	91.7	81.9	139	269	232	112	--
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	1300	1650	1500	2200	3800	2000	1790	2760
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	3.00
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	3.11	2.44	0.27	1.33	1.28	0.45	1.55 J	4.02
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	1.56
PH		6.5-8.5	7.27	7.6	7.6	7.7	7.8	7.2	7.70	6.71
SULFATE	mg/l	--	--	--	--	--	--	--	435	--
TOTAL PHENOLS	ug/l	--	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			MB11-1	MB11-3		MB13-2	MB13-3			MB16-1
Sample Date:			08/17/87	06/15/87	08/17/87	12/29/87	08/17/87	12/29/87	04/16/88	06/15/87
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	--	--	--	--	--	--	--	--
AMMONIA NITROGEN	mg/l	--	1.32	8.98	4.26	2.20	2.95	1.98	7.48	ND(0.02)
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	--	--	--	--	--	--	--	--
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	2800	13800	12300	9610	8360	7300	8650	2650
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	1.61	10.90	5.20	2.68	3.60	2.42	9.13	ND(0.02)
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	1.34	9.82	5.44	4.26	5.18	3.70	9.62	4.26
ORGANIC NITROGEN	mg/l	--	0.02	0.84	1.18	2.06	2.23	1.72	2.14	4.26
PH		6.5-8.5	6.80	7.17	7.26	7.02	7.27	7.31	7.25	6.99
SULFATE	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	--	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			MB16-1	MB16-2	MB16-3			MB17-1		MB17-3
Sample Date:			08/17/87	12/29/87	06/15/87	08/17/87	12/29/87	06/15/87	08/17/87	06/15/87
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	--	--	--	--	--	--	--	--
AMMONIA NITROGEN	mg/l	--	0.26	0.10	2.48	1.24	0.80	0.31	2.14	7.52
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	--	--	--	--	--	--	--	--
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	2580	705	1470	2020	2020	1820	2200	18400
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	0.31	0.12	3.02	1.51	0.98	0.37	2.61	9.17
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	0.31	1.65	4.00	1.45	2.28	8.58	2.20	10.70
ORGANIC NITROGEN	mg/l	--	0.05	1.55	1.52	0.21	1.48	8.27	0.06	3.18
PH		6.5-8.5	7.04	7.28	11.01	10.98	10.89	7.45	7.12	6.79
SULFATE	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	--	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			MB17-3			MB18-1		MB18-2	OW10-87	OW12-87
Sample Date:			06/15/87	08/17/87	12/29/87	06/15/87	08/17/87	12/29/87	07/02/93	07/02/93
			Dupl.							
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	--	--	--	--	--	--	--	--
AMMONIA NITROGEN	mg/l	--	7.56	7.66	3.70	0.04	0.26	2.40	--	--
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	--	--	--	--	--	--	--	--
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	16900	18760	26200	1530	1630	13150	840	820
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	9.22	9.34	4.51	0.05	0.32	2.93	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	11.00	9.94	5.90	3.52	0.38	6.20	--	--
ORGANIC NITROGEN	mg/l	--	3.44	2.28	2.20	3.48	0.12	3.80	--	--
PH		6.5-8.5	6.78	6.93	6.80	7.15	7.02	8.60	8.3	8.4
SULFATE	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	--	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			OW13-88	OW1A-93		OW1B-93		OW2A-93		OW2B-93
Sample Date:			07/02/93	03/26/93	04/07/93	03/26/93	04/07/93	03/26/93	04/07/93	03/26/93
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	--	142	41.4	187	207	289	320	489
AMMONIA NITROGEN	mg/l	--	--	--	10.0	--	5.80	--	2.60	--
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	--	5780	5994	1150	936	370	78.5	96
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	920	10300	2000	4100	3800	2100	2050	1000
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	--	--	10.2	--	6.48	--	2.82	--
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	8.4	7.65	9.28	7.15	6.68	6.85	6.90	6.90
SULFATE	mg/l	--	--	2380	--	1770	--	1300	--	263
TOTAL PHENOLS	ug/l	--	--	--	1.8	--	ND(1.0)	--	ND(1.0)	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			OW2B-93	OW3-93			OW4-93		OW6-87	OW7-87
Sample Date:			04/07/93	03/26/93	03/26/93 Dupl.	04/07/93	03/26/93	04/07/93	07/02/93	07/02/93
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	466	429	428	438	407	440	--	--
AMMONIA NITROGEN	mg/l	--	0.08	--	--	0.74	--	0.18	--	--
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	68.9	71	73	49.8	112	32.6	--	--
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	925	790	--	820	1340	1200	610	1000
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	1.43	--	--	1.14	--	1.64	--	--
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	6.95	7.02	--	7.02	7.05	7.06	8.4	8.2
SULFATE	mg/l	--	--	116	117	--	1050	--	--	--
TOTAL PHENOLS	ug/l	--	ND(1.0)	--	--	ND(1.0)	--	ND(1.0)	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

001234

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			OW8-87	PW1						
Sample Date:			07/02/93	05/12/88	08/16/88	07/25/89	07/25/89 Dupl.	11/16/89	11/16/89 Dupl.	04/10/90
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	--	643	112	61.3	65.7	123	121	80
AMMONIA NITROGEN	mg/l	--	--	ND(0.02)	3.39	8.09	8.09	2.77 J	2.78 J	6.45
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	--	2600	695	2410	2450	614	650	2251
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	800	10000	36200	7120	7120	2930	2930	6390
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	--	5.37	3.35	8.65	8.45	2.99 J	3.72 J	8.40
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	8.4	7.3	7.65	7.47	7.47	7.30	7.30	7.44
SULFATE	mg/l	--	--	2420	1330	1930	2180	1348	1470	--
TOTAL PHENOLS	ug/l	--	--	ND(1.0)	--	--	--	--	--	ND(1)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	ND(1)	ND(1)	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	ND(1)	ND(1)	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	ND(1)	ND(1)	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			PW1							
Sample Date:			09/27/90	04/10/91	04/10/91 Dupl.	07/09/91	07/09/91 Dupl.	04/27/92	07/20/92	04/07/93
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	49.4	84	81	98	83	76	65	93.4
AMMONIA NITROGEN	mg/l	--	5.27	6.39	7.85	1.59	1.99	7.24	7.32	6.50
BOD	mg/l	--	ND(5)	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	2209	4916	5801	3077	2502	2288	2424	2536
COD	mg/l	--	90	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	6890	5550	--	4880	--	5680	14500	5800
FLUORIDE	mg/l	--	0.4	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	2100	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	5.77	8.94	9.99	2.90	3.19	9.10	8.03	6.63
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	6.83	7.0	--	7.4	--	7.21	7.42	7.17
SULFATE	mg/l	--	2746	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
TOTAL SUSPENDED SOLIDS	mg/l	--	8	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	ND(0.005)	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			PW1							
Sample Date:			04/07/93	07/02/93	07/02/93	04/19/94	04/20/94	07/06/94	07/06/94	04/05/95
			Dupl.		Dupl.				Dupl.	
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	93.8	55.6	56.2	--	110	77	62	66.5
AMMONIA NITROGEN	mg/l	--	7.00	5.72	5.50	--	4.27	7.05	6.05	8.05
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	2095	2510	2488	--	1014	2604	2154	2440
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	--	7200	--	5700	--	6700	6700	11100
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	7.44	6.46	6.42	--	4.36	13.7	13.4	12.4
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	--	7.8	--	--	7.6	7.5	7.5	7.6
SULFATE	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	--	ND(1)	ND(1)	ND(1)	ND(1)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

001237

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			PW1		PW3					
Sample Date:			07/11/95	07/11/95 Dupl.	05/12/88	05/12/88 Dupl.	08/16/88	08/16/88 Dupl.	07/25/89	11/16/89
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	59.0	59.5	563	559	568	568	648	666
AMMONIA NITROGEN	mg/l	--	7.52	6.93	ND(0.02)	ND(0.02)	1.87	1.87	1.04	0.89 J
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	2630	2856	938	948	850	970	580	516
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	10000	10000	4050	4050	4810	4810	2800	2880
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	7.66	7.44	1.91	1.73	2.42	3.19	1.04	1.22 J
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	7.6	7.6	6.5	6.5	6.81	6.81	6.55	7.00
SULFATE	mg/l	--	1883	1893	935	950	927	957	1020	1972
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1.0)	4	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	ND(1)	ND(1)	ND(1)	ND(1)	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	ND(1)	ND(1)	ND(1)	ND(1)	--	--
TOTAL COLIFORMS	/100ml	--	--	--	ND(1)	ND(1)	60	60	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			PW3							
Sample Date:			04/10/90	04/10/90 Dupl.	09/27/90	04/10/91	07/09/91	04/27/92	04/27/92 Dupl.	07/20/92
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	528	534	527	566	562	557	568	438
AMMONIA NITROGEN	mg/l	--	2.26	1.90	0.87	1.54	0.76	1.00	1.02	0.96
BOD	mg/l	--	--	--	26	--	--	--	--	--
CHLORIDE	mg/l	--	964	844	595	626	979	620	592	583
COD	mg/l	--	--	--	65	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	3770	3770	2910	2190	2390	2600	2600	6400
FLUORIDE	mg/l	--	--	--	ND(0.1)	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	1740	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	3.32	3.46	2.00	1.95	1.52	1.32	1.24	1.63
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	6.76	6.76	6.87	6.5	6.6	7.37	7.37	8.04
SULFATE	mg/l	--	--	--	1648	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	1	ND(1)	ND(1)	1	ND(1)	ND(1)	ND(1)	ND(1.0)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	820	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	0.158	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			PW3							
Sample Date:			07/20/92	04/07/93	07/02/93	04/19/94	04/19/94	04/20/94	04/20/94	07/06/94
			Dupl.				Dupl.		Dupl.	
Parameters	*Units*	*MOE Obj.*								
General Chemistry										
ALKALINITY	mg/l	30-500	439	541	513	--	--	556	558	566
AMMONIA NITROGEN	mg/l	--	1.10	2.60	0.64	--	--	1.07	1.08	0.89
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	578	677	458	--	--	404	290	407
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	6400	2800	2400	2900	2900	--	--	2200
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	1.15	2.87	1.53	--	--	1.30	1.32	1.19
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		6.5-8.5	8.04	6.92	8.0	--	--	7.5	7.5	6.8
SULFATE	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	2	ND(1.0)	ND(1.0)	--	--	ND(1)	ND(1)	ND(1)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.1
General Chemistry, Metals, Biological Testing
Groundwater Analytical Results

Location:			PW3		
Sample Date:			04/05/95	04/05/95 Dupl.	07/11/95
Parameters	*Units*	*MOE Obj.*			
General Chemistry					
ALKALINITY	mg/l	30-500	302	244	560
AMMONIA NITROGEN	mg/l	--	1.26	1.27	0.92
BOD	mg/l	--	--	--	--
CHLORIDE	mg/l	--	511	522	427
COD	mg/l	--	--	--	--
CONDUCTIVITY	umhos/cm	--	3900	3900	2300
FLUORIDE	mg/l	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--
HARDNESS	mg/l	80-100	--	--	--
KJELDAHL NITROGEN	mg/l	--	2.31	2.24	1.32
ORGANIC NITROGEN	mg/l	--	--	--	--
PH		6.5-8.5	7.3	7.3	7.4
SULFATE	mg/l	--	--	--	--
TOTAL PHENOLS	ug/l	--	ND(1)	ND(1)	ND(1)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--
Metals					
TOTAL PHOSPHORUS	mg/l	--	--	--	--
Biological Testing					
FAECAL COLIFORM	/100ml	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	0/100ml	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--

001241

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			HC4-1	HC4-2					HC4-3	
Sample Date:			08/16/88	08/16/88	11/16/89	04/27/92	07/11/95	07/11/95 Dupl.	07/09/91	07/02/93
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.50)	ND(1.0)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.33)	--	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.21)	--	--	--	--	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.20)	ND(1.0)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.32)	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	ND(0.50)	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.24)	--	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.82)	ND(1.0)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.20)	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.23)	ND(1.0)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.22)	ND(1.0)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
2-BUTANONE	ug/l	--	--	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	ND(0.50)	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
ACETONE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.19)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	ND(1.0)	ND(1.0)	ND(0.49)	--	--	--	--	--
BROMOMETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(0.83)	--	--	--	--	--
CARBON TETRACHLORIDE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.93)	--	--	--	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.27)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(0.50)	--	--	--	--	--
CHLOROFORM	ug/l	--	ND(1.0)	ND(1.0)	3.4 U	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.27)	--	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.24)	--	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.50)	--	--	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	ND(2.0)	ND(0.50)	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	ND(2.0)	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.24)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.21)	ND(0.5)	--	--	ND(0.5)	ND(0.5)
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	ND(2.0)	ND(2.0)	ND(0.65) UJ	--	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	ND(1.0)	ND(1.0)	3.5 J	--	--	--	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.19)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	ND(0.5)	ND(0.5)	--	--
STYRENE	ug/l	--	--	--	--	--	--	--	--	--

001243

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			HC4-1	HC4-2					HC4-3	
Sample Date:			08/16/88	08/16/88	11/16/89	04/27/92	07/11/95	07/11/95 Dupl.	07/09/91	07/02/93
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.21)	ND(1.0)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
THF	ug/l	--	--	--	--	--	--	--	--	--
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	0.35	ND(0.5)	1.9 U	2.9 U	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.20)	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(1.0)	--	--	--	--	--	--
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(0.92)	ND(1.0)	ND(1)	ND(1)	ND(1.0)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(0.26)	--	--	--	--	--
VINYL CHLORIDE	ug/l	--	ND(2.0)	ND(2.0)	ND(0.74)	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			HC4-3	HC4-4				HC6-2	HC7-1	
Sample Date:			07/02/93	08/01/90	07/20/92	07/06/94	07/11/95	11/16/89	07/09/91	07/20/92
			Dupl.							
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(1)	ND(1)	ND(0.50)	ND(1.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	ND(2)	--	--	--	ND(0.33)	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	ND(2)	--	--	--	0.31 U	--	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(1)	ND(1)	ND(0.20)	ND(1.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	--	ND(1)	--	--	--	ND(0.32)	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	ND(0.50)	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	ND(1)	--	--	--	ND(0.24)	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(1)	ND(1)	ND(0.82)	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	--	ND(1)	--	--	--	ND(0.20)	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(1)	ND(1)	ND(0.23)	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(1)	ND(1)	ND(0.22)	ND(1.0)	ND(1.0)
2-BUTANONE	ug/l	--	--	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	ND(10)	--	--	--	ND(0.50)	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
ACETONE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5) U	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.19)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	ND(2)	--	--	--	ND(0.49)	--	--
BROMOMETHANE	ug/l	--	--	ND(2)	--	--	--	ND(0.83)	--	--
CARBON TETRACHLORIDE	ug/l	--	--	ND(1)	--	--	--	ND(0.93)	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.27)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	ND(2)	--	--	--	ND(0.50)	--	--
CHLOROFORM	ug/l	--	--	ND(1)	--	--	--	3.5 U	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	ND(1)	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1)	--	--	--	ND(0.27)	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	ND(1)	--	--	--	ND(0.24)	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	ND(2)	--	--	--	ND(0.50)	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	ND(0.50)	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.24)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	--	ND(0.5)	ND(0.5)	--	ND(0.21)	ND(0.5)	ND(0.5)
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	ND(2)	--	--	--	ND(0.65)	--	--
METHYLENE CHLORIDE	ug/l	--	--	ND(1)	--	--	--	ND(0.92)	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.19)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	ND(0.5)	--	--	--
STYRENE	ug/l	--	--	--	--	--	--	--	--	--

001245

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			HC4-3	HC4-4				HC6-2	HC7-1	
Sample Date:			07/02/93	08/01/90	07/20/92	07/06/94	07/11/95	11/16/89	07/09/91	07/20/92
			Dupl.							
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1)	ND(1.0)	ND(1)	ND(1)	ND(0.21)	ND(1.0)	ND(1.0)
THF	ug/l	--	--	--	--	--	--	--	--	--
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.24)	2.3	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	ND(1)	--	--	--	1.37 U	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1)	--	--	--	--	--	--
TRICHLOROETHANE	ug/l	--	ND(1.0)	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	--	ND(1)	ND(1.0)	ND(1)	ND(1)	ND(0.92)	ND(1.0)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	--	ND(2)	--	--	--	ND(0.26)	--	--
VINYL CHLORIDE	ug/l	--	--	ND(2)	--	--	--	0.94	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			HC7-1			HC7-2				
Sample Date:			07/20/92	07/06/94	07/11/95	08/01/90	08/01/90	07/20/92	07/02/93	07/11/95
			Dupl.				Dupl.			
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	ND(2)	ND(2)	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	ND(2)	ND(2)	--	--	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	ND(1)	ND(1)	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	ND(1)	ND(1)	--	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	ND(1)	ND(1)	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
2-BUTANONE	ug/l	--	--	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	ND(10)	ND(10)	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
ACETONE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5) U	ND(0.5) U	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	--	--	ND(2)	ND(2)	--	--	--
BROMOMETHANE	ug/l	--	--	--	--	ND(2)	ND(2)	--	--	--
CARBON TETRACHLORIDE	ug/l	--	--	--	--	ND(1)	ND(1)	--	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	--	ND(2)	ND(2)	--	--	--
CHLOROFORM	ug/l	--	--	--	--	ND(1)	ND(1)	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	ND(1)	ND(1)	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	ND(1)	ND(1)	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	ND(1)	ND(1)	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	ND(2)	ND(2)	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	--	--	--	ND(0.5)	ND(0.5)	--
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	ND(2)	ND(2)	--	--	--
METHYLENE CHLORIDE	ug/l	--	--	--	--	ND(1)	1.3 U	--	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	--	--	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	ND(0.5)	--	--	--	--	ND(0.5)
STYRENE	ug/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			HC7-1			HC7-2				
Sample Date:			07/20/92	07/06/94	07/11/95	08/01/90	08/01/90	07/20/92	07/02/93	07/11/95
			Dupl.				Dupl.			
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
THF	ug/l	--	--	--	--	--	--	--	--	--
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	3.3 U	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	1.4 U
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	ND(1)	ND(1)	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	ND(1)	ND(1)	--	--	--
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	ND(1.0)	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1.0)	--	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	ND(2)	ND(2)	--	--	--
VINYL CHLORIDE	ug/l	--	--	--	--	ND(2)	ND(2)	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			HC7-3	HC9-1		HC9-2				
Sample Date:			11/16/89	12/29/87	02/22/88	12/29/87	12/29/87 Dupl.	02/22/88	05/12/88	08/16/88
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(0.50)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.4)	ND(1.0)	ND(2)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(0.33)	ND(2)	ND(1.0)	ND(2)	ND(4)	ND(1.0)	ND(2)	ND(1.0)
1,1,2-TRICHLOROETHANE	ug/l	--	ND(0.21)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1)	ND(1.0)	ND(1)	ND(1.0)
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(0.20)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.4)	ND(1.0)	ND(1)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	ND(0.32)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.4)	ND(1.0)	ND(1)	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	--	ND(0.50)	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	ND(0.24)	ND(0.3)	ND(1.0)	ND(0.3)	ND(0.6)	ND(1.0)	ND(1)	ND(1.0)
1,2-DICHLOROETHANE	ug/l	--	ND(0.82)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.4)	ND(1.0)	ND(2)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	ND(0.20)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.4)	ND(1.0)	ND(1)	ND(1.0)
1,3-DICHLOROBENZENE	ug/l	--	ND(0.23)	ND(0.3)	ND(1.0)	ND(0.3)	ND(0.6)	ND(1.0)	ND(1)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(0.22)	ND(0.3)	ND(1.0)	ND(0.3)	ND(0.6)	ND(1.0)	ND(1)	ND(1.0)
2-BUTANONE	ug/l	--	--	--	4.49	--	--	(a)	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	ND(0.50)	ND(10)	--	ND(10)	ND(20)	--	ND(10)	--
A-METHYLSTYRENE	ug/l	--	--	ND(0.2)	--	ND(0.2)	ND(0.4)	--	ND(1)	--
ACETONE	ug/l	--	--	--	23.06	--	--	(a)	--	--
BENZENE	ug/l	--	ND(0.19)	ND(2)	0.62	ND(2)	ND(4)	ND(0.5)	ND(1)	ND(0.5)
BROMOFORM	ug/l	--	ND(0.49)	ND(2)	ND(1.0)	ND(2)	ND(4)	ND(1.0)	ND(2)	ND(1.0)
BROMOMETHANE	ug/l	--	ND(0.83)	ND(0.2)	ND(2.0)	ND(0.2)	ND(0.4)	ND(2.0)	ND(16)	ND(2.0)
CARBON TETRACHLORIDE	ug/l	--	ND(0.93)	ND(1)	ND(1.0)	ND(1)	ND(2)	ND(1.0)	ND(2)	ND(1.0)
CHLOROBENZENE	ug/l	--	ND(0.27)	ND(0.2)	ND(0.5)	ND(0.2)	ND(0.4)	ND(0.5)	ND(1)	ND(0.5)
CHLOROETHANE	ug/l	--	ND(0.50)	ND(0.2)	ND(2.0)	ND(0.2)	ND(0.4)	ND(2.0)	ND(10)	ND(2.0)
CHLOROFORM	ug/l	--	3.5 U	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.4)	ND(1.0)	ND(1)	ND(1.0)
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	--	ND(1.0)
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(0.27)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1)	ND(1.0)	ND(1)	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	--	ND(0.24)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.4)	ND(1.0)	ND(1)	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	--	ND(0.50)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.4)	ND(1.0)	ND(1)	ND(1.0)
DICHLORODIFLUOROMETHANE	ug/l	--	ND(0.50)	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	--	ND(2.0)
ETHYLBENZENE	ug/l	--	ND(0.24)	0.6	ND(0.5)	ND(0.2)	ND(0.4)	ND(0.5)	ND(1)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.21)	0.3	ND(0.5)	ND(0.3)	ND(0.6)	ND(0.5)	ND(2)	ND(0.5)
MESITYLENE	ug/l	--	--	ND(0.2)	--	ND(0.2)	ND(0.4)	--	ND(1)	--
METHYL CHLORIDE	ug/l	--	ND(0.65)	ND(0.2)	ND(2.0)	ND(0.2)	ND(0.4)	ND(2.0)	ND(50)	ND(2.0)
METHYLENE CHLORIDE	ug/l	--	2.2	ND(10)	2.47	ND(10)	ND(20)	3.37	ND(10)	ND(1.0)
METHYLSTYRENE ISOMERS	ug/l	--	--	ND(0.2)	--	ND(0.2)	ND(0.4)	--	ND(1)	--
O-XYLENE	ug/l	--	ND(0.19)	ND(0.2)	ND(0.5)	ND(0.2)	ND(0.4)	ND(0.5)	ND(1)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	ND(0.2)	--	ND(0.2)	ND(0.4)	--	ND(1)	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
STYRENE	ug/l	--	--	ND(0.2)	(a)	ND(0.2)	ND(0.4)	(a)	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			HC7-3	HC9-1		HC9-2				
Sample Date:			11/16/89	12/29/87	02/22/88	12/29/87	12/29/87 Dupl.	02/22/88	05/12/88	08/16/88
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	ND(0.21)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.4)	ND(1.0)	ND(1)	ND(1.0)
THF	ug/l	--	--	--	(a)	--	--	(a)	--	--
TOLUENE	ug/l	--	0.32	190	72.27	13	13	12.88	ND(2)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(0.20)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.4)	ND(1.0)	ND(1)	ND(1.0)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(0.2)	ND(1.0)	--	--	ND(1.0)	--	ND(1.0)
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(0.92)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.4)	ND(1.0)	ND(1)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	ND(0.26)	ND(0.5)	ND(2.0)	ND(0.5)	ND(1)	ND(2.0)	ND(2)	ND(2.0)
VINYL CHLORIDE	ug/l	--	ND(0.74)	ND(0.5)	ND(2.0)	ND(0.5)	ND(1)	ND(2.0)	ND(12)	ND(2.0)

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			HC9-2				HC9-3			
Sample Date:			07/09/91	07/09/91 Dupl.	07/20/92	07/06/94	11/16/89	11/16/89 Dupl.	08/01/90	07/02/93
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(0.50)	ND(0.50)	ND(1)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	--	ND(0.33)	ND(0.33)	ND(2)	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	--	ND(0.21)	ND(0.21)	ND(2)	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(0.20)	ND(0.20)	ND(1)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	--	ND(0.32)	ND(0.32)	ND(1)	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	ND(0.50)	ND(0.50)	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	ND(0.24)	ND(0.24)	ND(1)	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(0.82)	ND(0.82)	ND(1)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	--	ND(0.20)	ND(0.20)	ND(1)	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(0.23)	ND(0.23)	ND(1)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(0.22)	ND(0.22)	ND(1)	ND(1.0)
2-BUTANONE	ug/l	--	--	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	ND(0.50)	ND(0.50)	ND(10)	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
ACETONE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.19)	ND(0.19)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	--	--	--	ND(0.49)	ND(0.49)	ND(2)	--
BROMOMETHANE	ug/l	--	--	--	--	--	ND(0.83)	ND(0.83)	ND(2)	--
CARBON TETRACHLORIDE	ug/l	--	--	--	--	--	ND(0.93)	ND(0.93)	ND(1)	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.27)	ND(0.27)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	--	--	ND(0.50)	ND(0.50)	ND(2)	--
CHLOROFORM	ug/l	--	--	--	--	--	3.0 U	2.4 U	ND(1)	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	ND(1)	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	ND(0.27)	ND(0.27)	ND(1)	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	--	ND(0.24)	ND(0.24)	ND(1)	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	--	ND(0.50)	ND(0.50)	ND(2)	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	ND(0.50)	ND(0.50)	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.21)	ND(0.21)	--	ND(0.5)
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	--	1.09 U	ND(0.65) U	ND(2)	--
METHYLENE CHLORIDE	ug/l	--	--	--	--	--	3.3	4.2	ND(1)	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.19)	ND(0.19)	--	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
STYRENE	ug/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			HC9-2				HC9-3			
Sample Date:			07/09/91	07/09/91 Dupl.	07/20/92	07/06/94	11/16/89	11/16/89 Dupl.	08/01/90	07/02/93
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(0.21)	ND(0.21)	ND(1)	ND(1.0)
THF	ug/l	--	--	--	--	--	--	--	--	--
TOLUENE	ug/l	--	0.7	0.7	ND(0.5)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	ND(0.20)	ND(0.20)	ND(1)	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	ND(1)	--
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	ND(1.0)
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(0.92)	ND(0.92)	ND(1)	--
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	ND(0.26)	ND(0.26)	ND(2)	--
VINYL CHLORIDE	ug/l	--	--	--	--	--	ND(0.74)	ND(0.74)	ND(2)	--

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			MB13-2	MB13-3	MB16-1	MB16-2	MB16-3	MB17-1		MB17-3
Sample Date:			12/29/87	12/29/87	02/22/88	12/29/87	12/29/87	02/22/88	02/22/88 Dupl.	12/29/87
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	0.5	0.4	1.0	ND(0.2)	1.2	ND(1.0)	ND(1.0)	ND(0.2)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(4)	ND(2)	ND(1.0)	ND(2)	ND(2)	ND(1.0)	ND(1.0)	ND(2)
1,1,2-TRICHLOROETHANE	ug/l	--	ND(1)	ND(0.5)	ND(1.0)	ND(0.5)	ND(0.5)	ND(1.0)	ND(1.0)	ND(0.5)
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(0.4)	ND(0.2)	ND(1.0)	ND(0.2)	0.3	ND(1.0)	ND(1.0)	ND(0.2)
1,1-DICHLOROETHYLENE	ug/l	--	ND(0.4)	ND(0.2)	ND(1.0)	ND(0.2)	0.6	ND(1.0)	ND(1.0)	ND(0.2)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	ND(0.6)	ND(0.3)	ND(1.0)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.3)
1,2-DICHLOROETHANE	ug/l	--	ND(0.4)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.2)
1,2-DICHLOROPROPANE	ug/l	--	ND(0.4)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.2)
1,3-DICHLOROBENZENE	ug/l	--	ND(0.6)	ND(0.3)	ND(1.0)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.3)
1,4-DICHLOROBENZENE	ug/l	--	ND(0.6)	ND(0.3)	ND(1.0)	ND(0.3)	ND(0.3)	ND(1.0)	ND(1.0)	ND(0.3)
2-BUTANONE	ug/l	--	--	--	154.0	--	--	--	(a)	--
2-CHLOROETHYLVINYLETHER	ug/l	--	ND(20)	ND(10)	--	ND(10)	ND(10)	--	--	ND(10)
A-METHYLSTYRENE	ug/l	--	ND(0.4)	ND(0.2)	--	ND(0.2)	ND(0.2)	--	--	ND(0.2)
ACETONE	ug/l	--	--	--	18.86	--	--	--	(a)	--
BENZENE	ug/l	--	ND(4)	ND(2)	ND(0.5)	ND(2)	ND(2)	ND(0.5)	ND(0.5)	ND(2)
BROMOFORM	ug/l	--	ND(4)	ND(2)	ND(1.0)	ND(2)	ND(2)	ND(1.0)	ND(1.0)	ND(2)
BROMOMETHANE	ug/l	--	ND(0.4)	ND(0.2)	ND(2.0)	ND(0.2)	ND(0.2)	ND(2.0)	ND(2.0)	ND(0.2)
CARBON TETRACHLORIDE	ug/l	--	ND(2)	ND(1)	ND(1.0)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1)
CHLOROBENZENE	ug/l	--	ND(0.4)	ND(0.2)	ND(0.5)	ND(0.2)	ND(0.2)	ND(0.5)	ND(0.5)	ND(0.2)
CHLOROETHANE	ug/l	--	ND(0.4)	ND(0.2)	ND(2.0)	ND(0.2)	ND(0.2)	ND(2.0)	ND(2.0)	ND(0.2)
CHLOROFORM	ug/l	--	ND(0.4)	ND(0.2)	ND(1.0)	0.6	ND(0.2)	ND(1.0)	ND(1.0)	0.4
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1)	ND(0.5)	ND(1.0)	ND(0.5)	ND(0.5)	ND(1.0)	ND(1.0)	ND(0.5)
DIBROMOCHLOROMETHANE	ug/l	--	ND(0.4)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.2)
DICHLOROBROMOMETHANE	ug/l	--	ND(0.4)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.2)
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--
ETHYLBENZENE	ug/l	--	ND(0.4)	ND(0.2)	ND(0.5)	ND(0.2)	1.4	ND(0.5)	ND(0.5)	ND(0.2)
M&P-XYLENE	ug/l	--	ND(0.6)	ND(0.3)	ND(0.5)	ND(0.3)	0.6	ND(0.5)	ND(0.5)	ND(0.3)
MESITYLENE	ug/l	--	ND(0.4)	ND(0.2)	--	ND(0.2)	ND(0.2)	--	--	ND(0.2)
METHYL CHLORIDE	ug/l	--	ND(0.4)	ND(0.2)	ND(2.0)	ND(0.2)	ND(0.2)	ND(2.0)	ND(2.0)	ND(0.2)
METHYLENE CHLORIDE	ug/l	--	ND(20)	ND(10)	1.12	ND(10)	ND(10)	1.97	1.62	ND(10)
METHYLSTYRENE ISOMERS	ug/l	--	ND(0.4)	ND(0.2)	--	ND(0.2)	ND(0.2)	--	--	ND(0.2)
O-XYLENE	ug/l	--	ND(0.4)	ND(0.2)	ND(0.5)	ND(0.2)	ND(0.2)	ND(0.5)	ND(0.5)	ND(0.2)
OTHER AROMATIC COMPOUNDS	ug/l	--	ND(0.4)	ND(0.2)	--	ND(0.2)	ND(0.2)	--	--	ND(0.2)
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
STYRENE	ug/l	--	ND(0.4)	ND(0.2)	23.4	ND(0.2)	75	4.80	6.25	1.9

001253

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			MB13-2	MB13-3	MB16-1	MB16-2	MB16-3	MB17-1		MB17-3
Sample Date:			12/29/87	12/29/87	02/22/88	12/29/87	12/29/87	02/22/88	02/22/88 Dupl.	12/29/87
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	ND(0.4)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.2)
THF	ug/l	--	--	--	--	--	--	--	(a)	--
TOLUENE	ug/l	--	ND(3)	ND(0.3)	26.19	ND(0.3)	90	20.21	16.81	11
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(0.4)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.2)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(0.4)	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(1.0)	ND(0.2)
TRICHLOROFLUOROMETHANE	ug/l	--	ND(1)	ND(0.5)	ND(2.0)	ND(0.5)	ND(0.5)	ND(2.0)	ND(2.0)	ND(0.5)
VINYL CHLORIDE	ug/l	--	ND(1)	ND(0.5)	ND(2.0)	ND(0.5)	ND(0.5)	ND(2.0)	ND(2.0)	ND(0.5)

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			MB18-2		OW1A-93		OW1B-93		OW2A-93	
Sample Date:			12/29/87	02/22/88	03/26/93	04/07/93	03/26/93	04/07/93	03/26/93	04/07/93
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	1.5
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(2)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)	ND(2.0)	ND(1.0)	ND(2.0)
1,1,2-TRICHLOROETHANE	ug/l	--	ND(0.5)	ND(1.0)	ND(0.5)	ND(2.0)	ND(0.5)	ND(2.0)	ND(0.5)	ND(2.0)
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	ND(1.0)	--	ND(1.0)	--	ND(1.0)	--
1,2-DICHLOROBENZENE	ug/l	--	ND(0.3)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)
1,2-DICHLOROETHANE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)
1,3-DICHLOROBENZENE	ug/l	--	ND(0.3)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(0.3)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)
2-BUTANONE	ug/l	--	--	1040	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	ND(10)	--	--	ND(10)	--	ND(10)	--	ND(10)
A-METHYLSTYRENE	ug/l	--	0.7	--	--	--	--	--	--	--
ACETONE	ug/l	--	--	235.39	--	--	--	--	--	--
BENZENE	ug/l	--	ND(2)	1.0	0.4	ND(0.5)	ND(0.1)	ND(0.5)	0.1	ND(0.5)
BROMOFORM	ug/l	--	ND(2)	ND(1.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BROMOMETHANE	ug/l	--	ND(0.2)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
CARBON TETRACHLORIDE	ug/l	--	ND(1)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)
CHLOROBENZENE	ug/l	--	ND(0.2)	ND(0.5)	ND(0.2)	ND(0.5)	ND(0.2)	ND(0.5)	ND(0.2)	ND(0.5)
CHLOROETHANE	ug/l	--	ND(0.2)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
CHLOROFORM	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	ND(0.2)	--	ND(0.2)	--	ND(0.2)	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	--	ND(0.2)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(2.0)	ND(0.2)	ND(2.0)	ND(0.2)	ND(2.0)
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	1.1	0.87	0.4	ND(0.5)	0.2	ND(0.5)	0.2	ND(0.5)
M&P-XYLENE	ug/l	--	3.1	0.76	1.1	ND(0.5)	0.6	ND(0.5)	0.7	ND(0.5)
MESITYLENE	ug/l	--	0.4	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	ND(0.2)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
METHYLENE CHLORIDE	ug/l	--	ND(10)	7.27	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
METHYLSTYRENE ISOMERS	ug/l	--	ND(0.2)	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.2)	ND(0.5)	0.7	ND(0.5)	0.2	ND(0.5)	0.3	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	ND(0.2)	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
STYRENE	ug/l	--	80	49.15	ND(0.2)	--	ND(0.2)	--	ND(0.2)	--

001255

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			MB18-2		OW1A-93		OW1B-93		OW2A-93	
Sample Date:			12/29/87	02/22/88	03/26/93	04/07/93	03/26/93	04/07/93	03/26/93	04/07/93
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)
THF	ug/l	--	--	21.90	--	--	--	--	--	--
TOLUENE	ug/l	--	170	117.85	3.9	ND(0.5)	0.5	ND(0.5)	1.2	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1.0)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	ND(0.5)	ND(2.0)	ND(1.0)	ND(2.0)	ND(1.0)	ND(2.0)	ND(1.0)	ND(2.0)
VINYL CHLORIDE	ug/l	--	ND(0.5)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			OW2B-93		OW3-93			OW4-93		PW1
Sample Date:			03/26/93	04/07/93	03/26/93	03/26/93 Dupl.	04/07/93	03/26/93	04/07/93	05/12/88
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	1.1	ND(0.2)	ND(1.0)	ND(2)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)	ND(2.0)	ND(2)
1,1,2-TRICHLOROETHANE	ug/l	--	ND(0.5)	ND(2.0)	ND(0.5)	ND(0.5)	ND(2.0)	ND(0.5)	ND(2.0)	ND(1)
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	ND(0.5)	ND(1.0)	ND(0.5)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)	ND(1)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	ND(1.0)	--	ND(1.0)	ND(1.0)	--	ND(1.0)	--	--
1,2-DICHLOROBENZENE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	0.1	ND(1.0)	ND(1)
1,2-DICHLOROETHANE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(2)
1,2-DICHLOROPROPANE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(1)
1,3-DICHLOROBENZENE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(1)
1,4-DICHLOROBENZENE	ug/l	--	0.2	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	1.6	ND(1.0)	ND(1)
2-BUTANONE	ug/l	--	--	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	ND(10)	--	--	ND(10)	--	ND(10)	ND(10)
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	ND(1)
ACETONE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	0.2	ND(0.5)	ND(0.1)	ND(0.1)	ND(0.5)	1.9	ND(0.5)	ND(1)
BROMOFORM	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2)
BROMOMETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(16)
CARBON TETRACHLORIDE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(2)
CHLOROBENZENE	ug/l	--	ND(0.2)	ND(0.5)	ND(0.2)	ND(0.2)	ND(0.5)	63.3	11	ND(1)
CHLOROETHANE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(10)
CHLOROFORM	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(1)
CIS-1,2-DICHLOROETHYLENE	ug/l	--	ND(0.2)	--	ND(0.2)	ND(0.2)	--	ND(0.2)	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(0.5)	ND(1.0)	ND(0.5)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)	ND(1)
DIBROMOCHLOROMETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)
DICHLOROBROMOMETHANE	ug/l	--	ND(0.2)	ND(2.0)	ND(0.2)	ND(0.2)	ND(2.0)	ND(0.2)	ND(2.0)	ND(1)
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.2)	ND(0.5)	ND(0.2)	ND(0.2)	ND(0.5)	ND(0.2)	ND(0.5)	ND(1)
M&P-XYLENE	ug/l	--	0.3	ND(0.5)	0.3	0.2	ND(0.5)	1.4	ND(0.5)	ND(2)
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	ND(1)
METHYL CHLORIDE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(50)
METHYLENE CHLORIDE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(10)
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	ND(1)
O-XYLENE	ug/l	--	0.1	ND(0.5)	0.1	0.1	ND(0.5)	0.6	ND(0.5)	ND(1)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	ND(1)
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
STYRENE	ug/l	--	ND(0.2)	--	ND(0.2)	ND(0.2)	--	ND(0.2)	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			OW2B-93		OW3-93			OW4-93		PW1
Sample Date:			03/26/93	04/07/93	03/26/93	03/26/93 Dupl.	04/07/93	03/26/93	04/07/93	05/12/88
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	ND(0.5)	ND(1.0)	ND(0.5)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)	ND(1)
THF	ug/l	--	--	--	--	--	--	--	--	--
TOLUENE	ug/l	--	0.3	ND(0.5)	0.3	0.1	ND(0.5)	1.1	ND(0.5)	3.7
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(1)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(0.5)	ND(1.0)	ND(0.5)	ND(0.5)	ND(1.0)	ND(0.5)	ND(1.0)	--
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(0.2)	ND(1.0)	ND(0.2)	ND(0.2)	ND(1.0)	ND(0.2)	ND(1.0)	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	ND(1.0)	ND(2.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)	ND(2.0)	ND(2)
VINYL CHLORIDE	ug/l	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(12)

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			PW1							
Sample Date:			08/16/88	07/25/89	07/25/89 Dupl.	11/16/89	11/16/89 Dupl.	04/10/90	09/27/90	04/10/91
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(0.24)	ND(0.24)	ND(0.50)	ND(0.50)	ND(0.50) UJ	ND(1.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(1.0)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33)	ND(0.33) UJ	ND(2.0)	--
1,1,2-TRICHLOROETHANE	ug/l	--	ND(1.0)	--	--	ND(0.21)	ND(0.21)	ND(0.21) UJ	ND(2.0)	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	0.21 U	0.21 U	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20) UJ	ND(1.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	ND(1.0)	0.32 U	0.32 U	ND(0.32)	ND(0.32)	ND(0.32) UJ	ND(1.0)	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	ND(0.50)	ND(0.50)	ND(0.50) UJ	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24) UJ	ND(1.0)	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(0.82)	ND(0.82)	ND(0.82)	ND(0.82)	ND(0.82) UJ	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	ND(1.0)	0.22	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20) UJ	ND(1.0)	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23)	ND(0.23) UJ	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22)	ND(0.22) UJ	ND(1.0)	ND(1.0)
2-BUTANONE	ug/l	--	--	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	ND(0.40)	ND(0.40)	ND(0.50)	ND(0.50)	ND(0.50) UJ	ND(10)	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
ACETONE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	0.50 U	0.5 U	ND(0.19)	ND(0.19)	ND(0.19) UJ	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	ND(1.0)	ND(0.49)	ND(0.49)	ND(0.49)	ND(0.49)	ND(0.49) UJ	ND(2.0)	--
BROMOMETHANE	ug/l	--	ND(2.0)	ND(0.83)	ND(0.83)	ND(0.83)	ND(0.83)	ND(0.83) UJ	ND(2.0)	--
CARBON TETRACHLORIDE	ug/l	--	ND(1.0)	ND(0.93)	ND(0.93)	ND(0.93)	ND(0.93)	ND(0.93) UJ	ND(1.0)	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27) UJ	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	ND(2.0)	ND(0.40)	ND(0.40)	ND(0.50)	ND(0.50)	ND(0.50) UJ	ND(2.0)	--
CHLOROFORM	ug/l	--	1.98	ND(0.51)	ND(0.51)	ND(0.51)	3.1 U	ND(0.51) UJ	ND(1.0)	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1.0)	--	--	--	--	--	ND(1.0)	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27)	ND(0.27) UJ	ND(1.0)	--
DIBROMOCHLOROMETHANE	ug/l	--	ND(1.0)	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24)	ND(0.24) UJ	ND(1.0)	--
DICHLOROBROMOMETHANE	ug/l	--	ND(1.0)	ND(0.24)	ND(0.24)	ND(0.50)	ND(0.50)	ND(0.50) UJ	ND(2.0)	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	ND(0.50)	ND(0.50)	ND(0.50) UJ	--	--
DICHLOROFLUOROMETHANE	ug/l	--	ND(2.0)	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	0.24 U	0.24 U	ND(0.24)	ND(0.24)	ND(0.24) UJ	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	--	--	0.30	0.34	ND(0.21) UJ	--	ND(0.5)
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	ND(2.0)	ND(0.65)	ND(0.65)	0.73 U	1.88 U	ND(0.65) UJ	ND(2.0)	--
METHYLENE CHLORIDE	ug/l	--	19.12	0.92 UJ	1.73 UJ	2.5	11.4	84 J	13 U	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	--	--	ND(0.19)	ND(0.19)	ND(0.19) UJ	--	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
STYRENE	ug/l	--	--	--	--	--	--	--	--	--

001259

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			PW1							
Sample Date:			08/16/88	07/25/89	07/25/89 Dupl.	11/16/89	11/16/89 Dupl.	04/10/90	09/27/90	04/10/91
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21)	ND(0.21) UJ	ND(1.0)	ND(1.0)
THF	ug/l	--	--	--	--	--	--	--	--	--
TOLUENE	ug/l	--	ND(0.5)	0.32 U	0.38 U	1.09	1.27	ND(0.24) UJ	0.5 U	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20) UJ	ND(1.0)	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	--	--	--	--	--	ND(1.0)	--
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(0.39)	ND(0.39)	ND(0.92)	ND(0.92)	ND(0.92) UJ	ND(1.0)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	ND(2.0)	ND(0.26)	ND(0.26)	ND(0.26)	0.29	ND(0.26) UJ	ND(2.0)	--
VINYL CHLORIDE	ug/l	--	ND(2.0)	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74)	ND(0.74) UJ	ND(2.0)	--

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			PW1							
Sample Date:			04/10/91	07/09/91	07/09/91	04/27/92	07/20/92	04/07/93	04/07/93	07/02/93
			Dupl.		Dupl.				Dupl.	
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	ND(2.0)	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	ND(2.0)	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(1.0)	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(1.0)	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(1.0)	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2-BUTANONE	ug/l	--	--	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	ND(10)	ND(10)	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
ACETONE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	--	--	--	--	ND(2.0)	ND(2.0)	--
BROMOMETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	ND(2.0)	--
CARBON TETRACHLORIDE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(1.0)	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	ND(2.0)	--
CHLOROFORM	ug/l	--	--	--	--	--	--	ND(1.0)	ND(1.0)	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(1.0)	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(1.0)	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	ND(2.0)	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	--	--	ND(2.0)	ND(2.0)	--
METHYLENE CHLORIDE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(1.0)	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
STYRENE	ug/l	--	--	--	--	--	--	--	--	--

001261

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			PW1							
Sample Date:			04/10/91	07/09/91	07/09/91	04/27/92	07/20/92	04/07/93	04/07/93	07/02/93
			Dupl.		Dupl.				Dupl.	
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
THF	ug/l	--	--	--	--	--	--	--	--	--
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(1.0)	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(1.0)	--
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	ND(1.0)
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	--
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	ND(2.0)	--
VINYL CHLORIDE	ug/l	--	--	--	--	--	--	ND(2.0)	ND(2.0)	--

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			PW1							PW3
Sample Date:			07/02/93	04/20/94	07/06/94	07/06/94	04/05/95	07/11/95	07/11/95	05/12/88
			Dupl.			Dupl.			Dupl.	
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	--
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	--
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	--
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	--
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	--
2-BUTANONE	ug/l	--	--	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
ACETONE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--
BROMOFORM	ug/l	--	--	--	--	--	--	--	--	--
BROMOMETHANE	ug/l	--	--	--	--	--	--	--	--	--
CARBON TETRACHLORIDE	ug/l	--	--	--	--	--	--	--	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--
CHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
CHLOROFORM	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	--	--	--
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	--	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	--	--	--	--	--	--	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	ND(0.5)	ND(0.5)	ND(0.5)	--
STYRENE	ug/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			PW1							PW3
Sample Date:			07/02/93	04/20/94	07/06/94	07/06/94	04/05/95	07/11/95	07/11/95	05/12/88
			Dupl.			Dupl.			Dupl.	
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	--
THF	ug/l	--	--	--	--	--	--	--	--	--
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	1.6 J	ND(0.5) UJ	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--	ND(1.0)
TRICHLOROETHANE	ug/l	--	ND(1.0)	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	--
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
VINYL CHLORIDE	ug/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			PW3							
Sample Date:			05/12/88	08/16/88	08/16/88	07/25/89	11/16/89	04/10/90	04/10/90	09/27/90
			Dupl.		Dupl.				Dupl.	
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(2)	ND(1.0)	ND(1.0)	ND(0.24)	ND(0.50)	ND(0.50) UJ	ND(0.50) UJ	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	ND(2)	ND(1.0)	ND(1.0)	ND(0.33)	ND(0.33)	ND(0.33) UJ	ND(0.33) UJ	ND(2.0)
1,1,2-TRICHLOROETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	--	0.21 U	ND(0.21) UJ	ND(0.21) UJ	ND(2.0)
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	ND(0.21)	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(0.20)	0.39	ND(0.20) UJ	ND(0.20) UJ	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(0.32)	ND(0.32)	ND(0.32) UJ	ND(0.32) UJ	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	ND(0.50)	ND(0.50) UJ	ND(0.50) UJ	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(0.24)	ND(0.24)	ND(0.24) UJ	ND(0.24) UJ	ND(1.0)
1,2-DICHLOROETHANE	ug/l	--	ND(2)	ND(1.0)	ND(1.0)	ND(0.82)	ND(0.82)	ND(0.82) UJ	ND(0.82) UJ	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(0.20)	ND(0.20)	ND(0.20) UJ	ND(0.20) UJ	ND(1.0)
1,3-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(0.23)	ND(0.23)	ND(0.23) UJ	ND(0.23) UJ	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	0.65	0.75	ND(0.22) UJ	ND(0.22) UJ	ND(1.0)
2-BUTANONE	ug/l	--	--	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	ND(10)	--	--	ND(0.40)	ND(0.50)	ND(0.50) UJ	ND(0.50) UJ	ND(10)
A-METHYLSTYRENE	ug/l	--	ND(1)	--	--	--	--	--	--	--
ACETONE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(1)	ND(0.5)	ND(0.5)	ND(0.50)	0.19 U	ND(0.19) UJ	1.3 J	ND(0.5)
BROMOFORM	ug/l	--	ND(2)	ND(1.0)	ND(1.0)	ND(0.49)	0.49 U	ND(0.49) UJ	ND(0.49) UJ	ND(2.0)
BROMOMETHANE	ug/l	--	ND(16)	ND(2.0)	ND(2.0)	ND(0.83)	0.83 U	9.1 J	24 J	ND(2.0)
CARBON TETRACHLORIDE	ug/l	--	ND(2)	ND(1.0)	ND(1.0)	ND(0.93)	ND(0.93)	ND(0.93) UJ	ND(0.93) UJ	ND(1.0)
CHLOROBENZENE	ug/l	--	4	ND(0.5)	ND(0.5)	ND(0.27)	ND(0.27)	ND(0.27) UJ	3.0 J	1.9
CHLOROETHANE	ug/l	--	ND(10)	ND(2.0)	ND(2.0)	ND(0.40)	ND(0.50)	ND(0.50) UJ	ND(0.50) UJ	ND(2.0)
CHLOROFORM	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(0.51)	ND(0.51) UJ	ND(0.51) UJ	ND(0.51) UJ	ND(1.0)
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	ND(1.0)	--	--	--	--	ND(1.0)
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(0.27)	ND(0.27)	ND(0.27) UJ	ND(0.27) UJ	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(0.24)	ND(0.24)	ND(0.24) UJ	ND(0.24) UJ	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(0.24)	ND(0.50)	ND(0.50) UJ	ND(0.50) UJ	ND(2.0)
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	ND(0.50)	ND(0.50) UJ	ND(0.50) UJ	--
DICHLOROFLUOROMETHANE	ug/l	--	--	ND(2.0)	ND(2.0)	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(1)	ND(0.5)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.24) UJ	ND(0.24) UJ	ND(0.5)
M&P-XYLENE	ug/l	--	ND(2)	ND(0.5)	ND(0.5)	--	ND(0.21)	ND(0.21) UJ	ND(0.21) UJ	--
MESITYLENE	ug/l	--	ND(1)	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	ND(50)	ND(2.0)	ND(2.0)	0.74	ND(0.65) UJ	ND(0.65) UJ	ND(0.65) UJ	ND(2.0)
METHYLENE CHLORIDE	ug/l	--	12	ND(1.0)	ND(1.0)	ND(0.92)	4.6 J	ND(0.92) UJ	5.2 J	18.9 U
METHYLSTYRENE ISOMERS	ug/l	--	ND(1)	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(1)	ND(0.5)	ND(0.5)	--	0.19 U	ND(0.19) UJ	ND(0.19) UJ	--
OTHER AROMATIC COMPOUNDS	ug/l	--	ND(1)	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
STYRENE	ug/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			PW3							
Sample Date:			05/12/88	08/16/88	08/16/88	07/25/89	11/16/89	04/10/90	04/10/90	09/27/90
			Dupl.		Dupl.				Dupl.	
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(0.21)	ND(0.21)	ND(0.21) UJ	ND(0.21) UJ	ND(1.0)
THF	ug/l	--	--	--	--	--	--	--	--	--
TOLUENE	ug/l	--	2.7	ND(0.5)	ND(0.5)	ND(0.24)	ND(0.24)	ND(0.24) UJ	ND(0.24) UJ	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(0.20)	0.20 U	ND(0.20) UJ	ND(0.20) UJ	ND(1.0)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(0.10)	--	--	--	ND(1.0)
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1)	ND(1.0)	ND(1.0)	ND(0.39)	ND(0.92)	ND(0.92) UJ	ND(0.92) UJ	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	ND(2)	ND(2.0)	ND(2.0)	ND(0.26)	ND(0.26)	ND(0.26) UJ	ND(0.26) UJ	ND(2.0)
VINYL CHLORIDE	ug/l	--	ND(12)	ND(2.0)	ND(2.0)	ND(0.74)	ND(0.74)	ND(0.74) UJ	ND(0.74) UJ	ND(2.0)

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			PW3							
Sample Date:			04/10/91	07/09/91	04/27/92	04/27/92 Dupl.	07/20/92	07/20/92 Dupl.	04/07/93	04/20/94
Parameters	*Units*	*MOE Obj.*								
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	--	--	--	ND(2.0)	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	ND(2.0)	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	ND(1.0)	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	ND(1.0)	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	--	--	--	ND(1.0)	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)
2-BUTANONE	ug/l	--	--	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	--	ND(10)	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
ACETONE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	--	--	--	--	--	ND(2.0)	--
BROMOMETHANE	ug/l	--	--	--	--	--	--	--	ND(2.0)	--
CARBON TETRACHLORIDE	ug/l	--	--	--	--	--	--	--	ND(1.0)	--
CHLOROBENZENE	ug/l	--	1.7	2.5	2.6	3.3	3.0	2.9	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	--	--	--	--	ND(2.0)	--
CHLOROFORM	ug/l	--	--	--	--	--	--	--	ND(1.0)	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	ND(1.0)	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	--	--	--	ND(1.0)	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	--	--	--	ND(2.0)	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	--	--	--	ND(2.0)	--
METHYLENE CHLORIDE	ug/l	--	--	--	--	--	--	--	ND(1.0)	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
STYRENE	ug/l	--	--	--	--	--	--	--	--	--

001267

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			PW3							
Sample Date:			04/10/91	07/09/91	04/27/92	04/27/92 Dupl.	07/20/92	07/20/92 Dupl.	04/07/93	04/20/94
Parameters	*Units*	*MOE Obj.*								
TETRACHLOROETHYLENE	ug/l	--	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)
THF	ug/l	--	--	--	--	--	--	--	--	--
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	ND(1.0)	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	ND(1.0)	--
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	ND(2.0)	--
VINYL CHLORIDE	ug/l	--	--	--	--	--	--	--	ND(2.0)	--

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			PW3				
Sample Date:			04/20/94	07/06/94	04/05/95	04/05/95	07/11/95
			Dupl.			Dupl.	
Parameters	*Units*	*MOE Obj.*					
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	--	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
1,4-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
2-BUTANONE	ug/l	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--
ACETONE	ug/l	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
BROMOFORM	ug/l	--	--	--	--	--	--
BROMOMETHANE	ug/l	--	--	--	--	--	--
CARBON TETRACHLORIDE	ug/l	--	--	--	--	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	--	--	--
CHLOROFORM	ug/l	--	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	--	--	--
MESITYLENE	ug/l	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	--	--	--	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	ND(0.5)	ND(0.5)	ND(0.5)
STYRENE	ug/l	--	--	--	--	--	--

001269

Bayview Landfill Site
Burlington, Ontario

Table A.2
Volatile Organic Compounds
Groundwater Analytical Results

Location:			PW3				
Sample Date:			04/20/94	07/06/94	04/05/95	04/05/95	07/11/95
			Dupl.			Dupl.	
Parameters	*Units*	*MOE Obj.*					
TETRACHLOROETHYLENE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
THF	ug/l	--	--	--	--	--	--
TOLUENE	ug/l	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	3.4 U
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--
TRICHLOROETHANE	ug/l	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--
VINYL CHLORIDE	ug/l	--	--	--	--	--	--

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table A.3
Groundwater QAQC Analytical Results

Location:		BRINSE		FBLK						
Sample Date:		12/29/87	02/22/88	06/15/87	08/17/87	12/29/87	05/12/88	07/25/89	11/16/89	11/18/89
Parameters	*Units*									
Base Neutrals/SVOC										
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	--	--	--	--	--	--	--	--
General Chemistry										
ALKALINITY	mg/l	--	--	--	--	--	--	ND(2.0)	--	--
AMMONIA NITROGEN	mg/l	0.10	--	0.15	ND(0.02)	0.02	--	ND(0.03)	--	--
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	--	--	--	--	--	ND(1.0)	--	--
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	--	ND(2.0)	11.0	--	--	--	--	--
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	0.12	--	0.178	ND(0.02)	0.02	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	0.15	--	0.320	0.03	0.02	--	ND(0.06)	--	--
ORGANIC NITROGEN	mg/l	--	--	0.17	0.03	0.00	--	--	--	--
PH		--	--	8.14	7.10	--	--	--	--	--
SULFATE	mg/l	--	--	--	--	--	--	ND(1.0)	--	--
TOTAL PHENOLS	ug/l	--	--	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
ALUMINUM	mg/l	--	--	--	--	--	--	--	--	--
ANTIMONY	mg/l	--	--	--	--	--	--	--	--	--
ARSENIC	mg/l	--	--	--	--	--	--	--	--	--
BARIUM	mg/l	--	--	--	--	--	--	--	--	--
BERYLLIUM	mg/l	--	--	--	--	--	--	--	--	--
BISMUTH	mg/l	--	--	--	--	--	--	--	--	--
CADMIUM	mg/l	--	--	--	--	--	--	--	--	--
CALCIUM	mg/l	--	--	--	--	--	--	--	--	--
CHROMIUM	mg/l	--	--	--	--	--	--	--	--	--
COBALT	mg/l	--	--	--	--	--	--	--	--	--
COPPER	mg/l	--	--	--	--	--	--	--	--	--
CYANIDE, TOTAL	mg/l	--	--	--	--	--	--	--	--	--
IRON	mg/l	--	--	--	--	--	--	--	--	--
LEAD	mg/l	--	--	--	--	--	--	--	--	--
MAGNESIUM	mg/l	--	--	--	--	--	--	--	--	--
MANGANESE	mg/l	--	--	--	--	--	--	--	--	--
MERCURY	mg/l	--	--	--	--	--	--	--	--	--
MOLYBDENUM	mg/l	--	--	--	--	--	--	--	--	--
NICKEL	mg/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		BRINSE		FBLK						
Sample Date:		12/29/87	02/22/88	06/15/87	08/17/87	12/29/87	05/12/88	07/25/89	11/16/89	11/18/89
Parameters	*Units*									
Metals (Cont'd)										
POTASSIUM	mg/l	--	--	--	--	--	--	--	--	--
SELENIUM	mg/l	--	--	--	--	--	--	--	--	--
SILVER	mg/l	--	--	--	--	--	--	--	--	--
SODIUM	mg/l	--	--	--	--	--	--	--	--	--
STRONTIUM	mg/l	--	--	--	--	--	--	--	--	--
TIN	mg/l	--	--	--	--	--	--	--	--	--
TITANIUM	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
TUNGSTEN	mg/l	--	--	--	--	--	--	--	--	--
VANADIUM	mg/l	--	--	--	--	--	--	--	--	--
ZINC	mg/l	--	--	--	--	--	--	--	--	--
Volatile Organics										
1,1,1-TRICHLOROETHANE	ug/l	ND(0.2)	ND(1.0)	--	--	--	--	ND(0.24)	ND(0.50)	--
1,1,2,2-TETRACHLOROETHANE	ug/l	ND(2)	ND(1.0)	--	--	--	--	ND(0.33)	--	ND(0.33)
1,1,2-TRICHLOROETHANE	ug/l	ND(0.5)	ND(1.0)	--	--	--	--	--	2.7	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	0.44	--	--
1,1-DICHLOROETHANE	ug/l	ND(0.2)	ND(1.0)	--	--	--	--	ND(0.20)	ND(0.20)	--
1,1-DICHLOROETHYLENE	ug/l	ND(0.2)	ND(1.0)	--	--	--	--	0.34	--	ND(0.32)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	ND(0.50)	--
1,2-DICHLOROBENZENE	ug/l	ND(0.3)	ND(1.0)	--	--	--	--	ND(0.24)	--	ND(0.24)
1,2-DICHLOROETHANE	ug/l	ND(0.2)	ND(1.0)	--	--	--	--	ND(0.82)	--	ND(0.82)
1,2-DICHLOROPROPANE	ug/l	ND(0.2)	ND(1.0)	--	--	--	--	ND(0.20)	--	ND(0.20)
1,3-DICHLOROBENZENE	ug/l	ND(0.3)	ND(1.0)	--	--	--	--	ND(0.23)	--	ND(0.23)
1,4-DICHLOROBENZENE	ug/l	ND(0.3)	ND(1.0)	--	--	--	--	ND(0.22)	ND(0.22)	--
2-BUTANONE	ug/l	--	*	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	ND(10)	--	--	--	--	--	ND(0.40)	ND(0.50)	--
A-METHYLSTYRENE	ug/l	ND(0.2)	--	--	--	--	--	--	--	--
ACETONE	ug/l	--	(a)	--	--	--	--	--	--	--
BENZENE	ug/l	ND(2)	ND(0.5)	--	--	--	--	0.51	ND(0.19)	--
BROMOFORM	ug/l	ND(2)	ND(1.0)	--	--	--	--	ND(0.49)	0.88	--
BROMOMETHANE	ug/l	ND(0.2)	ND(2.0)	--	--	--	--	ND(0.83)	ND(0.83)	--
CARBON TETRACHLORIDE	ug/l	ND(1)	ND(1.0)	--	--	--	--	ND(0.93)	--	ND(0.93)
CHLOROBENZENE	ug/l	ND(0.2)	ND(0.5)	--	--	--	--	ND(0.27)	--	ND(0.27)
CHLOROETHANE	ug/l	ND(0.2)	ND(2.0)	--	--	--	--	ND(0.40)	ND(0.50)	--
CHLOROFORM	ug/l	ND(0.2)	ND(1.0)	--	--	--	--	ND(0.51)	2.9	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	ND(1.0)	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND(0.5)	ND(1.0)	--	--	--	--	ND(0.27)	--	ND(0.27)
DIBROMOCHLOROMETHANE	ug/l	ND(0.2)	ND(1.0)	--	--	--	--	ND(0.24)	--	ND(0.24)
DICHLOROBROMOMETHANE	ug/l	ND(0.2)	ND(1.0)	--	--	--	--	ND(0.24)	--	ND(0.50)

001273

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		BRINSE		FBLK						
Sample Date:		12/29/87	02/22/88	06/15/87	08/17/87	12/29/87	05/12/88	07/25/89	11/16/89	11/18/89
Parameters	*Units*									
Volatile Organics (Cont'd)										
DICHLORODIFLUOROMETHANE	ug/l	--	ND(2.0)	--	--	--	--	--	--	ND(0.50)
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	1.4	ND(0.5)	--	--	--	--	0.39	--	ND(0.24)
M&P-XYLENE	ug/l	7.6	ND(0.5)	--	--	--	--	--	ND(0.21)	--
MESITYLENE	ug/l	0.4	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	ND(0.2)	ND(2.0)	--	--	--	--	ND(0.65)	5.0	--
METHYLENE CHLORIDE	ug/l	14	75.87	--	--	--	--	ND(0.92)	ND(0.92)	--
METHYLSTYRENE ISOMERS	ug/l	ND(0.2)	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	2.4	ND(0.5)	--	--	--	--	--	0.50	--
OTHER AROMATIC COMPOUNDS	ug/l	ND(0.2)	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
STYRENE	ug/l	1.6	*	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	ND(0.2)	ND(1.0)	--	--	--	--	ND(0.21)	--	ND(0.21)
THF	ug/l	--	(a)	--	--	--	--	--	--	--
TOLUENE	ug/l	10	ND(0.5)	--	--	--	--	4.6	ND(0.24)	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	ND(0.2)	ND(1.0)	--	--	--	--	ND(0.20)	8.2	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	ND(1.0)	--	--	--	ND(1)	--	--	--
TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	ND(0.2)	ND(1.0)	--	--	--	--	ND(0.39)	--	ND(0.92)
TRICHLOROFLUOROMETHANE	ug/l	ND(0.5)	ND(2.0)	--	--	--	--	ND(0.26)	ND(0.26)	--
VINYL CHLORIDE	ug/l	ND(0.5)	ND(2.0)	--	--	--	--	ND(0.74)	ND(0.74)	--
Pesticides and PCB's										
2,4,5-TP (SILVEX)	ug/l	--	--	--	--	--	--	--	--	--
2,4-D	ug/l	--	--	--	--	--	--	--	--	--
2,4-DDT	ug/l	--	--	--	--	--	--	--	--	--
4,4-DDT	ug/l	--	--	--	--	--	--	--	--	--
ALDRIN	ug/l	--	--	--	--	--	--	--	--	--
ALPHA-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	--
CARBARYL	ug/l	--	--	--	--	--	--	--	--	--
DIAZINON	ug/l	--	--	--	--	--	--	--	--	--
DIELDRIN	ug/l	--	--	--	--	--	--	--	--	--
ENDRIN	ug/l	--	--	--	--	--	--	--	--	--
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	--
HEPTACHLOR	ug/l	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	ug/l	--	--	--	--	--	--	--	--	--
LINDANE	ug/l	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	ug/l	--	--	--	--	--	--	--	--	--
METHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	--
PARATHION	ug/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		BRINSE		FBLK						
Sample Date:		12/29/87	02/22/88	06/15/87	08/17/87	12/29/87	05/12/88	07/25/89	11/16/89	11/18/89
Parameters	*Units*									
Pesticides and PCB's (Cont'd)										
TOTAL PCB	ug/l	--	--	--	--	--	--	--	--	--
TOXAPHENE	ug/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		FBLK		FBLK1						
Sample Date:		04/10/91	07/09/91	10/30/91	07/20/92	07/02/93	10/19/93	04/19/94	04/20/94	07/06/94
Parameters	Units									
Base Neutrals/SVOC										
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	--	--	--	--	ND(0.002)	--	--	--
General Chemistry										
ALKALINITY	mg/l	ND(1)	ND(1)	ND(1)	1.7	ND(1.0)	ND(1.0)	ND(1.0)	--	ND(1.0)
AMMONIA NITROGEN	mg/l	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.01)	--	ND(0.01)
BOD	mg/l	--	--	ND(2)	--	--	ND(2)	--	--	--
CHLORIDE	mg/l	ND(0.10)	0.50	0.20	0.32	ND(0.10)	ND(0.10)	ND(0.10)	--	ND(0.10)
COD	mg/l	--	--	ND(5)	--	--	ND(5)	--	--	--
CONDUCTIVITY	umhos/cm	4.26	1375	--	46	20	--	--	--	51
FLUORIDE	mg/l	--	--	ND(0.10)	--	--	ND(0.10)	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	ND(0.1)	--	--	ND(0.1)	--	--	--
KJELDAHL NITROGEN	mg/l	ND(0.06)	ND(0.06)	ND(0.06)	ND(0.06)	ND(0.06)	ND(0.06)	ND(0.10)	--	ND(0.10)
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		8.0	8.5	--	8.23	8.7	--	8.5	--	8.0
SULFATE	mg/l	ND(0.10)	--	ND(0.10)	--	--	ND(0.10)	--	--	--
TOTAL PHENOLS	ug/l	ND(1)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	--	ND(1)
TOTAL SUSPENDED SOLIDS	mg/l	--	--	ND(1)	--	--	ND(1)	--	--	--
Metals										
ALUMINUM	mg/l	--	--	0.068	--	--	0.054	--	--	--
ANTIMONY	mg/l	--	--	--	--	--	ND(0.002)	--	--	--
ARSENIC	mg/l	--	--	ND(0.002)	--	--	ND(0.01)	--	--	--
BARIUM	mg/l	--	--	ND(0.003)	--	--	ND(0.003)	--	--	--
BERYLLIUM	mg/l	--	--	ND(0.003)	--	--	--	--	--	--
BISMUTH	mg/l	--	--	ND(0.04)	--	--	ND(0.04)	--	--	--
CADMIUM	mg/l	--	--	ND(0.003)	--	--	ND(0.003)	--	--	--
CALCIUM	mg/l	--	--	0.886	--	--	--	--	--	--
CHROMIUM	mg/l	--	--	ND(0.005)	--	--	ND(0.005)	--	--	--
COBALT	mg/l	--	--	ND(0.005)	--	--	ND(0.005)	--	--	--
COPPER	mg/l	--	--	ND(0.003)	--	--	ND(0.003)	--	--	--
CYANIDE, TOTAL	mg/l	--	--	--	--	--	ND(0.005)	--	--	--
IRON	mg/l	--	--	0.035	--	--	0.008 U	--	--	--
LEAD	mg/l	--	--	ND(0.01)	--	--	ND(0.025)	--	--	--
MAGNESIUM	mg/l	--	--	0.119	--	--	--	--	--	--
MANGANESE	mg/l	--	--	ND(0.002)	--	--	ND(0.001)	--	--	--
MERCURY	mg/l	--	--	ND(0.001)	--	--	ND(0.001)	--	--	--
MOLYBDENUM	mg/l	--	--	ND(0.006)	--	--	ND(0.006)	--	--	--
NICKEL	mg/l	--	--	ND(0.01)	--	--	ND(0.01)	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		FBLK		FBLK1						
Sample Date:		04/10/91	07/09/91	10/30/91	07/20/92	07/02/93	10/19/93	04/19/94	04/20/94	07/06/94
Parameters	*Units*									
Metals (Cont'd)										
POTASSIUM	mg/l	--	--	ND(0.1)	--	--	--	--	--	--
SELENIUM	mg/l	--	--	0.002	--	--	ND(0.01)	--	--	--
SILVER	mg/l	--	--	ND(0.01)	--	--	ND(0.007)	--	--	--
SODIUM	mg/l	--	--	1.69	--	--	--	--	--	--
STRONTIUM	mg/l	--	--	0.005	--	--	--	--	--	--
TIN	mg/l	--	--	--	--	--	ND(0.018)	--	--	--
TITANIUM	mg/l	--	--	ND(0.003)	--	--	ND(0.003)	--	--	--
TOTAL PHOSPHORUS	mg/l	--	--	ND(0.4)	--	--	ND(0.005)	--	--	--
TUNGSTEN	mg/l	--	--	ND(0.02)	--	--	--	--	--	--
VANADIUM	mg/l	--	--	ND(0.003)	--	--	0.004	--	--	--
ZINC	mg/l	--	--	0.089	--	--	0.004 U	--	--	--
Volatile Organics										
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--
2-BUTANONE	ug/l	--	--	--	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
ACETONE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	--	--	ND(0.5)	ND(0.5)	--	--	--
BROMOFORM	ug/l	--	--	--	--	--	--	--	--	--
BROMOMETHANE	ug/l	--	--	--	--	--	--	--	--	--
CARBON TETRACHLORIDE	ug/l	--	--	--	--	--	--	--	--	--
CHLOROBENZENE	ug/l	--	ND(0.5)	--	--	ND(0.5)	ND(2.0)	--	--	--
CHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
CHLOROFORM	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	--	--	--	--	--

001277

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		FBLK		FBLK1						
Sample Date:		04/10/91	07/09/91	10/30/91	07/20/92	07/02/93	10/19/93	04/19/94	04/20/94	07/06/94
Parameters	*Units*									
Volatile Organics (Cont'd)										
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	--	--	ND(0.5)	ND(0.5)	--	--	--
M&P-XYLENE	ug/l	--	ND(0.5)	--	--	ND(0.5)	ND(0.5)	--	--	--
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	--	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	--	--	--	--	--	--	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.5)	--	--	ND(0.5)	ND(0.5)	--	ND(0.5)	--
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
STYRENE	ug/l	--	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--
THF	ug/l	--	--	--	--	--	--	--	--	--
TOLUENE	ug/l	--	ND(0.5)	--	--	ND(0.5)	ND(0.5)	--	--	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--	--
TRICHLOROETHANE	ug/l	--	--	--	--	ND(1.0)	--	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	--	--	--	ND(1.0)	--	--	--
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
VINYL CHLORIDE	ug/l	--	--	--	--	--	--	--	--	--
Pesticides and PCB's										
2,4,5-TP (SILVEX)	ug/l	--	--	--	--	--	ND(0.5)	--	--	--
2,4-D	ug/l	--	--	--	--	--	ND(2)	--	--	--
2,4-DDT	ug/l	--	--	--	--	--	ND(0.2)	--	--	--
4,4-DDT	ug/l	--	--	--	--	--	ND(0.2)	--	--	--
ALDRIN	ug/l	--	--	--	--	--	ND(0.2)	--	--	--
ALPHA-CHLORDANE	ug/l	--	--	--	--	--	ND(0.2)	--	--	--
CARBARYL	ug/l	--	--	--	--	--	ND(16)	--	--	--
DIAZINON	ug/l	--	--	--	--	--	ND(0.5)	--	--	--
DIELDRIN	ug/l	--	--	--	--	--	ND(0.2)	--	--	--
ENDRIN	ug/l	--	--	--	--	--	ND(0.2)	--	--	--
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	ND(0.2)	--	--	--
HEPTACHLOR	ug/l	--	--	--	--	--	ND(0.2)	--	--	--
HEPTACHLOR EPOXIDE	ug/l	--	--	--	--	--	ND(0.2)	--	--	--
LINDANE	ug/l	--	--	--	--	--	ND(0.2)	--	--	--
METHOXYCHLOR	ug/l	--	--	--	--	--	ND(0.5)	--	--	--
METHYL PARATHION	ug/l	--	--	--	--	--	ND(0.5)	--	--	--
PARATHION	ug/l	--	--	--	--	--	ND(0.5)	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		FBLK		FBLK1						
Sample Date:		04/10/91	07/09/91	10/30/91	07/20/92	07/02/93	10/19/93	04/19/94	04/20/94	07/06/94
Parameters	*Units*									
Pesticides and PCB's (Cont'd)										
TOTAL PCB	ug/l	--	--	--	--	--	ND(5)	--	--	--
TOXAPHENE	ug/l	--	--	--	--	--	ND(10)	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	--	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	--	--	--	ND(1)	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	--	--	ND(1)	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	ND(1)	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		FBLK1			FBLK2				TBLK	
Sample Date:		04/05/95	07/11/95	11/07/95	04/27/92	04/07/93	07/02/93	04/05/95	12/29/87	02/22/88
Parameters	*Units*									
Base Neutrals/SVOC										
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	--	--	--	--	--	--	--	--
General Chemistry										
ALKALINITY	mg/l	ND(1.0)	5.0	1.3 UJ	1.6	ND(1.0)	ND(1.0)	ND(1.0)	--	--
AMMONIA NITROGEN	mg/l	ND(0.01)	0.01	ND(0.01)	ND(0.03)	ND(0.03)	ND(0.03)	ND(0.01)	--	--
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.10)	0.48	ND(0.10)	ND(0.10)	--	--
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	0	--	<100	62.0	40	22	--	--	--
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	ND(0.10)	ND(0.10)	ND(0.10)	ND(0.06)	ND(0.06)	ND(0.06)	ND(0.10)	--	--
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		8.6	8.3	8.7	8.02	8.26	8.5	--	--	--
SULFATE	mg/l	--	--	ND(0.10)	--	--	ND(0.10)	ND(0.10)	--	--
TOTAL PHENOLS	ug/l	ND(1)	ND(1)	ND(1)	2	ND(1.0)	ND(1.0)	ND(1)	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
ALUMINUM	mg/l	--	--	--	--	--	--	--	--	--
ANTIMONY	mg/l	--	--	--	--	--	--	--	--	--
ARSENIC	mg/l	--	--	--	--	--	--	--	--	--
BARIUM	mg/l	--	--	--	--	--	--	--	--	--
BERYLLIUM	mg/l	--	--	--	--	--	--	--	--	--
BISMUTH	mg/l	--	--	--	--	--	--	--	--	--
CADMIUM	mg/l	--	--	--	--	--	--	--	--	--
CALCIUM	mg/l	--	--	--	--	--	--	--	--	--
CHROMIUM	mg/l	--	--	--	--	--	--	--	--	--
COBALT	mg/l	--	--	--	--	--	--	--	--	--
COPPER	mg/l	--	--	--	--	--	--	--	--	--
CYANIDE, TOTAL	mg/l	--	--	--	--	--	--	--	--	--
IRON	mg/l	--	--	--	--	--	--	--	--	--
LEAD	mg/l	--	--	--	--	--	--	--	--	--
MAGNESIUM	mg/l	--	--	--	--	--	--	--	--	--
MANGANESE	mg/l	--	--	--	--	--	--	--	--	--
MERCURY	mg/l	--	--	--	--	--	--	--	--	--
MOLYBDENUM	mg/l	--	--	--	--	--	--	--	--	--
NICKEL	mg/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		FBLK1			FBLK2				TBLK	
Sample Date:		04/05/95	07/11/95	11/07/95	04/27/92	04/07/93	07/02/93	04/05/95	12/29/87	02/22/88
Parameters	*Units*									
Metals (Cont'd)										
POTASSIUM	mg/l	--	--	--	--	--	--	--	--	--
SELENIUM	mg/l	--	--	--	--	--	--	--	--	--
SILVER	mg/l	--	--	--	--	--	--	--	--	--
SODIUM	mg/l	--	--	--	--	--	--	--	--	--
STRONTIUM	mg/l	--	--	--	--	--	--	--	--	--
TIN	mg/l	--	--	--	--	--	--	--	--	--
TITANIUM	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
TUNGSTEN	mg/l	--	--	--	--	--	--	--	--	--
VANADIUM	mg/l	--	--	--	--	--	--	--	--	--
ZINC	mg/l	--	--	--	--	--	--	--	--	--
Volatile Organics										
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1)	ND(1)	--	--	ND(1.0)	ND(1)	4.1	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	--	--	--	ND(2)	ND(1.0)
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	--	--	--	ND(0.5)	ND(1.0)
1,1,2-TRICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	--	ND(1)	ND(1)	--	--	ND(1.0)	ND(1)	ND(0.2)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	1.6	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	ND(0.3)	ND(1.0)
1,2-DICHLOROETHANE	ug/l	--	ND(1)	ND(1)	--	--	ND(1.0)	ND(1)	ND(0.2)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	--	--	--	ND(0.2)	ND(1.0)
1,3-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1)	--	--	ND(1.0)	ND(1)	ND(0.3)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	--	ND(1)	ND(1)	--	--	ND(1.0)	ND(1)	ND(0.3)	ND(1.0)
2-BUTANONE	ug/l	--	--	--	--	--	--	--	--	(a)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	--	ND(10)	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	ND(0.2)	--
ACETONE	ug/l	--	--	--	--	--	--	--	--	(a)
BENZENE	ug/l	--	ND(0.5)	ND(0.5)	--	--	ND(0.5)	ND(0.5)	ND(2)	ND(0.5)
BROMOFORM	ug/l	--	--	--	--	--	--	--	ND(2)	ND(1.0)
BROMOMETHANE	ug/l	--	--	--	--	--	--	--	ND(0.2)	ND(2.0)
CARBON TETRACHLORIDE	ug/l	--	--	--	--	--	--	--	ND(1)	ND(1.0)
CHLOROBENZENE	ug/l	--	ND(0.5)	ND(0.5)	--	--	ND(0.5)	ND(0.5)	ND(0.2)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	--	--	--	--	ND(0.2)	ND(2.0)
CHLOROFORM	ug/l	--	--	--	--	--	--	--	0.3	1.81
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	ND(1.0)
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	ND(0.5)	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	--	--	--	ND(0.2)	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	--	--	--	ND(0.2)	ND(1.0)

001281

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		FBLK1			FBLK2				TBLK	
Sample Date:		04/05/95	07/11/95	11/07/95	04/27/92	04/07/93	07/02/93	04/05/95	12/29/87	02/22/88
Parameters	Units									
Volatile Organics (Cont'd)										
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	ND(2.0)
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	--	ND(0.5)	ND(0.5)	--	--	ND(0.5)	ND(0.5)	ND(0.2)	ND(0.5)
M&P-XYLENE	ug/l	--	--	--	--	--	ND(0.5)	--	ND(0.3)	ND(0.5)
MESITYLENE	ug/l	--	--	--	--	--	--	--	ND(0.2)	--
METHYL CHLORIDE	ug/l	--	--	--	--	--	--	--	ND(0.2)	ND(2.0)
METHYLENE CHLORIDE	ug/l	--	--	--	--	--	--	--	ND(10)	3.38
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	ND(0.2)	--
O-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	--	--	ND(0.5)	ND(0.5)	ND(0.2)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	ND(0.2)	--
P+M-XYLENE	ug/l	--	ND(0.5)	ND(0.5)	--	--	--	ND(0.5)	--	--
STYRENE	ug/l	--	--	--	--	--	--	--	ND(0.2)	(a)
TETRACHLOROETHYLENE	ug/l	--	ND(1)	ND(1)	--	--	ND(1.0)	ND(1)	ND(0.2)	ND(1.0)
THF	ug/l	--	--	--	--	--	--	--	--	(a)
TOLUENE	ug/l	--	2.5	ND(0.5)	--	--	ND(0.5)	ND(0.5)	ND(3)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	ND(0.2)	ND(1.0)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	ND(0.2)	ND(1.0)
TRICHLOROETHANE	ug/l	--	--	--	--	--	ND(1.0)	--	--	--
TRICHLOROETHYLENE	ug/l	--	ND(1)	ND(1)	--	--	--	ND(1)	ND(0.2)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	ND(0.5)	ND(2.0)
VINYL CHLORIDE	ug/l	--	--	--	--	--	--	--	ND(0.5)	ND(2.0)
Pesticides and PCB's										
2,4,5-TP (SILVEX)	ug/l	--	--	--	--	--	--	--	--	--
2,4-D	ug/l	--	--	--	--	--	--	--	--	--
2,4-DDT	ug/l	--	--	--	--	--	--	--	--	--
4,4-DDT	ug/l	--	--	--	--	--	--	--	--	--
ALDRIN	ug/l	--	--	--	--	--	--	--	--	--
ALPHA-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	--
CARBARYL	ug/l	--	--	--	--	--	--	--	--	--
DIAZINON	ug/l	--	--	--	--	--	--	--	--	--
DIELDRIN	ug/l	--	--	--	--	--	--	--	--	--
ENDRIN	ug/l	--	--	--	--	--	--	--	--	--
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	--
HEPTACHLOR	ug/l	--	--	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	ug/l	--	--	--	--	--	--	--	--	--
LINDANE	ug/l	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	ug/l	--	--	--	--	--	--	--	--	--
METHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	--
PARATHION	ug/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		FBLK1			FBLK2				TBLK	
Sample Date:		04/05/95	07/11/95	11/07/95	04/27/92	04/07/93	07/02/93	04/05/95	12/29/87	02/22/88
Parameters	*Units*									
Pesticides and PCB's (Cont'd)										
TOTAL PCB	ug/l	--	--	--	--	--	--	--	--	--
TOXAPHENE	ug/l	--	--	--	--	--	--	--	--	--
Biological Testing										
BACKGROUND CFU	/100ml	--	--	ND(1) UJ	--	--	--	ND(1)	--	--
ESCHERICHIA COLI	/100ml	--	--	ND(1) UJ	--	--	--	ND(1)	--	--
FAECAL COLIFORM	/100ml	--	--	ND(1) UJ	--	--	--	ND(1)	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	ND(1) UJ	--	--	--	ND(1)	--	--
TOTAL COLIFORMS	/100ml	--	--	ND(1) UJ	--	--	--	ND(1)	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		TBLK					TBLK1
Sample Date:		07/25/89	11/16/89	11/18/89	08/01/90	09/27/90	10/30/91
Parameters	*Units*						
Base Neutrals/SVOC							
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	--	--	--	ND(2)	ND(2)
General Chemistry							
ALKALINITY	mg/l	--	--	--	--	--	--
AMMONIA NITROGEN	mg/l	--	--	--	--	--	--
BOD	mg/l	--	--	--	--	--	--
CHLORIDE	mg/l	--	--	--	--	--	--
COD	mg/l	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	--	--	--	--	--
FLUORIDE	mg/l	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	--	--	--	--	--
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--
PH		--	--	--	--	--	--
SULFATE	mg/l	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--
Metals							
ALUMINUM	mg/l	--	--	--	--	--	--
ANTIMONY	mg/l	--	--	--	--	--	--
ARSENIC	mg/l	--	--	--	--	--	--
BARIUM	mg/l	--	--	--	--	--	--
BERYLLIUM	mg/l	--	--	--	--	--	--
BISMUTH	mg/l	--	--	--	--	--	--
CADMIUM	mg/l	--	--	--	--	--	--
CALCIUM	mg/l	--	--	--	--	--	--
CHROMIUM	mg/l	--	--	--	--	--	--
COBALT	mg/l	--	--	--	--	--	--
COPPER	mg/l	--	--	--	--	--	--
CYANIDE, TOTAL	mg/l	--	--	--	--	--	--
IRON	mg/l	--	--	--	--	--	--
LEAD	mg/l	--	--	--	--	--	--
MAGNESIUM	mg/l	--	--	--	--	--	--
MANGANESE	mg/l	--	--	--	--	--	--
MERCURY	mg/l	--	--	--	--	--	--
MOLYBDENUM	mg/l	--	--	--	--	--	--
NICKEL	mg/l	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		TBLK					TBLK1
Sample Date:		07/25/89	11/16/89	11/18/89	08/01/90	09/27/90	10/30/91
Parameters	*Units*						
Metals (Cont'd)							
POTASSIUM	mg/l	--	--	--	--	--	--
SELENIUM	mg/l	--	--	--	--	--	--
SILVER	mg/l	--	--	--	--	--	--
SODIUM	mg/l	--	--	--	--	--	--
STRONTIUM	mg/l	--	--	--	--	--	--
TIN	mg/l	--	--	--	--	--	--
TITANIUM	mg/l	--	--	--	--	--	--
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--
TUNGSTEN	mg/l	--	--	--	--	--	--
VANADIUM	mg/l	--	--	--	--	--	--
ZINC	mg/l	--	--	--	--	--	--
Volatile Organics							
1,1,1-TRICHLOROETHANE	ug/l	ND(0.24)	--	ND(0.50)	ND(1)	ND(1.0)	--
1,1,2,2-TETRACHLOROETHANE	ug/l	ND(0.33)	--	ND(0.33)	ND(2)	ND(2.0)	--
1,1,2-TRICHLOROETHANE	ug/l	--	ND(0.21)	--	ND(2)	ND(2.0)	--
1,1,2-TRICHLOROETHYLENE	ug/l	ND(0.21)	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	ND(0.20)	ND(0.20)	--	ND(1)	ND(1.0)	--
1,1-DICHLOROETHYLENE	ug/l	ND(0.32)	--	ND(0.32)	ND(1)	ND(1.0)	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	ND(0.50)	--	--	--
1,2-DICHLOROBENZENE	ug/l	ND(0.24)	--	--	ND(1)	ND(1.0)	--
1,2-DICHLOROETHANE	ug/l	ND(0.82)	--	ND(0.82)	ND(1)	ND(1.0)	--
1,2-DICHLOROPROPANE	ug/l	ND(0.20)	--	ND(0.20)	ND(1)	ND(1.0)	--
1,3-DICHLOROBENZENE	ug/l	ND(0.23)	--	ND(0.23)	ND(1)	ND(1.0)	--
1,4-DICHLOROBENZENE	ug/l	ND(0.22)	ND(0.22)	--	ND(1)	ND(1.0)	--
2-BUTANONE	ug/l	--	--	--	--	--	--
2-CHLOROETHYLVINYLETHER	ug/l	ND(0.40)	ND(0.50)	--	ND(10)	ND(10)	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--
ACETONE	ug/l	--	--	--	--	--	--
BENZENE	ug/l	ND(0.50)	ND(0.19)	--	0.7	ND(0.5)	--
BROMOFORM	ug/l	ND(0.49)	ND(0.49)	--	ND(2)	ND(2.0)	--
BROMOMETHANE	ug/l	ND(0.83)	ND(0.83)	--	ND(2)	ND(2.0)	--
CARBON TETRACHLORIDE	ug/l	ND(0.93)	--	ND(0.93)	ND(1)	ND(1.0)	--
CHLOROBENZENE	ug/l	ND(0.27)	--	ND(0.27)	ND(0.5)	ND(0.5)	--
CHLOROETHANE	ug/l	ND(0.40)	ND(0.50)	--	ND(2)	ND(2.0)	--
CHLOROFORM	ug/l	ND(0.51)	ND(0.51)	--	ND(1)	1.7 U	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	ND(1)	ND(1.0)	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND(0.27)	--	ND(0.27)	ND(1)	ND(1.0)	--
DIBROMOCHLOROMETHANE	ug/l	ND(0.24)	--	ND(0.24)	ND(1)	ND(1.0)	--
DICHLOROBROMOMETHANE	ug/l	ND(0.24)	--	ND(0.50)	ND(2)	ND(2.0)	--

001285

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		TBLK					TBLK1
Sample Date:		07/25/89	11/16/89	11/18/89	08/01/90	09/27/90	10/30/91
Parameters	*Units*						
Volatile Organics (Cont'd)							
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	ND(0.50)	--	--	--
ETHYLBENZENE	ug/l	ND(0.24)	--	ND(0.24)	ND(0.5)	ND(0.5)	--
M&P-XYLENE	ug/l	--	ND(0.21)	--	--	--	--
MESITYLENE	ug/l	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	ND(0.65)	ND(0.65)	--	ND(2)	ND(2.0)	--
METHYLENE CHLORIDE	ug/l	ND(0.92)	ND(0.92)	--	11.8	113 U	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--
O-XYLENE	ug/l	--	ND(0.19)	--	--	--	--
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--
STYRENE	ug/l	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	ND(0.21)	--	ND(0.21)	ND(1)	ND(1.0)	--
THF	ug/l	--	--	--	--	--	--
TOLUENE	ug/l	ND(0.24)	ND(0.24)	--	ND(0.5)	0.7 U	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	ND(0.20)	1.31	--	ND(1)	ND(1.0)	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	ND(0.10)	--	--	ND(1)	ND(1.0)	--
TRICHLOROETHANE	ug/l	--	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	ND(0.39)	--	ND(0.92)	ND(1)	ND(1.0)	--
TRICHLOROFLUOROMETHANE	ug/l	ND(0.26)	ND(0.26)	--	ND(2)	ND(2.0)	--
VINYL CHLORIDE	ug/l	ND(0.74)	ND(0.74)	--	ND(2)	ND(2.0)	--
Pesticides and PCB's							
2,4,5-TP (SILVEX)	ug/l	--	--	--	--	--	--
2,4-D	ug/l	--	--	--	--	--	--
2,4-DDT	ug/l	--	--	--	--	--	--
4,4-DDT	ug/l	--	--	--	--	--	--
ALDRIN	ug/l	--	--	--	--	--	--
ALPHA-CHLORDANE	ug/l	--	--	--	--	--	--
CARBARYL	ug/l	--	--	--	--	--	--
DIAZINON	ug/l	--	--	--	--	--	--
DIELDRIN	ug/l	--	--	--	--	--	--
ENDRIN	ug/l	--	--	--	--	--	--
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	--
HEPTACHLOR	ug/l	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	ug/l	--	--	--	--	--	--
LINDANE	ug/l	--	--	--	--	--	--
METHOXYCHLOR	ug/l	--	--	--	--	--	--
METHYL PARATHION	ug/l	--	--	--	--	--	--
PARATHION	ug/l	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table A.3
Groundwater QAQC Analytical Results

Location:		TBLK					TBLK1
Sample Date:		07/25/89	11/16/89	11/18/89	08/01/90	09/27/90	10/30/91
Parameters	*Units*						
Pesticides and PCB's (Cont'd)							
TOTAL PCB	ug/l	--	--	--	--	--	--
TOXAPHENE	ug/l	--	--	--	--	--	--
Biological Testing							
BACKGROUND CFU	/100ml	--	--	--	--	--	--
ESCHERICHIA COLI	/100ml	--	--	--	--	--	--
FAECAL COLIFORM	/100ml	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

APPENDIX G-3

LEACHATE CHARACTERIZATION

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table C.1
General Chemistry, Metals, Biological Testing
Leachate Analytical Results

Location:		MHFB	LW1	LW1	LW2	LW2	LW3	LW3	LW3	LW4
Sample Date:		04/20/94	05/28/86	05/12/88	05/28/86	05/12/88	05/28/86	05/12/88	05/12/88 Dupl.	05/28/86
Parameters	*Units*									
General Chemistry										
ALKALINITY	mg/l	--	2830	3370	1270	2080	980	1320	1340	1350
AMMONIA NITROGEN	mg/l	--	15.00	400	60.00	135	160.00	0.31	ND(0.02)	27.00
BOD	mg/l	--	--	--	--	--	--	--	--	--
CHLORIDE	mg/l	--	3230	3180	1220	1080	329	506	540	1940
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	12300	11690	7000	5470	3300	3330	3330	5777
DOC	mg/l	--	340.0	--	90.0	--	28.0	--	--	54.0
FLUORIDE	mg/l	--	--	--	--	--	--	--	--	--
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	2080	--	1030	--	2060	--	--	3030
KJELDAHL NITROGEN	mg/l	--	790.00	444	210.0	149	198.00	4.01	3.05	31.00
NITRATE	mg/l	--	0.10	--	ND(0.01)	--	ND(0.01)	--	--	0.01
NITRITE	mg/l	--	0.030	--	ND(0.02)	--	0.006	--	--	ND(0.02)
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		8.5	7.57	6.95	7.43	7	6.68	6.73	6.73	6.91
SULFATE	mg/l	--	ND(5)	ND(1)	65	ND(1.0)	65	331	361	ND(5)
SULFIDE	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	ND(2.0)	ND(1.0)	ND(2.0)	ND(1.0)	ND(2.0)	ND(1.0)	20	ND(2.0)
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	--	--	--	--
Metals										
ALUMINUM	mg/l	--	--	--	--	--	--	--	--	--
ANTIMONY	mg/l	--	--	--	--	--	--	--	--	--
ARSENIC	mg/l	--	--	--	--	--	--	--	--	--
BARIUM	mg/l	--	--	--	--	--	--	--	--	--
BERYLLIUM	mg/l	--	--	--	--	--	--	--	--	--
BISMUTH	mg/l	--	--	--	--	--	--	--	--	--
BORON	mg/l	--	--	--	--	--	--	--	--	--
CADMIUM	mg/l	--	--	--	--	--	--	--	--	--
CALCIUM	mg/l	--	--	--	--	--	--	--	--	--
CHROMIUM	mg/l	--	--	--	--	--	--	--	--	--
COBALT	mg/l	--	--	--	--	--	--	--	--	--
COPPER	mg/l	--	--	--	--	--	--	--	--	--
CYANIDE	mg/l	--	--	--	--	--	--	--	--	--
CYANIDE FREE	mg/l	--	--	--	--	--	--	--	--	--
CYANIDE, TOTAL	mg/l	--	--	--	--	--	--	--	--	--

001290

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table C.1
General Chemistry, Metals, Biological Testing
Leachate Analytical Results

Location:		MHFB	LW1	LW1	LW2	LW2	LW3	LW3	LW3	LW4
Sample Date:		04/20/94	05/28/86	05/12/88	05/28/86	05/12/88	05/28/86	05/12/88	05/12/88 Dupl.	05/28/86
Parameters	*Units*									
Metals (Cont'd)										
IRON	mg/l	–	1.10	–	0.40	–	0.04	–	–	6.90
LEAD	mg/l	–	–	–	–	–	–	–	–	–
LITHIUM	mg/l	–	–	–	–	–	–	–	–	–
MAGNESIUM	mg/l	–	–	–	–	–	–	–	–	–
MANGANESE	mg/l	–	–	–	–	–	–	–	–	–
MERCURY	mg/l	–	–	–	–	–	–	–	–	–
MOLYBDENUM	mg/l	–	–	–	–	–	–	–	–	–
NICKEL	mg/l	–	–	–	–	–	–	–	–	–
PHOSPHORUS	mg/l	–	–	–	–	–	–	–	–	–
POTASSIUM	mg/l	–	–	–	–	–	–	–	–	–
SELENIUM	mg/l	–	–	–	–	–	–	–	–	–
SILICON	mg/l	–	–	–	–	–	–	–	–	–
SILVER	mg/l	–	–	–	–	–	–	–	–	–
SODIUM	mg/l	–	–	–	–	–	–	–	–	–
STRONTIUM	mg/l	–	–	–	–	–	–	–	–	–
SULFUR	mg/l	–	–	–	–	–	–	–	–	–
THALLIUM	mg/l	–	–	–	–	–	–	–	–	–
TIN	mg/l	–	–	–	–	–	–	–	–	–
TITANIUM	mg/l	–	–	–	–	–	–	–	–	–
TOTAL PHOSPHORUS	mg/l	–	–	–	–	–	–	–	–	–
TUNGSTEN	mg/l	–	–	–	–	–	–	–	–	–
VANADIUM	mg/l	–	–	–	–	–	–	–	–	–
ZINC	mg/l	–	–	–	–	–	–	–	–	–
Biological Testing										
FAECAL COLIFORM	/100ml	–	ND(1)	220	ND(1)	210	ND(1)	ND(1)	6	ND(1)
FAECAL STREPTOCOCCI	/100ml	–	10	2	ND(1)	2	ND(1)	ND(1)	ND(1)	ND(1)
TOTAL COLIFORMS	/100ml	–	ND(1)	63000	ND(1)	970	ND(1)	ND(1)	100	130

Bayview Landfill Site
Burlington, Ontario

Table C.1
General Chemistry, Metals, Biological Testing
Leachate Analytical Results

Location:		LW4	LW5	LW5	LW6	LW6	MH13	MH13	MH13	MH13
Sample Date:		05/12/88	05/28/86	05/12/88	05/28/86	05/12/88	03/19/87	05/04/87	06/15/87	08/17/87
Parameters	*Units*									
General Chemistry										
ALKALINITY	mg/l	316	1730	193	492	462	--	--	--	--
AMMONIA NITROGEN	mg/l	27.9	70.00	39.5	0.15	ND(0.02)	--	--	0.20	0.52
BOD	mg/l	--	--	--	--	--	42.0	27.0	--	25.8
CHLORIDE	mg/l	1710	485	290	109	90	555	674	--	927
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	5910	2630	2190	1236	1080	--	--	1650	1680
DOC	mg/l	--	33.0	--	3.0	--	--	--	--	--
FLUORIDE	mg/l	--	--	--	--	--	ND(0.1)	1.1	--	0.2
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	0.240	0.63
HARDNESS	mg/l	--	864	--	760	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	39.7	80.00	52.8	1.03	5.41	--	--	1.15	1.23
NITRATE	mg/l	--	ND(0.01)	--	0.04	--	--	--	--	--
NITRITE	mg/l	--	0.011	--	0.002	--	--	--	--	--
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	0.95	0.71
PH		5.75	7.02	5.18	7.38	5.43	7.68	6.70	7.12	6.80
SULFATE	mg/l	ND(1.0)	500	ND(1.0)	145	142	375	ND(0.5)	--	ND(0.5)
SULFIDE	mg/l	--	--	--	--	--	ND(0.5)	ND(0.5)	--	ND(0.5)
TOTAL PHENOLS	ug/l	154	2.2	9	3.8	26	ND(3.0)	ND(3.0)	--	--
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	--	15.0	102.0	--	92.9
Metals										
ALUMINUM	mg/l	--	--	--	--	--	0.02	0.050	--	ND(0.05)
ANTIMONY	mg/l	--	--	--	--	--	ND(0.001)	--	--	ND(0.1)
ARSENIC	mg/l	--	--	--	--	--	ND(0.0005)	0.002	--	ND(0.01)
BARIUM	mg/l	--	--	--	--	--	0.17	0.550	--	ND(0.1)
BERYLLIUM	mg/l	--	--	--	--	--	ND(0.01)	0.0012	--	ND(0.5)
BISMUTH	mg/l	--	--	--	--	--	--	--	--	ND(0.1)
BORON	mg/l	--	--	--	--	--	--	--	--	--
CADMIUM	mg/l	--	--	--	--	--	ND(0.001)	ND(0.001)	--	0.011
CALCIUM	mg/l	--	--	--	--	--	--	--	--	--
CHROMIUM	mg/l	--	--	--	--	--	0.008	0.014	--	ND(0.01)
COBALT	mg/l	--	--	--	--	--	ND(0.005)	0.021	--	ND(0.0)
COPPER	mg/l	--	--	--	--	--	0.015	0.064	--	0.15
CYANIDE	mg/l	--	--	--	--	--	ND(0.01)	0.012	--	0.07
CYANIDE FREE	mg/l	--	--	--	--	--	--	--	--	--
CYANIDE, TOTAL	mg/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.1
General Chemistry, Metals, Biological Testing
Leachate Analytical Results

Location:		LW4	LW5	LW5	LW6	LW6	MH13	MH13	MH13	MH13
Sample Date:		05/12/88	05/28/86	05/12/88	05/28/86	05/12/88	03/19/87	05/04/87	06/15/87	08/17/87
Parameters	*Units*									
Metals (Cont'd)										
IRON	mg/l	--	0.30	--	2.10	--	1.44	3.250	--	13.5
LEAD	mg/l	--	--	--	--	--	ND(0.005)	0.004	--	ND(0.04)
LITHIUM	mg/l	--	--	--	--	--	--	--	--	--
MAGNESIUM	mg/l	--	--	--	--	--	--	--	--	--
MANGANESE	mg/l	--	--	--	--	--	0.92	0.40	--	0.25
MERCURY	mg/l	--	--	--	--	--	0.003	0.0017	--	0.009
MOLYBDENUM	mg/l	--	--	--	--	--	0.01	ND(0.01)	--	ND(0.5)
NICKEL	mg/l	--	--	--	--	--	0.014	0.051	--	ND(0.02)
PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
POTASSIUM	mg/l	--	--	--	--	--	--	--	--	--
SELENIUM	mg/l	--	--	--	--	--	ND(0.01)	ND(0.002)	--	ND(0.001)
SILICON	mg/l	--	--	--	--	--	--	--	--	--
SILVER	mg/l	--	--	--	--	--	--	--	--	--
SODIUM	mg/l	--	--	--	--	--	--	--	--	--
STRONTIUM	mg/l	--	--	--	--	--	--	--	--	--
SULFUR	mg/l	--	--	--	--	--	--	--	--	--
THALLIUM	mg/l	--	--	--	--	--	--	--	--	--
TIN	mg/l	--	--	--	--	--	--	--	--	--
TITANIUM	mg/l	--	--	--	--	--	ND(0.01)	ND(0.002)	--	ND(1.0)
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	ND(0.05)	ND(0.05)	--	ND(1.0)
TUNGSTEN	mg/l	--	--	--	--	--	0.14	ND(0.01)	--	0.19
VANADIUM	mg/l	--	--	--	--	--	--	--	--	--
ZINC	mg/l	--	--	--	--	--	ND(0.02)	ND(0.02)	--	ND(1.0)
							0.014	0.069	--	0.22
Biological Testing										
FAECAL COLIFORM	/100ml	800	ND(1)	40	230	ND(1)	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	310	ND(1)	ND(1)	650	ND(1)	--	--	--	--
TOTAL COLIFORMS	/100ml	1800	11000	200	4000	ND(1)	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.1
General Chemistry, Metals, Biological Testing
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13
Sample Date:		11/10/87	01/16/88	05/12/88	08/16/88	11/28/88	01/18/89	05/24/89	05/24/89 Lab Dupl.	07/25/89
Parameters	*Units*									
General Chemistry										
ALKALINITY	mg/l	--	--	--	--	1300	1250	1290	--	312
AMMONIA NITROGEN	mg/l	--	--	75.1	93.3	50.6	63.5	72.2	--	105
BOD	mg/l	11.0	--	6.68	ND(5.0)	12.0	ND(5.0)	ND(5.0)	--	--
CHLORIDE	mg/l	--	--	583	740	--	508	490	--	670
COD	mg/l	--	--	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	--	--	--	--	--	3500	--	3460
DOC	mg/l	--	--	--	--	--	--	--	--	--
FLUORIDE	mg/l	0.29	--	2.5	2.3	0.36	0.42	0.32	0.28	0.28
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	--	--	--	88.5	70.4	103	--	111
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		7.20	--	--	7.50	7.03	7.34	7.20	--	7.11
SULFATE	mg/l	190	--	244	332	--	142	324	--	284
SULFIDE	mg/l	ND(0.5)	--	--	ND(0.1)	--	ND(0.1)	ND(0.1)	--	ND(0.1)
TOTAL PHENOLS	ug/l	ND(1)	ND(4.0)	ND(1)	ND(4)	4	4.0	4	--	5
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	45.8	--	--	25.0	--	4.2	30.1	--	--
Metals										
ALUMINUM	mg/l	ND(0.5)	--	0.2	0.14	0.16	0.30	0.46	--	0.26
ANTIMONY	mg/l	ND(0.1)	--	ND(0.002)	ND(0.004)	ND(0.002)	ND(0.001)	--	--	--
ARSENIC	mg/l	0.05	--	ND(0.001)	0.003	0.002	0.002	0.003	0.004	ND(0.001)
BARIUM	mg/l	0.25	--	0.3	0.38	0.34	0.34	0.32	--	0.29
BERYLLIUM	mg/l	ND(0.5)	--	ND(0.004)	ND(0.004)	ND(0.01)	ND(0.01)	--	--	--
BISMUTH	mg/l	--	--	--	--	ND(0.002)	ND(0.002)	--	--	--
BORON	mg/l	--	--	--	--	--	--	--	--	--
CADMIUM	mg/l	0.013	--	0.0005	0.0049	ND(0.0002)	0.0002	0.0008	--	0.0006
CALCIUM	mg/l	--	--	--	--	--	--	--	--	--
CHROMIUM	mg/l	0.03	--	0.02	0.02	0.01	0.02	17.0	--	ND(0.01)
COBALT	mg/l	ND(0.05)	--	ND(0.02)	ND(0.02)	0.02	0.02	--	--	--
COPPER	mg/l	0.07	--	0.025	0.015	0.010	0.015	0.030	--	0.020 U
CYANIDE	mg/l	0.26	--	0.003	ND(0.002)	ND(0.002)	0.003	0.034	--	ND(0.002)
CYANIDE FREE	mg/l	--	--	--	--	--	--	--	--	--
CYANIDE, TOTAL	mg/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.1
General Chemistry, Metals, Biological Testing
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13
Sample Date:		11/10/87	01/16/88	05/12/88	08/16/88	11/28/88	01/18/89	05/24/89	05/24/89 Lab Dupl.	07/25/89
Parameters	*Units*									
Metals (Cont'd)										
IRON	mg/l	0.65	--	2.1	0.22	0.72	0.20	0.24	--	0.44
LEAD	mg/l	0.08	--	0.006	0.07	0.002	0.005	0.006	--	0.008
LITHIUM	mg/l	--	--	--	--	--	--	--	--	--
MAGNESIUM	mg/l	--	--	--	--	--	--	--	--	--
MANGANESE	mg/l	0.95	--	ND(0.01)	ND(0.01)	0.80	0.79	--	--	--
MERCURY	mg/l	0.0014	--	ND(0.00005)	ND(0.00005)	ND(0.00005)	ND(0.00005)	ND(0.00005)	--	0.0001
MOLYBDENUM	mg/l	ND(0.5)	--	ND(0.01)	ND(0.01)	0.06	0.10	--	--	--
NICKEL	mg/l	ND(0.02)	--	0.02	0.02	0.02	0.02	0.02	--	0.02
PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
POTASSIUM	mg/l	--	--	--	--	--	--	--	--	--
SELENIUM	mg/l	ND(0.007)	--	ND(0.002)	ND(0.002)	ND(0.001)	ND(0.001)	--	--	--
SILICON	mg/l	--	--	--	--	--	--	--	--	--
SILVER	mg/l	--	--	--	--	--	--	--	--	--
SODIUM	mg/l	--	--	--	--	--	--	--	--	--
STRONTIUM	mg/l	--	--	--	--	--	--	--	--	--
SULFUR	mg/l	--	--	--	--	--	--	--	--	--
THALLIUM	mg/l	--	--	--	--	--	--	--	--	--
TIN	mg/l	--	--	0.46	0.48	0.46	0.42	0.50	--	0.30
TITANIUM	mg/l	ND(1.0)	--	ND(0.05)	ND(0.05)	0.23	0.38	--	--	--
TOTAL PHOSPHORUS	mg/l	0.13	--	ND(0.002)	0.08	0.019	0.007	0.14	--	--
TUNGSTEN	mg/l	--	--	--	--	--	--	--	--	--
VANADIUM	mg/l	ND(1.0)	--	ND(0.02)	ND(0.02)	0.02	0.02	--	--	--
ZINC	mg/l	0.07	--	0.06	0.04	0.04	0.04	0.05	--	0.03
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	24	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	ND(1)	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	100	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.1
General Chemistry, Metals, Biological Testing
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13
Sample Date:		07/25/89	11/16/89	11/16/89	01/18/90	01/24/90	04/10/90	08/01/90	09/27/90	04/10/91
		Lab Dupl.		Lab Dupl.						
Parameters	*Units*									
General Chemistry										
ALKALINITY	mg/l	--	1181	--	--	1078	1173	1548	272	1015
AMMONIA NITROGEN	mg/l	--	28.7	--	--	13.6	29.1	105	90.5	59.0
BOD	mg/l	--	--	--	--	--	--	ND(5)	58	ND(2)
CHLORIDE	mg/l	--	400	--	--	357	420	605	625	482
COD	mg/l	--	--	--	--	--	--	201	150	96
CONDUCTIVITY	umhos/cm	--	2530	--	--	2550	2590	2980	--	2110
DOC	mg/l	--	--	--	--	--	--	--	--	--
FLUORIDE	mg/l	--	--	--	--	0.3	--	0.3	0.2	ND(0.10)
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	--	--	--	--	--	1185	1150	928
KJELDAHL NITROGEN	mg/l	--	56.3	--	--	54.3	43.7	138	120	67.8
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		--	7.14	--	--	7.25	6.75	7.07	--	6.5
SULFATE	mg/l	--	190	--	--	260	--	390 J	1192	180
SULFIDE	mg/l	--	--	--	--	ND(0.1)	--	--	--	--
TOTAL PHENOLS	ug/l	--	8	--	--	7	6	7	7	6
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--	--	--	16	--	46	38	15
Metals										
ALUMINUM	mg/l	--	0.34	--	--	0.24	--	--	--	--
ANTIMONY	mg/l	--	--	--	--	--	--	--	--	--
ARSENIC	mg/l	ND(0.002)	0.002	0.002	--	3	--	--	0.003	--
BARIUM	mg/l	--	0.32	--	--	0.25	--	--	0.404	--
BERYLLIUM	mg/l	--	--	--	--	--	--	--	--	--
BISMUTH	mg/l	--	--	--	--	--	--	--	ND(0.04)	--
BORON	mg/l	--	--	--	--	--	--	--	--	--
CADMIUM	mg/l	0.0008	0.0008	0.0008	--	0.010	--	--	ND(0.003)	--
CALCIUM	mg/l	--	--	--	--	--	--	--	--	--
CHROMIUM	mg/l	--	0.006	--	--	0.008	--	--	ND(0.005)	--
COBALT	mg/l	--	--	--	--	--	--	--	ND(0.005)	--
COPPER	mg/l	--	0.040	--	--	ND(0.003)	--	--	0.056	--
CYANIDE	mg/l	--	--	--	--	--	--	--	--	--
CYANIDE FREE	mg/l	--	ND(0.005)	--	--	--	--	--	--	--
CYANIDE, TOTAL	mg/l	--	ND(0.002)	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.1
General Chemistry, Metals, Biological Testing
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13
Sample Date:		07/25/89	11/16/89	11/16/89	01/18/90	01/24/90	04/10/90	08/01/90	09/27/90	04/10/91
		Lab Dupl.		Lab Dupl.						
Parameters	*Units*									
Metals (Cont'd)										
IRON	mg/l	--	1.76	--	--	0.30	--	--	0.162	--
LEAD	mg/l	--	0.006	0.006	--	0.10	--	--	0.033	--
LITHIUM	mg/l	--	--	--	--	--	--	--	--	--
MAGNESIUM	mg/l	--	--	--	--	--	--	--	--	--
MANGANESE	mg/l	--	--	--	--	--	--	--	--	--
MERCURY	mg/l	--	ND(0.00005)	--	--	0.10 R	--	--	ND(0.001)	--
MOLYBDENUM	mg/l	--	--	--	--	--	--	--	ND(0.006)	--
NICKEL	mg/l	--	0.04	--	--	0.026	--	--	0.020	--
PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
POTASSIUM	mg/l	--	--	--	--	--	--	--	--	--
SELENIUM	mg/l	--	--	--	--	--	--	--	ND(0.002)	--
SILICON	mg/l	--	--	--	--	--	--	--	--	--
SILVER	mg/l	--	--	--	--	--	--	--	--	--
SODIUM	mg/l	--	--	--	--	--	--	--	--	--
STRONTIUM	mg/l	--	--	--	--	--	--	--	--	--
SULFUR	mg/l	--	--	--	--	--	--	--	--	--
THALLIUM	mg/l	--	--	--	--	--	--	--	--	--
TIN	mg/l	--	0.20	--	--	0.20	--	--	--	--
TITANIUM	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	0.163	0.033	0.162
TUNGSTEN	mg/l	--	--	--	--	--	--	--	--	--
VANADIUM	mg/l	--	--	--	0.02	--	--	--	--	--
ZINC	mg/l	--	0.09	--	--	0.016	--	--	0.083	--
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.1
General Chemistry, Metals, Biological Testing
Leachate Analytical Results

Location:		MH13	MH15	MH15	MH15	MH15	MH15	MH15	MH15	MH15
Sample Date:		04/19/91	10/30/91	04/27/92	10/25/92	01/25/93	04/07/93	10/19/93	04/19/94	04/20/94
Parameters	*Units*									
General Chemistry										
ALKALINITY	mg/l	--	1317	900	1141	--	1104	1254	--	1061
AMMONIA NITROGEN	mg/l	--	0.19	17.7	80.8	--	38.0	86.5	--	29.2
BOD	mg/l	--	21	5	14	--	16	10	--	34
CHLORIDE	mg/l	--	693	251	474	--	335	574	--	346
COD	mg/l	--	147	187	248	--	162	170	--	125
CONDUCTIVITY	umhos/cm	--	--	2845	2600	--	1400	3600	2800	--
DOC	mg/l	--	--	--	--	--	--	--	--	--
FLUORIDE	mg/l	--	ND(0.10)	0.65	ND(0.10)	--	ND(0.10)	ND(0.10)	--	ND(0.10)
FREE AMMONIA	mg/l	--	--	--	--	--	--	--	--	--
HARDNESS	mg/l	--	1103	1076	1186	--	980	1200	--	1040
KJELDAHL NITROGEN	mg/l	--	88.4	27.6	151	--	40.0	90.9	--	36.3
NITRATE	mg/l	--	--	--	--	--	--	--	--	--
NITRITE	mg/l	--	--	--	--	--	--	--	--	--
ORGANIC NITROGEN	mg/l	--	--	--	--	--	--	--	--	--
PH		--	--	7.20	7.18	--	6.96	7.3	--	7.7
SULFATE	mg/l	--	201	171	202	--	140	174	--	153
SULFIDE	mg/l	--	--	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	6	2	6.0	--	3.7	6.6	--	ND(1)
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	10	20	57	--	76	41	--	352
Metals										
ALUMINUM	mg/l	--	0.068 U	0.083	0.187 U	--	0.034	0.323 U	--	0.180 U
ANTIMONY	mg/l	--	--	--	--	ND(0.002)	ND(0.05)	ND(0.002)	--	ND(0.002)
ARSENIC	mg/l	0.003	ND(0.002)	0.004	0.004	--	ND(0.06)	ND(0.01)	--	ND(0.002)
BARIUM	mg/l	0.332	0.309	0.230	0.406	--	0.260	0.389	--	0.337
BERYLLIUM	mg/l	--	ND(0.003)	ND(0.003)	ND(0.003)	--	ND(0.003)	--	--	--
BISMUTH	mg/l	ND(0.04)	ND(0.04)	ND(0.04)	ND(0.04)	--	ND(0.04)	ND(0.04)	--	ND(0.04)
BORON	mg/l	--	--	--	--	--	1.26	--	--	--
CADMIUM	mg/l	ND(0.003)	ND(0.003)	ND(0.003)	ND(0.003)	--	ND(0.003)	0.004	--	ND(0.0002)
CALCIUM	mg/l	--	194	181	217	--	180	--	--	--
CHROMIUM	mg/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	--	ND(0.005)	ND(0.005)	--	0.006
COBALT	mg/l	ND(0.005)	0.005	ND(0.005)	0.005	--	ND(0.005)	0.005	--	ND(0.005)
COPPER	mg/l	--	0.159	0.053	0.149	--	0.186	18.9	--	1.52
CYANIDE	mg/l	--	--	--	--	--	--	--	--	--
CYANIDE FREE	mg/l	--	--	--	--	--	--	--	--	--
CYANIDE, TOTAL	mg/l	--	--	--	ND(0.005)	--	ND(0.005)	ND(0.005)	--	ND(0.005)

Bayview Landfill Site
Burlington, Ontario

Table C.1
General Chemistry, Metals, Biological Testing
Leachate Analytical Results

Location:		MH13	MH15	MH15	MH15	MH15	MH15	MH15	MH15	MH15
Sample Date:		04/19/91	10/30/91	04/27/92	10/25/92	01/25/93	04/07/93	10/19/93	04/19/94	04/20/94
Parameters	*Units*									
Metals (Cont'd)										
IRON	mg/l	--	0.096 U	4.44	10.4	--	4.13	16.6	--	17.6
LEAD	mg/l	0.036	0.031	0.037 U	0.062 U	--	0.021	0.096	--	0.022 U
LITHIUM	mg/l	--	--	--	--	--	ND(0.2)	--	--	--
MAGNESIUM	mg/l	--	170	107	152	--	111	--	--	--
MANGANESE	mg/l	--	0.654	0.514	0.921	--	0.528	0.888	--	0.521
MERCURY	mg/l	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)	--	ND(0.001)	ND(0.001)	--	ND(0.0002)
MOLYBDENUM	mg/l	ND(0.006)	ND(0.006)	ND(0.006)	ND(0.006)	--	ND(0.006)	ND(0.006)	--	ND(0.006)
NICKEL	mg/l	ND(0.01)	ND(0.01)	ND(0.01)	0.011	--	0.011	0.020	--	0.042 U
PHOSPHORUS	mg/l	--	--	--	--	--	ND(0.4)	--	--	--
POTASSIUM	mg/l	--	137	62.6	113	--	70.9	--	--	--
SELENIUM	mg/l	0.006	0.004 U	ND(0.002)	ND(0.002)	--	ND(0.05)	ND(0.01)	--	0.004
SILICON	mg/l	--	--	--	--	--	7.58	--	--	--
SILVER	mg/l	--	ND(0.01)	ND(0.01)	ND(0.01)	--	ND(0.01)	ND(0.007)	--	ND(0.0001)
SODIUM	mg/l	--	371	148	264	--	152	--	--	--
STRONTIUM	mg/l	--	5.86	3.86	7.22	--	3.81	--	--	--
SULFUR	mg/l	--	--	--	--	--	44.5	--	--	--
THALLIUM	mg/l	--	--	--	--	--	ND(0.06)	--	--	--
TIN	mg/l	--	--	--	--	ND(0.018)	ND(0.018)	ND(0.018)	--	ND(0.018)
TITANIUM	mg/l	--	ND(0.003)	ND(0.003)	ND(0.003)	--	ND(0.003)	0.005	--	ND(0.003)
TOTAL PHOSPHORUS	mg/l	--	ND(0.4)	0.067	0.075	--	0.09	0.167	--	0.14
TUNGSTEN	mg/l	--	ND(0.02)	ND(0.02)	ND(0.02)	--	ND(0.02)	--	--	--
VANADIUM	mg/l	--	0.004	0.006	0.007	--	0.005	0.006 U	--	0.009
ZINC	mg/l	0.159	0.027 U	0.025	0.035	--	0.056	0.902	--	0.111 U
Biological Testing										
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.1
General Chemistry, Metals, Biological Testing
Leachate Analytical Results

Location:		MH15	MH15	MHFB
Sample Date:		04/05/95	10/19/95	04/20/94
Parameters	*Units*			
General Chemistry				
ALKALINITY	mg/l	431	1184	ND(1.0)
AMMONIA NITROGEN	mg/l	110	52.7	ND(0.01)
BOD	mg/l	8	73	ND(2)
CHLORIDE	mg/l	328	569	ND(0.10)
COD	mg/l	142	151	ND(5)
CONDUCTIVITY	umhos/cm	2800	4040	--
DOC	mg/l	--	--	--
FLUORIDE	mg/l	ND(0.10)	ND(0.10)	ND(0.10)
FREE AMMONIA	mg/l	--	--	--
HARDNESS	mg/l	847	1020	ND(1.0)
KJELDAHL NITROGEN	mg/l	110	95	ND(0.10)
NITRATE	mg/l	--	--	--
NITRITE	mg/l	--	--	--
ORGANIC NITROGEN	mg/l	--	--	--
PH		7.5	7.54	--
SULFATE	mg/l	174	181	ND(0.10)
SULFIDE	mg/l	--	--	--
TOTAL PHENOLS	ug/l	8	9	ND(1)
TOTAL PHOSPHORUS	mg/l	0.58	0.82	--
TOTAL SUSPENDED SOLIDS	mg/l	100	152	ND(1)
Metals				
ALUMINUM	mg/l	0.151 U	0.039 U	0.058
ANTIMONY	mg/l	ND(0.002)	0.023	ND(0.002)
ARSENIC	mg/l	0.004 U	0.004	ND(0.002)
BARIUM	mg/l	0.384	0.391	ND(0.003)
BERYLLIUM	mg/l	--	--	--
BISMUTH	mg/l	ND(.04)	ND(0.04)	ND(0.04)
BORON	mg/l	--	--	--
CADMIUM	mg/l	ND(.003)	ND(0.003)	ND(0.0002)
CALCIUM	mg/l	--	--	--
CHROMIUM	mg/l	0.005	ND(0.005)	ND(0.005)
COBALT	mg/l	ND(.005)	ND(0.005)	ND(0.005)
COPPER	mg/l	3.77	0.485	0.020 U
CYANIDE	mg/l	--	--	--
CYANIDE FREE	mg/l	--	--	--
CYANIDE, TOTAL	mg/l	ND(.005)	0.006 J	ND(0.005)

001300

Bayview Landfill Site
Burlington, Ontario

Table C.1
General Chemistry, Metals, Biological Testing
Leachate Analytical Results

Location:		MH15	MH15	MHFB
Sample Date:		04/05/95	10/19/95	04/20/94
Parameters	*Units*			
Metals (Cont'd)				
IRON	mg/l	17.2	6.12	0.032 U
LEAD	mg/l	0.066	0.026	0.009
LITHIUM	mg/l	--	--	--
MAGNESIUM	mg/l	--	--	--
MANGANESE	mg/l	0.821	0.810	ND(0.001)
MERCURY	mg/l	ND(0.001)	ND(0.001) UJ	ND(0.0002)
MOLYBDENUM	mg/l	ND(.006)	ND(0.006)	ND(0.006)
NICKEL	mg/l	0.012	ND(0.01)	0.065
PHOSPHORUS	mg/l	--	--	--
POTASSIUM	mg/l	--	--	--
SELENIUM	mg/l	ND(0.002)	ND(0.002)	ND(0.002)
SILICON	mg/l	--	--	--
SILVER	mg/l	ND(.007)	ND(0.007)	ND(0.0001)
SODIUM	mg/l	--	--	--
STRONTIUM	mg/l	--	--	--
SULFUR	mg/l	--	--	--
THALLIUM	mg/l	--	--	--
TIN	mg/l	ND(.018)	ND(0.018)	0.052 U
TITANIUM	mg/l	ND(.003)	ND(0.003)	ND(0.003)
TOTAL PHOSPHORUS	mg/l	--	--	ND(0.10)
TUNGSTEN	mg/l	--	--	--
VANADIUM	mg/l	0.009	ND(0.003)	ND(0.003)
ZINC	mg/l	0.129	ND(0.003)	0.024 U
Biological Testing				
FAECAL COLIFORM	/100ml	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Table C.2
Volatile Organic Compounds
Leachate Analytical Results

Location:		LW1	LW2	LW3	LW4	LW4	LW5	LW6	MH13	MH13
Sample Date:		05/28/86	05/28/86	05/28/86	05/28/86	05/28/86 Dupl.	05/28/86	05/28/86	03/19/87	05/04/87
Parameters	Units									
1,1,1-TRICHLOROETHANE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
1,1,2-TRICHLOROETHANE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
1,1-DICHLOROETHANE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	–
1,2,4-TRICHLOROBENZENE	ug/l	–	–	–	ND(1.0)	ND(1.0)	–	–	–	ND(1.0)
1,2,4-TRIMETHYLBENZENE	ug/l	–	–	–	–	–	–	–	–	–
1,2-DICHLOROBENZENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	1.7	1.8	ND(1.0)	2.9	ND(1.0)	ND(1.0)
1,2-DICHLOROETHANE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
1,2-DICHLOROETHYLENE	ug/l	–	–	–	–	–	–	–	–	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
1,2-DICHLOROPROPYLENE	ug/l	–	–	–	–	–	–	–	–	–
1,3-DICHLOROBENZENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	82.0
1,4-DICHLOROBENZENE	ug/l	18.6	3.1	11.7	11.3	11.5	ND(1.0)	ND(1.0)	ND(2.0)	7.8
2-CHLOROETHYLVINYLETHER	ug/l	–	–	–	–	–	–	–	–	–
A-METHYLSTYRENE	ug/l	–	–	–	–	–	–	–	–	–
ACROLEIN	ug/l	–	–	–	–	–	–	–	–	–
ACRONITRILE	ug/l	–	–	–	–	–	–	–	–	–
ACRYLONITRILE	ug/l	–	–	–	–	–	–	–	–	–
BENZENE	ug/l	8.3	12.3	17.7	21.0	21.7	ND(0.5)	ND(0.5)	ND(1.0)	48.4
BIS(CHLOROMETHYL)ETHER	ug/l	–	–	–	–	–	–	–	–	–
BROMOFORM	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
BROMOMETHANE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	–	ND(2.0)
CARBON TETRACHLORIDE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
CHLOROBENZENE	ug/l	25.9	22.5	51.9	32.4	37.0	ND(0.5)	5.2	ND(1.0)	299
CHLOROETHANE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	–	ND(2.0)
CHLOROFORM	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
CIS-1,2-DICHLOROETHYLENE	ug/l	–	–	–	–	–	–	–	–	–
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
DICHLORODIFLUOROMETHANE	ug/l	–	–	–	–	–	–	–	–	8.1
DICHLOROFLUOROMETHANE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	–	–
ETHYL PARATHION	ug/l	–	–	–	–	–	–	–	–	–
ETHYLBENZENE	ug/l	3.2	ND(0.5)	ND(0.5)	9.4	5.7	ND(0.5)	0.5	ND(1.0)	–
M&P-XYLENE	ug/l	11.2	ND(0.5)	ND(0.5)	31.3	28.1	ND(0.5)	0.7	ND(1.0)	412
MESITYLENE	ug/l	–	–	–	–	–	–	–	–	–
METHYL CHLORIDE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	–	–
METHYLENE CHLORIDE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	–
METHYLSTYRENE ISOMERS	ug/l	–	–	–	–	–	–	–	–	–

Bayview Landfill Site
Burlington, Ontario

Table C.2
Volatile Organic Compounds
Leachate Analytical Results

Location:		LW1	LW2	LW3	LW4	LW4	LW5	LW6	MH13	MH13
Sample Date:		05/28/86	05/28/86	05/28/86	05/28/86	05/28/86 Dupl.	05/28/86	05/28/86	03/19/87	05/04/87
Parameters	*Units*									
O-XYLENE	ug/l	42.7	1.0	ND(0.5)	16.9	15.9	ND(0.5)	0.5	ND(1.0)	34.1
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
TOLUENE	ug/l	12.4	0.7	ND(0.5)	5.72	5.68	ND(0.5)	1.2	ND(1.0)	4.0
TRANS-1,2-DICHLOROETHYLENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	1.4	1.9	ND(1.0)	ND(1.0)	ND(2.0)	3.6
TRANS-1,3-DICHLOROPROPYLENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	--	ND(1.0)
TRICHLOROETHYLENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	1.3	1.0	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	--	ND(2.0)
VINYL CHLORIDE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	10.0	7.6	ND(2.0)	ND(2.0)	--	ND(2.0)

Bayview Landfill Site
Burlington, Ontario

Table C.2
Volatile Organic Compounds
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13
Sample Date:		08/17/87	11/10/87	05/12/88	05/12/88 Dupl.	08/16/88	11/28/88	01/18/89	05/24/89	05/25/89
Parameters	*Units*									
1,1,1-TRICHLOROETHANE	ug/l	ND(0.2)	ND(0.2)	ND(2)	ND(2)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	ND(2)	ND(2)	ND(2)	ND(2)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
1,1,2-TRICHLOROETHANE	ug/l	ND(0.5)	ND(0.5)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
1,1-DICHLOROETHANE	ug/l	0.3	ND(0.2)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	ND(0.2)	ND(0.2)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	–	–	–	–	–	–	–	–	ND(2)
1,2,4-TRIMETHYLBENZENE	ug/l	–	–	–	–	–	–	–	–	–
1,2-DICHLOROBENZENE	ug/l	ND(0.3)	ND(0.3)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
1,2-DICHLOROETHANE	ug/l	ND(0.2)	ND(0.2)	ND(2)	ND(2)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
1,2-DICHLOROETHYLENE	ug/l	–	–	–	–	–	–	–	–	–
1,2-DICHLOROPROPANE	ug/l	ND(0.2)	ND(0.2)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
1,2-DICHLOROPROPYLENE	ug/l	–	–	–	–	–	–	–	–	ND(5)
1,3-DICHLOROBENZENE	ug/l	18.7	2.9	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	–
1,4-DICHLOROBENZENE	ug/l	ND(0.3)	ND(0.3)	5.2	6.2	2.02	2.88	2.07	6.83	–
2-CHLOROETHYLVINYLETHER	ug/l	ND(10)	ND(10)	ND(10)	ND(10)	–	–	–	–	ND(50)
A-METHYLSTYRENE	ug/l	–	–	ND(1)	ND(1)	–	–	–	–	–
ACROLEIN	ug/l	–	–	ND(15)	–	–	–	–	–	–
ACRONITRILE	ug/l	–	–	ND(10)	–	–	–	–	–	–
ACRYLONITRILE	ug/l	–	–	–	–	–	–	–	–	–
BENZENE	ug/l	14.9	ND(2)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	0.5 U	3.95 U	–
BIS(CHLOROMETHYL)ETHER	ug/l	–	–	–	–	–	–	–	–	ND(500)
BROMOFORM	ug/l	ND(2)	ND(2)	ND(2)	ND(2)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
BROMOMETHANE	ug/l	ND(0.2)	ND(0.2)	ND(16)	ND(16)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	–
CARBON TETRACHLORIDE	ug/l	ND(1)	ND(1)	ND(2)	ND(2)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
CHLOROBENZENE	ug/l	ND(0.2)	7.6	13	18	ND(0.5)	ND(0.5)	3.45	38.44	–
CHLOROETHANE	ug/l	ND(0.2)	ND(0.2)	ND(10)	ND(10)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	–
CHLOROFORM	ug/l	0.4	ND(0.2)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	1.0 U	ND(1.0)	–
CIS-1,2-DICHLOROETHYLENE	ug/l	–	–	–	–	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND(0.5)	ND(0.5)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	ND(0.2)	ND(0.2)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	1.0 U	–	1.0 U
DICHLOROBROMOMETHANE	ug/l	ND(0.2)	ND(0.2)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	–	ND(1.0)
DICHLORODIFLUOROMETHANE	ug/l	–	–	ND(5)	–	ND(2.0)	ND(2.0)	ND(2.0)	–	ND(2.0)
DICHLOROFLUOROMETHANE	ug/l	–	–	–	–	–	–	–	–	–
ETHYL PARATHION	ug/l	–	–	–	–	–	–	–	–	–
ETHYLBENZENE	ug/l	26.2	ND(0.2)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	–
M&P-XYLENE	ug/l	44.6	ND(0.3)	ND(2)	ND(2)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	–
MESITYLENE	ug/l	8	ND(0.2)	ND(1)	ND(1)	–	–	–	–	–
METHYL CHLORIDE	ug/l	ND(0.2)	ND(0.2)	ND(50)	ND(50)	ND(2.0)	ND(2.0)	ND(2.0)	–	ND(2.0)
METHYLENE CHLORIDE	ug/l	16.8	25.3	ND(10)	13	ND(1.0)	ND(1.0)	1.0 U	1.0 U	–
METHYLSTYRENE ISOMERS	ug/l	ND(0.2)	ND(0.2)	ND(1)	ND(1)	–	–	–	–	–

Bayview Landfill Site
Burlington, Ontario

Table C.2
Volatile Organic Compounds
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13
Sample Date:		08/17/87	11/10/87	05/12/88	05/12/88 Dupl.	08/16/88	11/28/88	01/18/89	05/24/89	05/25/89
Parameters	*Units*									
O-XYLENE	ug/l	3.5	ND(0.2)	ND(1)	ND(1)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--
OTHER.AROMATIC COMPOUNDS	ug/l	ND(0.2)	ND(0.2)	ND(1)	ND(1)	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	ND(0.2)	1.1	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	--	ND(1.0)
TOLUENE	ug/l	ND(3)	ND(3)	ND(2)	ND(2)	ND(0.5)	ND(0.5)	0.5 U	ND(0.5)	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	ND(0.2)	ND(0.2)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	ND(0.2)	--	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)	--	ND(1.0)
TRICHLOROETHYLENE	ug/l	ND(0.2)	ND(0.2)	ND(1)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	--	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	ND(1)	ND(0.5)	ND(2)	ND(2)	ND(2.0)	ND(2.0)	ND(2.0)	--	ND(2.0)
VINYL CHLORIDE	ug/l	ND(0.5)	ND(0.5)	ND(12)	ND(12)	ND(2.0)	ND(2.0)	ND(2.0)	--	ND(2.0)

Bayview Landfill Site
Burlington, Ontario

Table C.2
Volatile Organic Compounds
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH15
Sample Date:		07/25/89	11/16/89	04/10/90	08/01/90	08/01/90 Dupl.	09/27/90	04/10/91	04/19/91	10/30/91
Parameters	*Units*									
1,1,1-TRICHLOROETHANE	ug/l	ND(1.0)	ND(0.50)	--	ND(1)	ND(1)	ND(1.0)	ND(1.0)	--	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	ND(1.0)	ND(0.33)	--	ND(2)	ND(2)	ND(2.0)	--	--	ND(2.0)
1,1,2-TRICHLOROETHANE	ug/l	ND(1.0)	ND(0.21)	--	ND(2)	ND(2)	ND(2.0)	--	--	ND(2.0)
1,1-DICHLOROETHANE	ug/l	ND(1.0)	ND(0.20)	--	ND(1)	ND(1)	ND(1.0)	ND(1.0)	--	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	ND(1.0)	ND(0.32)	--	ND(1)	ND(1)	ND(1.0)	--	--	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	--	ND(0.50)	--	--	--	--	--	--	--
1,2,4-TRIMETHYLBENZENE	ug/l	1.53	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	ND(1.0)	ND(0.24)	--	ND(1)	ND(1)	ND(1.0)	--	--	ND(1.0)
1,2-DICHLOROETHANE	ug/l	ND(1.0)	ND(0.82)	--	ND(1)	ND(1)	ND(1.0)	ND(1.0)	--	ND(1.0)
1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROPROPANE	ug/l	ND(1.0)	ND(0.20)	--	ND(1)	ND(1)	ND(1.0)	--	--	ND(1.0)
1,2-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	3.11	ND(0.23)	--	ND(1)	ND(1)	ND(1.0)	ND(1.0)	--	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	ND(1.0)	ND(0.22)	4.5 J	3.0	2.5	2.5	3.4	--	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	ND(15.0)	0.51	--	ND(10)	ND(10)	ND(10)	--	--	ND(10)
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--	--
ACROLEIN	ug/l	ND(15.0)	--	--	--	--	--	--	--	--
ACRONITRILE	ug/l	--	--	--	--	--	--	--	--	--
ACRYLONITRILE	ug/l	ND(15.0)	--	--	--	--	--	--	--	--
BENZENE	ug/l	1.46 U	0.19 U	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)
BIS(CHLOROMETHYL)ETHER	ug/l	ND(180.0)	--	--	--	--	--	--	--	--
BROMOFORM	ug/l	ND(1.0)	0.22 U	--	ND(2)	ND(2)	ND(2.0)	--	--	ND(2.0)
BROMOMETHANE	ug/l	ND(2.0)	0.83 U	--	ND(2)	ND(2)	ND(2.0)	--	--	ND(2.0)
CARBON TETRACHLORIDE	ug/l	ND(1.0)	ND(0.93)	--	ND(1)	ND(1)	ND(1.0)	--	--	ND(1.0)
CHLOROBENZENE	ug/l	17.41	ND(0.27)	17 J	ND(0.5)	ND(0.5)	ND(0.5)	3.8	--	ND(0.5)
CHLOROETHANE	ug/l	ND(2.0)	4.7	--	ND(2)	ND(2)	ND(2.0)	--	--	ND(2.0)
CHLOROFORM	ug/l	ND(1.0)	ND(0.51) UJ	--	ND(1)	ND(1)	ND(1.0)	--	--	ND(1.0)
CIS-1,2-DICHLOROETHYLENE	ug/l	ND(1.0)	--	--	ND(1)	ND(1)	ND(1.0)	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND(1.0)	ND(0.27)	--	ND(1)	ND(1)	ND(1.0)	--	--	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	ND(1.0)	ND(0.24)	--	ND(1)	ND(1)	ND(1.0)	--	--	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	ND(1.0)	ND(0.50)	--	ND(2)	ND(2)	ND(2.0)	--	--	ND(2.0)
DICHLORODIFLUOROMETHANE	ug/l	ND(2.0)	ND(0.50)	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
ETHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	ND(0.5)	ND(0.24)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)
M&P-XYLENE	ug/l	ND(0.5)	ND(0.21)	--	--	--	--	ND(0.5)	--	--
MESITYLENE	ug/l	--	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	ND(2.0)	ND(0.65) UJ	--	ND(2)	ND(2)	ND(2.0)	--	--	ND(2.0)
METHYLENE CHLORIDE	ug/l	ND(1.0)	ND(0.92) UJ	193 UJ	195	194	10.0 U	--	--	ND(1.0)
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.2
Volatile Organic Compounds
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH15
Sample Date:		07/25/89	11/16/89	04/10/90	08/01/90	08/01/90 Dupl.	09/27/90	04/10/91	04/19/91	10/30/91
Parameters	*Units*									
O-XYLENE	ug/l	ND(0.5)	0.19 U	--	--	--	--	ND(0.5)	--	--
OTHER.AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	ND(1.0)	ND(0.21)	--	ND(1)	ND(1)	ND(1.0)	--	ND(1.0)	ND(1.0)
TOLUENE	ug/l	ND(0.5)	ND(0.24)	--	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	ND(1.0)	0.20	--	ND(1)	ND(1)	ND(1.0)	--	--	ND(1.0)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	ND(1.0)	--	--	ND(1)	ND(1)	ND(1.0)	--	--	ND(1.0)
TRICHLOROETHYLENE	ug/l	ND(1.0)	ND(0.92)	--	ND(1)	ND(1)	ND(1.0)	ND(1.0)	--	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	ND(2.0)	ND(0.26)	--	ND(2)	ND(2)	ND(2.0)	--	--	ND(2.0)
VINYL CHLORIDE	ug/l	ND(2.0)	ND(0.74)	--	ND(2)	ND(2)	ND(2.0)	--	--	ND(2.0)

Bayview Landfill Site
Burlington, Ontario

Table C.2
Volatile Organic Compounds
Leachate Analytical Results

Location:		MH15	MH15	MH15	MH15	MH15	MH15	MH15	MHFB
Sample Date:		04/27/92	10/25/92	04/07/93	10/19/93	04/20/94	04/05/95	10/19/95	04/20/94
Parameters	*Units*								
1,1,1-TRICHLOROETHANE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--
1,1-DICHLOROETHANE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)
1,1-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	--	--	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--
1,2,4-TRIMETHYLBENZENE	ug/l	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	ND(1.0)	--	--	--	--	--
1,2-DICHLOROETHANE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)
1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--
1,2-DICHLOROPROPANE	ug/l	--	--	ND(1.0)	--	--	--	--	--
1,2-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)
1,4-DICHLOROBENZENE	ug/l	3.7	4.1	ND(1.0)	3.5	3.6	2.0	2.1 U	ND(1)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	ND(10)	--	--	--	--	--
A-METHYLSTYRENE	ug/l	--	--	--	--	--	--	--	--
ACROLEIN	ug/l	--	--	--	--	--	--	--	--
ACRONITRILE	ug/l	--	--	--	--	--	--	--	--
ACRYLONITRILE	ug/l	--	--	--	--	--	--	--	--
BENZENE	ug/l	ND(0.5)	1.5	1.4	0.9	ND(0.5)	1.2	ND(0.5)	ND(0.5)
BIS(CHLOROMETHYL)ETHER	ug/l	--	--	--	--	--	--	--	--
BROMOFORM	ug/l	--	--	ND(2.0)	--	--	--	--	--
BROMOMETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--
CARBON TETRACHLORIDE	ug/l	--	--	ND(1.0)	--	--	--	--	--
CHLOROBENZENE	ug/l	7.1	27	23	12	22	18	4.4 U	ND(0.5)
CHLOROETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--
CHLOROFORM	ug/l	--	--	ND(1.0)	--	--	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1.0)	--	--	--	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	ND(1.0)	--	--	--	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--
ETHYL PARATHION	ug/l	--	--	--	--	ND(0.5)	--	--	--
ETHYLBENZENE	ug/l	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	1.0 U	ND(0.5)
M&P-XYLENE	ug/l	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	--	--	ND(0.5)
MESITYLENE	ug/l	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	--	--	ND(2.0)	--	--	--	--	--
METHYLENE CHLORIDE	ug/l	--	--	ND(1.0)	--	--	--	--	--
METHYLSTYRENE ISOMERS	ug/l	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.2
Volatile Organic Compounds
Leachate Analytical Results

Location:		MH15	MH15	MH15	MH15	MH15	MH15	MH15	MHFB
Sample Date:		04/27/92	10/25/92	04/07/93	10/19/93	04/20/94	04/05/95	10/19/95	04/20/94
Parameters	*Units*								
O-XYLENE	ug/l	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	3.1 U	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	--	--	--	--	--	--
P+M-XYLENE	ug/l	--	--	--	--	--	ND(0.5)	6.1 U	--
TETRACHLOROETHYLENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)
TOLUENE	ug/l	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	ND(1.0)	--	--	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1.0)	--	--	--	--	--
TRICHLOROETHYLENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1)	ND(1)	ND(1)
TRICHLOROFLUOROMETHANE	ug/l	--	--	ND(2.0)	--	--	--	--	--
VINYL CHLORIDE	ug/l	--	--	ND(2.0)	--	--	--	--	--

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Table C.3
Acid Extractables and Base Neutrals/SVOC
Leachate Analytical Results

Location:		LW1	LW2	LW3	LW4	LW4	LW5	LW6	MH13	MH13
Sample Date:		05/28/86	05/28/86	05/28/86	05/28/86	05/28/86 Dupl.	05/28/86	05/28/86	03/19/87	05/04/87
Parameters	*Units*									
Acid Extractables										
2,3,4,5-TETRACHLOROPHENOL	ug/l	--	--	--	--	--	--	--	--	--
2,3,4,6-TETRACHLOROPHENOL	ug/l	--	--	--	--	--	--	--	--	--
2,3,4-TRICHLOROPHENOL	ug/l	--	--	--	--	--	--	--	--	--
2,3,5,6-TETRACHLOROPHENOL	ug/l	--	--	--	--	--	--	--	--	--
2,3,5-TRICHLOROPHENOL	ug/l	--	--	--	--	--	--	--	--	--
2,4,5-TRICHLOROPHENOL	ug/l	--	--	--	--	--	--	--	--	--
2,4,6-TRICHLOROPHENOL	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2,4-DICHLOROPHENOL	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2,4-DIMETHYL PHENOL	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	21.0
2,4-DINITROPHENOL	ug/l	ND(25.0)	ND(25.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(3.0)	ND(3.0)
2,6-DICHLOROPHENOL	ug/l	--	--	--	--	--	--	--	--	--
2-CHLOROPHENOL	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2-NITROPHENOL	ug/l	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
4,6-DINITRO-O-CRESOL	ug/l	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	--	ND(3.0)	ND(5.0)	ND(5.0)
4-NITROPHENOL	ug/l	ND(5.0)	ND(5.0)	ND(25.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
DI-T-BUTYLMETHYLPHENOL	ug/l	--	--	--	--	--	--	--	ND(15.0)	ND(15.0)
HEXADECANOIC ACID	ug/l	--	--	--	--	--	--	--	--	--
M-CRESOL	ug/l	--	--	--	--	--	--	--	--	--
N-CRESOL	ug/l	--	--	--	--	--	--	--	--	--
O-CRESOL	ug/l	--	--	--	--	--	--	--	--	--
P&M-CRESOL	ug/l	--	--	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	--	ND(5.0)	ND(5.0)	ND(5.0)
P-CRESOL	ug/l	--	--	--	--	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
PHENOL	ug/l	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	15.6	ND(3.0)	--	--
Base Neutrals/SVOC										
1,2,4-TRICHLOROBENZENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-DICHLOROBENZENE	ug/l	ND(1.0)	ND(1.0)	5.8	2.0	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,2-DIPHENYLHYDRAZINE	ug/l	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
1,3-DICHLOROBENZENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	45.8	10.0	58.2	12.1	ND(1.0)	ND(1.0)	2.3	ND(1.0)	47.2
1-CHLORONAPHTHALENE	ug/l	--	--	--	--	--	--	--	--	--
1-METHYL NAPHTHALENE	ug/l	--	--	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2,6-DINITROTOLUENE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2-CHLORONAPHTHALENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

001312

Bayview Landfill Site
Burlington, Ontario

Table C.3
Acid Extractables and Base Neutrals/SVOC
Leachate Analytical Results

Location:		LW1	LW2	LW3	LW4	LW4	LW5	LW6	MH13	MH13
Sample Date:		05/28/86	05/28/86	05/28/86	05/28/86	05/28/86 Dupl.	05/28/86	05/28/86	03/19/87	05/04/87
Parameters	*Units*									
Base Neutrals/SVOC (Cont'd)										
2-METHYL NAPHTHALENE	ug/l	--	--	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
4-BROMOPHENYL PHENYL ETHER	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
4-CHLOROPHENYL ETHYL ETHER	ug/l	--	--	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
5-NITROACENAPHTHENE	ug/l	--	--	--	--	--	--	--	--	--
9H-FLUORENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
ACENAPHTHENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
ACENAPHTHYLENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
ANTHRACENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
BENZIDINE	ug/l	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
BENZO(A)ANTHRACENE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BENZO(A)PYRENE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BENZO(B)FLUORANTHENE	ug/l	--	--	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BENZO(K)FLUORANTHENE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BENZOTHIAZOLE	ug/l	--	--	--	--	--	--	--	ND(15.0)	ND(15.0)
BIS(2-CHLOROETHOXY)METHANE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BIS(2-CHLOROETHYL)ETHER	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	100.5	67.0	5.5	4.8	7.3	137.1	27.6	13	33.1
BUTYL BENZYL PHTHALATE	ug/l	54.5	21.4	18.8	6.4	3.2	31.7	5.8	ND(2.0)	ND(2.0)
CAMPHENE	ug/l	--	--	--	--	--	--	--	--	--
CARBARYL	ug/l	--	--	--	--	--	--	--	--	--
CHRYSENE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
DI-N-BUTYL PHTHALATE	ug/l	ND(1.0)	ND(1.0)	8.2	16.9	3.5	14.1	5.2	ND(1.0)	ND(1.0)
DI-N-OCTYL PHTHALATE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
DIAZINON	ug/l	--	--	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
DIETHYL PHTHALATE	ug/l	3.4	2.9	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	2.4
DIMETHYL PHTHALATE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	6.1	5.6	ND(2.0)	7.1	ND(2.0)	ND(2.0)
DIPHENYL ETHER	ug/l	--	--	--	--	--	--	--	--	--
DIPHENYLAMINE	ug/l	--	--	--	--	--	--	--	--	--
ETHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	--
FLUORANTHENE	ug/l	4.4	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
FLUORENE	ug/l	--	--	--	--	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
HEXACHLOROBUTADIENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table C.3
Acid Extractables and Base Neutrals/SVOC
Leachate Analytical Results

Location:		LW1	LW2	LW3	LW4	LW4	LW5	LW6	MH13	MH13
Sample Date:		05/28/86	05/28/86	05/28/86	05/28/86	05/28/86 Dupl.	05/28/86	05/28/86	03/19/87	05/04/87
Parameters	*Units*									
Base Neutrals/SVOC (Cont'd)										
HEXACHLOROCYCLOPENTADIENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
HEXACHLOROETHANE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
INDENO(1,2,3-CD)PYRENE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
INDOLE	ug/l	--	--	--	--	--	--	--	--	--
ISOPHORONE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
METHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)
N-NITROSODIPHENYLAMINE	ug/l	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
NAPHTHALENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	5.1	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	26.3
NITROBENZENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
P-CHLOROANILINE	ug/l	--	--	--	--	--	--	--	ND(20.0)	ND(20.0)
PERYLENE	ug/l	--	--	--	--	--	--	--	--	--
PHENANTHRENE	ug/l	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
PYRENE	ug/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)

Bayview Landfill Site
Burlington, Ontario

Table C.3
Acid Extractables and Base Neutrals/SVOC
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13
Sample Date:		08/17/87	11/10/87	01/16/88	05/12/88	08/16/88	11/28/88	01/18/89	05/24/89	07/25/89
Parameters	*Units*									
Acid Extractables										
2,3,4,5-TETRACHLOROPHENOL	ug/l	--	--	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(4.0)	ND(4.0)	--
2,3,4,6-TETRACHLOROPHENOL	ug/l	--	--	ND(4.0)	--	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	--
2,3,4-TRICHLOROPHENOL	ug/l	--	--	ND(5.0)	--	ND(5.0)	ND(5.0)	ND(3.0)	ND(3.0)	--
2,3,5,6-TETRACHLOROPHENOL	ug/l	--	--	ND(4.0)	--	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	--
2,3,5-TRICHLOROPHENOL	ug/l	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	--
2,4,5-TRICHLOROPHENOL	ug/l	--	--	ND(3.0)	--	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	--
2,4,6-TRICHLOROPHENOL	ug/l	--	ND(2)	ND(3.0)	ND(4)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)
2,4-DICHLOROPHENOL	ug/l	--	ND(2)	ND(2.0)	ND(4)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2,4-DIMETHYL PHENOL	ug/l	--	ND(1)	ND(5.0)	ND(6)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
2,4-DINITROPHENOL	ug/l	--	ND(5)	ND(10.0)	ND(6)	ND(10.0)	ND(10.0)	ND(40.0)	ND(69.0)	ND(38.0)
2,6-DICHLOROPHENOL	ug/l	--	--	ND(5.0)	--	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	--
2-CHLOROPHENOL	ug/l	--	ND(1)	ND(3.0)	ND(1)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)
2-NITROPHENOL	ug/l	--	ND(3)	ND(3.0)	ND(2)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)
4,6-DINITRO-O-CRESOL	ug/l	--	ND(3)	ND(5.0)	ND(5)	ND(5.0)	ND(5.0)	ND(12.0)	ND(16.0)	ND(10.0)
4-NITROPHENOL	ug/l	--	ND(3)	ND(5.0)	ND(5)	ND(5.0)	ND(5.0)	ND(16.0)	ND(5.0)	ND(22.0)
DI-T-BUTYLMETHYLPHENOL	ug/l	--	--	--	(a)	ND(4.0)	ND(5)	--	--	--
HEXADECANOIC ACID	ug/l	--	--	--	--	ND(4.0)	ND(5)	--	--	--
M-CRESOL	ug/l	--	--	--	--	--	--	--	--	--
N-CRESOL	ug/l	--	--	--	--	--	--	--	--	--
O-CRESOL	ug/l	--	--	ND(4.0)	--	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	--
P&M-CRESOL	ug/l	--	--	ND(83.0)	--	ND(83.0)	ND(83.0)	ND(8.0)	ND(8.0)	--
P-CHLORO-M-CRESOL	ug/l	--	ND(1)	ND(3.0)	ND(4)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)
P-CRESOL	ug/l	--	--	--	--	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	--	ND(3)	ND(5.0)	ND(3)	ND(5.0)	ND(5.0)	ND(6.0)	ND(5.0)	ND(5.0)
PHENOL	ug/l	--	--	--	--	--	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
Base Neutrals/SVOC										
1,2,4-TRICHLOROBENZENE	ug/l	ND(1)	ND(1)	ND(3.0)	ND(1)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	--
1,2-DICHLOROBENZENE	ug/l	ND(2)	ND(2)	ND(3.0)	ND(1)	ND(3.0)	ND(3.0)	ND(3.0)	ND(3.0)	--
1,2-DIPHENYLHYDRAZINE	ug/l	ND(1)	ND(1)	ND(2.0)	ND(1)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
1,3-DICHLOROBENZENE	ug/l	ND(2)	ND(2)	ND(4.0)	ND(1)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	--
1,4-DICHLOROBENZENE	ug/l	15.1	ND(2)	ND(3.0)	2.7	5.00	4.13	ND(3.0)	3.2	--
1-CHLORONAPHTHALENE	ug/l	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	--
1-METHYL NAPHTHALENE	ug/l	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	--
2,4-DINITROTOLUENE	ug/l	ND(3)	ND(3)	ND(1.0)	ND(3)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
2,6-DINITROTOLUENE	ug/l	ND(3)	ND(3)	ND(2.0)	ND(3)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
2-CHLORONAPHTHALENE	ug/l	ND(1)	ND(1)	ND(2.0)	ND(1)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)

Bayview Landfill Site
Burlington, Ontario

Table C.3
Acid Extractables and Base Neutrals/SVOC
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13
Sample Date:		08/17/87	11/10/87	01/16/88	05/12/88	08/16/88	11/28/88	01/18/89	05/24/89	07/25/89
Parameters	*Units*									
Base Neutrals/SVOC (Cont'd)										
2-METHYL NAPHTHALENE	ug/l	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	--
3,3'-DICHLOROBENZIDINE	ug/l	ND(1)	ND(1)	ND(5.0)	ND(2)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	--
4-BROMOPHENYL PHENYL ETHER	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
4-CHLOROPHENYL ETHYL ETHER	ug/l	--	--	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	--
5-NITROACENAPHTHENE	ug/l	--	--	--	--	--	--	--	--	--
9H-FLUORENE	ug/l	--	--	--	--	--	--	--	--	--
ACENAPHTHENE	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
ACENAPHTHYLENE	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
ANTHRACENE	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
BENZIDINE	ug/l	ND(20)	ND(20)	ND(10.0)	ND(20)	ND(10.0)	ND(10.0)	ND(50.0)	ND(10.0)	--
BENZO(A)ANTHRACENE	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
BENZO(A)PYRENE	ug/l	ND(3)	ND(3)	ND(2.0)	ND(2)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BENZO(B)FLUORANTHENE	ug/l	--	--	--	--	--	--	ND(2.0)	ND(2.0)	ND(2.0)
BENZO(GHI)PERYLENE	ug/l	ND(5)	ND(5)	ND(2.0)	ND(2)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BENZO(K)FLUORANTHENE	ug/l	ND(2)	ND(2)	ND(2.0)	ND(2)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BENZOTHIAZOLE	ug/l	--	--	--	(a)	ND(4.0)	ND(5)	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	ND(1)	ND(1)	ND(2.0)	ND(1)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
BIS(2-CHLOROETHYL)ETHER	ug/l	ND(1)	ND(1)	ND(4.0)	ND(1)	ND(4.0)	ND(4.0)	ND(2.0)	ND(2.0)	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	ND(1)	ND(1)	--	ND(1)	--	--	ND(2.0)	ND(2.0)	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	1.4	1.8	3.78	1.9	6.05	14.4	3.78 U	7.5 U	4.3 U
BUTYL BENZYL PHTHALATE	ug/l	ND(1)	1.2	ND(1.0)	ND(4)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
CAMPHENE	ug/l	--	--	ND(10.0)	--	ND(10.0)	ND(10.0)	ND(2.0)	ND(10.0)	--
CARBARYL	ug/l	--	--	--	--	--	--	--	--	--
CHRYSENE	ug/l	ND(2)	ND(2)	ND(1.0)	--	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
DI-N-BUTYL PHTHALATE	ug/l	22	100	ND(2.0)	5	ND(2.0)	ND(2.0)	ND(2.0)	2.2 U	ND(2.0)
DI-N-OCTYL PHTHALATE	ug/l	ND(1)	ND(1)	ND(5.0)	ND(1)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
DIAZINON	ug/l	--	--	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	ND(5)	ND(5)	ND(2.0)	ND(4)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
DIETHYL PHTHALATE	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
DIMETHYL PHTHALATE	ug/l	1.2	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
DIPHENYL ETHER	ug/l	--	--	ND(2.0)	--	2.14	ND(2.0)	ND(2.0)	ND(2.0)	--
DIPHENYLAMINE	ug/l	--	--	(a)	--	(a)	(a)	(a)	(a)	--
ETHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	--
FLUORANTHENE	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
FLUORENE	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
HEXACHLOROBENZENE	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.020)
HEXACHLOROBUTADIENE	ug/l	ND(3)	ND(3)	ND(6.0)	ND(2)	ND(6.0)	ND(6.0)	ND(6.0)	ND(6.0)	--

Bayview Landfill Site
Burlington, Ontario

Table C.3
Acid Extractables and Base Neutrals/SVOC
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13
Sample Date:		08/17/87	11/10/87	01/16/88	05/12/88	08/16/88	11/28/88	01/18/89	05/24/89	07/25/89
Parameters	*Units*									
Base Neutrals/SVOC (Cont'd)										
HEXACHLOROCYCLOPENTADIENE	ug/l	ND(5)	ND(5)	ND(4.0)	ND(5)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)	ND(4.0)
HEXACHLOROETHANE	ug/l	ND(3)	ND(3)	ND(5.0)	ND(2)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)	ND(5.0)
INDENO(1,2,3-CD)PYRENE	ug/l	ND(5)	ND(5)	ND(2.0)	ND(4)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	--
INDOLE	ug/l	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	--
ISOPHORONE	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	--
METHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
N-NITROSODIPHENYLAMINE	ug/l	ND(1)	ND(1)	ND(2.0)	ND(2)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	--
NAPHTHALENE	ug/l	5.2	ND(1)	ND(2.0)	ND(1)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
NITROBENZENE	ug/l	ND(1)	ND(1)	ND(2.0)	ND(1)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)
P-CHLOROANILINE	ug/l	--	--	--	(a)	ND(4.0)	ND(5)	--	--	--
PERYLENE	ug/l	--	--	ND(2.0)	--	ND(2.0)	ND(2.0)	ND(2.0)	ND(2.0)	--
PHENANTHRENE	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)
PYRENE	ug/l	ND(1)	ND(1)	ND(1.0)	ND(1)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)	ND(1.0)

Bayview Landfill Site
Burlington, Ontario

Table C.3
Acid Extractables and Base Neutrals/SVOC
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH15	MH15	MH15	MH15	MH15
Sample Date:		11/16/89	04/10/90	09/27/90	04/10/91	10/30/91	04/27/92	10/25/92	03/26/93	04/07/93
Parameters	*Units*									
Acid Extractables										
2,3,4,5-TETRACHLOROPHENOL	ug/l	ND(0.039)	--	--	--	--	--	--	--	--
2,3,4,6-TETRACHLOROPHENOL	ug/l	ND(0.154)	--	--	--	--	--	--	--	--
2,3,4-TRICHLOROPHENOL	ug/l	ND(0.053)	--	--	--	--	--	--	--	--
2,3,5,6-TETRACHLOROPHENOL	ug/l	ND(0.423)	--	--	--	--	--	--	--	--
2,3,5-TRICHLOROPHENOL	ug/l	ND(0.074)	--	--	--	--	--	--	--	--
2,4,5-TRICHLOROPHENOL	ug/l	ND(0.117)	--	--	--	--	--	--	--	--
2,4,6-TRICHLOROPHENOL	ug/l	ND(0.11)	--	--	--	--	--	--	--	--
2,4-DICHLOROPHENOL	ug/l	ND(1.07)	--	--	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	ug/l	ND(1.07)	--	--	--	--	--	--	--	--
2,4-DINITROPHENOL	ug/l	ND(35)	--	--	--	--	--	--	--	--
2,6-DICHLOROPHENOL	ug/l	ND(1.94)	--	--	--	--	--	--	--	--
2-CHLOROPHENOL	ug/l	ND(0.432)	--	--	--	--	--	--	--	--
2-NITROPHENOL	ug/l	--	--	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	ND(6.2)	--	--	--	--	--	--	--	--
4-NITROPHENOL	ug/l	ND(0.375)	--	--	--	--	--	--	--	--
DI-T-BUTYLMETHYLPHENOL	ug/l	--	--	--	--	--	--	--	--	--
HEXADECANOIC ACID	ug/l	--	--	--	--	--	--	--	--	--
M-CRESOL	ug/l	ND(0.433)	--	--	--	--	--	--	--	--
N-CRESOL	ug/l	--	0.4 J	--	--	--	--	--	--	--
O-CRESOL	ug/l	ND(0.565)	--	--	--	--	--	--	--	--
P&M-CRESOL	ug/l	--	--	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	ND(0.096)	--	--	--	--	--	--	--	--
P-CRESOL	ug/l	ND(0.449)	--	--	--	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	ND(0.185)	--	--	--	--	--	--	--	--
PHENOL	ug/l	ND(0.385)	0.4 J	--	--	--	--	--	--	--
Base Neutrals/SVOC										
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	--	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1-CHLORONAPHTHALENE	ug/l	ND(0.20)	--	--	--	--	--	--	--	--
1-METHYL NAPHTHALENE	ug/l	ND(0.20)	--	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	ug/l	ND(0.61)	--	--	--	--	--	--	--	--
2,6-DINITROTOLUENE	ug/l	ND(0.49)	--	--	--	--	--	--	--	--
2-CHLORONAPHTHALENE	ug/l	ND(0.23)	--	--	--	--	--	--	--	--

001318

Bayview Landfill Site
Burlington, Ontario

Table C.3
Acid Extractables and Base Neutrals/SVOC
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH15	MH15	MH15	MH15	MH15
Sample Date:		11/16/89	04/10/90	09/27/90	04/10/91	10/30/91	04/27/92	10/25/92	03/26/93	04/07/93
Parameters	*Units*									
Base Neutrals/SVOC (Cont'd)										
2-METHYL NAPHTHALENE	ug/l	ND(0.13)	--	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	--	--	--	--	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	ND(0.26)	--	--	--	--	--	--	--	--
4-CHLOROPHENYL ETHYL ETHER	ug/l	ND(0.20)	--	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	--	--	--	--	--	--	--	--
5-NITROACENAPHTHENE	ug/l	ND(0.53)	--	--	--	--	--	--	--	--
9H-FLUORENE	ug/l	--	--	--	--	--	--	--	--	--
ACENAPHTHENE	ug/l	ND(0.13)	--	--	--	--	--	--	--	--
ACENAPHTHYLENE	ug/l	ND(0.15)	--	--	--	--	--	--	--	--
ANTHRACENE	ug/l	ND(0.19)	--	--	--	--	--	--	--	--
BENZIDINE	ug/l	--	--	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	ug/l	ND(0.27)	--	--	--	--	--	--	--	--
BENZO(A)PYRENE	ug/l	ND(0.60)	--	--	--	--	--	--	--	--
BENZO(B)FLUORANTHENE	ug/l	ND(0.36)	--	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	ND(0.69)	--	--	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	ug/l	ND(0.58)	--	--	--	--	--	--	--	--
BENZOTHIAZOLE	ug/l	--	--	--	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	ND(0.30)	--	--	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	ND(0.19)	--	--	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	ND(1.12)	--	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	0.31 U	1.9 J	ND(2) U	4.7	ND(2)	ND(0.5)	ND(0.5)	ND(1.0) U	ND(0.3) U
BUTYL BENZYL PHTHALATE	ug/l	ND(0.28)	--	--	--	--	--	--	--	--
CAMPHENE	ug/l	ND(0.32)	--	--	--	--	--	--	--	--
CARBARYL	ug/l	--	--	--	--	--	--	--	--	--
CHRYSENE	ug/l	ND(0.27)	--	--	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	ug/l	0.82 U	0.7 J	--	--	--	--	--	--	--
DI-N-OCTYL PHTHALATE	ug/l	ND(0.82)	--	--	--	--	--	--	--	--
DIAZINON	ug/l	--	--	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	ND(1.28)	--	--	--	--	--	--	--	--
DIETHYL PHTHALATE	ug/l	--	--	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	ug/l	--	--	--	--	--	--	--	--	--
DIPHENYL ETHER	ug/l	ND(2.0)	--	--	--	--	--	--	--	--
DIPHENYLAMINE	ug/l	ND(0.10)	0.7 J	--	--	--	--	--	--	--
ETHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	--
FLUORANTHENE	ug/l	ND(0.13)	--	--	--	--	--	--	--	--
FLUORENE	ug/l	ND(0.13)	--	--	--	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	ND(0.001)	--	--	--	--	--	--	--	--
HEXACHLOROBUTADIENE	ug/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.3
Acid Extractables and Base Neutrals/SVOC
Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH15	MH15	MH15	MH15	MH15
Sample Date:		11/16/89	04/10/90	09/27/90	04/10/91	10/30/91	04/27/92	10/25/92	03/26/93	04/07/93
Parameters	*Units*									
Base Neutrals/SVOC (Cont'd)										
HEXACHLOROCYCLOPENTADIENE	ug/l	--	--	--	--	--	--	--	--	--
HEXACHLOROETHANE	ug/l	--	--	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	ND(1.14)	--	--	--	--	--	--	--	--
INDOLE	ug/l	ND(0.44)	--	--	--	--	--	--	--	--
ISOPHORONE	ug/l	--	--	--	--	--	--	--	--	--
METHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	ND(0.27)	--	--	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	ug/l	--	--	--	--	--	--	--	--	--
NAPHTHALENE	ug/l	ND(0.17)	--	--	--	--	--	--	--	--
NITROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
P-CHLOROANILINE	ug/l	--	--	--	--	--	--	--	--	--
PERYLENE	ug/l	ND(0.60)	--	--	--	--	--	--	--	--
PHENANTHRENE	ug/l	ND(0.20)	--	--	--	--	--	--	--	--
PYRENE	ug/l	ND(0.26)	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.3
Acid Extractables and Base Neutrals/SVOC
Leachate Analytical Results

Location:		MH15	MH15	MH15	MH15	MHFB
Sample Date:		10/19/93	04/20/94	04/05/95	10/19/95	04/20/94
Parameters	*Units*					
Acid Extractables						
2,3,4,5-TETRACHLOROPHENOL	ug/l	--	--	--	--	--
2,3,4,6-TETRACHLOROPHENOL	ug/l	--	--	--	--	--
2,3,4-TRICHLOROPHENOL	ug/l	--	--	--	--	--
2,3,5,6-TETRACHLOROPHENOL	ug/l	--	--	--	--	--
2,3,5-TRICHLOROPHENOL	ug/l	--	--	--	--	--
2,4,5-TRICHLOROPHENOL	ug/l	--	--	--	--	--
2,4,6-TRICHLOROPHENOL	ug/l	--	--	--	--	--
2,4-DICHLOROPHENOL	ug/l	--	--	--	--	--
2,4-DIMETHYL PHENOL	ug/l	--	--	--	--	--
2,4-DINITROPHENOL	ug/l	--	--	--	--	--
2,6-DICHLOROPHENOL	ug/l	--	--	--	--	--
2-CHLOROPHENOL	ug/l	--	--	--	--	--
2-NITROPHENOL	ug/l	--	--	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	--	--	--	--	--
4-NITROPHENOL	ug/l	--	--	--	--	--
DI-T-BUTYLMETHYLPHENOL	ug/l	--	--	--	--	--
HEXADECANOIC ACID	ug/l	--	--	--	--	--
M-CRESOL	ug/l	--	--	--	--	--
N-CRESOL	ug/l	--	--	--	--	--
O-CRESOL	ug/l	--	--	--	--	--
P&M-CRESOL	ug/l	--	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	--	--	--	--	--
P-CRESOL	ug/l	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	--	--	--	--	--
PHENOL	ug/l	--	--	--	--	--
Base Neutrals/SVOC						
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	--	--	--	--
1,4-DICHLOROBENZENE	ug/l	--	--	--	--	--
1-CHLORONAPHTHALENE	ug/l	--	--	--	--	--
1-METHYL NAPHTHALENE	ug/l	--	--	--	--	--
2,4-DINITROTOLUENE	ug/l	--	--	--	--	--
2,6-DINITROTOLUENE	ug/l	--	--	--	--	--
2-CHLORONAPHTHALENE	ug/l	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.3
Acid Extractables and Base Neutrals/SVOC
Leachate Analytical Results

Location:		MH15	MH15	MH15	MH15	MHFB
Sample Date:		10/19/93	04/20/94	04/05/95	10/19/95	04/20/94
Parameters	*Units*					
Base Neutrals/SVOC (Cont'd)						
2-METHYL NAPHTHALENE	ug/l	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	--	--	--	--	--
4-CHLOROPHENYL ETHYL ETHER	ug/l	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	--	--	--	--
5-NITROACENAPHTHENE	ug/l	--	--	--	--	--
9H-FLUORENE	ug/l	--	--	--	--	--
ACENAPHTHENE	ug/l	--	--	--	--	--
ACENAPHTHYLENE	ug/l	--	--	--	--	--
ANTHRACENE	ug/l	--	--	--	--	--
BENZIDINE	ug/l	--	--	--	--	--
BENZO(A)ANTHRACENE	ug/l	--	--	--	--	--
BENZO(A)PYRENE	ug/l	--	--	--	--	--
BENZO(B)FLUORANTHENE	ug/l	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	--	--	--	--	--
BENZO(K)FLUORANTHENE	ug/l	--	--	--	--	--
BENZOTHIAZOLE	ug/l	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	0.002	ND(2.0)	TR(2) J	ND(2)	ND(2.0)
BUTYL BENZYL PHTHALATE	ug/l	--	--	--	--	--
CAMPHENE	ug/l	--	--	--	--	--
CARBARYL	ug/l	--	--	--	--	ND(5)
CHRYSENE	ug/l	--	--	--	--	--
DI-N-BUTYL PHTHALATE	ug/l	--	--	--	--	--
DI-N-OCTYL PHTHALATE	ug/l	--	--	--	--	--
DIAZINON	ug/l	--	--	--	--	ND(.5)
DIBENZO(A,H)ANTHRACENE	ug/l	--	--	--	--	--
DIETHYL PHTHALATE	ug/l	--	--	--	--	--
DIMETHYL PHTHALATE	ug/l	--	--	--	--	--
DIPHENYL ETHER	ug/l	--	--	--	--	--
DIPHENYLAMINE	ug/l	--	--	--	--	--
ETHYL PARATHION	ug/l	--	--	--	--	ND(.5)
FLUORANTHENE	ug/l	--	--	--	--	--
FLUORENE	ug/l	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	--	--	--	--	--
HEXACHLOROBUTADIENE	ug/l	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.3
Acid Extractables and Base Neutrals/SVOC
Leachate Analytical Results

Location:		MH15	MH15	MH15	MH15	MHFB
Sample Date:		10/19/93	04/20/94	04/05/95	10/19/95	04/20/94
Parameters	*Units*					
Base Neutrals/SVOC (Cont'd)						
HEXACHLOROCYCLOPENTADIENE	ug/l	--	--	--	--	--
HEXACHLOROETHANE	ug/l	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	--	--	--	--	--
INDOLE	ug/l	--	--	--	--	--
ISOPHORONE	ug/l	--	--	--	--	--
METHYL PARATHION	ug/l	--	--	--	--	ND(.5)
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	--	--	--	--
N-NITROSODIPHENYLAMINE	ug/l	--	--	--	--	--
NAPHTHALENE	ug/l	--	--	--	--	--
NITROBENZENE	ug/l	--	--	--	--	--
P-CHLOROANILINE	ug/l	--	--	--	--	--
PERYLENE	ug/l	--	--	--	--	--
PHENANTHRENE	ug/l	--	--	--	--	--
PYRENE	ug/l	--	--	--	--	--

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Table C.4

Pesticides and PCB's

Leachate Analytical Results

Location:		MHFB	LW1	LW2	LW3	LW4	LW4	LW5	LW6	MH13
Sample Date:		04/20/94	05/28/86	05/28/86	05/28/86	05/28/86	05/28/86 Dupl.	05/28/86	05/28/86	05/04/87
Parameters	*Units*									
Pesticides and PCB's										
2,4,5-TP (SILVEX)	ug/l	--	--	--	--	--	--	--	--	--
2,4-D	ug/l	--	--	--	--	--	--	--	--	--
2,4-DDD	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
2,4-DDT	ug/l	--	--	--	--	--	--	--	--	--
4,4-DDD	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4,4-DDE	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
4,4-DDT	ug/l	ND(0.003)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
ALDRIN	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)
ALPHA-BHC	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)
ALPHA-CHLORDANE	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)
ALPHA-ENDOSULFAN	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
AROCHLOR-1016	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1221	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1232	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1242	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1248	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1254	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1260	ug/l	--	--	--	--	--	--	--	--	--
BETA-BHC	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)
BETA-ENDOSULFAN	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
CARBARYL	ug/l	--	--	--	--	--	--	--	--	--
CIS-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	--
DDT'S	ug/l	--	--	--	--	--	--	--	--	--
DELTA-BHC	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	--
DIAZINON	ug/l	--	--	--	--	--	--	--	--	--
DIELDRIN	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	--
ENDOSULFAN I	ug/l	--	--	--	--	--	--	--	--	--
ENDOSULFAN II	ug/l	--	--	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
ENDRIN	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)
ENDRIN ALDEHYDE	ug/l	--	--	--	--	--	--	--	--	--
GAMMA-BHC(LINDANE)	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)
GAMMA-CHLORDANE	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)
HEPTACHLOR	ug/l	--	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.020)
HEPTACHLOR EPOXIDE	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	--
HEXACHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
LINDANE	ug/l	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)

Bayview Landfill Site
Burlington, Ontario

Table C.4

Leachate Analytical Results

Pesticides and PCB's

Location:		MHFB	LW1	LW2	LW3	LW4	LW4	LW5	LW6	MH13
Sample Date:		04/20/94	05/28/86	05/28/86	05/28/86	05/28/86	05/28/86 Dupl.	05/28/86	05/28/86	05/04/87
Parameters	*Units*									
Pesticides and PCB's (Cont'd)										
METHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	--
MIREX	ug/l	--	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.020)
O,P'-DDT	ug/l	--	--	--	--	--	--	--	--	--
OXYCHLORDANE	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)
P,P'-DDT	ug/l	--	--	--	--	--	--	--	--	--
PARATHION	ug/l	--	--	--	--	--	--	--	--	--
PARATHION ETHYL	ug/l	--	--	--	--	--	--	--	--	--
PARATHION METHYL	ug/l	--	--	--	--	--	--	--	--	--
TOTAL PCB	ug/l	--	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.020)	ND(0.5)
TOXAPHENE	ug/l	--	--	--	--	--	--	--	--	--
TRANS-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.4

Leachate Analytical Results

Pesticides and PCB's

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13
Sample Date:		08/17/87	11/10/87	05/12/88	11/28/88	01/18/89	05/24/89	07/25/89	11/16/89	04/10/90
Parameters	Units									
Pesticides and PCB's										
2,4,5-TP (SILVEX)	ug/l	--	--	--	--	--	--	--	--	--
2,4-D	ug/l	--	--	--	--	--	--	--	--	--
2,4-DDD	ug/l	ND(0.005)	ND(0.005)	--	--	--	--	--	--	--
2,4-DDT	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	--	--
4,4-DDD	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	0.021	--
4,4-DDE	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	ND(0.001)	--
4,4-DDT	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	--	--
ALDRIN	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	ND(0.001)	--
ALPHA-BHC	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	ND(0.001)	--
ALPHA-CHLORDANE	ug/l	--	--	--	--	ND(0.020)	ND(0.010)	ND(0.020)	0.0019	--
ALPHA-ENDOSULFAN	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	--	--
AROCHLOR-1016	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1221	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1232	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1242	ug/l	ND(0.05)	ND(0.05)	ND(0.05)	--	--	--	--	--	--
AROCHLOR-1248	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1254	ug/l	ND(0.05)	ND(0.05)	ND(0.05)	--	--	--	--	--	--
AROCHLOR-1260	ug/l	ND(0.05)	ND(0.05)	ND(0.05)	--	--	--	--	--	--
BETA-BHC	ug/l	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	0.0012 U	8.3 J
BETA-ENDOSULFAN	ug/l	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	--	--
CARBARYL	ug/l	--	--	--	--	--	--	--	--	--
CIS-CHLORDANE	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	--	--	--	--	--	--
DDT'S	ug/l	--	--	--	--	--	--	--	ND(0.005)	--
DELTA-BHC	ug/l	--	--	--	ND(0.020)	ND(0.020)	--	--	--	--
DIAZINON	ug/l	--	--	--	--	--	--	--	--	--
DIELDRIN	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	0.003	--
ENDOSULFAN I	ug/l	--	--	--	--	--	--	--	0.0032	--
ENDOSULFAN II	ug/l	--	--	--	--	--	--	--	ND(0.004)	--
ENDOSULFAN SULFATE	ug/l	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	0.011	--
ENDRIN	ug/l	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	ND(0.004)	--
ENDRIN ALDEHYDE	ug/l	--	--	--	ND(0.020)	--	--	--	--	--
GAMMA-BHC(LINDANE)	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	ND(0.001)	--
GAMMA-CHLORDANE	ug/l	--	--	--	--	ND(0.020)	ND(0.010)	ND(0.020)	ND(0.001)	10.8 J
HEPTACHLOR	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	ND(0.001)	--
HEPTACHLOR EPOXIDE	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	ND(0.001)	--
HEXACHLOROBENZENE	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.020)	ND(0.020)	--	--	--	--
LINDANE	ug/l	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	ug/l	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	ND(0.005)	--

Bayview Landfill Site
Burlington, Ontario

Table C.4

Pesticides and PCB's

Leachate Analytical Results

Location:		MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13	MH13
Sample Date:		08/17/87	11/10/87	05/12/88	11/28/88	01/18/89	05/24/89	07/25/89	11/16/89	04/10/90
Parameters	*Units*									
Pesticides and PCB's (Cont'd)										
METHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	--
MIREX	ug/l	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.020)	ND(0.050)	ND(0.010)	ND(0.020)	ND(0.005)	--
O,P'-DDT	ug/l	--	--	--	--	--	--	--	--	--
OXYCHLORDANE	ug/l	--	--	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)	ND(0.002)	--
P,P'-DDT	ug/l	--	--	--	--	--	--	--	--	--
PARATHION	ug/l	--	--	--	--	--	--	--	--	--
PARATHION ETHYL	ug/l	--	--	--	--	--	--	--	--	--
PARATHION METHYL	ug/l	--	--	--	--	--	--	--	--	--
TOTAL PCB	ug/l	--	--	--	ND(0.5)	ND(0.500)	ND(0.500)	ND(0.250)	ND(0.02)	99 UJ
TOXAPHENE	ug/l	--	ND(0.5)	--	--	--	--	--	--	--
TRANS-CHLORDANE	ug/l	ND(0.005)	ND(0.005)	ND(0.005)	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.4

Pesticides and PCB's

Leachate Analytical Results

Location:		MH15	MH15	MH15	MH15	MH15	MH15	MHFB
Sample Date:		10/25/92	04/07/93	10/19/93	04/20/94	04/05/95	10/19/95	04/20/94
Parameters	*Units*							
Pesticides and PCB's								
2,4,5-TP (SILVEX)	ug/l	ND(0.05)	--	ND(0.5)	--	--	--	--
2,4-D	ug/l	ND(0.2)	--	ND(2)	--	--	--	--
2,4-DDD	ug/l	--	--	--	--	--	--	--
2,4-DDT	ug/l	--	--	ND(0.2)	--	--	--	--
4,4-DDD	ug/l	--	ND(0.020)	--	--	--	--	--
4,4-DDE	ug/l	--	ND(0.020)	--	--	--	--	--
4,4-DDT	ug/l	--	ND(0.020)	ND(0.2)	ND(0.003)	--	--	ND(0.003)
ALDRIN	ug/l	ND(0.02)	ND(0.020)	ND(0.2)	ND(0.003) UJ	ND(0.6)	ND(0.006)	ND(0.003) UJ
ALPHA-BHC	ug/l	--	ND(0.020)	--	--	--	--	--
ALPHA-CHLORDANE	ug/l	ND(0.02)	ND(0.020)	ND(0.2)	ND(0.003)	ND(0.6)	ND(0.006)	ND(0.003)
ALPHA-ENDOSULFAN	ug/l	--	ND(0.020)	--	--	--	--	--
AROCHLOR-1016	ug/l	--	--	--	--	ND(5)	ND(0.05)	--
AROCHLOR-1221	ug/l	--	--	--	--	ND(10)	ND(0.1)	--
AROCHLOR-1232	ug/l	--	--	--	--	ND(5)	ND(0.05)	--
AROCHLOR-1242	ug/l	--	--	--	--	ND(5)	ND(0.05)	--
AROCHLOR-1248	ug/l	--	--	--	--	ND(5)	ND(0.05)	--
AROCHLOR-1254	ug/l	--	--	--	--	ND(5)	ND(0.05)	--
AROCHLOR-1260	ug/l	--	--	--	--	ND(5)	ND(0.05)	--
BETA-BHC	ug/l	--	ND(0.020)	--	--	--	--	--
BETA-ENDOSULFAN	ug/l	--	ND(0.020)	--	--	--	--	--
CARBARYL	ug/l	ND(16)	--	ND(16)	13	ND(2)	5.3	--
CIS-CHLORDANE	ug/l	--	--	--	--	--	--	--
DDT'S	ug/l	ND(0.02)	--	--	--	--	--	--
DELTA-BHC	ug/l	--	ND(0.020)	--	--	--	--	--
DIAZINON	ug/l	ND(0.5)	--	ND(0.5)	ND(0.5)	ND(0.5) UJ	ND(2)	--
DIELDRIN	ug/l	ND(0.02)	ND(0.020)	ND(0.2)	ND(0.003)	ND(0.6)	ND(0.006)	ND(0.003)
ENDOSULFAN I	ug/l	--	--	--	--	--	--	--
ENDOSULFAN II	ug/l	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	ug/l	--	ND(0.020)	--	--	--	--	--
ENDRIN	ug/l	ND(0.02)	ND(0.020)	ND(0.2)	0.005	--	ND(0.006)	ND(0.003)
ENDRIN ALDEHYDE	ug/l	--	ND(0.020)	--	--	--	--	--
GAMMA-BHC(LINDANE)	ug/l	ND(0.02)	ND(0.020)	--	ND(0.003)	ND(0.6)	ND(0.006)	ND(0.003)
GAMMA-CHLORDANE	ug/l	--	ND(0.020)	ND(0.2)	ND(0.003)	ND(0.6)	ND(0.006)	ND(0.003)
HEPTACHLOR	ug/l	ND(0.02)	ND(0.020)	ND(0.2)	ND(0.003)	ND(0.6)	ND(0.006) UJ	ND(0.003)
HEPTACHLOR EPOXIDE	ug/l	ND(0.02)	ND(0.020)	ND(0.2)	ND(0.003)	ND(0.6)	ND(0.006)	ND(0.003)
HEXACHLOROBENZENE	ug/l	--	--	--	--	--	--	--
LINDANE	ug/l	--	--	ND(0.2)	--	--	--	--
METHOXYCHLOR	ug/l	ND(0.05)	--	ND(0.5)	ND(0.0125)	ND(2.4)	ND(0.024)	ND(0.0125)

Bayview Landfill Site
Burlington, Ontario

Table C.4

Leachate Analytical Results

Pesticides and PCB's

Location:		MH15	MH15	MH15	MH15	MH15	MH15	MHFB
Sample Date:		10/25/92	04/07/93	10/19/93	04/20/94	04/05/95	10/19/95	04/20/94
Parameters	*Units*							
Pesticides and PCB's (Cont'd)								
METHYL PARATHION	ug/l	ND(0.5)	--	ND(0.5)	ND(0.5) (mg/l)	--	--	--
MIREX	ug/l	--	--	--	--	--	--	--
O,P'-DDT	ug/l	--	--	--	--	--	ND(0.006)	--
OXYCHLORDANE	ug/l	--	--	--	--	--	--	--
P,P'-DDT	ug/l	--	--	--	--	ND(0.6)	ND(0.006)	--
PARATHION	ug/l	ND(0.5)	--	ND(0.5)	--	--	--	--
PARATHION ETHYL	ug/l	--	--	--	--	ND(0.5)	ND(2)	--
PARATHION METHYL	ug/l	--	--	--	--	ND(0.5)	ND(2)	--
TOTAL PCB	ug/l	ND(0.5)	ND(0.500)	ND(5)	ND(0.5)	--	--	ND(0.5)
TOXAPHENE	ug/l	ND(1)	ND(0.500)	ND(10)	ND(1.0)	ND(20)	ND(0.2)	ND(1.0)
TRANS-CHLORDANE	ug/l	--	--	--	--	--	--	--

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table C.5
Leachate QAQC Analytical Results

Location:		MHFB		FBLK						
Sample Date:		04/05/95	10/19/95	03/19/87	05/04/87	11/16/88	11/28/88	01/18/89	05/24/89	07/25/89
Parameters	*Units*									
Acid Extractables										
2,4,6-TRICHLOROPHENOL	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
2,4-DICHLOROPHENOL	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
2,4-DIMETHYL PHENOL	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
2,4-DINITROPHENOL	ug/l	--	--	--	ND(3.0)	--	--	--	--	--
2-CHLOROPHENOL	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
2-NITROPHENOL	ug/l	--	--	--	ND(5.0)	--	--	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	--	--	--	ND(5.0)	--	--	--	--	--
4-NITROPHENOL	ug/l	--	--	--	ND(5.0)	--	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	--	--	--	ND(5.0)	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
PHENOL	ug/l	--	--	--	--	--	--	--	--	--
Base Neutrals/SVOC										
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	--	--	--	ND(5.0)	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
1,4-DICHLOROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
2,4-DINITROTOLUENE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
2,6-DINITROTOLUENE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
2-CHLORONAPHTHALENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	--	--	--	ND(5.0)	--	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
9H-FLUORENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
ACENAPHTHENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
ACENAPHTHYLENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
ANTHRACENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
BENZIDINE	ug/l	--	--	--	ND(5.0)	--	--	--	--	--
BENZO(A)ANTHRACENE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
BENZO(A)PYRENE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
BENZO(B)FLUORANTHENE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
BENZO(K)FLUORANTHENE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	TR(2) J	ND(2)	--	39.3	--	--	--	--	--
BUTYL BENZYL PHTHALATE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
CHRYSENE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--

001332

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		MHFB		FBLK						
Sample Date:		04/05/95	10/19/95	03/19/87	05/04/87	11/16/88	11/28/88	01/18/89	05/24/89	07/25/89
Parameters	*Units*									
Base Neutrals/SVOC (Cont'd)										
DI-N-BUTYL PHTHALATE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
DI-N-OCTYL PHTHALATE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
DIETHYL PHTHALATE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
DIMETHYL PHTHALATE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
FLUORANTHENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	--	--	ND(0.020)	ND(1.0)	--	ND(0.020)	ND(0.020)	--	--
HEXACHLOROBUTADIENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
HEXACHLOROETHANE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
ISOPHORONE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	--	--	ND(3.0)	--	--	--	--	--
N-NITROSODIPHENYLAMINE	ug/l	--	--	--	ND(4.0)	--	--	--	--	--
NAPHTHALENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
NITROBENZENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
PHENANTHRENE	ug/l	--	--	--	ND(1.0)	--	--	--	--	--
PYRENE	ug/l	--	--	--	ND(2.0)	--	--	--	--	--
General Chemistry										
ALKALINITY	mg/l	ND(1.0)	7.6	--	--	--	--	--	--	--
AMMONIA NITROGEN	mg/l	ND(0.01)	ND(0.01)	--	--	--	--	--	--	--
BOD	mg/l	ND(2)	ND(2)	--	--	--	--	--	--	--
CHLORIDE	mg/l	ND(0.10)	0.73	--	--	--	--	--	--	--
COD	mg/l	ND(5)	ND(5)	--	--	--	--	--	--	--
CONDUCTIVITY	umhos/cm	0	--	--	--	--	--	--	--	--
FLUORIDE	mg/l	ND(0.10)	0.34	--	--	--	--	--	--	--
HARDNESS	mg/l	ND(1.0)	2	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	ND(0.10)	<0.10	--	--	--	--	--	--	--
PH		8.6	8.80	--	--	--	--	--	--	--
SULFATE	mg/l	ND(0.10)	0.34	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	ND(1)	<1	--	--	--	--	--	--	--
TOTAL PHOSPHORUS	mg/l	ND(0.01)	ND(0.01)	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	ND(1)	ND(1)	--	--	--	--	--	--	--
Metals										
ALUMINUM	mg/l	0.071	0.034	--	--	--	--	--	--	--
ANTIMONY	mg/l	0.002	ND(0.002)	--	--	--	--	--	--	--
ARSENIC	mg/l	0.002	ND(0.002)	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		MHFB		FBLK						
Sample Date:		04/05/95	10/19/95	03/19/87	05/04/87	11/16/88	11/28/88	01/18/89	05/24/89	07/25/89
Parameters	*Units*									
Metals (Cont'd)										
BARIUM	mg/l	ND(.003)	ND(0.001)	--	--	--	--	--	--	--
BERYLLIUM	mg/l	--	--	--	--	--	--	--	--	--
BISMUTH	mg/l	ND(.04)	ND(0.04)	--	--	--	--	--	--	--
CADMIUM	mg/l	ND(.003)	ND(0.003)	--	--	--	--	--	--	--
CALCIUM	mg/l	--	--	--	--	--	--	--	--	--
CHROMIUM	mg/l	ND(.005)	ND(0.005)	--	--	--	--	--	--	--
COBALT	mg/l	ND(.005)	ND(0.005)	--	--	--	--	--	--	--
COPPER	mg/l	0.007	0.004	--	--	--	--	--	--	--
CYANIDE, TOTAL	mg/l	ND(.005)	ND(0.005) UJ	--	--	--	--	--	--	--
IRON	mg/l	0.013	0.010	--	--	--	--	--	--	--
LEAD	mg/l	ND(.025)	ND(0.025)	--	--	--	--	--	--	--
MAGNESIUM	mg/l	--	--	--	--	--	--	--	--	--
MANGANESE	mg/l	ND(.001)	0.002	--	--	--	--	--	--	--
MERCURY	mg/l	ND(0.001)	ND(0.001) UJ	--	--	--	--	--	--	--
MOLYBDENUM	mg/l	ND(.006)	ND(0.006)	--	--	--	--	--	--	--
NICKEL	mg/l	ND(.01)	ND(0.01)	--	--	--	--	--	--	--
POTASSIUM	mg/l	--	--	--	--	--	--	--	--	--
SELENIUM	mg/l	0.004	0.003	--	--	--	--	--	--	--
SILVER	mg/l	ND(.007)	ND(0.007)	--	--	--	--	--	--	--
SODIUM	mg/l	--	--	--	--	--	--	--	--	--
STRONTIUM	mg/l	--	--	--	--	--	--	--	--	--
TIN	mg/l	ND(.018)	ND(0.018)	--	--	--	--	--	--	--
TITANIUM	mg/l	ND(.003)	ND(0.003)	--	--	--	--	--	--	--
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
TUNGSTEN	mg/l	--	--	--	--	--	--	--	--	--
VANADIUM	mg/l	ND(.003)	ND(0.003)	--	--	--	--	--	--	--
ZINC	mg/l	0.005	ND(0.003)	--	--	--	--	--	--	--
Volatile Organics										
1,1,1-TRICHLOROETHANE	ug/l	ND(1)	ND(1)	--	--	--	ND(1.0)	ND(1.0)	--	--
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
1,1-DICHLOROETHANE	ug/l	ND(1)	ND(1)	--	--	--	ND(1.0)	ND(1.0)	--	--
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
1,2-DICHLOROETHANE	ug/l	ND(1)	ND(1)	--	--	--	ND(1.0)	ND(1.0)	--	--
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
1,2-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	ND(1)	ND(1)	--	--	--	ND(1.0)	ND(1.0)	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		MHFB		FBLK						
Sample Date:		04/05/95	10/19/95	03/19/87	05/04/87	11/16/88	11/28/88	01/18/89	05/24/89	07/25/89
Parameters	*Units*									
Volatile Organics (Cont'd)										
1,4-DICHLOROBENZENE	ug/l	ND(1)	2.1	--	--	--	ND(1.0)	ND(1.0)	--	--
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	ND(0.5)	ND(0.5)	--	--	--	ND(0.5)	ND(0.5)	--	--
BIS(CHLOROMETHYL)ETHER	ug/l	--	--	--	--	--	--	--	--	--
BROMOFORM	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
BROMOMETHANE	ug/l	--	--	--	--	--	ND(2.0)	ND(2.0)	--	--
CARBON TETRACHLORIDE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
CHLOROBENZENE	ug/l	ND(0.5)	4.4	--	--	--	ND(0.5)	ND(0.5)	--	--
CHLOROETHANE	ug/l	--	--	--	--	--	ND(2.0)	ND(2.0)	--	--
CHLOROFORM	ug/l	--	--	--	--	--	ND(1.0)	1.47	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	ND(2.0)	ND(2.0)	--	--
ETHYLBENZENE	ug/l	ND(0.5)	1.6	--	--	--	ND(0.5)	ND(0.5)	--	--
M&P-XYLENE	ug/l	--	--	--	--	--	0.77	ND(0.5)	--	--
METHYL CHLORIDE	ug/l	--	--	--	--	--	ND(2.0)	ND(2.0)	--	--
METHYLENE CHLORIDE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
O-XYLENE	ug/l	ND(0.5)	5.2	--	--	--	0.51	ND(0.5)	--	--
P+M-XYLENE	ug/l	ND(0.5)	9.9	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	ND(1)	ND(1)	--	--	--	ND(1.0)	ND(1.0)	--	--
TOLUENE	ug/l	ND(0.5)	1.0	--	--	--	0.52	0.61	--	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	ND(1.0)	ND(1.0)	--	--
TRICHLOROETHYLENE	ug/l	ND(1)	ND(1)	--	--	--	ND(1.0)	ND(1.0)	--	--
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	ND(2.0)	ND(2.0)	--	--
VINYL CHLORIDE	ug/l	--	--	--	--	--	ND(2.0)	ND(2.0)	--	--
Pesticides and PCB's										
2,4,5-TP (SILVEX)	ug/l	--	--	--	--	--	--	--	--	--
2,4-D	ug/l	--	--	--	--	--	--	--	--	--
2,4-DDD	ug/l	--	--	ND(0.020)	ND(0.020)	ND(0.020)	--	--	--	--
2,4-DDT	ug/l	--	--	--	ND(0.020)	--	--	ND(0.020)	ND(0.010)	ND(0.020)
4,4-DDD	ug/l	--	--	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
4,4-DDE	ug/l	--	--	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
4,4-DDT	ug/l	--	--	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
ALDRIN	ug/l	ND(0.06)	ND(0.006)	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
ALPHA-BHC	ug/l	--	--	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
ALPHA-CHLORDANE	ug/l	ND(0.06)	ND(0.006)	ND(0.020)	ND(0.020)	--	--	ND(0.020)	ND(0.010)	ND(0.020)

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		MHFB		FBLK						
Sample Date:		04/05/95	10/19/95	03/19/87	05/04/87	11/16/88	11/28/88	01/18/89	05/24/89	07/25/89
Parameters	Units									
Pesticides and PCB's (Cont'd)										
ALPHA-ENDOSULFAN	ug/l	--	--	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
AROCHLOR-1016	ug/l	ND(0.5)	ND(0.05)	--	--	--	--	--	--	--
AROCHLOR-1221	ug/l	ND(1)	ND(0.1)	--	--	--	--	--	--	--
AROCHLOR-1232	ug/l	ND(0.5)	ND(0.05)	--	--	--	--	--	--	--
AROCHLOR-1242	ug/l	ND(0.5)	ND(0.05)	--	--	--	--	--	--	--
AROCHLOR-1248	ug/l	ND(0.5)	ND(0.05)	--	--	--	--	--	--	--
AROCHLOR-1254	ug/l	ND(0.5)	ND(0.05)	--	--	--	--	--	--	--
AROCHLOR-1260	ug/l	ND(0.5)	ND(0.05)	--	--	--	--	--	--	--
BETA-BHC	ug/l	--	--	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
BETA-ENDOSULFAN	ug/l	--	--	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
CARBARYL	ug/l	ND(2)	ND(5)	--	--	--	--	--	--	--
DDT'S	ug/l	--	--	--	--	--	--	--	--	--
DELTA-BHC	ug/l	--	--	--	--	--	ND(0.020)	ND(0.020)	--	--
DIAZINON	ug/l	ND(0.5) UJ	ND(2)	--	--	--	--	--	--	--
DIELDRIN	ug/l	ND(0.06)	ND(0.006)	ND(0.020)	--	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
ENDOSULFAN SULFATE	ug/l	--	--	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
ENDRIN	ug/l	--	ND(0.006)	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
ENDRIN ALDEHYDE	ug/l	--	--	--	--	--	ND(0.020)	--	--	--
GAMMA-BHC(LINDANE)	ug/l	ND(0.06)	ND(0.006)	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
GAMMA-CHLORDANE	ug/l	ND(0.06)	ND(0.006)	ND(0.020)	ND(0.020)	--	--	ND(0.020)	ND(0.010)	ND(0.020)
HEPTACHLOR	ug/l	ND(0.06)	ND(0.006) UJ	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
HEPTACHLOR EPOXIDE	ug/l	ND(0.06)	ND(0.006)	ND(0.020)	--	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
HEXACHLOROBENZENE	ug/l	--	--	--	ND(0.020)	--	ND(0.020)	--	--	ND(0.020)
METHOXYCHLOR	ug/l	ND(0.24)	ND(0.024)	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
METHYL PARATHION	ug/l	--	--	--	--	--	--	--	--	--
MIREX	ug/l	--	--	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.050)	ND(0.010)	ND(0.020)
O,P'-DDT	ug/l	--	ND(0.006)	--	--	--	--	--	--	--
OXYCHLORDANE	ug/l	--	--	ND(0.020)	ND(0.020)	--	ND(0.020)	ND(0.020)	ND(0.010)	ND(0.020)
P,P'-DDT	ug/l	ND(0.06)	ND(0.006)	--	--	--	--	--	--	--
PARATHION	ug/l	--	--	--	--	--	--	--	--	--
PARATHION ETHYL	ug/l	ND(0.5)	ND(2)	--	--	--	--	--	--	--
PARATHION METHYL	ug/l	ND(0.5)	ND(2)	--	--	--	--	--	--	--
TOTAL PCB	ug/l	--	--	ND(0.500)	ND(0.500)	--	ND(0.500)	ND(0.500)	ND(0.500)	ND(0.250)
TOXAPHENE	ug/l	ND(20)	ND(0.2)	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		FBLK1			FBLK2	FBLK3		TBLK		
Sample Date:		05/28/86	10/25/92	01/25/93	05/28/86	05/28/86	04/27/92	05/28/86	03/19/87	11/28/88
Parameters	*Units*									
Acid Extractables										
2,4,6-TRICHLOROPHENOL	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
2,4-DICHLOROPHENOL	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
2,4-DIMETHYL PHENOL	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
2,4-DINITROPHENOL	ug/l	ND(3.0)	--	--	ND(5.0)	ND(3.0)	--	--	--	--
2-CHLOROPHENOL	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
2-NITROPHENOL	ug/l	ND(5.0)	--	--	ND(3.0)	ND(5.0)	--	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	ND(5.0)	--	--	ND(5.0)	ND(5.0)	--	--	--	--
4-NITROPHENOL	ug/l	ND(25.0)	--	--	ND(5.0)	ND(5.0)	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	ND(5.0)	--	--	ND(5.0)	ND(5.0)	--	--	--	--
PENTACHLOROPHENOL	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
PHENOL	ug/l	ND(3.0)	--	--	ND(3.0)	ND(3.0)	--	--	--	--
Base Neutrals/SVOC										
1,2,4-TRICHLOROBENZENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	ND(5.0)	--	--	ND(5.0)	ND(5.0)	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
1,4-DICHLOROBENZENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
2,4-DINITROTOLUENE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
2,6-DINITROTOLUENE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
2-CHLORONAPHTHALENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	ND(5.0)	--	--	ND(5.0)	ND(5.0)	--	--	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
9H-FLUORENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
ACENAPHTHENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
ACENAPHTHYLENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
ANTHRACENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
BENZIDINE	ug/l	ND(5.0)	--	--	ND(5.0)	ND(5.0)	--	--	--	--
BENZO(A)ANTHRACENE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
BENZO(A)PYRENE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
BENZO(B)FLUORANTHENE	ug/l	ND(2.0)	--	--	ND(2.0)	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
BENZO(K)FLUORANTHENE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	18.8	ND(0.5)	--	22.3	14.4	ND(0.5)	--	--	--
BUTYL BENZYL PHTHALATE	ug/l	ND(2.0)	--	--	6.3	5.6	--	--	--	--
CHRYSENE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		FBLK1			FBLK2	FBLK3		TBLK		
Sample Date:		05/28/86	10/25/92	01/25/93	05/28/86	05/28/86	04/27/92	05/28/86	03/19/87	11/28/88
Parameters	*Units*									
Base Neutrals/SVOC (Cont'd)										
DI-N-BUTYL PHTHALATE	ug/l	ND(1.0)	--	--	ND(1.0)	4.0	--	--	--	--
DI-N-OCTYL PHTHALATE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
DIETHYL PHTHALATE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
DIMETHYL PHTHALATE	ug/l	ND(2.0)	--	--	3.3	4.9	--	--	--	--
FLUORANTHENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
HEXACHLOROBENZENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
HEXACHLOROBUTADIENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
HEXACHLOROETHANE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
ISOPHORONE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	ND(3.0)	--	--	ND(3.0)	ND(3.0)	--	--	--	--
N-NITROSODIPHENYLAMINE	ug/l	ND(4.0)	--	--	ND(4.0)	ND(4.0)	--	--	--	--
NAPHTHALENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
NITROBENZENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
PHENANTHRENE	ug/l	ND(1.0)	--	--	ND(1.0)	ND(1.0)	--	--	--	--
PYRENE	ug/l	ND(2.0)	--	--	ND(2.0)	ND(2.0)	--	--	--	--
General Chemistry										
ALKALINITY	mg/l	--	2.8	--	--	--	1.6	--	--	--
AMMONIA NITROGEN	mg/l	--	ND(0.03)	--	--	--	ND(0.03)	--	--	--
BOD	mg/l	--	ND(2)	--	--	--	ND(2)	--	--	--
CHLORIDE	mg/l	--	ND(0.10)	--	--	--	0.27	--	--	--
COD	mg/l	--	ND(5)	--	--	--	ND(5)	--	--	--
CONDUCTIVITY	umhos/cm	--	53.0	--	--	--	55.0	--	--	--
FLUORIDE	mg/l	--	ND(0.10)	--	--	--	ND(0.10)	--	--	--
HARDNESS	mg/l	--	ND(0.1)	--	--	--	ND(0.1)	--	--	--
KJELDAHL NITROGEN	mg/l	--	ND(0.06)	--	--	--	ND(0.06)	--	--	--
PH		--	8.36	--	--	--	8.08	--	--	--
SULFATE	mg/l	--	ND(0.10)	--	--	--	ND(0.10)	--	--	--
TOTAL PHENOLS	ug/l	--	ND(1.0)	--	--	--	ND(1)	--	--	--
TOTAL PHOSPHORUS	mg/l	--	--	--	--	--	--	--	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	ND(1)	--	--	--	ND(1)	--	--	--
Metals										
ALUMINUM	mg/l	--	0.054	--	--	--	ND(0.25)	--	--	--
ANTIMONY	mg/l	--	--	ND(0.002)	--	--	--	--	--	--
ARSENIC	mg/l	--	ND(0.002)	--	--	--	ND(0.002)	--	--	--

001338

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		FBLK1			FBLK2	FBLK3		TBLK		
Sample Date:		05/28/86	10/25/92	01/25/93	05/28/86	05/28/86	04/27/92	05/28/86	03/19/87	11/28/88
Parameters	*Units*									
Metals (Cont'd)										
BARIUM	mg/l	--	ND(0.003)	--	--	--	ND(0.003)	--	--	--
BERYLLIUM	mg/l	--	ND(0.003)	--	--	--	ND(0.003)	--	--	--
BISMUTH	mg/l	--	ND(0.04)	--	--	--	ND(0.04)	--	--	--
CADMIUM	mg/l	--	ND(0.003)	--	--	--	ND(0.003)	--	--	--
CALCIUM	mg/l	--	0.107	--	--	--	ND(0.1)	--	--	--
CHROMIUM	mg/l	--	ND(0.005)	--	--	--	ND(0.005)	--	--	--
COBALT	mg/l	--	ND(0.005)	--	--	--	ND(0.005)	--	--	--
COPPER	mg/l	--	0.004	--	--	--	0.006	--	--	--
CYANIDE, TOTAL	mg/l	--	ND(0.005)	--	--	--	--	--	--	--
IRON	mg/l	--	0.025	--	--	--	ND(0.005)	--	--	--
LEAD	mg/l	--	ND(0.01)	--	--	--	0.013	--	--	--
MAGNESIUM	mg/l	--	ND(0.1)	--	--	--	ND(0.1)	--	--	--
MANGANESE	mg/l	--	ND(0.001)	--	--	--	ND(0.001)	--	--	--
MERCURY	mg/l	--	ND(0.001)	--	--	--	ND(0.001)	--	--	--
MOLYBDENUM	mg/l	--	ND(0.006)	--	--	--	ND(0.006)	--	--	--
NICKEL	mg/l	--	ND(0.01)	--	--	--	ND(0.01)	--	--	--
POTASSIUM	mg/l	--	ND(1)	--	--	--	ND(1)	--	--	--
SELENIUM	mg/l	--	ND(0.002)	--	--	--	0.003	--	--	--
SILVER	mg/l	--	ND(0.01)	--	--	--	ND(0.01)	--	--	--
SODIUM	mg/l	--	0.482	--	--	--	ND(0.06)	--	--	--
STRONTIUM	mg/l	--	ND(0.003)	--	--	--	ND(0.003)	--	--	--
TIN	mg/l	--	--	ND(0.18)	--	--	--	--	--	--
TITANIUM	mg/l	--	ND(0.003)	--	--	--	ND(0.003)	--	--	--
TOTAL PHOSPHORUS	mg/l	--	ND(0.005)	--	--	--	ND(0.05)	--	--	--
TUNGSTEN	mg/l	--	ND(0.02)	--	--	--	ND(0.02)	--	--	--
VANADIUM	mg/l	--	ND(0.003)	--	--	--	ND(0.003)	--	--	--
ZINC	mg/l	--	0.005	--	--	--	ND(0.003)	--	--	--
Volatile Organics										
1,1,1-TRICHLOROETHANE	ug/l	--	ND(1.0)	--	--	--	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(2.0)	ND(1.0)
1,1,2-TRICHLOROETHANE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(2.0)	ND(1.0)
1,1-DICHLOROETHANE	ug/l	--	ND(1.0)	--	--	--	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(2.0)	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(2.0)	ND(1.0)
1,2-DICHLOROETHANE	ug/l	--	ND(1.0)	--	--	--	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(2.0)	ND(1.0)
1,2-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	ND(1.0)	--	--	--	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		FBLK1			FBLK2	FBLK3		TBLK		
Sample Date:		05/28/86	10/25/92	01/25/93	05/28/86	05/28/86	04/27/92	05/28/86	03/19/87	11/28/88
Parameters	*Units*									
Volatile Organics (Cont'd)										
1,4-DICHLOROBENZENE	ug/l	--	ND(1.0)	--	--	--	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	--	ND(0.5)	--	--	--	ND(0.5)	ND(0.5)	ND(1.0)	ND(0.5)
BIS(CHLOROMETHYL)ETHER	ug/l	--	--	--	--	--	--	--	--	--
BROMOFORM	ug/l	--	--	--	--	--	--	ND(1.0)	ND(2.0)	ND(1.0)
BROMOMETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	--	ND(2.0)
CARBON TETRACHLORIDE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(2.0)	ND(1.0)
CHLOROBENZENE	ug/l	--	ND(0.5)	--	--	--	ND(0.5)	ND(0.5)	ND(1.0)	ND(0.5)
CHLOROETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	--	ND(2.0)
CHLOROFORM	ug/l	--	--	--	--	--	--	ND(1.0)	ND(2.0)	5.01
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	--	--	ND(1.0)
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	--	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(2.0)	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(2.0)	ND(1.0)
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	--	ND(2.0)
ETHYLBENZENE	ug/l	--	ND(0.5)	--	--	--	ND(0.5)	ND(0.5)	ND(1.0)	ND(0.5)
M&P-XYLENE	ug/l	--	ND(0.5)	--	--	--	ND(0.5)	ND(0.5)	ND(1.0)	ND(0.5)
METHYL CHLORIDE	ug/l	--	--	--	--	--	--	ND(2.0)	--	ND(2.0)
METHYLENE CHLORIDE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(2.0)	ND(1.0)
O-XYLENE	ug/l	--	ND(0.5)	--	--	--	ND(0.5)	ND(0.5)	ND(1.0)	ND(0.5)
P+M-XYLENE	ug/l	--	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	--	ND(1.0)	--	--	--	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
TOLUENE	ug/l	--	ND(0.5)	--	--	--	0.6	ND(0.5)	ND(1.0)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	ND(2.0)	ND(1.0)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	ND(1.0)	--	ND(1.0)
TRICHLOROETHYLENE	ug/l	--	ND(1.0)	--	--	--	ND(1.0)	ND(1.0)	ND(2.0)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	ND(2.0)	--	ND(2.0)
VINYL CHLORIDE	ug/l	--	--	--	--	--	--	ND(2.0)	--	ND(2.0)
Pesticides and PCB's										
2,4,5-TP (SILVEX)	ug/l	--	ND(0.05)	--	--	--	--	--	--	--
2,4-D	ug/l	--	ND(0.2)	--	--	--	--	--	--	--
2,4-DDD	ug/l	--	--	--	--	--	--	--	--	--
2,4-DDT	ug/l	--	--	--	--	--	--	--	--	--
4,4-DDD	ug/l	--	--	--	--	--	--	--	--	--
4,4-DDE	ug/l	--	--	--	--	--	--	--	--	--
4,4-DDT	ug/l	--	--	--	--	--	--	--	--	--
ALDRIN	ug/l	--	ND(0.02)	--	--	--	--	--	--	--
ALPHA-BHC	ug/l	--	--	--	--	--	--	--	--	--
ALPHA-CHLORDANE	ug/l	--	ND(0.02)	--	--	--	--	--	--	--

001340

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		FBLK1			FBLK2	FBLK3		TBLK		
Sample Date:		05/28/86	10/25/92	01/25/93	05/28/86	05/28/86	04/27/92	05/28/86	03/19/87	11/28/88
Parameters	Units									
Pesticides and PCB's (Cont'd)										
ALPHA-ENDOSULFAN	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1016	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1221	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1232	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1242	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1248	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1254	ug/l	--	--	--	--	--	--	--	--	--
AROCHLOR-1260	ug/l	--	--	--	--	--	--	--	--	--
BETA-BHC	ug/l	--	--	--	--	--	--	--	--	--
BETA-ENDOSULFAN	ug/l	--	--	--	--	--	--	--	--	--
CARBARYL	ug/l	--	ND(16)	--	--	--	--	--	--	--
DDT'S	ug/l	--	ND(0.02)	--	--	--	--	--	--	--
DELTA-BHC	ug/l	--	--	--	--	--	--	--	--	--
DIAZINON	ug/l	--	ND(0.5)	--	--	--	--	--	--	--
DIELDRIN	ug/l	--	ND(0.02)	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	ug/l	--	--	--	--	--	--	--	--	--
ENDRIN	ug/l	--	ND(0.02)	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	ug/l	--	--	--	--	--	--	--	--	--
GAMMA-BHC(LINDANE)	ug/l	--	ND(0.02)	--	--	--	--	--	--	--
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	--
HEPTACHLOR	ug/l	--	ND(0.02)	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	ug/l	--	ND(0.02)	--	--	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	--	--	--	--	--	--	--	--	--
METHOXYCHLOR	ug/l	--	ND(0.05)	--	--	--	--	--	--	--
METHYL PARATHION	ug/l	--	ND(0.5)	--	--	--	--	--	--	--
MIREX	ug/l	--	--	--	--	--	--	--	--	--
O,P'-DDT	ug/l	--	--	--	--	--	--	--	--	--
OXYCHLORDANE	ug/l	--	--	--	--	--	--	--	--	--
P,P'-DDT	ug/l	--	--	--	--	--	--	--	--	--
PARATHION	ug/l	--	ND(0.5)	--	--	--	--	--	--	--
PARATHION ETHYL	ug/l	--	--	--	--	--	--	--	--	--
PARATHION METHYL	ug/l	--	--	--	--	--	--	--	--	--
TOTAL PCB	ug/l	--	ND(0.5)	--	--	--	--	--	--	--
TOXAPHENE	ug/l	--	ND(1)	--	--	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		TBLK	
Sample Date:		01/18/89	05/24/89
Parameters	*Units*		
Acid Extractables			
2,4,6-TRICHLOROPHENOL	ug/l	--	--
2,4-DICHLOROPHENOL	ug/l	--	--
2,4-DIMETHYL PHENOL	ug/l	--	--
2,4-DINITROPHENOL	ug/l	--	--
2-CHLOROPHENOL	ug/l	--	--
2-NITROPHENOL	ug/l	--	--
4,6-DINITRO-O-CRESOL	ug/l	--	--
4-NITROPHENOL	ug/l	--	--
P-CHLORO-M-CRESOL	ug/l	--	--
PENTACHLOROPHENOL	ug/l	--	--
PHENOL	ug/l	--	--
Base Neutrals/SVOC			
1,2,4-TRICHLOROBENZENE	ug/l	--	--
1,2-DICHLOROBENZENE	ug/l	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	--	--
1,3-DICHLOROBENZENE	ug/l	--	--
1,4-DICHLOROBENZENE	ug/l	--	--
2,4-DINITROTOLUENE	ug/l	--	--
2,6-DINITROTOLUENE	ug/l	--	--
2-CHLORONAPHTHALENE	ug/l	--	--
3,3'-DICHLOROBENZIDINE	ug/l	--	--
4-BROMOPHENYL PHENYL ETHER	ug/l	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	--
9H-FLUORENE	ug/l	--	--
ACENAPHTHENE	ug/l	--	--
ACENAPHTHYLENE	ug/l	--	--
ANTHRACENE	ug/l	--	--
BENZIDINE	ug/l	--	--
BENZO(A)ANTHRACENE	ug/l	--	--
BENZO(A)PYRENE	ug/l	--	--
BENZO(B)FLUORANTHENE	ug/l	--	--
BENZO(GHI)PERYLENE	ug/l	--	--
BENZO(K)FLUORANTHENE	ug/l	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	--
BUTYL BENZYL PHTHALATE	ug/l	--	--
CHRYSENE	ug/l	--	--

001342

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		TBLK	
Sample Date:		01/18/89	05/24/89
Parameters	*Units*		
Base Neutrals/SVOC (Cont'd)			
DI-N-BUTYL PHTHALATE	ug/l	--	--
DI-N-OCTYL PHTHALATE	ug/l	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	--	--
DIETHYL PHTHALATE	ug/l	--	--
DIMETHYL PHTHALATE	ug/l	--	--
FLUORANTHENE	ug/l	--	--
HEXACHLOROBENZENE	ug/l	--	--
HEXACHLOROBUTADIENE	ug/l	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	--	--
HEXACHLOROETHANE	ug/l	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	--	--
ISOPHORONE	ug/l	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	--
N-NITROSODIPHENYLAMINE	ug/l	--	--
NAPHTHALENE	ug/l	--	--
NITROBENZENE	ug/l	--	--
PHENANTHRENE	ug/l	--	--
PYRENE	ug/l	--	--
General Chemistry			
ALKALINITY	mg/l	--	--
AMMONIA NITROGEN	mg/l	--	--
BOD	mg/l	--	--
CHLORIDE	mg/l	--	--
COD	mg/l	--	--
CONDUCTIVITY	umhos/cm	--	--
FLUORIDE	mg/l	--	--
HARDNESS	mg/l	--	--
KJELDAHL NITROGEN	mg/l	--	--
PH		--	--
SULFATE	mg/l	--	--
TOTAL PHENOLS	ug/l	--	--
TOTAL PHOSPHORUS	mg/l	--	--
TOTAL SUSPENDED SOLIDS	mg/l	--	--
Metals			
ALUMINUM	mg/l	--	--
ANTIMONY	mg/l	--	--
ARSENIC	mg/l	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		TBLK	
Sample Date:		01/18/89	05/24/89
Parameters	*Units*		
Metals (Cont'd)			
BARIUM	mg/l	--	--
BERYLLIUM	mg/l	--	--
BISMUTH	mg/l	--	--
CADMIUM	mg/l	--	--
CALCIUM	mg/l	--	--
CHROMIUM	mg/l	--	--
COBALT	mg/l	--	--
COPPER	mg/l	--	--
CYANIDE, TOTAL	mg/l	--	--
IRON	mg/l	--	--
LEAD	mg/l	--	--
MAGNESIUM	mg/l	--	--
MANGANESE	mg/l	--	--
MERCURY	mg/l	--	--
MOLYBDENUM	mg/l	--	--
NICKEL	mg/l	--	--
POTASSIUM	mg/l	--	--
SELENIUM	mg/l	--	--
SILVER	mg/l	--	--
SODIUM	mg/l	--	--
STRONTIUM	mg/l	--	--
TIN	mg/l	--	--
TITANIUM	mg/l	--	--
TOTAL PHOSPHORUS	mg/l	--	--
TUNGSTEN	mg/l	--	--
VANADIUM	mg/l	--	--
ZINC	mg/l	--	--
Volatile Organics			
1,1,1-TRICHLOROETHANE	ug/l	ND(1.0)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	ND(1.0)	ND(1.0)
1,1,2-TRICHLOROETHANE	ug/l	ND(1.0)	ND(1.0)
1,1-DICHLOROETHANE	ug/l	ND(1.0)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	ND(1.0)	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	--	ND(2)
1,2-DICHLOROBENZENE	ug/l	ND(1.0)	ND(1.0)
1,2-DICHLOROETHANE	ug/l	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	ND(1.0)	ND(1.0)
1,2-DICHLOROPROPYLENE	ug/l	--	ND(5)
1,3-DICHLOROBENZENE	ug/l	ND(1.0)	--

001344

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		TBLK	
Sample Date:		01/18/89	05/24/89
Parameters	*Units*		
Volatile Drganics (Cont'd)			
1,4-DICHLOROBENZENE	ug/l	ND(1.0)	--
2-CHLOROETHYLVINYLETHER	ug/l	--	ND(50)
BENZENE	ug/l	ND(0.5)	--
BIS(CHLOROMETHYL)ETHER	ug/l	--	ND(500)
BROMOFORM	ug/l	ND(1.0)	ND(1.0)
BROMOMETHANE	ug/l	ND(2.0)	--
CARBON TETRACHLORIDE	ug/l	ND(1.0)	ND(1.0)
CHLOROBENZENE	ug/l	ND(0.5)	--
CHLOROETHANE	ug/l	ND(2.0)	--
CHLOROFORM	ug/l	ND(1.0)	--
CIS-1,2-DICHLOROETHYLENE	ug/l	ND(1.0)	ND(1.0)
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND(1.0)	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	ND(1.0)	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	ND(1.0)	ND(1.0)
DICHLORODIFLUOROMETHANE	ug/l	ND(2.0)	ND(2.0)
ETHYLBENZENE	ug/l	ND(0.5)	--
M&P-XYLENE	ug/l	ND(0.5)	--
METHYL CHLORIDE	ug/l	ND(2.0)	ND(2.0)
METHYLENE CHLORIDE	ug/l	2.67	--
O-XYLENE	ug/l	ND(0.5)	--
P+M-XYLENE	ug/l	--	--
TETRACHLOROETHYLENE	ug/l	ND(1.0)	ND(1.0)
TOLUENE	ug/l	ND(0.5)	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	ND(1.0)	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	ND(1.0)	ND(1.0)
TRICHLOROETHYLENE	ug/l	ND(1.0)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	ND(2.0)	ND(2.0)
VINYL CHLORIDE	ug/l	ND(2.0)	ND(2.0)
Pesticides and PCB's			
2,4,5-TP (SILVEX)	ug/l	--	--
2,4-D	ug/l	--	--
2,4-DDD	ug/l	--	--
2,4-DDT	ug/l	--	--
4,4-DDD	ug/l	--	--
4,4-DDE	ug/l	--	--
4,4-DDT	ug/l	--	--
ALDRIN	ug/l	--	--
ALPHA-BHC	ug/l	--	--
ALPHA-CHLORDANE	ug/l	--	--

Bayview Landfill Site
Burlington, Ontario

Table C.5
Leachate QAQC Analytical Results

Location:		TBLK	
Sample Date:		01/18/89	05/24/89
Parameters	*Units*		
Pesticides and PCB's (Cont'd)			
ALPHA-ENDOSULFAN	ug/l	--	--
AROCHLOR-1016	ug/l	--	--
AROCHLOR-1221	ug/l	--	--
AROCHLOR-1232	ug/l	--	--
AROCHLOR-1242	ug/l	--	--
AROCHLOR-1248	ug/l	--	--
AROCHLOR-1254	ug/l	--	--
AROCHLOR-1260	ug/l	--	--
BETA-BHC	ug/l	--	--
BETA-ENDOSULFAN	ug/l	--	--
CARBARYL	ug/l	--	--
DDT'S	ug/l	--	--
DELTA-BHC	ug/l	--	--
DIAZINON	ug/l	--	--
DIELDRIN	ug/l	--	--
ENDOSULFAN SULFATE	ug/l	--	--
ENDRIN	ug/l	--	--
ENDRIN ALDEHYDE	ug/l	--	--
GAMMA-BHC(LINDANE)	ug/l	--	--
GAMMA-CHLORDANE	ug/l	--	--
HEPTACHLOR	ug/l	--	--
HEPTACHLOR EPOXIDE	ug/l	--	--
HEXACHLOROBENZENE	ug/l	--	--
METHOXYCHLOR	ug/l	--	--
METHYL PARATHION	ug/l	--	--
MIREX	ug/l	--	--
O,P'-DDT	ug/l	--	--
OXYCHLORDANE	ug/l	--	--
P,P'-DDT	ug/l	--	--
PARATHION	ug/l	--	--
PARATHION ETHYL	ug/l	--	--
PARATHION METHYL	ug/l	--	--
TOTAL PCB	ug/l	--	--
TOXAPHENE	ug/l	--	--

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
–	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

APPENDIX G-4

QA/QC

Bayview Landfill Site
Burlington, Ontario

Table D
QAQC Analytical Results

Location:		FBLK					FBLK1	LBLK1		
Sample Date:		05/12/88	08/16/88	11/16/89	04/10/90	08/01/90	10/30/91	07/20/92	03/26/93	04/07/93
Parameters	*Units*									
Acid Extractables										
2,4,6-TRICHLOROPHENOL	ug/l	ND(1)	--	--	--	--	--	--	--	--
2,4-DICHLOROPHENOL	ug/l	ND(1)	--	--	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	ug/l	ND(6)	--	--	--	--	--	--	--	--
2,4-DINITROPHENOL	ug/l	ND(6)	--	--	--	--	--	--	--	--
2-CHLOROPHENOL	ug/l	ND(1)	--	--	--	--	--	--	--	--
2-NITROPHENOL	ug/l	ND(2)	--	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	ND(5)	--	--	--	--	--	--	--	--
4-NITROPHENOL	ug/l	ND(5)	--	--	--	--	--	--	--	--
DI-T-BUTYLMETHYLPHENOL	ug/l	(a)	--	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	ND(1)	--	--	--	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	ND(3)	--	--	--	--	--	--	--	--
PHENOL	ug/l	ND(1)	--	--	--	--	--	--	--	--
Base Neutrals/SVOC										
1,2,4-TRICHLOROBENZENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	ND(1)	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	ug/l	ND(3)	--	--	--	--	--	--	--	--
2,6-DINITROTOLUENE	ug/l	ND(3)	--	--	--	--	--	--	--	--
2-CHLORONAPHTHALENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	ND(2)	--	--	--	--	--	--	--	--
4-BROMOPHENYL ETHER	ug/l	ND(1)	--	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	ND(1)	--	--	--	--	--	--	--	--
ACENAPHTHENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
ACENAPHTHYLENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
ANTHRACENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
BENZIDINE	ug/l	ND(20)	--	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
BENZO(A)PYRENE	ug/l	ND(2)	--	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	ND(2)	--	--	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	ug/l	ND(2)	--	--	--	--	--	--	--	--
BENZOTHIAZOLE	ug/l	(a)	--	--	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	ND(1)	--	--	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	ND(1)	--	--	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	ND(1)	--	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	2.3	--	--	--	--	--	--	ND(1.0) U	--
BUTYL BENZYL PHTHALATE	ug/l	ND(4)	--	--	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	ug/l	2.5	--	--	--	--	--	--	--	--

001349

Bayview Landfill Site
Burlington, Ontario

Table D
QAQC Analytical Results

Location:		FBLK					FBLK1	LBLK1		
Sample Date:		05/12/88	08/16/88	11/16/89	04/10/90	08/01/90	10/30/91	07/20/92	03/26/93	04/07/93
Parameters	*Units*									
Base Neutrals/SVOC (Cont'd)										
DI-N-OCTYL PHTHALATE	ug/l	ND(1)	--	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	ND(4)	--	--	--	--	--	--	--	--
DIETHYL PHTHALATE	ug/l	ND(1)	--	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	ug/l	ND(1)	--	--	--	--	--	--	--	--
FLUORANTHENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
FLUORENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
HEXACHLOROBUTADIENE	ug/l	ND(3)	--	--	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	ND(5)	--	--	--	--	--	--	--	--
HEXACHLOROETHANE	ug/l	ND(3)	--	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	ND(4)	--	--	--	--	--	--	--	--
ISOPHORONE	ug/l	ND(1)	--	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	ND(1)	--	--	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	ug/l	ND(2)	--	--	--	--	--	--	--	--
NAPHTHALENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
NITROBENZENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
P-CHLOROANILINE	ug/l	(a)	--	--	--	--	--	--	--	--
PHENANTHRENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
PYRENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
General Chemistry										
ALKALINITY	mg/l	ND(2.0)	ND(2.0)	ND(2.0)	ND(1)	--	--	--	1.9	--
AMMONIA NITROGEN	mg/l	ND(0.02)	0.30	ND(0.03) UJ	ND(0.03)	--	--	--	--	--
CHLORIDE	mg/l	ND(1.0)	1.1	ND(1.0)	ND(1.0)	--	--	--	ND(1)	--
CONDUCTIVITY	umhos/cm	--	--	--	9.25	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	0.17	0.59	ND(0.06) UJ	ND(0.06)	--	--	--	--	--
PH		--	--	--	7.25	--	--	--	--	--
SULFATE	mg/l	3.1	ND(1.0)	ND(1.0)	ND(1)	--	--	--	ND(0.5)	--
TOTAL PHENOLS	ug/l	ND(1)	7	--	1	--	--	--	--	--
Volatile Organics										
1,1,1-TRICHLOROETHANE	ug/l	ND(2)	--	ND(0.50)	--	ND(1)	ND(1.0)	ND(1.0)	--	--
1,1,2,2-TETRACHLOROETHANE	ug/l	ND(2)	--	ND(0.33)	--	ND(2)	ND(2.0)	--	--	--
1,1,2-TRICHLOROETHANE	ug/l	ND(1)	--	ND(0.21)	--	ND(2)	ND(2.0)	--	--	--
1,1-DICHLOROETHANE	ug/l	ND(1)	--	ND(0.20)	--	ND(1)	ND(1.0)	ND(1.0)	--	--
1,1-DICHLOROETHYLENE	ug/l	ND(1)	--	ND(0.32)	--	ND(1)	ND(1.0)	--	--	--
1,2,4-TRICHLOROBENZENE	ug/l	--	--	ND(0.50)	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	ND(0.18)	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	ND(1)	--	ND(0.24)	--	ND(1)	ND(1.0)	--	--	--

Bayview Landfill Site
Burlington, Ontario

Table D
QAQC Analytical Results

Location:		FBLK					FBLK1	LBLK1		
Sample Date:		05/12/88	08/16/88	11/16/89	04/10/90	08/01/90	10/30/91	07/20/92	03/26/93	04/07/93
Parameters	*Units*									
Volatile Organics (Cont'd)										
1,2-DICHLOROETHANE	ug/l	ND(2)	--	ND(0.82)	--	ND(1)	ND(1.0)	ND(1.0)	--	--
1,2-DICHLOROPROPANE	ug/l	ND(1)	--	ND(0.20)	--	ND(1)	ND(1.0)	--	--	--
1,2-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	ND(1)	--	ND(0.23)	--	ND(1)	ND(1.0)	ND(1.0)	--	--
1,4-DICHLOROBENZENE	ug/l	ND(1)	--	ND(0.22)	--	ND(1)	ND(1.0)	ND(1.0)	--	--
2-CHLOROETHYLVINYLETHER	ug/l	ND(10)	--	--	--	ND(10)	ND(10)	--	--	--
A-METHYLSTYRENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
ACROLEIN	ug/l	--	--	--	--	--	--	--	--	--
ACRYLONITRILE	ug/l	--	--	--	--	--	--	--	--	--
BENZENE	ug/l	ND(1)	--	0.26	--	2.1	ND(0.5)	ND(0.5)	--	--
BIS(CHLOROMETHYL)ETHER	ug/l	--	--	--	--	--	--	--	--	--
BROMOFORM	ug/l	ND(2)	--	ND(0.49)	--	ND(2)	ND(2.0)	--	--	--
BROMOMETHANE	ug/l	ND(16)	--	ND(0.83)	--	ND(2)	ND(2.0)	--	--	--
CARBON TETRACHLORIDE	ug/l	ND(2)	--	ND(0.93)	--	ND(1)	ND(1.0)	--	--	--
CHLOROBENZENE	ug/l	ND(1)	--	ND(0.27)	--	ND(0.5)	ND(0.5)	ND(0.5)	--	--
CHLOROETHANE	ug/l	ND(10)	--	ND(0.50)	--	ND(2)	ND(2.0)	--	--	--
CHLOROFORM	ug/l	ND(1)	--	0.43	--	ND(1)	ND(1.0)	--	--	--
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	--	ND(1)	--	--	--	--
CIS-1,3-DICHLOROPROPYLENE	ug/l	ND(1)	--	ND(0.27)	--	ND(1)	ND(1.0)	--	--	--
DIBROMOCHLOROMETHANE	ug/l	ND(1)	--	ND(0.24)	--	ND(1)	ND(1.0)	--	--	--
DICHLOROBROMOMETHANE	ug/l	ND(1)	--	ND(0.50)	--	ND(2)	ND(2.0)	--	--	--
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	--	--	--	--	--	--
DICHLOROFLUOROMETHANE	ug/l	--	--	ND(0.50)	--	--	--	--	--	--
ETHYLBENZENE	ug/l	ND(1)	--	ND(0.24)	--	ND(0.5)	ND(0.5)	ND(0.5)	--	--
M&P-XYLENE	ug/l	ND(2)	--	0.51	--	--	--	ND(0.5)	--	--
MESITYLENE	ug/l	ND(1)	--	--	--	--	--	--	--	--
METHYL CHLORIDE	ug/l	ND(50)	--	ND(0.65)	--	ND(2)	ND(2.0)	--	--	--
METHYLENE CHLORIDE	ug/l	12	--	58	--	ND(1)	1.4	--	--	--
METHYLSTYRENE ISOMERS	ug/l	ND(1)	--	--	--	--	--	--	--	--
O-XYLENE	ug/l	ND(1)	--	ND(0.19)	--	--	--	ND(0.5)	--	--
OTHER AROMATIC COMPOUNDS	ug/l	ND(1)	--	--	--	--	--	--	--	--
TETRACHLOROETHYLENE	ug/l	2	--	ND(0.21)	--	ND(1)	ND(1.0)	ND(1.0)	--	--
TOLUENE	ug/l	ND(2)	--	1.58	--	6.1	ND(0.5)	ND(0.5)	--	--
TRANS-1,2-DICHLOROETHYLENE	ug/l	ND(1)	--	ND(0.20)	--	ND(1)	ND(1.0)	--	--	--
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	--	--	ND(1)	ND(1.0)	--	--	--
TRICHLOROETHYLENE	ug/l	ND(1)	--	ND(0.92)	--	ND(1)	ND(1.0)	ND(1.0)	--	--
TRICHLOROFLUOROMETHANE	ug/l	ND(2)	--	2.6	--	ND(2)	ND(2.0)	--	--	--
VINYL CHLORIDE	ug/l	ND(12)	--	ND(0.74)	--	ND(2)	ND(2.0)	--	--	--

001351

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table D
QAQC Analytical Results

Location:		FBLK					FBLK1	LBLK1		
Sample Date:		05/12/88	08/16/88	11/16/89	04/10/90	08/01/90	10/30/91	07/20/92	03/26/93	04/07/93
Parameters	*Units*									
Pesticides and PCB's										
4,4-DDD	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
4,4-DDE	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
4,4-DDT	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
ALDRIN	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
ALPHA-BHC	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
ALPHA-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
ALPHA-ENDOSULFAN	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
BETA-BHC	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
BETA-ENDOSULFAN	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
DELTA-BHC	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
DIELDRIN	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
ENDOSULFAN SULFATE	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
ENDRIN	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
ENDRIN ALDEHYDE	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
GAMMA-BHC(LINDANE)	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
HEPTACHLOR	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
HEPTACHLOR EPOXIDE	ug/l	--	--	--	--	--	--	--	--	ND(0.020)
TOTAL PCB	ug/l	--	--	--	--	--	--	--	--	ND(0.500)
TOXAPHENE	ug/l	--	--	--	--	--	--	--	--	ND(0.500)
Biological Testing										
FAECAL COLIFORM	/100ml	ND(1)	--	ND(2)	ND(2)	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	ND(1)	--	0	0	--	--	--	--	--
TOTAL COLIFORMS	/100ml	ND(1)	--	ND(4)	ND(4)	--	--	--	--	--

Bayview Landfill Site
Burlington, Ontario

Date Printed: February 1, 1996

Table D
QAQC Analytical Results

Location:		TBLK		TBLK1			TBLK2	
Sample Date:		05/28/86	04/10/90	05/12/88	08/16/88	07/20/92	05/12/88	08/16/88
Parameters	*Units*							
Acid Extractables								
2,4,6-TRICHLOROPHENOL	ug/l	--	--	--	--	--	--	--
2,4-DICHLOROPHENOL	ug/l	--	--	--	--	--	--	--
2,4-DIMETHYL PHENOL	ug/l	--	--	--	--	--	--	--
2,4-DINITROPHENOL	ug/l	--	--	--	--	--	--	--
2-CHLOROPHENOL	ug/l	--	--	--	--	--	--	--
2-NITROPHENOL	ug/l	--	--	--	--	--	--	--
4,6-DINITRO-O-CRESOL	ug/l	--	--	--	--	--	--	--
4-NITROPHENOL	ug/l	--	--	--	--	--	--	--
DI-T-BUTYLMETHYLPHENOL	ug/l	--	--	--	--	--	--	--
P-CHLORO-M-CRESOL	ug/l	--	--	--	--	--	--	--
PENTACHLOROPHENOL	ug/l	--	--	--	--	--	--	--
PHENOL	ug/l	--	--	--	--	--	--	--
Base Neutrals/SVOC								
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--
1,2-DIPHENYLHYDRAZINE	ug/l	--	--	--	--	--	--	--
1,3-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--
1,4-DICHLOROBENZENE	ug/l	--	--	--	--	--	--	--
2,4-DINITROTOLUENE	ug/l	--	--	--	--	--	--	--
2,6-DINITROTOLUENE	ug/l	--	--	--	--	--	--	--
2-CHLORONAPHTHALENE	ug/l	--	--	--	--	--	--	--
3,3'-DICHLOROBENZIDINE	ug/l	--	--	--	--	--	--	--
4-BROMOPHENYL ETHER	ug/l	--	--	--	--	--	--	--
4-CHLOROPHENYL PHENYL ETHER	ug/l	--	--	--	--	--	--	--
ACENAPHTHENE	ug/l	--	--	--	--	--	--	--
ACENAPHTHYLENE	ug/l	--	--	--	--	--	--	--
ANTHRACENE	ug/l	--	--	--	--	--	--	--
BENZIDINE	ug/l	--	--	--	--	--	--	--
BENZO(A)ANTHRACENE	ug/l	--	--	--	--	--	--	--
BENZO(A)PYRENE	ug/l	--	--	--	--	--	--	--
BENZO(GHI)PERYLENE	ug/l	--	--	--	--	--	--	--
BENZO(K)FLUORANTHENE	ug/l	--	--	--	--	--	--	--
BENZOTHIAZOLE	ug/l	--	--	--	--	--	--	--
BIS(2-CHLOROETHOXY)METHANE	ug/l	--	--	--	--	--	--	--
BIS(2-CHLOROETHYL)ETHER	ug/l	--	--	--	--	--	--	--
BIS(2-CHLOROISOPROPYL)ETHER	ug/l	--	--	--	--	--	--	--
BIS(2-ETHYLHEXYL)PHTHALATE	ug/l	--	--	--	--	--	--	--
BUTYL BENZYL PHTHALATE	ug/l	--	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	ug/l	--	--	--	--	--	--	--

001353

Bayview Landfill Site
Burlington, Ontario

Table D
QAQC Analytical Results

Location:		TBLK		TBLK1			TBLK2	
Sample Date:		05/28/86	04/10/90	05/12/88	08/16/88	07/20/92	05/12/88	08/16/88
Parameters	*Units*							
Base Neutrals/SVOC (Cont'd)								
DI-N-OCTYL PHTHALATE	ug/l	--	--	--	--	--	--	--
DIBENZO(A,H)ANTHRACENE	ug/l	--	--	--	--	--	--	--
DIETHYL PHTHALATE	ug/l	--	--	--	--	--	--	--
DIMETHYL PHTHALATE	ug/l	--	--	--	--	--	--	--
FLUORANTHENE	ug/l	--	--	--	--	--	--	--
FLUORENE	ug/l	--	--	--	--	--	--	--
HEXACHLOROBENZENE	ug/l	--	--	--	--	--	--	--
HEXACHLOROBUTADIENE	ug/l	--	--	--	--	--	--	--
HEXACHLOROCYCLOPENTADIENE	ug/l	--	--	--	--	--	--	--
HEXACHLOROETHANE	ug/l	--	--	--	--	--	--	--
INDENO(1,2,3-CD)PYRENE	ug/l	--	--	--	--	--	--	--
ISOPHORONE	ug/l	--	--	--	--	--	--	--
N-NITROSO-DI-N-PROPYLAMINE	ug/l	--	--	--	--	--	--	--
N-NITROSODIPHENYLAMINE	ug/l	--	--	--	--	--	--	--
NAPHTHALENE	ug/l	--	--	--	--	--	--	--
NITROBENZENE	ug/l	--	--	--	--	--	--	--
P-CHLOROANILINE	ug/l	--	--	--	--	--	--	--
PHENANTHRENE	ug/l	--	--	--	--	--	--	--
PYRENE	ug/l	--	--	--	--	--	--	--
General Chemistry								
ALKALINITY	mg/l	--	ND(1)	--	--	--	--	--
AMMONIA NITROGEN	mg/l	--	ND(0.03)	--	--	--	--	--
CHLORIDE	mg/l	--	28.0	--	--	--	--	--
CONDUCTIVITY	umhos/cm	--	--	--	--	--	--	--
KJELDAHL NITROGEN	mg/l	--	ND(0.06)	--	--	--	--	--
PH		--	--	--	--	--	--	--
SULFATE	mg/l	--	--	--	--	--	--	--
TOTAL PHENOLS	ug/l	--	ND(1)	--	--	--	--	--
Volatile Organics								
1,1,1-TRICHLOROETHANE	ug/l	--	--	ND(2)	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)
1,1,2,2-TETRACHLOROETHANE	ug/l	--	--	ND(2)	ND(1.0)	--	ND(2)	ND(1.0)
1,1,2-TRICHLOROETHANE	ug/l	--	--	ND(1)	ND(1.0)	--	ND(1)	ND(1.0)
1,1-DICHLOROETHANE	ug/l	--	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)
1,1-DICHLOROETHYLENE	ug/l	--	--	ND(1)	ND(1.0)	--	ND(1)	ND(1.0)
1,2,4-TRICHLOROBENZENE	ug/l	--	--	--	--	--	--	--
1,2-DIBROMOETHANE	ug/l	--	--	--	--	--	--	--
1,2-DICHLOROBENZENE	ug/l	--	--	ND(1)	ND(1.0)	--	ND(1)	ND(1.0)

Bayview Landfill Site
Burlington, Ontario

Table D
QAQC Analytical Results

Location:		TBLK		TBLK1			TBLK2	
Sample Date:		05/28/86	04/10/90	05/12/88	08/16/88	07/20/92	05/12/88	08/16/88
Parameters	*Units*							
Volatile Organics (Cont'd)								
1,2-DICHLOROETHANE	ug/l	--	--	ND(2)	ND(1.0)	ND(1.0)	ND(2)	ND(1.0)
1,2-DICHLOROPROPANE	ug/l	--	--	ND(1)	ND(1.0)	--	ND(1)	ND(1.0)
1,2-DICHLOROPROPYLENE	ug/l	--	--	--	--	--	--	ND(5)
1,3-DICHLOROBENZENE	ug/l	ND(1.0)	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)
1,4-DICHLOROBENZENE	ug/l	ND(1.0)	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)
2-CHLOROETHYLVINYLETHER	ug/l	--	--	ND(10)	--	--	ND(10)	ND(50)
A-METHYLSTYRENE	ug/l	--	--	ND(1)	--	--	ND(1)	--
ACROLEIN	ug/l	--	--	--	--	--	--	ND(50)
ACRYLONITRILE	ug/l	--	--	--	--	--	--	ND(50)
BENZENE	ug/l	0.55	--	ND(1)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)
BIS(CHLOROMETHYL)ETHER	ug/l	--	--	--	--	--	--	ND(500)
BROMOFORM	ug/l	--	--	ND(2)	ND(1.0)	--	ND(2)	ND(1.0)
BROMOMETHANE	ug/l	ND(2.0)	--	ND(16)	ND(2.0)	--	ND(16)	ND(2.0)
CARBON TETRACHLORIDE	ug/l	--	--	ND(2)	ND(1.0)	--	ND(2)	ND(1.0)
CHLOROBENZENE	ug/l	ND(0.5)	--	ND(1)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)
CHLOROETHANE	ug/l	ND(2.0)	--	ND(10)	ND(2.0)	--	ND(10)	ND(2.0)
CHLOROFORM	ug/l	ND(1.0)	--	ND(1)	4.51	--	ND(1)	5.52
CIS-1,2-DICHLOROETHYLENE	ug/l	--	--	--	ND(1.0)	--	--	ND(1.0)
CIS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1)	ND(1.0)	--	ND(1)	ND(1.0)
DIBROMOCHLOROMETHANE	ug/l	--	--	ND(1)	ND(1.0)	--	ND(1)	ND(1.0)
DICHLOROBROMOMETHANE	ug/l	--	--	ND(1)	ND(1.0)	--	ND(1)	ND(1.0)
DICHLORODIFLUOROMETHANE	ug/l	--	--	--	ND(2.0)	--	--	ND(2.0)
DICHLOROFLUOROMETHANE	ug/l	--	--	--	--	--	--	--
ETHYLBENZENE	ug/l	ND(0.5)	--	ND(1)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)
M&P-XYLENE	ug/l	ND(0.5)	--	ND(2)	ND(0.5)	ND(0.5)	ND(2)	ND(0.5)
MESITYLENE	ug/l	--	--	ND(1)	--	--	ND(1)	--
METHYL CHLORIDE	ug/l	4.87	--	ND(50)	ND(2.0)	--	ND(50)	ND(2.0)
METHYLENE CHLORIDE	ug/l	--	--	13	ND(1.0)	--	11	ND(1.0)
METHYLSTYRENE ISOMERS	ug/l	--	--	ND(1)	--	--	ND(1)	--
O-XYLENE	ug/l	ND(0.5)	--	ND(1)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)
OTHER AROMATIC COMPOUNDS	ug/l	--	--	ND(1)	--	--	ND(1)	--
TETRACHLOROETHYLENE	ug/l	--	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)
TOLUENE	ug/l	ND(0.5)	--	ND(2)	ND(0.5)	ND(0.5)	ND(2)	ND(0.5)
TRANS-1,2-DICHLOROETHYLENE	ug/l	ND(1.0)	--	ND(1)	ND(1.0)	--	ND(1)	ND(1.0)
TRANS-1,3-DICHLOROPROPYLENE	ug/l	--	--	ND(1)	ND(1.0)	--	--	ND(1.0)
TRICHLOROETHYLENE	ug/l	--	--	ND(1)	ND(1.0)	ND(1.0)	ND(1)	ND(1.0)
TRICHLOROFLUOROMETHANE	ug/l	--	--	ND(2)	ND(2.0)	--	ND(2)	ND(2.0)
VINYL CHLORIDE	ug/l	--	--	ND(12)	ND(2.0)	--	ND(12)	ND(2.0)

001355

Bayview Landfill Site
Burlington, Ontario

Table D
QAQC Analytical Results

Location:		TBLK		TBLK1			TBLK2	
Sample Date:		05/28/86	04/10/90	05/12/88	08/16/88	07/20/92	05/12/88	08/16/88
Parameters	*Units*							
Pesticides and PCB's								
4,4-DDD	ug/l	--	--	--	--	--	--	--
4,4-DDE	ug/l	--	--	--	--	--	--	--
4,4-DDT	ug/l	--	--	--	--	--	--	--
ALDRIN	ug/l	--	--	--	--	--	--	--
ALPHA-BHC	ug/l	--	--	--	--	--	--	--
ALPHA-CHLORDANE	ug/l	--	--	--	--	--	--	--
ALPHA-ENDOSULFAN	ug/l	--	--	--	--	--	--	--
BETA-BHC	ug/l	--	--	--	--	--	--	--
BETA-ENDOSULFAN	ug/l	--	--	--	--	--	--	--
DELTA-BHC	ug/l	--	--	--	--	--	--	--
DIELDRIN	ug/l	--	--	--	--	--	--	--
ENDOSULFAN SULFATE	ug/l	--	--	--	--	--	--	--
ENDRIN	ug/l	--	--	--	--	--	--	--
ENDRIN ALDEHYDE	ug/l	--	--	--	--	--	--	--
GAMMA-BHC(LINDANE)	ug/l	--	--	--	--	--	--	--
GAMMA-CHLORDANE	ug/l	--	--	--	--	--	--	--
HEPTACHLOR	ug/l	--	--	--	--	--	--	--
HEPTACHLOR EPOXIDE	ug/l	--	--	--	--	--	--	--
TOTAL PCB	ug/l	--	--	--	--	--	--	--
TOXAPHENE	ug/l	--	--	--	--	--	--	--
Biological Testing								
FAECAL COLIFORM	/100ml	--	--	--	--	--	--	--
FAECAL STREPTOCOCCI	/100ml	--	--	--	--	--	--	--
TOTAL COLIFORMS	/100ml	--	--	--	--	--	--	--

Notes

J	-	The associated value is an estimated quantity.
U	-	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
UJ	-	The material was analyzed for, but not detected. The associtated value is an estimate and may be inaccurate or imprecise.
--	-	The parameter was not analyzed.
ND	-	The material was anaylzed, but not detected above the unstated method detection limit.
TR	-	Trace level detection.
<	-	Indicates result less than that shown.
>	-	Indicates result greater than that shown.
R	-	The data was not useable.
NS	-	Insufficient sample.
(a)	-	Indicates units were /50ml rather than that shown.

APPENDIX H

1995 ANALYTICAL ASSESSMENT AND VALIDATION REPORTS

MEMO

TO: Peter Hayes

REFERENCE NO: 1354-30

FROM: Rob Toth

DATE: November 16, 1995

cc: J. Stoner, J. Ing

RE: Bayview Landfill, Burlington, Ontario
Data Validation for Samples Collected April 6, 1995

1.0 Overview

Eighteen water samples were collected on April 6, 1995, from the Bayview Landfill Site in Burlington, Ontario and were submitted to Novamann (Ontario) Ltd. (Novamann) and CRA Analytical Services (CAS) for the analyses summarized in the chart below.

Lab	*Report ID*	*Parameter(s)*	*Field Investigative Samples*	*Field QC Samples*	*Total Number of Samples*
Novamann	951403	Metals[1]	1	1	2
		Total Cyanide	1	1	2
		Bacteria[2]	10	2	11
		Pesticides/PCBs[3]	1	1	2
		BNAEs[4]	1	1	2
		VOCs[5]	14	2	16
CAS	1354-3	General Chemistry I[6]	7	2	9
		General Chemistry II[7]	1	1	2
		General Chemistry III[8]	10	3	13

---

[1] Metals - molybdenum, zinc, lead, bismuth, cadmium, cobalt, nickel, barium, iron, manganese, chromium, vanadium, aluminum, copper, silver titanium, antimony, mercury, selenium, arsenic, tin

[2] Bacteria - faecal coliform, E. coli., fecal streptococcus

[3] Pesticides/PCBs - aldrin, carbaryl, chlordane (alpha and gamma), DDT, diazinon, dieldrin, endrin, heptachlor, heptachlor epoxide, lindane, methoxychlor, methyl parathion, ethyl parathion, toxaphene, PCBs

[4] BNAEs (base/neutral/acid extractables) - bis(2-ethylhexyl)phthalate

[5] VOCs (volatile organic compounds) - 1,1-dichloroethane, 1,2-dichloroethane, 1,1,1-trichloroethane, benzene, trichloroethylene, toluene, tetrachloroethylene, ethylbenzene, chlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, m+p-xylenes, o-xylene

[6] General Chemistry I - alkalinity, total kjeldahl nitrogen (TKN), ammonia, chloride, total phenols

[7] General Chemistry II - hardness, alkalinity, fluoride, chloride, sulphate, total phosphorous, TKN, ammonia, total phenols, biochemical oxygen demand (BOD), chemical oxygen demand (COD), total suspended solids (TSS)

[8] General Chemistry III - alkalinity, chloride, sulphate, TKN, ammonia, total phenols

A data validation was conducted based on principles outlined in the references summarized in Attachment A.

2.0 Sample Holding Times

Holding times established by the Ontario Ministry of the Environment and Energy (MOEE) (Reference No. 1, Attachment A) were used to assess the analytical results produced by Novamann and CAS. Table 1 presents the parameter groups, recommended holding times, and references.

All analyses were completed prior to the expiration of their associated holding times; therefore, qualifications were not warranted.

3.0 Laboratory QA/QC

3.1 Laboratory Blanks

Laboratory blanks prepared by Novamann were found to contain less than detectable concentrations of all target analytes; therefore, qualifications were not warranted.

Laboratory blanks prepared by CAS were found to contain less than detectable concentrations of all target analytes with the exception of alkalinity, which was found at a level of 1.6 mg/L. All samples were either above the sample quantitation limit or non-detect; therefore, qualifications were not warranted.

3.2 Laboratory Surrogate/Check Samples

Surrogate compounds were added to samples prior to analysis for Pesticides/PCBs, BNAEs and VOCs. The following chart outlines the surrogates added and their respective control limits.

Parameter	*Surrogate Compound*	*Lower Control Limit (%)*	*Upper Control Limit (%)*
Pesticides/PCBs	azobenzene	40	130
	decachlorobiphenyl	40	130
	2,4,5,6-tetrachloro-m-xylene	40	130
BNAEs	2-fluorobiphenyl	30	115
	2-fluorophenol	25	121
	2,4,6-tribromophenol	19	122
	terphenyl-D_{14}	18	137
	nitrobenzene-D_5	23	120
	phenol-D_5	10	94
VOCs	4-bromofluorobenzene	80	115
	1,2-dichloroethane	85	115
	toluene-D_8	85	115

The reported surrogate recoveries were within laboratory established control limits. It is noted that recoveries for decachlorobiphenyl could not be calculated due to sample dilution.

Qualifications did not arise as a result of surrogate sample recoveries.

Laboratory check samples were analyzed for all parameters by Novamann and CAS and recoveries were found to be within laboratory established control limits with the exception of a low recovery (19%) for diazinon from Novamann. As a result, qualifications were warranted based on check sample recoveries and can be found summarized in Table 2. It is noted that check sample recoveries were not reported for the following PCB aroclors: 1221; 1232; 1242; 1248; 1254; and, 1260.

3.3 Laboratory Duplicates

Laboratory duplicate analysis was performed by CAS only. The relative percent difference[1] was found to be 9% or less for all parameters; therefore qualifications were not necessary.

---

[1] Relative percent difference = RPD = $\left|\frac{X_1 - X_2}{\overline{X}}\right| \times 100$

where X_1 - initial sample result
X_2 - duplicate sample result
$\overline{X}$ - mean of duplicate sample results

4.0 Field QA/QC

4.1 Field Blanks

Field blanks submitted to CAS were found to contain less than detectable concentrations of all target analytes; therefore, qualifications were not warranted.

Field blanks submitted to Novamann were found to contain detectable levels of target analytes. The following chart summarizes the positive detections in the field blanks.

Parameter	*Field Blank #2 -011 (mg/L)*
zinc	0.005
iron	0.013
aluminum	0.071
copper	0.007
antimony	0.002
selenium	0.004
arsenic	0.002
bis(2-ethylhexyl)phthalate	TR (<MDL (2µg/L))

As a result of these positive detections, qualifications were necessary and can be found summarized in Table 2.

4.2 Field Duplicates

Field duplicate analyses performed by CAS resulted in RPD values of 26% or less for all parameters with the exceptions of TKN and ammonia. RPD values of 96% and 194% respectively resulted in qualifications and that can be found summarized in Table 2.

Field duplicate analyses performed by Novamann were only analyzed for VOCs and were found to be non-detect for all analytes; therefore, qualifications were not warranted for field duplicate analyses.

5.0 Summary and Conclusions

Qualifications were recommended based on check sample recoveries, field blank and field duplicate results.

Data provided by Novamann and CAS are acceptable with the specific qualifications summarized in Table 2.

TABLE 1
SUMMARY OF HOLDING TIMES
Bayview Landfill - Project # 1354-30

Parameter	*Recommended Holding Times*	*Exceedance*	*References (Attachment A)*
Alkalinity	14 days	none	1
Chloride	30 days	none	1
TKN	14/30 days	none	1
Ammonia	7/30 days	none	1
Total Phenols	30 days	none	1
Sulphate	30 days	none	1
Hardness	14/30 days	none	1
Fluoride	30 days	none	1
Total Phosphorous	14/30 days	none	1
BOD	4 days	none	1
COD	7/30 days	none	1
TSS	14 days	none	1
Metals	60 days	none	1
Mercury	7 days	none	1
Total Cyanide	7 days	none	1
Bacteria	48 hours	none	1
VOCs	14 days	none	1
Pesticides/PCBs	30 days	none	1
BNAEs	30 days	none	1

Notes:

1. Where two holding times are given the shorter time refers to unpreserved samples and the longer time refers to preserved samples.

TABLE 2
SUMMARY OF QUALIFICATIONS
Bayview Landfill - Project # 1354-30

Lab	*Sample I.D.*	*Location*	*Parameter*	*Sample Result (mg/L)*	*Qualified Result (mg/l)*	*Reference*
Novamann	-010	MH15	diazinon	ND(0.5µg/L)	ND(0.5µg/L)UJ	A (Sec. 3.2)
Novamann	-011	field blank #2	diazinon	ND(0.5µg/L)	ND(0.5µg/L)UJ	A (Sec. 3.2)
Novamann	-010	MH15	aluminum	0.151	0.151U	B (Sec. 4.1)
Novamann	-010	MH15	arsenic	0.004	0.004U	B (Sec. 4.1)
Novamann	-010	MH15	bis(2-ethylhexyl) phthalate	TR(<2µg/L)	TR(<2µg/L)J	B (Sec. 4.1)
CAS	-012/-020	SW8-87	TKN	0.51/1.46	0.51J/1.46J	C (Sec. 4.2)
CAS	-012/-020	SW8-87	ammonia	0.02/1.38	0.02J/1.38J	C (Sec. 4.2)

Notes:

UJ = The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

A = Qualification due to poor check sample recovery.

U = The analyte was analyzed for, but was not detected above the sample quantitation limit.

B = Qualification due to positive detections found in the field blank.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

C = Qualification due to poor field duplicate RPD values.

ATTACHMENT A
SUMMARY OF REFERENCE DOCUMENTS

1.0 Ontario Ministry of the Environment & Energy (MOEE), proposed draft, "Guidance on Sampling and Analytical Methods for Site Clean-ups in Ontario", May 1994.

2.0 United States Environmental Protection Agency (USEPA), "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", Publication 9240.1-05, EPA540/R-94/012, PB94-963501, February 1994.

3.0 United States Environmental Protection Agency (USEPA), "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", Publication 9240.1-05-01, EPA-540/R-94/013, PB94-963502, February 1994.

MEMO

TO: Jo-Anne Ing

REFERENCE NO: 1354-30

FROM: Jennifer Stoner/pw/2

DATE: January 24, 1996

c.c.: Rob Toth

RE: Data Validation of Analytical results for Samples obtained July 12, 1995, from the Bayview Landfill Site in Burlington, Ontario

---

1.0 Overview

Eleven groundwater and one surface water sample were collected from the Bayview Landfill Site in Burlington, Ontario on July 11 and 12, 1995. Samples were submitted to Conestoga-Rovers & Associates Analytical Services (CAS) and Novamann (Ontario) International Inc. (Novamann) for the parameters as summarized in the following table.

Laboratory	*Report ID*	*Parameter(s)*	*Field Investigative Samples*	*Field QC Samples*	*Total Number of Samples*
CAS	1354-4	general chemistry[1]	7	2	9
		general chemistry[2]	2	1	3
		total phenols	9	3	12
Novamann	9502655	bacteria[3]	1	0	1
		VOCs[4]	7	3	10

A data validation was conducted on sample analyses based on principles outlined in the references summarized in Attachment A.

2.0 Sample Holding Times

Holding times for water samples established by the Ontario Ministry of the Environment and Energy (MOEE) (Reference No..1, Attachment A) were used to assess the analytical results produced by Novamann and CAS. Table 1 presents the parameter groups, actual holding times, and recommended holding times.

All analyses were completed prior to the expiration of their associated holding times; therefore, qualifications were not warranted.

---

1 General Chemistry - alkalinity, total kjedahl nitrogen (TKN), chloride, ammonia.

2 General Chemistry - general chemistry I plus sulphate.

3 Bacteria - fecal colilform, E.coli, fecal streptococcus, confirmed coliform.

4 VOCs - ethylbenzene, 1,1,1-trichloroethane, 1,3-dichlorobenzene, 1,2-dichloroethane, tetrachloroethylene, 1,1-dichloroethane, trichloroethylene, 1,4-dichlorobenzene, benzene, toluene, chlorobenzene, p+m-xylene, o-xylene

3.0 Laboratory QA/QC

3.1 Laboratory Blanks

Laboratory blanks analyzed by Novamann and CAS contained less than detectable concentrations of all analytes, with the exception of alkalinity. A concentration of 1.8 mg/L alkalinity (MDL[5] = 0.01 mg/L) was detected in the CAS laboratory blank, but qualifications were not necessary for associated data.

3.2 Laboratory Duplicates

Laboratory duplicate analyses were performed by CAS for all general chemistry parameters and total phenols. The calculated relative percent difference[6] (RPD) values were found to be 8% or less; therefore, qualifications were not required.

3.3 Laboratory Check Samples

Laboratory check sample analyses were performed by CAS and Novamann for all target analytes and found to be within laboratory established control limits; therefore, no qualifications were necessary.

4.0 Field QA/QC

4.1 Field Blanks

A field blank (sample #012) was analyzed by CAS and Novamann for all analytes. The following table summarizes positive detections in the field blank:

Laboratory	*Parameter*	*Concentration*	*MDL*
Novamann	toluene	2.5 µg/L	0.5 µg/L
CAS	alkalinity	5.0 µg/L	1.0 µg/L
	ammonia	0.01 µg/L	0.01 µg/L

Qualifications based on field blanks were warranted for toluene and ammonia and can be found summarized in Table 2.

4.2 Field Duplicates

Field duplicates were submitted blind and were analyzed by Novamann (for VOCs) and by CAS (for general chemistry and total phenols). The calculated RPD values were 42% or less, with the exception of toluene which had an RPD value of 105%. Based on this

---

5 MDL = Method Detection Limit.

6 Relative percent difference = RPD = $\frac{|X_1 - X_2|}{\overline{X}} \times 100$

where X_1 - initial sample result
X_2 - duplicate sample result
$\overline{X}$ - mean of duplicate sample results

result, qualification of associated data for toluene was necessary and is summarized in Table 2.

5.0 Summary and Conclusions

Qualifications were recommended based on field blank and field duplicate results.

The data provided by Novamann and CAS are acceptable with the specific qualifications summarized in Table 2.

TABLE 1

SUMMARY OF HOLDING TIMES

Bayview Landfill Site, Project No. 1354-30

Parameter	*Recommended Holding Times*	*Actual Holding Times*	*Exceedance*	*Reference (Attachment A)*
Bacteria	24 hours	24 hours	none	1
VOCs	14 days	8 days	none	1
Alkalinity	14 days	14 days	none	1
Chloride	30 days	5 days	none	1
Sulphate	30 days	3 days	none	1
TKN	14 days	7 days	none	1
Ammonia	7 days	2 days	none	1
Total phenols	30 days	1 day	none	1

Notes:

1. Bacteria - confirmed coliform, fecal coliform, E.coli, fecal streptococcus.

TABLE 2

SUMMARY OF QUALIFICATIONS

Bayview Landfill Site, Project No. 1354-30

Sample I.D.	*Location*	*Parameter*	*Sample Result (mg/L)*	*Qualified Result (mg/l)*	*Reference*
001	PW1	toluene	1.6	1.6 J	A (Sec. 4.2)
005	PW1 (duplicate)	toluene	ND	ND UJ	A (Sec. 4.2)
002	HC7-1	toluene	3.3	3.3 U	B (Sec. 4.1)
003	HC7-2	toluene	1.4	1.4 U	B (Sec. 4.1)
004	HC4-2	toluene	1.9	1.9 U	B (Sec. 4.1)
007	HC4-2 (duplicate)	toluene	2.9	2.9 U	B (Sec. 4.1)
006	HC4-4	ammonia	0.01	0.01 U	B (Sec. 4.1)
010	PW3	toluene	3.4	3.4 U	B (Sec. 4.1)
011	SW10-87	ammonia	0.05	0.05 U	B (Sec. 4.1)

Notes:

A = Qualification due to high field duplicate RPD values.
U = The material was analyzed for, but was not detected above the sample quantitation limit.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit quantitation necessary to accurately and precisely measure the analyte in the sample.
B = Qualification due to positive detection in the field blank.

ATTACHMENT A

SUMMARY OF REFERENCE DOCUMENTS

Bayview landfill Site, Project No. 1354-30

1.0 Ontario Ministry of the Environment & Energy (MOEE), proposed draft, "Guidance on Sampling and Analytical Methods for Site Clean-ups in Ontario", May 1994.

2.0 United States Environmental Protection Agency (USEPA), "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", Publication 9240.1-05, EPA-540/R-94/012, PB94-963501, February 1994.

3.0 United States Environmental Protection Agency (USEPA), "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", Publication 9240.1-05, EPA-540/R-94-013, PB94-963502, February 1994.

4.0 United States code of Federal Regulation (CFR), "Environmental Protection Agency Regulations on Test Procedures for the Analysis of Pollutants", part 136 - Guidelines Establishing Test Procedures for the Analysis of Pollutants (40 CFR 136).

MEMO

TO: Jo-Anne Ing

REFERENCE NO: 1354-30

FROM: Jennifer Stoner

DATE: January 23, 1996

c.c.: Rob Toth

RE: Data Validation of Analytical results for Samples obtained October 19, 1995, from the Bayview Landfill Site in Burlington, Ontario

---

1.0 Overview

Two leachate samples were collected from the Bayview Landfill Site on October 19, 1995. Samples were submitted to Conestoga-Rovers & Associates Analytical Services (CAS) and Novamann (Ontario) International Inc. (Novamann) for analyses as summarized in the following table.

Laboratory	*Report ID*	*Parameter(s)*	*Field Investigative Samples*	*Field QC Samples*	*Total Number of Samples*
CAS	1354-1	general chemistry[1]	1	1	2
		total phenols	1	1	2
Novamann	9504299	metals[2]	1	1	2
		BNAE[3]	1	1	2
		OC Pesticides[4]	1	1	2
		OP Pesticides/PCBs[5]	1	1	2
		VOCs[6]	1	1	2
		total cyanide	1	1	2

A data validation was conducted on sample analyses based on principles outlined in the references summarized in Attachment A.

2.0 Sample Holding Times

Holding times for water samples established by the Ontario Ministry of the Environment and Energy (MOEE) (Reference No. 1, Attachment A) were used to assess

---

1 General Chemistry - chloride, sulphate, fluoride, total kjeldahl nitrogen (TKN), total phosphorous, hardness, alkalinity, ammonia, total suspended solids (TSS), biological oxygen demand (BOD), chemical oxygen demand.

2 Metals - arsenic, antinomy, selenium, mercury, aluminum, chromium, cobalt, copper, iron, lead, manganese, molybdenum, nickel, silver, tin, titanium, vanadium, zinc, barium, bismuth, cadmium.

3 Base Neutral Acid Extractables - bis(2-ethylhexyl)phthalate.

4 Organochlorine Pesticides/Polychlorinated biphenyls-o,p-DDT, aldrin, a-chlordane, dieldrin, endrin, g-BHC (Lindane), g-chlordane, heptachlor, heptacholor epoxide, methoxychlor, Aroclor 1016, Aroclor 1221, Aroclor 1232, Aroclor 1242, Aroclor 1248, Arolor 1254, Aroclor 1260, p,p^1-DDT, toxaphene.

5 Organophosphorus Pesticides - carbaryl, diazinon, ethyl parathion, methyl parathion.

6 VOCs - 1,1-dichloroethane, 1,1,1-trichloroethane, 1,2-dichloroethane, 1,3-dichlorobenzene, 1,4-dichlorobenzene, benzene, chlorobenzene, ethylbenzene, o-xylene, p+m-xylene, tetrachloro-ethylene, toluene, trichloroethylene.

the analytical results produced by Novamann and CAS. Table 1 presents the parameter groups, actual holding times, and recommended holding times.

All analyses with the exception of mercury and cyanide, were completed prior to the expiration of their associated holding times. Mercury analyses exceeded their associated holding times by six days and cyanide analyses exceeded their holding time by four days. As a result qualifications were recommended and are summarized in Table 2.

3.0 Laboratory QA/QC

3.1 Laboratory Blanks

Laboratory blanks analyzed by Novamann and CAS contained less than detectable concentrations of all analytes, with the exception of alkalinity. A positive detection of 1.6 mg/L alkalinity (MDL[7] = 1.0 mg/L) was found in the laboratory blank but no qualifications of associated data were warranted.

3.2 Laboratory Duplicates

Laboratory duplicate analyses were performed for all general chemistry parameters and total phenols by CAS. Calculated relative percent difference[8] (RPD) values were found to be 10% or less; therefore, qualifications were not required.

3.3 Laboratory Check Samples

Laboratory check sample analyses were reported by CAS and Novamann and found to be within laboratory established control limits for all target analytes, with the exception of Heptachlor, an OC pesticide. Heptachlor had a recovery of 25% which was below the control limits of 34-111%. Qualification of associated data was, therefore, required and can be found summarized in Table 2.

4.0 Field QA/QC

4.1 Field Blanks

A field blank (sample #002) was submitted blind and was analyzed by Novamann and CAS for all analytes. The following table summarizes positive detections in the field blank:

---

7 MDL = Method Detection Limit.

8 Relative percent difference = RPD = $\frac{|X_1 - X_2|}{\overline{X}} \times 100$

where X_1 - initial sample result
X_2 - duplicate sample result
$\overline{X}$ - mean of duplicate sample results

Laboratory	*Parameter*	*Concentration (mg/L)*	*MDL (mg/L)*
Novamann	copper	0.004	0.003
	manganese	0.002	0.001
	iron	0.010	0.005
	aluminum	0.034	0.025
	selenium	0.003	0.002
	1,4-dichlorobenzene	2.1 µg/L	1 µg/L
	chlorobenzene	4.4 µg/L	0.5 µg/L
	ethylbenzene	1.6 µg/L	0.5 µg/L
	o-xylene	5.2 µg/L	0.5 µg/L
	p+m-xylene	9.9 µg/L	0.5 µg/L
CAS	alkalinity	1.6	1.0

As a result, qualifications based on field blanks were warranted and can be found summarized in Table 2.

4.2 Field Duplicates

Field duplicates were not submitted for analyses, therefore assessment of data was not performed on this basis.

5.0 Summary and Conclusions

Qualifications were recommended based on holding time exceedences for cyanide and mercury laboratory check sample recoveries and field blank results.

The data provided by Novamann and CAS are acceptable with the specific qualifications summarized in Table 2.

TABLE 1

SUMMARY OF HOLDING TIMES

Bayview Landfill Site, Project No. 1354-30

Parameter	*Recommended Holding Times*	*Actual Holding Times*	*Exceedance*	*Reference (Attachment A)*
hardness	14 days	12 days	none	1
alkalinity	14 days	3 days	none	1
chloride	30 days	7 days	none	1
sulphate	30 days	5 days	none	1
TKN	14 days	5 days	none	1
ammonia	7 days	2 days	none	1
total phenols	30 days	7 day	none	1
metals(1)	60 days	13-14 days	none	1
total phosphorous	14 days	5 days	none	1
TSS	14 days	1 day	none	1
BOD	immediate	1 day	none	1
COD	7 days	2 days	none	1
fluoride	30 days	5 days	none	1
mercury	7 days	13 days	6 days	1
total cyanide	7days	11 days	4 days	1
OP Pesticides	30 days	12 days	none	1
OC pesticides/PCBs	30 days	13 days	none	1
BNAE	30 days	8-11 days	none	1
VOCs	14 days	12 days	none	1

Notes:

1. Metals - arsenic, selenium, cadium, lead, silver, barium, calcium, chromium, copper, iron, potassium, magnesium, manganese, sodium, nickel, zinc.

TABLE 2

SUMMARY OF QUALIFICATIONS

Bayview Landfill Site, Project No. 1354-30

Report ID	*Sample*	*Location*	*Parameter Result (mg/L)*	*Sample Result (mg/l)*	*Qualified*	*Reference*
9504299	001	MH15	mercury	<0.001	<0.001 UJ	A (Sec. 2.0)
			total cyanide	0.006	0.006 J	A (Sec. 2.0)
			aluminum	0.039	0.039 U	B (Sec. 4.1)
			1,4-dichlorobenzene	2.1	2.1 U	B (Sec. 4.1)
			chlorobenzene	4.4	4.4 U	B (Sec. 4.1)
			ethylbenzene	1.0	1.0 U	B (Sec. 4.1)
			o-xylene	3.1	3.1 U	B (Sec. 4.1)
			p+m-xylene	6.1	6.1 U	B (Sec. 4.1)
			heptachlor	ND	ND UJ	C (Sec. 3.3)
9504299	002	Field Blank	mercury	<0.001	<0.001 UJ	A (Sec. 2.0)
			heptachlor	ND	ND UJ	C (Sec. 3.3)
			total cyanide	<0.005	<0.005 UJ	A (Sec. 2.0)

Notes:

A = Qualification due to holding time exceedence.

U = The material was analyzed for, but was not detected above the sample quantitation limit.

B = Qualification due to positive detection in field blank.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit quantitation necessary to accurately and precisely measure the analyte in the sample.

C = Qualification due to check sample results.

ATTACHMENT A

SUMMARY OF REFERENCE DOCUMENTS

Bayview Landfill Site, Project No. 1354-30

1.0 Ontario Ministry of the Environment & Energy (MOEE), proposed draft, "Guidance on Sampling and Analytical Methods for Site Clean-ups in Ontario", May 1994.

2.0 United States Environmental Protection Agency (USEPA), "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", Publication 9240.1-05, EPA-540/R-94/012, PB94-963501, February 1994.

3.0 United States Environmental Protection Agency (USEPA), "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", Publication 9240.1-05, EPA-540/R-94-013, PB94-963502, February 1994.

4.0 United States code of Federal Regulation (CFR), "Environmental Protection Agency Regulations on Test Procedures for the Analysis of Pollutants", part 136 - Guidelines Establishing Test Procedures for the Analysis of Pollutants (40 CFR 136).

MEMO

TO: Jo-Anne Ing REFERENCE NO: 1354-30

FROM: Jennifer Stoner/1 DATE: January 24, 1996

RE: **Data Validation of Analytical results for Samples obtained November 7, 1995, from the Bayview Landfill Site, Ontario**

1.0 Overview

Twelve surface water samples were collected from the Bayview Landfill Site on November 7, 1995. Samples were submitted to Conestoga-Rovers and Associates Analytical Services (CAS) and Novamann (Ontario) International Inc. (Novamann) for the parameters summarized in the following table.

Laboratory	*Report ID*	*Parameter(s)*	*Field Investigative Samples*	*Field QC Samples*	*Total Number of Samples*
Novamann	9504611	bacteria[1]	10	2	12
		VOCs[2]	10	2	12
CAS		general chemistry[3]	10	2	12
		total phenols	10	2	12

A data validation was conducted on sample analyses based on principles outlined in the references summarized in Attachment A.

2.0 Sample Holding Times

Holding times for water samples established by the Ontario Ministry of the Environment and Energy (MOEE) (Reference No. 1, Attachment A) were used to assess the analytical results produced by Novamann and CAS. Table 1 presents the parameter groups, actual holding times, and recommended holding times.

All analyses were completed prior to the expiration of their associated holding times, with the exception of bacteria. Bacteria analyses exceeded established holding times, therefore, qualifications were required and can be found summarized in Table 2.

---

1 Bacteria - fecal coliform, E.coli, fecal streptococcus, confirmed coliform.

2 VOCs - ethylbenzene, 1,1,1-trichloroethane, 1,3-dichlorobenzene, 1,2-dichloroethane, tetrachloroethylene, 1,1-dichloroethane, trichloroethylene, 1,4-dichlorobenzene, benzene, toluene, chlorobenzene, p+m-xylene, o-xylene.

3 General Chemistry - alkalinity, chloride, sulphate, total kjeldahl nitrogen (TKN), ammonia, total phenols.

3.0 Laboratory QA/QC

3.1 Laboratory Blanks

Laboratory blanks analyzed by CAS contained less than detectable concentrations of all analytes, with the exception of alkalinity. A positive detection of 1.3 mg/L alkalinity (MDL[4] = 1.0 mg/L) was found in the laboratory blank; therefore, requiring qualification of associated data, as summarized in Table 2.

Novamann analyzed a laboratory blank for all target VOC analytes and found no detectable concentrations. As a result, qualifications were not required.

3.2 Laboratory Duplicates

Laboratory duplicate analyses were performed by CAS and Novamann for all general chemistry parameters, total phenols and VOCs. Calculated relative percent difference[5] (RPD) values were found to be 32% or less; therefore qualifications were not required.

3.3 Laboratory Check Samples

Laboratory check sample analyses were performed by CAS and Novamann for all target parameters. Results were found to be within laboratory established control limits for all analytes, with the exception of alkalinity, which had a recovery of 10% which is below laboratory established control limits of 85-112%. Qualifications were necessary and can be found summarized in Table 2.

4.0 Field QA/QC

4.1 Field Blanks

A field blank (sample #005) was submitted blind and was analyzed by CAS and Novamann for all analytes. A positive detection of 1.3 mg/L alkalinity (MDL = 1.0 mg/L) was detected in the field blank, but did not result in qualification.

4.2 Field Duplicates

Field duplicates were analyzed for general chemistry, total phenols, and VOCs. The RPD values for field duplicate analyses performed on surface water samples #012 and #013 were calculated to be 12% or less; therefore, qualifications were not necessary.

---

4 MDL = Method Detection Limit.

5 Relative percent difference = RPD = $\frac{|X_1 - X_2|}{\overline{X}} \times 100$

where X_1 - initial sample result
X_2 - duplicate sample result
$\overline{X}$ - mean of duplicate sample results

5.0 Summary and Conclusions

Qualifications were recommended based on sample holding time exceedance, laboratory blank and laboratory check sample results.

The data provided by Novamann & CAS are acceptable with the specific qualifications summarized in Table 2.

TABLE 1

SUMMARY OF HOLDING TIMES[1]

Bayview Landfill Site, Project 1354-30

Parameter	*Recommended Holding Times*	*Actual Holding Times*	*Exceedance*	*Reference (Attachment A)*
alkalinity	14 days	3 days	none	1
chloride	30 days	24 days	none	1
sulphate	30 days	24 days	none	1
TKN	14-30 days	17 days	none	1
ammonia	7 days	7 days	none	1
total phenols	30 days	8 day	none	1
bacteria	24 hours	48 hours	24 hours	1
VOCs	14 days	3 days	none	1

Notes:

1. Bacteria - fecal coliform, E.coli, fecal streptococcus, confirmed coliform.

2. VOCs - ethylbenzene, 1,1,1-trichloroethane, 1,3-dichlorobenzene, 1,2-dichloroethane, tetrachloroethylene, 1,1-dichloroethane, trichloroethylene, 1,4-dichlorobenzene, benzene, toluene, chlorobenzene, p+m-xylene, o-xylene.

TABLE 2
SUMMARY OF QUALIFICATIONS
Bayview Landfill Site, Project 1354-30

Report ID	*Sample ID*	*Location*	*Parameter*	*Sample Result (mg/L)*	*Qualified*	*Reference*
1354-5	002	SW13-88	alkalinity	264	264 J	A (Sec. 3.3)
9504611			coliform	300	300 J	B (Sec. 2.0)
9504611			escherichia coli	140	140 J	B (Sec. 2.0)
9504611			fecal coliform	140	140 J	B (Sec. 2.0)
9504611			fecal streptococcus	570	570 J	B (Sec. 2.0)
9504611			background	>20000	>20000 J	B (Sec. 2.0)
1354-5	003	SW7-87	alkalinity	303	303 J	A (Sec. 3.3)
9504611			coliform	120	120 J	B (Sec. 2.0)
9504611			escherichia coli	120	120 J	B (Sec. 2.0)
9504611			fecal coliform	120	120 J	B (Sec. 2.0)
9504611			fecal streptococcus	150	150 J	B (Sec. 2.0)
9504611			background	>2000	>2000 J	B (Sec. 2.0)
1354-5	004	SW6-87	alkalinity	251	251 J	A (Sec. 3.3)
9504611			coliform	740	740 J	B (Sec. 2.0)
9504611			escherichia coli	550	550 J	B (Sec. 2.0)
9504611			fecal coliform	550	550 J	B (Sec. 2.0)
9504611			fecal streptococcus	1000	1000 J	B (Sec. 2.0)
9504611			background	>2000	>2000 J	B (Sec. 2.0)
1354-5	005	Field Blank	alkalinity	1.3	1.3 J,U	A (Sec. 3.3)/ C (Sec. 3.1)
9504611			coliform	<1	<1 UJ	B (Sec. 2.0)
9504611			escherichia coli	<1	<1 UJ	B (Sec. 2.0)
9504611			fecal coliform	<1	<1 UJ	B (Sec. 2.0)
9504611			fecal streptococcus	<1	<1 UJ	B (Sec. 2.0)
9504611			background	<1	<1 UJ	B (Sec. 2.0)
1354-5	006	SW8-87	alkalinity	278	278 J	A (Sec. 3.3)
9504611			coliform	280	280 J	B (Sec. 2.0)
9504611			escherichia coli	210	210 J	B (Sec. 2.0)
9504611			fecal coliform	210	210 J	B (Sec. 2.0)
9504611			fecal streptococcus	720	720 J	B (Sec. 2.0)
9504611			background	>2000	>2000 J	B (Sec. 2.0)
1354-5	007	SW10-87	alkalinity	243	243 J	A (Sec. 3.3)
9504611			coliform	1800	1800J	B (Sec. 2.0)
9504611			escherichia coli	950	950 J	B (Sec. 2.0)
9504611			fecal coliform	950	950 J	B (Sec. 2.0)
9504611			fecal streptococcus	790	790 J	B (Sec. 2.0)
9504611			background	>2000	>2000 J	B (Sec. 2.0)

Notes:

A = Qualification due to laboratory check sample recovery.
U = The material was analyzed for, but was not detected above the sample quantitation limit.
B = Qualification due to sample holding time exceedance.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

TABLE 2
SUMMARY OF QUALIFICATIONS
Bayview Landfill Site, Project 1354-30

Report ID	*Sample ID*	*Location*	*Parameter* *Result (mg/L)*	*Sample* *Result (mg/L)*	*Qualified*	*Reference*
1354-5	008	SW5-87	alkalinity	258	258 J	A (Sec. 3.3)
9504611			coliform	300	300 J	B (Sec. 2.0)
9504611			escherichia coli	100	100 J	B (Sec. 2.0)
9504611			fecal coliform	100	100 J	B (Sec. 2.0)
9504611			fecal streptococcus	1000	1000 J	B (Sec. 2.0)
9504611			background	>20000	>20000 J	B (Sec. 2.0)
1354-5	009	SW12-87	alkalinity	243	243 J	A (Sec. 3.3)
9504611			coliform	200	200 J	B (Sec. 2.0)
9504611			escherichia coli	80.0	80.0 J	B (Sec. 2.0)
9504611			fecal coliform	80.0	80.0 J	B (Sec. 2.0)
9504611			fecal streptococcus	290	290 J	B (Sec. 2.0)
9504611			background	>2000	>2000 J	B (Sec. 2.0)
1354-5	010	SW4-87	alkalinity	130	130 J	A (Sec. 3.3)
9504611			coliform	80.0	80.0 J	B (Sec. 2.0)
9504611			escherichia coli	60.0	60.0 J	B (Sec. 2.0)
9504611			fecal coliform	60.0	60.0 J	B (Sec. 2.0)
9504611			fecal streptococcus	1100	1100 J	B (Sec. 2.0)
9504611			background	>2000	>2000 J	B (Sec. 2.0)
1354-5	011	SW1-87	alkalinity	204	204 J	A (Sec. 3.3)
9504611			coliform	1100	1100 J	B (Sec. 2.0)
9504611			escherichia coli	960	960 J	B (Sec. 2.0)
9504611			fecal coliform	960	960J	B (Sec. 2.0)
9504611			fecal streptococcus	1400	1400 J	B (Sec. 2.0)
9504611			background	>20000	>20000 J	B (Sec. 2.0)
1354-5	012	SW11-87	alkalinity	95.4	95.4 J	A (Sec. 3.3)
9504611			coliform	1500	1500 J	B (Sec. 2.0)
9504611			escherichia coli	690	690 J	B (Sec. 2.0)
9504611			fecal coliform	690	690 J	B (Sec. 2.0)
9504611			fecal streptococcus	890	890 J	B (Sec. 2.0)
9504611			background	940	940 J	B (Sec. 2.0)
1354-5	013	SW11-87	alkalinity	95.4	95.4 J	A (Sec. 3.3)
9504611		duplicate	coliform	1600	1600 J	B (Sec. 2.0)
9504611			escherichia coli	640	640 J	B (Sec. 2.0)
9504611			fecal coliform	640	640 J	B (Sec. 2.0)
9504611			fecal streptococcus	1000	1000 J	B (Sec. 2.0)
9504611			background	750	750 J	B (Sec. 2.0)

Notes:

A = Qualification due to laboratory check sample recovery.
U = The material was analyzed for, but was not detected above the sample quantitation limit.
B = Qualification due to sample holding time exceedance.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

ATTACHMENT A

SUMMARY OF REFERENCE DOCUMENTS

Petrolia Landfill Site, Project No. 3725-10

1.0 Ontario Ministry of the Environment & Energy (MOEE), proposed draft, "Guidance on Sampling and Analytical Methods for Site Clean-ups in Ontario", May 1994.

2.0 United States Environmental Protection Agency (USEPA), "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", Publication 9240.1-05, EPA-540/R-94/012, PB94-963501, February 1994.

3.0 United States Environmental Protection Agency (USEPA), "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", Publication 9240.1-05, EPA-540/R-94-013, PB94-963502, February 1994.

4.0 United States code of Federal Regulation (CFR), "Environmental Protection Agency Regulations on Test Procedures for the Analysis of Pollutants", part 136 - Guidelines Establishing Test Procedures for the Analysis of Pollutants (40 CFR 136).

APPENDIX I

1996 MONITORING PROGRAM

CONESTOGA-ROVERS & ASSOCIATES
1996 SITE MONITORING SPECIFICATIONS

PROJECT: Bayview Park Landfill Site

PROJECT NO.: 1354-30

PROJECT MANAGER: Peter Hayes

PROJECT COORDINATOR: Jo-Anne Ing

MONITORING STAFF:	RESPONSIBILITY
Roger Waller	Field Technician
Dan Daum	Field Technician
Jennifer Stoner	Coordinator/Chemist QA/QC

LABORATORY USED: CRA Analytical Services (CAS), Novamann (Ontario) Ltd. (Novamann)

AUTHORIZATION:	MONITORING EVENT	SIGNATURE	DATE
	March		Feb 27/96
	July		
	October		

MONITORING PROGRAM DESCRIPTION
- o surface water monitoring Section 1.0
- o leachate level monitoring Section 2.0
- o leachate collection monitoring Section 3.0
- o off-Site groundwater monitoring Section 4.0
- o leachate seep inspection Section 5.0
- o landfill gas monitoring Section 6.0

SPECIAL INSTRUCTION
- o **March event: New Program**
- o July event:
- o October event:

REVISION:	DATE	REVISION
	February, 1996	revise monitoring specifications to be consistent with Environmental Performance Report

1.0 SURFACE WATER MONITORING

1.1 Locations: 8 surface water:

Upstream:	SW9A-93, SW11-87
Landfill Vicinity:	SW1-87, SW3-87, SW5-87
Downstream:	SW13-93, SW14-93, SW15-93

sample locations	9
duplicates	1
field Blank	1
Total	11

(additional trip blank for VOCs)

1.2 Monitoring Frequency:

Semiannually: March, after significant rainfall (wet weather sampling) July (dry weather sampling), if July sampling event is dry then surface water samples will be collected in October.

1.3 Types of Monitoring

1. measure flow rate accurately at SW9A-93, SW13-93, SW14-93 and SW15-93 locations using flow meter and record as L/sec or gpm

2. sampling:

VOCs	see Table A.1
General Chemistry	field pH, field conductivity, field temperature, alkalinity, chloride, sodium, potassium, TKN, ammonia-N,
	if phenols are detected in the leachate during two consecutive events, then phenols are to added
Bacteria	total coliforms, fecal coliforms, fecal streptococci, E. Coli coliforms

3. laboratory detection limit for ammonia must be less than 0.02 mg/L

2.0 LEACHATE WELL MONITORING

2.1 Location: 6 Leachate Wells LW1, LW2, LW3, LW4, LW5, LW6

2.2 Monitoring Frequency:

Twice per year: **March** and July

2.3 Types of Monitoring

1. measure depth with plopper (sound) of each leachate well
2. monitor leachate level in each well

3.0 LEACHATE COLLECTION SYSTEM MONITORING

3.1 Location: 1 Manhole MH15

Sample location	1
Field blank	1

(additional trip blank for VOCs in October only)

3.2 Monitoring Frequency:

Once per year for leachate quality at MH15: **March**

3.3 Types of Monitoring

1. Sampling (at MH15):

General chemistry	see Table A.1, includes field pH, field conductivity, field temperature
Metals & Cyanide	see Table A.1
VOCs	see Table A.1
BNAEs	see Table A.1
Pesticides & PCBs	see Table A.1

NOTE: Attached parameter list (Table A.1) must be followed with no omissions.

4.0 OFF-SITE GROUNDWATER MONITORING

4.1.1 Locations:

7 buffer zone observation wells:
PW3, OW1A-93, OW1B-93, OW2A-93, OW2B-93, OW3-93, OW4-93

4.2 Monitoring Frequency:

Semiannually: **March** and July

4.3 Types of Monitoring

1. measure well depth and water level at each well.
2. all observation well locations purged at least 10 well casing volumes or dry prior to sampling.

   -sample PW3, OW1B-93, OW2A-93, OW2B-93, OW3-93 AND OW4-93, after purging, for both VOCs and general chemistry

3. sampling: VOCs — see Table A.1 (above six locations)

   General Chemistry — field pH, field conductivity, alkalinity, TKN, ammonia-N, chloride, sodium, potassium

5.0 LEACHATE SEEP INSPECTION

5.1 Locations: 9 Leachate Seeps — LS1, LS2, LS3, LS4, LS5, LS6, LS7, LS8, LS9

5.2 Monitoring Frequency:

Twice per year: **March** and July

5.3 Types of Monitoring:

1. Identify and photograph any leachate seep that has re-occured
2. Estimate flow rate at the seep and report as L/sec or gpm
3. Complete leachate seep inspection sheets
4. Report any occurrences of leachate seeps or failure of leachate collection system immediately to Peter Hayes or Jo-Anne Ing.
5. It is noted that regular leachate inspections will also be conducted by City of Burlington staff. These reports will be documented and discussed in the annual monitoring report.

6.0 LANDFILL GAS MONITORING

6.1 Locations: GP1-93, GP2-93 AND GP3-93

6.1.1 Monitoring Frequency:

Twice per year: **March and July**

6.1.2 Types of Monitoring

Measure and record gas levels. If groundwater is present within gas probes purge and then record groundwater level prior to recording gas levels the next day.

6.0 BOTTLE REQUIREMENTS

Analytical Destination	Samples Analyzed	Test Parameters
a) March		
CAS	**20 X 1000 mL**	**General Chemistry**
	20 x 500 ml	**Phenols**
Mann	**2 x 15 x bacteria kits**	**Bacteria**
Mann	**20 x 3 x 40 ml (+ 2 trip blanks)**	**VOCs**
	2 x 500 ml	**metals**
	2 x 250 ml	**mercury**
	2 x 250 ml	**cyanide**
	2 x 1000 ml	**BNAEs**
	2 x 1000 ml	**Pesticides & PCBs**

b) July

CAS	17 X 1000 mL 17 x 500 ml	General Chemistry Phenols
Mann	15 x bacteria kits	Bacteria
Mann	20 x 3 x 40 ml (+ 2 trip blanks)	VOCs

c) October

CAS	2 x 1000 ml 2 x 500 ml	General Chemistry Phenols
Mann	3 x 3 x 40 ml 2 x 500 ml 2 x 250 ml 2 x 250 ml 2 x 1000 ml 2 x 1000 ml	VOCs metals mercury cyanide BNAEs Pesticides & PCBs

TABLE A.1
LEACHATE PARAMETER LIST
1995 MONITORING PROGRAM
BAYVIEW LANDFILL SITE

GENERAL CHEMISTRY (CAS)

Hardness	Alkalinity	Fluoride
Chloride	Sulfate	Phosphorous (total)
TKN	Ammonia-N	Phenols
BOD	COD	Suspended Solids

METALS & CYANIDE (Novamann)

Aluminum (total)	Antimony (total)	Arsenic (total)
Barium (total)	Bismuth (total)	Cadmium (total)
Chromium (total)	Cobalt (total)	Copper (total)
Iron (total)	Lead (total)	Manganese (total)
Mercury (total)	Molybdenum (total)	Nickel (total)
Selenium (total)	Silver (total)	Tin (total)
Titanium (total)	Vanadium (total)	Zinc (total)
Cyanide (total)	Sodium (total)	Potassium (total)

VOCs (Novamann)

EPA 624 List + xylenes

BNAEs (Novamann)

bis(2-ethylhexyl)Phthalate

Oil and Grease (Novamann)

mineral oil and grease
animal/vegetable oil and grease

Appendix G

Aerial Photo Summary

Year	Source	Notes
1934	NAPL	The north and northwest portion of the Site consisted of inferred residential dwellings, barn structures, and inferred orchards in the north portion, with driveways leading from present-day Upper Middle Road. A creek was observed along the southwest portion of the Site and forested areas were observed along the southwest boundary of the Site. The remainder of the Site appeared to consist of agricultural row crops. A road similar in location to present-day Upper Middle Road was observed to the northwest of the Site, followed by agricultural land. A road similar in location to present-day Burloak Drive was observed northeast of the Site, followed by agricultural land. Agricultural land was observed on the surrounding properties to the southwest and southeast.
1954	NAPL	The Site and surrounding properties appeared similar to 1934. Additional inferred orchards were observed off-site to the northwest of present-day Upper Middle Road.
1965	NAPL	The Site and surrounding properties appeared similar to 1954.
1979	NAPL	The Site appeared similar to 1965. The surrounding properties to the northwest, southwest and southeast appeared similar to 1965. Additional roadways were observed on the surrounding properties to the northeast, in the vicinity of present-day Bronte Creek Provincial Park.
1999	Oakville	The residential dwelling and barn structures located in the north portion of the Site appear to have been demolished. A residential dwelling and barn structures were observed in the northwest portion of the Site. The inferred orchards either appeared treed or were no longer observed. The majority of the Phase One Property consisted of agricultural land, with forested land located along the southeast boundary and Sheldon Creek along the southwest boundary. A road similar in location to present-day Mainway was present southeast of the Site, followed by inferred commercial and industrial buildings along Mainway, Heine Court, Sutton Drive and John Lucas Drive. Residential dwellings under construction were observed to the southwest of Sheldon Creek and northwest of Upper Middle Road.
2010	SWOOP	The residential dwelling and barn structures in the northwest portion of the Site appear to have been demolished. The majority of the Phase One Property consists of agricultural land, with forested land located along the southeast boundary and Sheldon Creek along the southwest boundary.

		Inferred residential dwellings and apartment buildings have been constructed to the northwest of Upper Middle Road and southwest of Sheldon Creek and appear similar to present-day. Surrounding properties to the northeast appear similar to present-day. Additional commercial and industrial buildings have been constructed along Mainway, Heine Court, Sutton Drive and John Lucas Drive to the southeast of the Site.
2023	Oakville	The Site appeared similar to 2010. The surrounding properties also appeared similar to 2010. Additional commercial and industrial buildings have been constructed along Mainway, Heine Court, Sutton Drive and John Lucas Drive to the southeast of the Site.

NAPL – National Air Photo Library
SWOOP – Southwestern Ontario Orthophotography Webmap service
Oakville – Town of Oakville Information Map - ArcGIS

Appendix H
Photographs



Photo 1 West corner of Site, 2024-08-19.



Photo 2 Several Environmental Monitoring Wells present throughout the Site (Well Tag #A385927), 2024-08-19.



Photo 3 Stream runs through wooded area in the south section of the Site, 2024-08-19.



Photo 4 Southwest portion of the Site, along Mainway, 2024-08-19.



Photo 5 Various industrial & commercial businesses along Mainway across from the Site, 2024-08-19.



Photo 6 Sheldon Creek Woodlot present in south center of the Site, 2024-08-19.



Photo 7 Small stream runs south through center of the Site, 2024-8-19.



Photo 8 Wooded area located in northwest corner of the Site, 2024-08-19.



Photo 9 Bronte Creek Provincial Park located north of the Site, 2024-08-19.



Photo 10 Several pole mounted transformers located along Burloak Drive and Upper Middle Road, 2024-08-19.



Photo 11 Communications tower located in northwest part of the Site, 2024-08-19.



Photo 12 Enbridge petroleum pipeline runs along Upper Middle Road through the Site, 2024-8-19.



Photo 13 Stormwater/sanitary sewer covers located along Upper Middle Road & Burloak Drive, 2024-8-19.



Photo 14 Stormwater management pond located northwest of the Site across Upper Middle Road, 2024-08-19.



Photo 15 Pad mounted transformers located at 5510 and 5540 Mainway adjacent to the Site, 2024-08-19.



Photo 16 Forested portion of the Site along Mainway, 2024-08-19.



Photo 17 Petro Canada gas station located at the corner of Mainway and Burloak Drive, 2024-08-19.



Photo 18 Underground AST's present at gas station (50-100m east of subject site), 2024-08-19.