Phase Two Environmental Site Assessment

Vacant Property - 1450 King Road, Burlington, Ontario

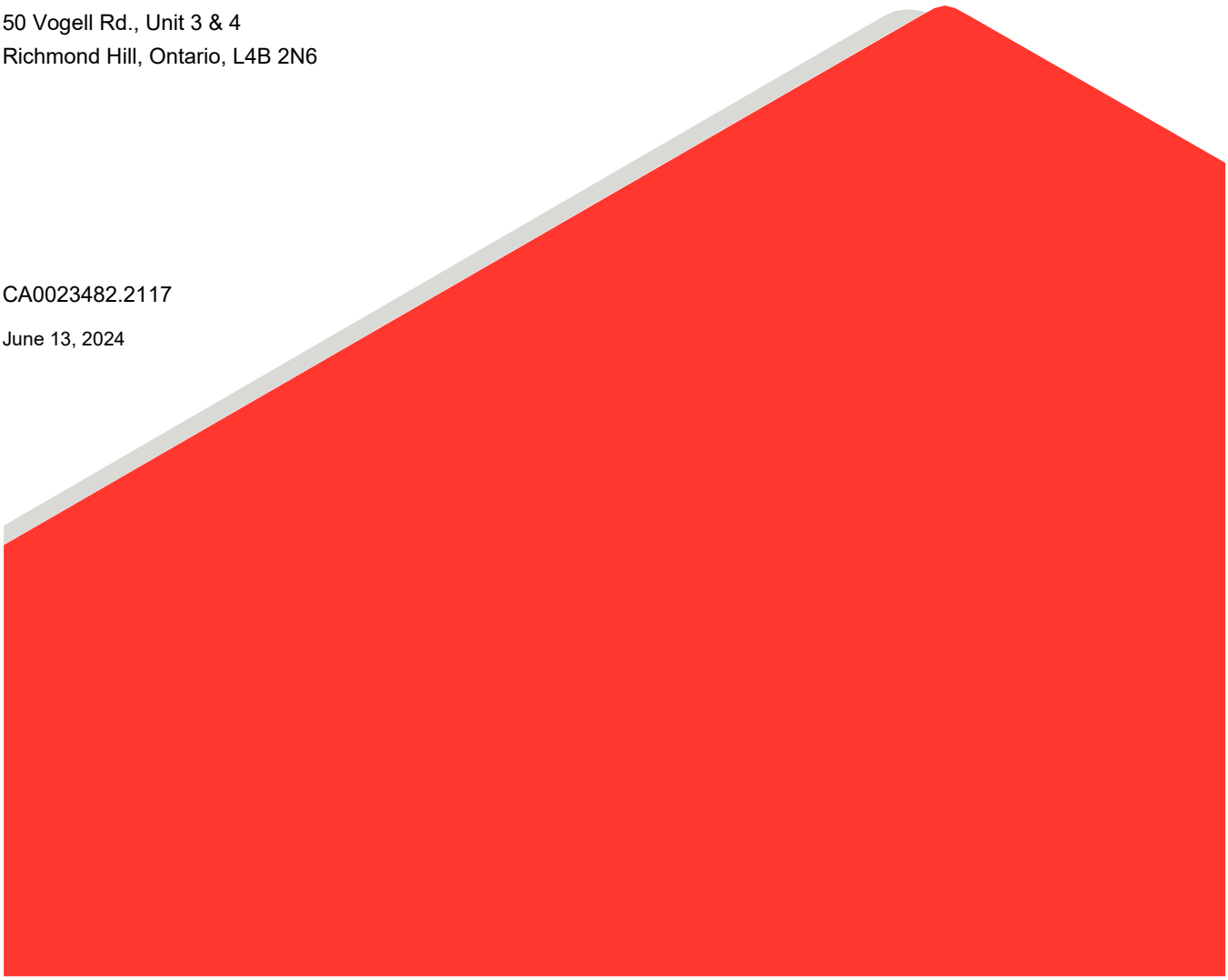
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1.0 EXECUTIVE SUMMARY

WSP Canada Inc (WSP) was retained by Astra Realty Management Inc. (Astra) to conduct a Phase Two Environmental Site Assessment ("Phase Two ESA") of the vacant property located at 1450 King Road, Burlington, Ontario (the "Phase Two Property"). The legal description of the Phase Two Property is: Plan 20M-745, Blocks 1 and 2.

The location of the Phase Two Property is provided in Figure 1.

It is WSP's understanding that the Phase Two ESA is required in support of changing the location of the current Storm Water Management Pond (SWMP). The current SWMP is in the southern portion of the Phase Two Property and the new proposed location is located at the northwest portion of the property. The Phase Two ESA was conducted in accordance with the proposed scope of work and Terms of References provided in WSP's proposal/work agreement (POESAR2413) dated January 24, 2024. As such, this Phase Two ESA was conducted in general accordance with the requirements of Schedule E of O.Reg.153/04, but it is WSPs understanding that property acquisition/divestment and/or the submission of a Record of Site Condition (RSC) are not intended at this time.

As such, the Phase Two ESA was undertaken to:

1) Further assess Areas of Potential Environmental Concern (APECs) identified in the Phase One ESA previously carried out at the Phase Two Property by WSP, as documented in the report titled "*Phase One Environmental Site Assessment, Vacant Property 1450 King Road, Burlington, Ontario*", dated May 2023.

2) Determine the location and concentration of contaminants in the land or water on, in or under the Phase Two Property.

3) Obtain information about environmental conditions in the land or water on, in or under the Phase Two Property necessary to undertake a risk assessment, in accordance with *Ontario Regulation 153/04 – Records of Site Condition, Part XV.1 of the Environmental Protection Act (EPA),* as amended ("O.Reg. 153/04") with respect to one or more contaminants of concern.

4) Determine if applicable Site Condition Standards were met at the Phase Two Property.

The analytical results from the sampling and analysis program indicated that the reported concentrations of petroleum hydrocarbons in one sample from BH/MW4-24, did not meet the applicable Ministry of Environment, Conservation and Parks ("MECP") Table 9 site condition standards (SCS) (residential, park, institutional, industrial, commercial and community, fine textured soil) [1]. The reported concentrations of the other parameters tested in the soil and groundwater were below the Table 9 SCS.

The PHC impacted soil identified at BH/MW4-24 between 4.5 and 5.3 mbgs could be remediated through conventional excavation and off-site disposal of the impacted soils or managed by due diligence risk assessment or further risk evaluation.

[1] *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*, Ministry of the Environment, April 15, 2011 (PIBS# 7382e01)

2.0 INTRODUCTION

2.1 Site Description

Table 1: Phase Two Property Site Description

Municipal Address	1450 King Road, Burlington, Ontario
Property Identification Number	07194-0093 and 07194-0094 (LT)
Legal Description	Plan 20M-745, Blocks 1 and 2
Size of the Phase Two Property	3.4 hectares

Note: legal description obtained from Ontario Land Titles (LT)

The location of the Phase Two Property is provided in Figure 1.

The Phase Two Property is separated into west and east parts as identified by Astra, shown on Figure 2.

2.2 Property Ownership

Authorization to proceed with this investigation was received from Ken Szekely of Astra Realty Management Inc. The contact information for the Phase Two Property owner is as follows:

Table 2: Summary of Site Owner/Client Description (Phase Two Property – West Part Only)

Site Owner / Client	Address	Contact Information
Client: Astra Realty Management Inc. Owner Representative: Jillian Sparrow	2213 North Sheridan Way Mississauga, Ontario L5K 1A3	jsparrow@mhbcplan.com 905-639-8686 ext. 240
Owner: Ken Szekely President and CEO	Mercedes-Benz Burlington 441 North Service Road, Burlington, Ontario L7P 0A3	1-877-353-5557 Ken.Szekely@mbburlington.ca

2.3 Current and Proposed Future Uses

The Phase Two Property consists of vacant land with a SWMP in the southern portion. It is WSPs understanding that the Phase Two Property will remain as vacant land with future use consisting of the creation of a new SWMP with a proposed location at the northwest portion of the Phase Two property as shown in Figure 2.

2.4 Applicable Site Condition Standards

The analytical results were compared to the Table 9 "Generic Site Condition Standards for Use within 30 metres (m) of a Water Body in a Non-Potable Groundwater Condition" for fine soil texture presented in the MECP document "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*", dated April 15, 2011. The applicable site condition standards were selected based on the following rationale:

- The Phase Two Property and all other properties located, in whole or in part, within 250 m of the Phase Two Property are supplied by the Halton Region municipal drinking water system. No wells were identified that are used or intended for use as a source of potable water.

- The Phase Two Property is not located in an area designated in a municipal official plan as a well-head protection area or other designation identified by the municipality for the protection of ground water.
- Sieve analysis was conducted on three soil samples submitted to Bureau Veritas Labs located at 6740 Campobello Road, Mississauga, Ontario. Certificates of Analysis are provided in Appendix D.
- The closest permanent water body is an unnamed creek located approximately 20 m southwest of the Phase Two Property.
- No features have been identified at the Phase Two Property that would meet the conditions of an environmentally sensitive site, as described in Section 41.
- The pH of surface soil is 5≤pH≤9 and the pH of sub-surface soil meets the requirement that 5≤pH≤11 (Section 6.4).
- The intended use of the Phase Two Property is to create a new SWMP along the northwest boundary of the property.
- The overburden thickness is greater than 2.0 m over more than one-third of the Phase Two Property.
- Saturated soils were observed at 4.88 mbgs (BH/MW2-24).

3.0 BACKGROUND INFORMATION

3.1 Physical Setting

The closest permanent water body is an unnamed creek located approximately 20 m southwest of the Phase Two Property. There are no areas of natural significance within the Phase One Study area. Land uses surrounding the Phase Two Property are primarily commercial and institutional (school) land use., as shown in Figure 2.

The topography of the Phase Two Property and surrounding areas is generally flat with areas of undulation. The native surficial deposits consist predominantly of silt to silty clay materials with bedrock consisting of shale, limestone, dolostone, and siltstone (WSP, 2023).

An unnamed creek is located approximately 20 m southwest of the Phase Two Property with Indian Creek located approximately 55 m to the northeast. There are no surface water drainage features on the Site.

3.2 Past Investigations

3.2.1 Phase One ESA

WSP conducted a Phase One ESA entitled, "*Phase One Environmental Site Assessment, Vacant Property 1450 King Road, Burlington, Ontario*", dated May 2023, to assess the likelihood of soil and/or groundwater contamination resulting from historical or present activities at the Site and surrounding area. This included a review of available historical information on the Site and surrounding area, interviews with persons familiar with the Site and a Site reconnaissance. The APECs identified in the 2023 Phase One ESA are summarized in the following table:

Table 3: Areas of Potential Environmental Concern

Area of Potential Environmental Concern	Location of APEC on Phase Two Property	Potentially Contaminating Activity	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
APEC-1 De-icing activities completed on adjacent roadways	Northeast and southeast boundaries of Phase One Property	PCA 1: OTHER – De-icing activities	Off Phase Two Property, to the northeast and southeast	Na, Cl	Soil Groundwater
APEC-2A De-icing activities completed on and adjacent roadways and vehicular usage of adjacent roadways and associated runoff	Northeastern portion of the Phase Two Property	PCA 1: OTHER – De-icing activities and vehicle activities	Off Phase Two Property, to the northeast	PHCs, PAHs, EC/SAR, Na, Cl	Soil Groundwater
APEC-2B De-icing activities completed on and adjacent roadways and vehicular usage of adjacent roadways and associated runoff	Southeastern portion of the Phase Two Property	PCA 1: OTHER – De-icing activities and vehicle activities	Off Phase Two Property, to the southeast	PHCs, PAHs, EC/SAR, Na, Cl	Soil Groundwater

Area of Potential Environmental Concern	Location of APEC on Phase Two Property	Potentially Contaminating Activity	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
APEC-2C De-icing activities completed on and adjacent roadways and vehicular usage of adjacent roadways and associated runoff	Southern portion of the Phase Two Property	PCA 1: OTHER – De-icing activities and vehicle activities	Off Phase Two Property, to the south	PHCs, PAHs, EC/SAR, Na, Cl	Soil Groundwater

Notes:
COPC – Contaminants of Potential Concern
PCA – Potentially Contaminating Activity as provided in Schedule D of O.Reg 153/04 as amended, where applicable
EC – Electrical Conductivity
Cl – Chloride
Na – Sodium
PAH – Polycyclic Aromatic Hydrocarbons
PHC – Petroleum Hydrocarbons
SAR – Sodium Absorption Ratio

4.0 SCOPE OF THE INVESTIGATION

4.1 Overview of Site Investigation

The Phase Two ESA investigation activities were conducted in accordance with the proposed scope of work and Terms of Reference provided in WSPs proposal/work agreement, POESAR2413, dated January 24, 2024. The activities were completed between March 25 and April 19, 2024 and included the following tasks:

- **Health and Safety Plan**: Preparation of a Health and Safety Plan for internal and subcontractor use prior to initiating any field work at the Site.
- **Utility Clearances**: Coordination of utility clearances with local utility companies along with retaining the services of a private locator to assess for possible services in the areas of the proposed test locations.
- **Stockpile Sampling**: Soil samples were collected on March 27, 2024, from two existing stockpiles located in the northern and southern corners of the Phase Two Property. Soil samples were submitted for analysis of the COPCs (Table 3).
- **Borehole Advancement and Monitoring Well Installation**: The borehole drilling and monitoring well installation program included drilling of four boreholes, three of which were completed as groundwater monitoring wells, which were used for groundwater sampling at the Site. The rationale for the selected location of the boreholes is provided in the Sampling and Analysis Plan provided in Appendix B. The locations of the boreholes and monitoring wells are provided in Figure 5. The monitoring well construction details are presented in Table 1.
- **Soil Sampling**: Soil samples were collected on April 1, 2024, from the boreholes. Selected soil samples were submitted for analysis of the COPCs (Table 3).
- **Groundwater Monitoring and Sampling**: Groundwater samples were collected on April 19, 2024. Groundwater samples were submitted for analysis of the COPCs (Table 4).
- **Surveying**: An elevation survey for boreholes and monitoring wells was completed by WSP on May 13, 2024.
- **Reporting**: WSP compiled and assessed the field and laboratory results from the above noted activities into this report.

The Phase Two investigation was carried out in general accordance with WSP's standard operating procedures, which generally conform to the requirements of Ontario Regulation 153/04 (O.Reg.153/04). The data from the Phase Two ESA were incorporated into a single Phase Two ESA report following the Phase Two ESA report format required by O.Reg.153/04.

There were no impediments or access limitations that in the opinion of the Qualified Person would affect the conclusions of this Phase Two ESA report.

4.2 Media Investigated

The Phase Two ESA included sampling and analysis of soil and groundwater.

No sediment was present and therefore sediment sampling was not required. Summaries of the sampling and analysis completed for soil and groundwater are provided in Tables 3 and 4. The sampling and analysis plan

outlines the rationale for the field investigation activities and the associated methodologies used to meet the objectives of the Phase Two ESA.

4.3 Phase One Conceptual Site Model

The following key Site features (where applicable) are presented in Figures 1 to 4.

4.3.1 Property Location and Description

The Phase Two Property is comprised of two (2) parcels, combined for an approximately 3.4-hectare parcel, located at 1450 King Road, Burlington, Ontario. A key plan showing the location of the Phase Two Property is provided in Figure 1. The Phase Two Property is located on the southern side of King Road at the intersection with North Service Road. The Phase Two Property lies in the outskirts of a municipal urban setting in an area of primarily commercial and institutional (school) land use.

The Phase Two Property is an irregularly shaped parcel with a frontage of approximately 174 m along King Road and a horizontal depth of approximately 190 m. The Phase Two Property consists of vacant land. A generalized site plan depicting the layout of the Phase One Property is provided in Figure 2.

4.3.2 Development and Use

According to historical records obtained by WSP, including street directories, fire insurance plans, and aerial photography/satellite imagery, and from discussions with the Phase Two Property representative, the Phase Two Property has never been developed with buildings. Based on the available historical records, a stormwater management pond has been constructed since 2002.

4.3.3 Drinking Water Wells

There are no drinking water wells within the Phase Two Property nor within 250 m boundary of the property boundaries. In addition, the Phase Two Property is not within a wellhead protection area.

4.3.4 Topography and Drainage

The Phase Two Property lies at an approximate elevation ranging from 116 masl in the eastern corner to 125 masl in the northern and western corners. The topography across the Phase Two Property is undulating and generally at grade with surrounding properties. Surface water is expected to percolate the Phase Two Property soils or drain towards the SWMP located in the southern portion of the property.

4.3.5 Geology & Hydrogeology

The surficial deposits beneath the Phase Two Property are expected to consist of Halton Till (Ontario-Erie lobe) which is described as predominantly silty to silty clay materials, high carbonate content and poor clast (Barnett, P.J., Cowan, W.R. and Henry, A.P. 1991). The underlying bedrock is the Georgian Bay Formation, Blue Mountain Formation, Billings Formation, Collingwood Member and Eastview Member which consists of shale, limestone, dolostone, and siltstone (Ontario Geological Survey, 1991).

Based on the findings of the Phase Two ESA, the depth to bedrock is approximately 7.60 meters below ground surface (mbgs).

The regional groundwater flow direction, based on topographic features, is expected to be to the south-southeast towards Lake Ontario. Locally, however, the shallow groundwater flow may be influenced by underground utility trenches, conduits, and structures, variations in soil type, and minor fluctuations in topography.

Based on the findings of the Phase Two ESA, water levels measured in the wells ranged from 0.43 to 4.76 mbgs (BH/MW4-24).

4.3.6 Waterbodies and Areas of Natural Significance

A SWMP is in the southern portion of the Phase Two Property. Additionally, an unnamed creek and Indian Creek are located approximately 20 m southwest and 55 m northeast of the Phase One Property, respectively.

Based on a review of the available information sources concerning the above, the Phase Two Property does not include land that contains or is within 30 m of an “Area of Natural Significance” and therefore would not be considered a sensitive site under O.Reg.153/04.

4.3.7 Potentially Contaminating Activities

One PCA was identified in the Phase One Study Area and is described in Table 4 below. The location of the PCA is shown on Figure 3.

Table 4: Potentially Contaminating Activity

PCA Identifier	PCA	Location of PCA Relative to the Phase One Property	Does PCA Result in APEC at the Phase One Property	Location of APEC on the Phase One Property
PCA 1	OTHER – De-icing Activities	King Road and North Service Road, northeast and southeast adjacent to the Phase One Property, respectively	Yes	APEC-1: Northeast and southeast boundaries of Phase One Property

4.3.8 Areas of Potential Environmental Concern

One past or present uses on, in or under the Phase Two Property, and one PCA on, in or under the Phase One Property and/or within the Phase One Study Area, have been identified that comprise APECs on the Phase One Property where one or more Contaminants of Potential Concern (COPCs) may be present.

The APECs identified at the Phase One Property are summarized in Table 5 below and the locations are shown on Figure 4.

Table 5: Areas of Potential Environmental Concern and Associated PCAs

Area of Potential Environmental Concern	Location of APEC on Phase Two Property	Potentially Contaminating Activity	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
APEC-1 De-icing activities completed on adjacent roadways	Northeast and southeast boundaries of Phase Two Property	PCA 1: OTHER – De-icing activities	Off Phase Two Property, to the northeast and southeast	Na, Cl	Soil Groundwater
APEC-2A De-icing activities completed on and	Northeastern portion of the Phase Two Property	PCA 1: OTHER – De-icing	Off Phase Two	PHCs, PAHs, EC/SAR, Na, Cl	Soil Groundwater

Area of Potential Environmental Concern	Location of APEC on Phase Two Property	Potentially Contaminating Activity	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
adjacent roadways and vehicular usage of adjacent roadways and associated runoff		activities and vehicle activities	Property, to the northeast		
APEC-2B De-icing activities completed on and adjacent roadways and vehicular usage of adjacent roadways and associated runoff	Southeastern portion of the Phase Two Property	PCA 1: OTHER – De-icing activities and vehicle activities	Off Phase Two Property, to the southeast	PHCs, PAHs, EC/SAR, Na, Cl	Soil Groundwater
APEC-2C De-icing activities completed on and adjacent roadways and vehicular usage of adjacent roadways and associated runoff	Southern portion of the Phase Two Property	PCA 1: OTHER – De-icing activities and vehicle activities	Off Phase Two Property, to the south	PHCs, PAHs, EC/SAR, Na, Cl	Soil Groundwater

Notes:
PCA – Potentially Contaminating Activity as provided in Schedule D of O.Reg 153/04 as amended, where applicable
EC – Electrical Conductivity
Cl – Chloride
Na – Sodium
PAH – Polycyclic Aromatic Hydrocarbons
PHC – Petroleum Hydrocarbons
SAR – Sodium Absorption Ratio

4.3.9 Preferential Pathways

A site plan showing existing underground utilities located at the Phase Two Property is provided in Appendix A.

The Phase Two Property contains an existing underground storm sewer system which runs along the northwest to northeast and eastern boundaries of the property. This existing system is connected to the current SWMP that is in the southern portion of the Phase Two Property. These underground utilities have the potential to act as preferential pathways to ground water flow.

Subsurface utilities and services are present for municipal addresses associated within the Phase Two Study Area and are near public roadways. Based on these utility connections, there is potential for preferential groundwater flow of COPC within the nearby corridors as well as the groundwater monitoring wells.

4.3.10 Uncertainty

The main uncertainty in the CSM is the limited information regarding the two pre-existing groundwater monitoring wells located on the Phase Two Property. The two existing wells are in the proposed new location of the SWMP as shown in Figure 4.

4.4 Deviations from Sampling and Analysis Plan

A sampling and analysis plan is provided in Appendix B. The sampling and analysis plan outlines the rationale for the field investigation activities carried out at the Site and the associated methodologies used to meet the objectives of this Phase Two ESA. This plan dated March 26, 2024, covers the activities undertaken during the Phase Two ESA. The deviations from the sampling and analysis plan are described below:

- BH/MW2-24 was installed at 6.1 mbgs instead of the planned depth of 8.0 mbgs due to auger refusal.

4.5 Impediments

No physical impediments to the Phase Two ESA were encountered and access to the Phase Two Property was not denied or restricted.

5.0 INVESTIGATION METHODS

5.1 General

Prior to initiating the field work, WSP developed and implemented Site-specific protocols to protect the health and safety of its employees and subcontractors through the preparation of a Site-specific Health and Safety Plan. An assessment of potential health and safety hazards at the Phase Two Property and those associated with the proposed work was completed each day of the field program. A health and safety tail gate meeting were held with WSP's subcontractors each day prior to completion of the field work. The document was reviewed and signed on-Site by field personnel prior to commencing work. Additionally, prior to any intrusive investigations, including drilling, WSP completed public and private utility clearances.

5.2 Stockpile Sampling

On March 27, 2024, Green Infrastructure Partners Inc (GIPI) used a track excavator to conduct sampling of the two stockpiles located on the Phase Two Property, under the supervision of WSP field staff and 24 primary samples (SP-N-1 to SP-N-12 and SP-S-1 to SP-S-12) and three duplicate samples (DUP-1, DUP-2 and DUP-3) were submitted for laboratory analysis.

Three screening samples were collected per sample location (for a total of 36 screening samples per stockpile) and a sample from the worst case of the screening sample locations was submitted for laboratory analysis. Worst case stockpile samples were based on staining, odour, elevated combustible organic vapour (COV) and total organic vapour (TOV).

5.3 Drilling

On April 1, 2024, four boreholes (BH1-24, BH/MW2-24, BH/MW3-24 and BH/MW3-24) were drilled to depths of 6.1 to 7.6 (mbgs) to assess subsurface conditions. Borehole locations are provided in Figure 5. The boreholes were advanced by Strata Drilling Group (Strata) of Stouffville, Ontario using a track mounted Geoprobe 7822 DT. During borehole drilling activities, overburden soil samples were collected using direct push soil sampling equipment. Continuous soil samples were collected using the following method:

- Dual-tube sampler 1.5 m long, 1.85-inch diameter disposable polyvinyl chloride liner inside a 2.5 inch OD direct push rod.

5.4 Soil: Sampling

Soil samples were collected from undisturbed locations and split in the field into two components. One component was placed into laboratory-prepared container with minimal headspace and stored in a cooler for potential laboratory analysis. The second component was placed inside a plastic bag for field screening, consisting of the soil description, and noting the presence of any staining, odour and/or debris. A photoionization detector (E2B304) calibrated to 100 parts per million ("ppm") isobutylene and 1650 ppm hexane was used to determine the total organic vapour concentration in the headspace in the sealed plastic bag.

As per the sampling and analysis plan (Appendix B) at least two soil samples were submitted from each borehole location. Where the results of field screening indicated the presence of potentially impacted soil, an additional soil sample at greater depth was submitted for laboratory analysis to vertically delineate impacts.

One soil sample representing "worst-case" conditions at each sampling location was selected for laboratory analysis based on the field headspace screening measurements, visual observations (e.g., staining, discoloration

and/or free product, if any), and olfactory observations (if any). Soil samples were submitted to the analytical laboratory under chain of custody procedures. A summary of the soil samples submitted for analysis is provided in Table 3.

Geologic descriptions, and visual and olfactory observations are presented on the field logs (Appendix C).

5.5 Field Screening Measurements

Field measurements of sample headspace concentration were made using the following equipment:

Table 6: RKI Eagle Calibration Parameters

Equipment	Parameters Detected	Detection Limit	Precision	Accuracy	Calibration Standard
RKI Eagle 2	Combustible gas	0-50,000 ppm	NA	±5%	Hexane (1650 ppm)
RKI Eagle 2	Total organic vapour	0-2,000 ppm	NA	±5%	Isobutylene (100 ppm)

Instruments were calibrated before use with daily calibration checks.

5.6 Groundwater: Monitoring Well Installation

Groundwater monitoring wells were installed by Strata using threaded 50 mm diameter, schedule 40, polyvinyl chloride well screens and riser pipe. The annular space was filled with silica filter sand to at least 0.3 m above the well screen. The monitoring well was sealed with bentonite from the top of the sand pack and completed with a stick-up protective well casing set in concrete. The riser pipes were sealed with a J-plug. A description of the quality assurance/quality control measures taken to minimize the potential for cross-contamination between sampling locations is provided in Section 5.13.

Following drilling, the monitoring wells were developed on April 10, 2024, by removing up to three well volumes, or by removing one well volume if the well was considered a “low yield” monitoring well, using dedicated Waterra® pumps (tubing with foot valves). During monitoring well development, qualitative observations were made of water colour, clarity, and the presence or absence of any petroleum hydrocarbon sheen or odours.

5.7 Field Measurements for Water Quality Parameters

Groundwater indicator parameters including temperature, pH, conductivity, oxidation-reduction potential and dissolved oxygen were measured prior to sampling to ensure adequate well development and purging. A YSI 556 water quality meter was used to measure groundwater quality during monitoring well development and groundwater sampling. The instrument was calibrated using factory supplied solutions for electrical conductivity (1413 micro-Siemens per centimetre (µS/cm)) and pH (4.01 pH and 7.01 pH) parameters.

5.8 Groundwater: Sampling

Each monitoring well was purged prior to sample collection. During purging, qualitative observations were made of water clarity and the presence of petroleum hydrocarbon sheen or odour. Purging was completed by pumping at least three well volumes. Or, where the well was considered a “low-yield” monitoring well, by purging at least one half of the well volume. A summary of the sampling and analysis of groundwater is provided in Table 4.

Groundwater samples were placed in laboratory-prepared containers and stored in a cooler until delivery to the analytical laboratory under chain of custody procedures. A summary of the groundwater samples submitted for analysis is presented in Table 4.

5.9 Sediment: Sampling

No sediment samples were collected as part of this ESA.

5.10 Analytical Testing

The contact information for the analytical laboratory: Bureau Veritas Laboratories (BV Labs), 6740 Campobello Road, Mississauga, Ontario, L5N 2L8.

The analytical laboratory is accredited in accordance with the International Standard ISO/IEC 17025 (General Requirement for the Competence of Testing and Calibration Laboratories, May 5, 2005, as amended) and the standards for proficiency testing developed by the Standards Council of Canada, the Canadian Association for Laboratory Accreditation or another accreditation body accepted by the MECP.

5.11 Residue Management Procedures

Residues produced during the investigation (e.g., soil cuttings from drilling, groundwater from well development purging, wash water from equipment decontamination) were placed in sealed drums and stored at the Phase Two Property for future offsite disposal by Provincial Environmental Services Inc.

5.12 Elevation Surveying

An elevation survey was completed by WSP on May 13, 2024 using a Trimble DA2 Antenna (Serial # 6240100461). Elevation data is provided in Table 1.

5.13 Quality Assurance and Quality Control Measures

WSP's quality assurance program for environmental investigations was implemented to ensure that analytical data obtained by the investigation were valid and representative. The quality assurance program included the following measures:

- The use of standard operating procedures for all field investigation activities.
- All monitoring wells were developed following installation to remove fine particles from the filter pack and any fluids introduced during drilling.
- Monitoring wells were appropriately purged prior to groundwater sample collection to remove stagnant water from the well bore and improve sample representativeness, minimizing sample agitation and aeration to the extent practicable.
- The collection of field duplicate samples at a minimum frequency of one duplicate for every ten samples.
- The collection of one trip blank for sampling events that include the analysis of PHC F1 in groundwater.
- Daily checks of calibration were completed for field equipment using a standard of known concentration.
- Soil and groundwater samples were handled and stored in accordance with the sample collection and preservation requirement of the MECP "*Protocol for Analytical Methods Used in the Assessment of Properties Under Part XV.I of the Environmental Protection Act and Excess Soil Quality*", July 1, 2011 (as

amended February 19, 2021). Samples were collected directly into pre-cleaned, laboratory-supplied sample containers with the appropriate preservative for the analyte group. Upon collection, samples were placed in insulated coolers with ice for storage and transport to the analytical laboratory under chain of custody protocols.

- Dedicated sampling equipment (tubing and foot valves) and clean disposable Nitrile™ gloves were used at each sampling location to prevent cross-contamination. All non-dedicated sampling equipment (e.g., water level meters, split spoons) was decontaminated between sampling locations. Sampling equipment in contact with soil, groundwater, or sediment was cleaned by mechanical means; washed with a phosphate-free, laboratory-grade detergent and, if necessary, an appropriate desorbing wash solution; and thoroughly rinsed with analyte-free water.
- Detailed field records documenting the methods and circumstances of collection for each field sample were prepared at the time of sample collection. Each sample was assigned a unique sample identification number recorded in the field notes, along with the date and time of sample collection, the sample matrix, and the requested analyses.
- The submission of samples to the analytical laboratory in accordance with standard chain of custody procedures.

Below is a summary of the primary and duplicate samples.

Table 7: Summary of Samples Submitted for Analysis

Date	Media	Primary Sample ID	Duplicate Sample ID	Trip Blanks
March 27, 2024	Soil	SP-N-1 to SP-N-12 and SP-S-1 to SP-S-12 (24 samples)	DUP-1, DUP-2, and DUP-3	NA
April 1, 2024	Soil	BH1-24-0-1.5, BH1-24-10-11.5, BH1-24-20-23.5, BH/MW2-24-0-2.5, BH/MW2-24-12.5-15, BH/MW2-24-15-16.5, BH/MW3-24-0-2, BH/MW3-24-2-5, BH/MW3-24-18.5-20, BH/MW4-24-0-2.5, BH/MW4-24-7.5-10 and BH/MW4-24-15-17.5 (12 samples)	DUP-1	NA
April 23, 2024	Groundwater	BH/MW2-24. BH/MW3-24 and BH/MW4-24 (3 samples)	BHX	Trip Blank for PHC F1

6.0 REVIEW AND EVALUATION

This section of the report presents a review and evaluation of the results of the drilling, monitoring, and sampling activities conducted as part of the Phase Two ESA.

6.1 Geology

The soil conditions encountered during the borehole drilling program are presented in the field logs (Appendix C) and cross-sections (Figure 6 and 7). The following presents a summary of the subsurface soil conditions encountered during the investigation.

In general, the subsurface soil conditions encountered in the boreholes consisted of silt, sandy silt, and clayey silt overlying Shale bedrock which was encountered at depths ranging from 6.10 to 7.62 mbgs.

In general, the stockpiled soils consisted of sandy silt.

6.2 Groundwater: Elevations and Flow Direction

The groundwater investigation included the sampling and analysis of groundwater. The monitoring well screens were installed at elevations ranging from 116.08 to 111.61 masl (6.10 to 7.62 mbgs). A summary of the monitoring well construction details are presented in Table 1.

Monitoring for water levels and free product was completed using an interface probe on April 10 and 23, 2024. No evidence of petroleum hydrocarbon free product nor sheen in groundwater was observed.

The groundwater elevations at each monitoring well are summarized in Table 2. Groundwater elevations in the unconfined aquifer ranged from 113.18 to 121.77 masl (4.76 to 0.43 mbgs) on April 10, 2024. Based on the interpreted groundwater elevation contours presented in Figure 9, the inferred direction of groundwater flow is southeast.

Where petroleum hydrocarbons or light non-aqueous phase liquids may be present on, in or under the Phase Two Property, the screened intervals of monitoring wells must be positioned to intersect saturated soils. The elevations of the screened intervals and the groundwater elevations for monitoring wells located in APECs 1 and 2B are summarized below.

Table 8: Summary of Well Screen Depths

Well ID and Relevant APEC	Top of Well Screen (masl)	Bottom of Well Screen (masl)	Water Level April 10, 2024 (masl)	Comment
BH/MW2-24 (Proposed new location of SWMP)	119.13	116.08	121.77	Screen is submerged by 2.64 m
BH/MW3-24 (APEC-1)	114.66	111.61	118.80	Screen is submerged by 4.14 m
BH/MW4-24 (APEC-1 & 2B)	113.25	110.20	113.18	Screen straddles the water table

Any temporary fluctuation in water levels on the Phase Two Property is not anticipated to affect the conclusions of the Phase Two ESA. Seasonal fluctuation in water levels should be expected. Given the limited number of monitoring events, seasonal trends could not be identified; however shallow groundwater water levels are typically highest following the spring recharge and decline throughout the summer and fall months into the winter.

Underground utility drawings available for the Phase Two Property indicated existing storm sewer lines running along the northwest, northern, northeastern, and eastern boundaries of the Phase Two Property connecting to the current SWMP. The presence of subsurface utilities and structures at the Site have the potential to act as preferential pathways promoting the migration of COCs. However, no COPCs are present in groundwater exceeding the applicable site condition standards.

6.3 Groundwater: Hydraulic Gradients

The approximate average horizontal hydraulic gradient between boreholes BH/MW2-24 and BH/MW4-24 was 0.09 m/m (Figure 8). Vertical hydraulic gradients were not determined.

6.4 Fine-Medium Soil Texture and pH

Sieve analysis was conducted on three soil samples (BH/MW2-24-2-5, BH/MW2-24-12.5-15 and BH/MW3-24-2-5) submitted to BV Labs. More than two thirds of the tested soil are fine-textured (Section 6.4). Certificates of analysis are provided in Appendix D. Accordingly, soil at the Phase Two Property was classified as medium-fine textured.

Soil samples were collected from surface and subsurface soil and submitted to BV Labs for pH determination. A summary of the test results is presented below.

Table 9: Summary of pH Analysis in Soil Samples

Location ID	Sample ID	Sample Depth (mbgs)	Surface/Subsurface Soil	pH
BH/MW2-24	BH/MW2-24-0-2.5	0.0 – 2.5	Surface soil	7.78
	BH/MW2-24-12.5-15	12.5 – 15.0	Subsurface soil	7.89
BH/MW4-24	BH/MW4-24-0-2.5	0.0 – 2.5	Surface soil	8.00
	BH/MW4-24-7.5-10	7.5 – 10.0	Subsurface soil	7.95

The reported pH of the two surface soil samples meets the requirement that 5≤pH≤9. The reported pH of the two subsurface soil samples meets the requirement that 5≤pH≤11.

6.5 Soil: Field Screening

The results of headspace vapour measurements are presented on the field logs in Appendix C. Combustible gas vapour ranged from 0 to 35 ppm (highest reading at BH1-24 between 6.10 to 7.16 mbgs) and total organic vapour measurements ranged from 0 to 1 ppm.

The results of headspace vapour measurements for the stockpile sampling ranged from 0 to 3 ppm (highest reading at SP-N-7).

6.6 Soil: Quality

A list of soil samples submitted for laboratory analysis is provided in Table 3. The analytical results for soil samples are summarized in Tables 5 to 8. Certificates of analysis are provided in Appendix D.

The reported concentrations of the COPCs in soil met the applicable SCS except for BH/MW4-24 at a depth of 4.6 to 5.3 mbgs.

Two (2) composite samples from the Project Area were submitted for Toxicity Characteristic Leaching Procedure (TCLP) analysis of metals & inorganics, VOCs, benzo(a)pyrene, PCBs and ignitability. The samples met the Schedule 4 Leachate Quality Criteria, as provided in O.Reg 347/90.

TCLP analytical results are summarized in Table 12.

6.7 Groundwater: Quality

Monitoring well construction details are summarized in Table 1 and a list of groundwater samples submitted for laboratory analysis is provided in Table 4. The analytical results for groundwater samples are summarized in Tables 9 to 11. Certificates of analysis are provided in Appendix D.

The groundwater samples collected on April 23, 2024, were submitted for analyses of sodium, chloride, BTEX, PHC F1-F4 and PAHs. A blind field duplicate sample (one duplicate for every ten samples) was collected for analysis in accordance with the analytical protocol.

The reported concentrations of all groundwater samples met the applicable site condition standards.

In addition to the numerical standards, the MECP sets out aesthetic standards relating to the presence of petroleum hydrocarbon product. Specifically, a property does not meet the site condition standards if there is evidence of free product, including but not limited to, visible petroleum hydrocarbon film or sheen present on groundwater, surface water or in any groundwater or surface water samples. Monitoring for free phase product was conducted during groundwater sample collection. No evidence of free product or sheen in groundwater was observed.

6.8 Sediment: Quality

Sampling and analysis of sediment was not required as part of the Phase Two investigation.

6.9 Data Quality Review

The quality assurance assessment of the field duplicate sample results was conducted according to the MECP document "*Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act and Excess Soil Quality*", March 9, 2004 (amended February 19, 2021) ("Analytical Protocol"). A summary of the data quality review findings is presented in Appendix D. Based on this review, the analytical data generated during the investigation are valid and may be used in this Phase Two ESA without further qualification.

All certificates of analysis or analytical reports received pursuant to clause 47(2)(b) of O. Reg. 153/04 comply with subsection 47(3). A certificate of analysis or analytical report has been received for each sample submitted for analysis and is provided in Appendix D.

6.10 Phase Two Conceptual Site Model

The Phase Two conceptual site model is presented in the following sections. The location of the Phase Two Property is provided in Figure 1.

POTENTIAL SOURCES OF CONTAMINATION

Potentially Contaminating Activities

Based on the information obtained as part of the Phase One ESA, the following PCAs were identified. The location of each PCA is provided in Figure 2:

Table 10: Summary of PCAs

Potentially Contaminating Activity	Information Source	Rationale for Potential Contribution of the PCA to an APEC
PCA 1 OTHER – De-icing activities	2023 Phase I ESA	De-icing products applied to adjacent roadways have the potential to migrate onto the Phase One Property and must be identified as an APEC.

Areas of Potential Environmental Concern

The following APECs were identified at the Phase Two Property. The location of each APEC is presented in Figure 4.

Table 11: Summary of APECs

Area of Potential Environmental Concern	Location of APEC on Phase Two Property	Potentially Contaminating Activity	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
APEC-1 De-icing activities completed on adjacent roadways	Northeast and southeast boundaries of Phase One Property	PCA 1: OTHER – De-icing activities	Off Phase Two Property, to the northeast and southeast	Na, Cl	Soil Groundwater
APEC-2A De-icing activities completed on and adjacent roadways and vehicular usage of adjacent roadways and associated runoff	Northeastern portion of the Phase Two Property	PCA 1: OTHER – De-icing activities and vehicle activities	Off Phase Two Property, to the northeast and southeast	PHCs, PAHs, EC/SAR, Na, Cl	Soil Groundwater
APEC-2B De-icing activities completed on and adjacent roadways and vehicular usage of adjacent roadways and associated runoff	Southeastern portion of the Phase Two Property	PCA 1: OTHER – De-icing activities and vehicle activities	Off Phase Two Property, to the southeast	PHCs, PAHs, EC/SAR, Na, Cl	Soil Groundwater

Area of Potential Environmental Concern	Location of APEC on Phase Two Property	Potentially Contaminating Activity	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
APEC-2C De-icing activities completed on and adjacent roadways and vehicular usage of adjacent roadways and associated runoff	Southern portion of the Phase Two Property	PCA 1: OTHER – De-icing activities and vehicle activities	Off Phase Two Property, to the south	PHCs, PAHs, EC/SAR, Na, Cl	Soil Groundwater

Notes:
COPC – Contaminants of Potential Concern
PCA – Potentially Contaminating Activity as provided in Schedule D of O.Reg 153/04 as amended, where applicable
APEC – Area of Potential Environmental Concern
EC – Electrical Conductivity
Cl – Chloride
Na – Sodium
PAH – Polycyclic Aromatic Hydrocarbons
PHC – Petroleum Hydrocarbons
SAR – Sodium Absorption Ratio

Subsurface Structures and Utilities

Underground utility drawings available for the Phase Two Property indicated existing storm sewer lines running along the northwest to northeastern and eastern boundaries of the Phase Two Property connecting to the current SWMP. The presence of subsurface utilities and structures at the Site have the potential to act as preferential pathways promoting the migration of COPCs. However, no COPCs are present in groundwater exceeding the applicable SCS.

PHYSICAL SETTING

The Phase Two Property lies in the outskirts of a municipal urban setting in an area of primarily commercial and institutional land use. The nearest water body to the Phase Two Property is an unnamed creek located approximately 20 m southwest Phase two Property.

The Phase Two Property ground floor elevation ranges from 116 masl in the eastern corner and 125 masl in the north and west corners. The topography across the Phase Two Property is undulating.

Stratigraphy

A representative geologic cross-section of the Phase Two Property is presented in Figure 6.

The soil conditions encountered during the borehole drilling program are presented in the field logs (Appendix C) and cross-sections (Figure 6 and 7). The following presents a summary of the subsurface soil conditions encountered during the investigation.

In general, the subsurface soil conditions encountered in the boreholes consisted of silt, sandy silt, and clayey silt overlying Shale bedrock which was encountered at depths ranging from 6.10 to 7.62 mbgs.

In general, the stockpiled soils consisted of sandy silt.

Hydrogeological Characteristics

The regional groundwater flow direction is expected to be towards the Lake Ontario to the southeast. In the immediate vicinity of the Phase Two Property, the groundwater flow is inferred to be to the southeast.

The groundwater investigation included the sampling and analysis of groundwater. The monitoring well screens were installed at elevations ranging from 116.08 to 111.61 masl (6.10 to 7.62 mbgs). A summary of the monitoring well construction details are presented in Table 1.

Monitoring for water levels and free product was completed using an interface probe on April 10 and 23, 2024. No evidence of petroleum hydrocarbon free product or sheen in groundwater was observed.

The groundwater elevations at each monitoring well are summarized in Table 2. Groundwater elevations ranged from 113.18 to 121.77 masl (4.76 to 0.43 mbgs) on April 10, 2024. Based on the interpreted groundwater elevation contours presented in Figure 9, the inferred direction of groundwater flow is southeast.

Non-potable Standards (Section 35)

The Phase Two ESA Property, and all other properties located, in whole or in part, within 250 m of the boundaries of the Phase Two ESA Property, are supplied by a municipal drinking water system. The intended use of the Phase Two ESA Property does not include agricultural or other use.

The Phase Two ESA Property is not located in an area designated in the municipal official plan as a wellhead protection area or other designation identified by the municipality for the protection of groundwater. There are no wells at the Phase Two ESA Property or one of the properties in the phase one study area that are used or intended for use as a source of water for human consumption or agriculture.

Environmentally Sensitive Areas (Section 41)

The Qualified Person is not aware of any conditions by which section 41 of the Regulation applies to the Phase Two ESA Property. No areas of natural significance were identified on or within 30 m of the Phase Two ESA Property. At the locations tested the pH of surface soil meets the requirement that 5≤pH≤9 and the pH of sub-surface soil meets the requirement that 5≤pH≤11. Accordingly, Section 41 of O. Reg. 153/04 does not apply to the RSC Property.

Shallow Soil Property or Water Body (Section 43.1)

Bedrock was encountered at a depth of 7.62 mbgs. The Phase Two ESA is within 30 m of a water body. Accordingly, Section 43.1 of the Regulation does apply to the Phase Two ESA Property.

Excess Soil

According to information reviewed during the Phase One ESA entitled "*Phase One Environmental Site Assessment, Vacant Property 1450 King Road, Burlington, Ontario*", dated May 2023, it is WSPs understanding that no soil has been brought from another property and placed on, in or under the Phase Two ESA Property as part of the Phase Two ESA.

As indicated in our proposed scope of work and Terms of References provided in WSP's proposal/work agreement (POESAR2413) dated January 24, 2024, it was our understanding that the stockpiles at the Site were generated from the creation of the current SWMP and will remain on-site. As such, the testing conducted in this Phase Two ESA will allow for an assessment of soil quality for on-Site COPCs but would not meet the

requirements of Ontario Regulation 406/19, *On-Site and Excess Soils Management* made under the EPA, should offsite disposal be contemplated.

Site Condition Standards

The analytical results were compared to Table 9 site condition standards (residential, park, institutional, industrial, and commercial, community property use, fine textured soil) listed in the Ministry of the Environment, Conservation and Parks ("MECP") document *"Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act"*, April 2011.

Proposed Buildings and Other Structures

It is understood that the Phase Two Property is not to be developed and is to remain as vacant land with a proposed new location for a SWMP as displayed on Figure 2.

DELINEATION OF CONTAMINANT IMPACTS

APEC Where Contaminants are Present at a Concentration Above the Applicable Site Condition Standard

APEC 1 – The investigation included the collection of three soil samples from each borehole located in APEC-1 and the collection of one groundwater sample from each newly installed well. The reported concentrations of all COPCs in the groundwater and soil samples met the applicable SCS except for one sample from BH/MW4-24 at a depth of 4.6 to 5.3 mbgs.

APECs 2A, 2B and 2C – The investigation included the collection of 24 soil samples, 12 from each stockpile located on the Phase Two Property. The reported concentrations of the COPCs met the applicable SCSs.

Contaminant Distribution

No contaminants of potential concern were present in soil, groundwater, nor stockpile soil samples at a concentration greater than the applicable SCS, except for the following:

- **BH/MW4-24-15-17.5:** PHC F2 concentrations (12 µg/g) exceeding the Table 9 SCS.

BH/MW4-24 is in the southeast portion of the Phase Two Property directly north of the current SWMP.

Potential Reason for Discharge into the Environment at the Site

No discharge of contaminants has occurred on, in or under the Phase Two Property which has resulted in impacts at concentrations greater than the applicable site condition standards.

Contaminant Migration

The reported concentrations of the contaminants of potential concern met the applicable site condition standards and therefore contaminant migration in groundwater is not relevant.

Meteorological and Climatic Considerations

Seasonal fluctuation in water levels should be expected. Given the limited number of monitoring events seasonal trends could not be identified; however shallow groundwater water levels are typically highest following the spring recharge and decline throughout the summer and fall months into the winter.

Soil Vapour Intrusion Pathways

WSP's understanding is that the Phase Two Property will not be developed. The property will remain as vacant land with a proposed new location for the SWMP at the northwest portion of the property. As there will be no structures on the Phase Two Property, soil vapour intrusion is not relevant.

CROSS-SECTIONS

Lateral and Vertical Distribution of Contaminants

Representative cross-sections are presented in Figure 6.

POTENTIAL EXPOSURE PATHWAYS AND RECEPTORS

No contaminants are present in groundwater.

A soil concentration of PHC F2 was identified in exceedance of the Table 9 SCS. The PHC F2 could be attributed to sedimentation associated with the current or former SWMPs in the location where the PHC F2 exceedance was found.

Human health receptor groups on-Site include long term outdoor workers, sub-surface workers and trespassers.

In the absence of risk management, human health receptors on the Phase Two Property may be exposed to soil impacts through direct contact (dermal contact, incidental soil ingestion and/or soil/dust inhalation) and through inhalation of vapours in outdoor air and/or trench settings.

Ecological receptors include terrestrial birds and mammals, and plants and invertebrates. The key exposure pathways to the COC in soil include:

- Soil ingestion and direct contact by soil invertebrates;
- Root uptake from soil and/or root contact with soil by terrestrial plants;
- Soil ingestion by mammals and birds; and
- Ingestion of impacted food/prey by soil invertebrates, mammals, and birds.

Aquatic receptors are present off-Site. As there are no contaminants in groundwater, there are no complete exposure pathways for off-Site aquatic receptors.

Figure 27 demonstrates the release mechanisms, contaminant transport pathways, receptors, and route of exposure for the Conceptual Site Model (CSM).

NON-STANDARD DELINEATION

Non-standard delineation conducted in accordance with section 7.1 of Schedule E was not part of preparing the Phase Two ESA report.

STANDARDS DEEMED TO BE MET

The exemptions set out in paragraphs 1.1, 2 and 3 of Section 49.1 are not applicable.

SUBSECTION 6(2) EXEMPTION

Groundwater investigation was conducted as part of the Phase Two ESA.

7.0 CONCLUSIONS

It is WSPs understanding that the Phase Two ESA is required in support of shifting the location of the current Storm Water Management Pond (SWMP). The current SWMP is in the southern portion of the Phase Two Property and the new proposed location is located at the northwest portion of the property, as shown in Figure 2. The Phase Two Property is separated into west and east parts as identified by Astra.

The Phase Two ESA was conducted in accordance with the proposed scope of work and Terms of References provided in WSPs proposal/work agreement (POESAR2413) dated January 24, 2024. As such, this Phase Two ESA was conducted in general accordance with the requirements of Schedule E of O.Reg.153/04, but it is WSPs understanding that property acquisition/divestment and/or the submission of a Record of Site Condition (RSC) is not intended at this time.

The Phase Two ESA investigated the two APECs identified in the 2023 Phase One ESA. The Phase Two Property consists of vacant land with a SWMP in the southern portion and according to fire insurance plans, aerial photography and from discussions with property representatives, the Phase Two Property has never been developed.

Based on the results of the soil and groundwater samples submitted as part of this Phase Two ESA, the reported concentrations of the COPCs were below the applicable Table 9 SCS except for PHC F2 concentrations (12 µg/g) that exceeded the Table 9 SCS in BH/MW4-24, which was drilled in the approximate location of the current SWMP.

The analytical results from the sampling and analysis program indicated that the reported concentrations of petroleum hydrocarbons in one sample from BH/MW4-24, did not meet the applicable Ministry of Environment, Conservation and Parks (“MECP”) Table 9 site condition standards (SCS) (residential, park, institutional, industrial, commercial and community, fine textured soil)[2]. The reported concentrations of the other parameters tested in the soil and groundwater were below the Table 9 SCS.

The PHC impacted soil identified at BH/MW4-24 between 4.5 and 5.3 mbgs could be remediated through conventional excavation and off-site disposal of the impacted soils or managed by due diligence risk assessment or further risk evaluation.

[2] *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*, Ministry of the Environment, April 15, 2011 (PIBS# 7382e01)

8.0 REFERENCES

Phase One Environmental Site Assessment, 1450 King Road, Burlington, Ontario.

Quaternary Geology of Ontario, Southern Sheet. Map 2556. Ontario Ministry of Development and Mines dated 1991 (Map No. 2556, Quaternary Geology of Ontario, Southern Sheet, 1991).

Bedrock Geology of Ontario, Southern Sheet. Map 2544. Ontario Ministry of Development and Mines dated 1991. Map No. 2544, Bedrock Geology of Ontario, Southern Sheet, 1991).

9.0 LIMITATIONS

This report was prepared for the exclusive use of Astra Realty Management Inc. The report, which specifically includes all tables, figures, and appendices, is based on data and information, collected during conducting the Phase Two ESA, and is based solely on the conditions of the property at the time of conducting investigations, supplemented by historical information and data obtained by WSP Canada Inc. as described in this report.

The assessment of environmental conditions at this Site has been made using the results of field screening techniques and chemical analysis of soil and groundwater samples at a limited number of locations. The Site conditions between sampling locations have been inferred based on conditions observed at the sampling locations. Conditions may vary from these sample locations. Additional study, including further investigation, can reduce the inherent uncertainties associated with this type of study. However, it is never possible, even with exhaustive sampling and testing, to dismiss the possibility that part of a Site may be contaminated and remain undetected.

The services performed as described in this report were conducted in a manner consistent with that level of care and skill normally exercised by other members of the engineering and science professions currently practicing under similar conditions, subject to the time limits and financial and physical constraints applicable to the services.

Any use which a third party makes of this report, or any reliance on, or decisions to be made based on it, are the responsibilities of such third parties. WSP Canada Inc. accepts no responsibility for damages, if any, suffered by any third party (other than as noted above) as a result of decisions made or actions based on this report.

The content of this report is based on information collected during the drilling, soil and groundwater sampling activities, our present understanding of the Site conditions, and our professional judgement in light of such information at the time of this report. This report provides a professional opinion and therefore no warranty is expressed, implied, or made as to the conclusions, advice and recommendations offered in this report. This report does not provide a legal opinion regarding compliance with applicable laws. With respect to regulatory compliance issues, it should be noted that regulatory statutes and the interpretation of regulatory statutes are subject to change.

The findings and conclusions of this report are valid only as of the date of this report. If new information is discovered in future work, including excavations, borings or other studies, WSP Canada Inc. should be requested to re-evaluate the conclusions of this report, and to provide amendments as required.

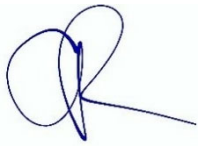
The monitoring wells installed as part of this project have been constructed using licensed drilling/well contractors employing licensed well technicians. It is owner’s responsibility to have a licensed well technician properly abandon all monitoring wells, if required.

10.0 SIGNATURES

We trust that you will find the contents of this report satisfactory for your current needs. Should you require clarification of the information provided, please do not hesitate to contact the undersigned.

Signature Page

WSP Canada Inc.



Rebecca Rodricks
Environmental Technician



Ian A. Powell, P.Geo., QPESA
Principal Geoscientist

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Tables

TABLE 1
SUMMARY OF SAMPLING LOCATIONS

Location ID	Location Type	Contractor	Installation Date	Construction Material	Nominal Diameter (mm)	Easting	Northing	Top of Casing Elevation (masl)	Ground Surface Elevation (masl)	Stickup (m)	Total Borehole Depth (mbgs)	Top of Screen (mbgs)	Bottom of Screen (mbgs)	Screen Length (m)	Top of Screen Elevation (masl)	Bottom of Screen Elevation (masl)
BH1-24	Monitoring Well	Strata	1-Apr-24	NA	NA	NA	NA	NA	NA	NA	7.62	NA	NA	NA	NA	NA
BH/MW2-24	Monitoring Well	Strata	1-Apr-24	PVC	50	593620.39	4798023.97	123.28	122.18	1.08	7.16	3.05	6.10	3.05	119.13	116.08
BH/MW3-24	Monitoring Well	Strata	1-Apr-24	PVC	50	593728.57	4798044.73	120.31	119.23	1.06	7.62	4.57	7.62	3.05	114.66	111.61
BH/MW4-24	Monitoring Well	Strata	27-Mar-24	PVC	50	593699.85	4797983.77	119.00	117.82	1.06	7.62	4.57	7.62	3.05	113.25	110.20
SP-N-1	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593660.00	4798102.00	NA	NA	NA	0.0 - 0.46	NA	NA	NA	NA	NA
SP-N-2	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593668.00	4798009.00	NA	NA	NA	0.0 - 0.61	NA	NA	NA	NA	NA
SP-N-3	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593680.00	4798086.00	NA	NA	NA	0.0 - 0.61	NA	NA	NA	NA	NA
SP-N-4	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593688.00	4798081.00	NA	NA	NA	0.0 - 0.46	NA	NA	NA	NA	NA
SP-N-5	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593663.00	4798107.00	NA	NA	NA	0.0 - 0.61	NA	NA	NA	NA	NA
SP-N-6	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593668.00	4798103.00	NA	NA	NA	0.0 - 0.76	NA	NA	NA	NA	NA
SP-N-7	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593673.00	4798098.00	NA	NA	NA	0.0 - 0.61	NA	NA	NA	NA	NA
SP-N-8	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593681.00	4798092.00	NA	NA	NA	0.0 - 0.76	NA	NA	NA	NA	NA
SP-N-9	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593676.00	4798075.00	NA	NA	NA	0.0 - 0.61	NA	NA	NA	NA	NA
SP-N-10	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593663.00	4798080.00	NA	NA	NA	0.0 - 0.46	NA	NA	NA	NA	NA
SP-N-11	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593652.00	4798091.00	NA	NA	NA	0.0 - 0.46	NA	NA	NA	NA	NA
SP-N-12	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593649.00	4798100.00	NA	NA	NA	0.0 - 0.46	NA	NA	NA	NA	NA
SP-S-1	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593649.00	4797903.00	NA	NA	NA	0.0 - 0.46	NA	NA	NA	NA	NA
SP-S-2	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593644.00	4797915.00	NA	NA	NA	0.0 - 0.76	NA	NA	NA	NA	NA
SP-S-3	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593639.00	4797919.00	NA	NA	NA	0.0 - 0.61	NA	NA	NA	NA	NA
SP-S-4	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593650.00	4797915.00	NA	NA	NA	0.0 - 0.46	NA	NA	NA	NA	NA
SP-S-5	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593660.00	4797912.00	NA	NA	NA	0.0 - 0.61	NA	NA	NA	NA	NA
SP-S-6	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593658.00	4797906.00	NA	NA	NA	0.0 - 0.61	NA	NA	NA	NA	NA
SP-S-7	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593650.00	4797899.00	NA	NA	NA	0.0 - 0.76	NA	NA	NA	NA	NA
SP-S-8	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593638.00	4797906.00	NA	NA	NA	0.0 - 0.61	NA	NA	NA	NA	NA
SP-S-9	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593635.00	4797907.00	NA	NA	NA	0.0 - 0.76	NA	NA	NA	NA	NA
SP-S-10	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593633.00	4797916.00	NA	NA	NA	0.0 - 0.76	NA	NA	NA	NA	NA
SP-S-11	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593635.00	4797924.00	NA	NA	NA	0.0 - 0.61	NA	NA	NA	NA	NA
SP-S-12	Stockpile Sample	GIPI	27-Mar-24	NA	NA	593648.00	4797893.00	NA	NA	NA	0.0 - 0.46	NA	NA	NA	NA	NA

Notes

Northing and easting are UTM NAD 83 Zone 17. PROVIDE A DESCRIPTION OF THE SURVEY METHOD

NA not applicable

mbtoc meters below top of casing

masl metres above sea level

mbgs metres below ground surface

TABLE 2
GROUNDWATER MONITORING

Location ID	Date	Depth to Water (mbtoc)	Water Elevation (masl)	Total Depth (mbtoc)	Water Volume (L)	Volume Purged (L)	Temperature (°C)	pH	Conductivity (µS/cm)	Remarks
BH/MW2-24	10-Apr-24	1.51	121.77	6.31	30	87	NA	NA	NA	Opaque brown, no odour, no sheen. Clearing during development.
BH/MW3-24	10-Apr-24	1.51	118.80	8.62	42	29	NA	NA	NA	Clear, no odour, no sheen
BH/MW4-24	10-Apr-24	5.82	113.18	8.69	17	14	NA	NA	NA	Slightly cloudy, no odour, no sheen

Notes:
NA not applicable
masl metres above sea leval
mbtoc meters below top of casing

TABLE 3
SUMMARY OF SOIL SAMPLES SUBMITTED FOR ANALYSIS

Location ID	Sample ID	Date	Sample Depth (mbgs)	Headspace Screening Result (ppm)	Soil Description	Analyses Completed
SP-N-1	SP-N-1	27-Mar-24	0.0 - 0.46	0/1	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-2	SP-N-2	27-Mar-24	0.0 - 0.61	0/1	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-3	SP-N-3	27-Mar-24	0.0 - 0.61	0/1	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-4	SP-N-4	27-Mar-24	0.0 - 0.46	0/1	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-4	DUP-1	27-Mar-24	0.0 - 0.46	0/1	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-5	SP-N-5	27-Mar-24	0.0 - 0.61	0/0	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-5	DUP-2	27-Mar-24	0.0 - 0.61	0/0	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-6	SP-N-6	27-Mar-24	0.0 - 0.76	0/2	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-7	SP-N-7	27-Mar-24	0.0 - 0.61	0/3	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-8	SP-N-8	27-Mar-24	0.0 - 0.76	0/2	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-9	SP-N-9	27-Mar-24	0.0 - 0.61	0/1	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-10	SP-N-10	27-Mar-24	0.0 - 0.46	0/2	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-11	SP-N-11	27-Mar-24	0.0 - 0.46	0/2	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-N-12	SP-N-12	27-Mar-24	0.0 - 0.46	0/2	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-1	SP-S-1	27-Mar-24	0.0 - 0.46	0/1	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-2	SP-S-2	27-Mar-24	0.0 - 0.76	0/2	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-3	SP-S-3	27-Mar-24	0.0 - 0.61	0/2	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-3	DUP-3	27-Mar-24	0.0 - 0.61	0/2	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-4	SP-S-4	27-Mar-24	0.0 - 0.46	0/0	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-5	SP-S-5	27-Mar-24	0.0 - 0.61	0/0	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-6	SP-S-6	27-Mar-24	0.0 - 0.61	0/0	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-7	SP-S-7	27-Mar-24	0.0 - 0.76	0/0	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-8	SP-S-8	27-Mar-24	0.0 - 0.61	0/1	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-9	SP-S-9	27-Mar-24	0.0 - 0.76	0/1	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-10	SP-S-10	27-Mar-24	0.0 - 0.76	0/1	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-11	SP-S-11	27-Mar-24	0.0 - 0.61	0/1	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
SP-S-12	SP-S-12	27-Mar-24	0.0 - 0.46	0/1	Brown silty sand	PHC F1-F4, BTEX, PAH, EC, SAR
BH1-24	BH1-24-0-1.5	1-Apr-24	0.0 - 0.46	0/0	Brown sandy silt	PHC F1-F4, PAH, EC, SAR
BH1-24	BH1-24-10-11.5	1-Apr-24	3.05 - 3.51	5/0	Grey/brown silt	PHC F1-F4, PAH, EC, SAR
BH1-24	BH1-24-20-23.5	1-Apr-24	6.10 - 7.16	35/1	Grey/brown silt	VOC
BH/MW2-24	BH/MW2-24-0-2.5	1-Apr-24	0.0 - 0.76	0/1	Brown sandy silt	PHC F1-F4, PAH, EC, SAR, pH
BH/MW2-24	BH/MW2-24-12.5-15	1-Apr-24	3.81 - 4.57	0/1	Brown/red silt	pH, Grain Size
BH/MW3-24	BH/MW3-24-0-2	1-Apr-24	0.0 - 0.61	0/1	Dark brown clayey silt	PHC F1-F4, PAH, EC, SAR
BH/MW3-24	DUP-1	1-Apr-24	0.0 - 0.61	0/1	Dark brown clayey silt	PHC F1-F4, PAH, EC, SAR
BH/MW3-24	BH/MW3-24-2-5	1-Apr-24	0.61 - 1.52	0/1	Brown/grey silt	PAH, EC, SAR, Grain Size
BH/MW3-24	BH/MW3-24-18.5-20	1-Apr-24	5.64 - 6.10	0/1	Grey/red silt	PHC F1-F4
BH/MW4-24	BH/MW4-24-0-2.5	1-Apr-24	0.0 - 0.76	0/1	Grey silt	PHC F1-F4, PAH, EC, SAR, pH
BH/MW4-24	BH/MW4-24-7.5-10	1-Apr-24	2.29 - 3.05	0/1	Grey/brown clayey silt	PAH, EC, SAR, pH
BH/MW4-24	BH/MW4-24-15-17.5	1-Apr-24	4.57 - 5.33	0/1	Grey/brown clayey silt	PHC F1-F4

Notes:
NA not applicable
mbgs meters below ground surface
ppm parts per million

TABLE 4
SUMMARY OF GROUNDWATER SAMPLES SUBMITTED FOR ANALYSIS

Location ID	Sample ID	Date	Sample Depth (mbgs)	Analyses Completed	Field Observations
BH/MW2-24	BH/MW2-24	23-Apr-24	NA	BTEX, PHC F1-F4, PAH, Na, Cl	Clear, no odour, no sheen
BH/MW3-24	BH/MW3-24	23-Apr-24	NA	BTEX, PHC F1-F4, PAH, Na, Cl	Clear, no odour, no sheen
BH/MW3-24	BHX	23-Apr-24	NA	BTEX, PHC F1-F4, PAH, Na, Cl	Clear, no odour, no sheen
BH/MW4-24	BH/MW4-24	23-Apr-24	NA	BTEX, PHC F1-F4, PAH, Na, Cl	Clear, no odour, no sheen

Notes:
NA not applicable
mbgs meters below ground surface

TABLE 5

SUMMARY OF PETROLEUM HYDROCARBONS IN SOIL

		Location ID	BH/MW2-24	BH/MW2-24	BH/MW3-24	BH/MW3-24	BH/MW3-24	BH/MW4-24	BH/MW4-24	BH1-24	BH1-24	SP-N-1	SP-N-2
		Sample ID	BH/MW2-24-0-2.5	BH/MW2-24-15-16.5	BH/MW3-24-0-2	DUP-1	BH/MW3-24-18.5-20	BH/MW4-24-0-2.5	BH/MW4-24-15-17.5	BH1-24-0-1.5	BH1-24-10-11.5	SP-N-1	SP-N-2
		Soil Type	Sandy Silt	Silt	Clayey Silt	Clayey Silt	Silt	Silt	Clayey Silt	Sandy Silt	Sandy Silt	Silty Sand	Silty Sand
		Depth (mbgs)	0 - 0.8	4-6 - 5.0	0 - 0.6	0 - 0.6	5.6 - 6.1	0 - 0.8	4.6 - 5.3	0 - 0.5	3 - 3.5	0 - 0.5	0 - 0.6
		COV/TOV (ppm)										0/1	0/1
		Sample Date	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	27-Mar-24	27-Mar-24
		Lab Sample ID	YTX641	YTX653	YTX636	YTX649	YTX639	YTX632	YTX634	YTX645	YTX647	YTI854	YTI855
		Lab Work Order No.	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C492991	C492991
		Parent Sample				BH/MW3-24-0-2							
Parameter	**Units**	**MECP Table 9 SCS**											
F1 (C6-C10)	µg/g	25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
F1 (C6-C10)-BTEX	µg/g	25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
F2 (C10-C16)	µg/g	10	< 10	< 10	< 10	< 10	< 10	< 10	***12***	< 10	< 10	< 10	< 10
F3 (C16-C34)	µg/g	240	< 50	< 50	< 50	< 50	65	< 50	82	< 50	< 50	< 50	< 50
F4 (C34-C50)	µg/g	120	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50

TABLE 5

SUMMARY OF PETROLEUM HYDROCARBONS IN SOIL

Location ID			**SP-N-3**	**SP-N-4**	**SP-N-4**		**SP-N-5**	**SP-N-5**		**SP-N-6**	**SP-N-7**	**SP-N-8**	**SP-N-9**
Sample ID			**SP-N-3**	**SP-N-4**	**DUP-1**		**SP-N-5**	**DUP-2**		**SP-N-6**	**SP-N-7**	**SP-N-8**	**SP-N-9**
Soil Type			**Silty Sand**	**Silty Sand**	**Silty Sand**		**Silty Sand**	**Silty Sand**		**Silty Sand**	**Silty Sand**	**Silty Sand**	**Silty Sand**
Depth (mbgs)			**0 - 0.6**	**0 - 0.5**	**0 - 0.5**	**RPD**	**0 - 0.6**	**0 - 0.6**	**RPD**	**0 - 0.8**	**0 - 0.6**	**0 - 0.8**	**0 - 0.6**
COV/TOV (ppm)			**0/1**	**0/1**	**0/1**		**0/0**	**0/0**		**0/2**	**0/3**	**0/2**	**0/1**
Sample Date			**27-Mar-24**	**27-Mar-24**	**27-Mar-24**		**27-Mar-24**	**27-Mar-24**		**27-Mar-24**	**27-Mar-24**	**27-Mar-24**	**27-Mar-24**
Lab Sample ID			**YTI856**	**YTI857**	**YTI878**		**YTI858**	**YTI879**		**YTI859**	**YTI860**	**YTI861**	**YTI862**
Lab Work Order No.			**C492991**	**C492991**	**C492991**		**C492991**	**C492991**		**C492991**	**C492991**	**C492991**	**C492991**
Parent Sample					**SP-N-4**			**SP-N-5**					
Parameter	**Units**	**MECP Table 9 SCS**											
F1 (C6-C10)	µg/g	25	< 10	< 10	< 10	--	< 10	< 10	--	< 10	< 10	< 10	< 10
F1 (C6-C10)-BTEX	µg/g	25	< 10	< 10	< 10	--	< 10	< 10	--	< 10	< 10	< 10	< 10
F2 (C10-C16)	µg/g	10	< 10	< 10	< 10	--	< 10	< 10	--	< 10	< 10	< 10	< 10
F3 (C16-C34)	µg/g	240	< 50	< 50	< 50	--	< 50	< 50	--	< 50	< 50	< 50	< 50
F4 (C34-C50)	µg/g	120	< 50	< 50	< 50	--	< 50	< 50	--	< 50	< 50	< 50	< 50

TABLE 5

SUMMARY OF PETROLEUM HYDROCARBONS IN SOIL

		Location ID	SP-N-10	SP-N-11	SP-N-12	SP-S-1	SP-S-2	SP-S-3	SP-S-3	RPD	SP-S-4	SP-S-5	SP-S-6
		Sample ID	SP-N-10	SP-N-11	SP-N-12	SP-S-1	SP-S-2	SP-S-3	DUP-3		SP-S-4	SP-S-5	SP-S-6
		Soil Type	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand		Silty Sand	Silty Sand	Silty Sand
		Depth (mbgs)	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.8	0 - 0.6	0 - 0.6		0 - 0.5	0 - 0.6	0 - 0.6
		COV/TOV (ppm)	0/2	0/2	0/2	0/1	0/0	0/2	0/2		0/0	0/0	0/0
		Sample Date	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24		27-Mar-24	27-Mar-24	27-Mar-24
		Lab Sample ID	YTI863	YTI864	YTI865	YTI866	YTI867	YTI868	YTI880		YTI869	YTI870	YTI871
		Lab Work Order No.	C492991	C492991	C492991	C492991	C492991	C492991	C492991		C492991	C492991	C492991
		Parent Sample							SP-S-3				
Parameter	**Units**	**MECP Table 9 SCS**											
F1 (C6-C10)	µg/g	25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10
F1 (C6-C10)-BTEX	µg/g	25	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10
F2 (C10-C16)	µg/g	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	--	< 10	< 10	< 10
F3 (C16-C34)	µg/g	240	< 50	< 50	< 50	< 50	< 50	< 50	< 50	--	< 50	< 50	< 50
F4 (C34-C50)	µg/g	120	< 50	< 50	< 50	< 50	< 50	< 50	< 50	--	< 50	< 50	< 50

TABLE 5

SUMMARY OF PETROLEUM HYDROCARBONS IN SOIL

		Location ID	**SP-S-7**	**SP-S-8**	**SP-S-9**	**SP-S-10**	**SP-S-11**	**SP-S-12**
		Sample ID	**SP-S-7**	**SP-S-8**	**SP-S-9**	**SP-S-10**	**SP-S-11**	**SP-S-12**
		Soil Type	**Silty Sand**	**Silty Sand**	**Silty Sand**	**Silty Sand**	**Silty Sand**	**Silty Sand**
		Depth (mbgs)	**0 - 0.8**	**0 - 0.8**	**0 - 0.8**	**0 - 0.8**	**0 - 0.6**	**0 - 0.5**
		COV/TOV (ppm)	**0/1**	**0/1**	**0/1**	**0/1**	**0/1**	**0/1**
		Sample Date	**27-Mar-24**	**27-Mar-24**	**27-Mar-24**	**27-Mar-24**	**27-Mar-24**	**27-Mar-24**
		Lab Sample ID	**YTI872**	**YTI873**	**YTI874**	**YTI875**	**YTI876**	**YTI877**
		Lab Work Order No.	**C492991**	**C492991**	**C492991**	**C492991**	**C492991**	**C492991**
		Parent Sample						
Parameter	**Units**	**MECP Table 9 SCS**						
F1 (C6-C10)	µg/g	25	< 10	< 10	< 10	< 10	< 10	< 10
F1 (C6-C10)-BTEX	µg/g	25	< 10	< 10	< 10	< 10	< 10	< 10
F2 (C10-C16)	µg/g	10	< 10	< 10	< 10	< 10	< 10	< 10
F3 (C16-C34)	µg/g	240	< 50	< 50	< 50	< 50	< 50	< 50
F4 (C34-C50)	µg/g	120	< 50	< 50	< 50	< 50	< 50	< 50

Table Notes

Units

--	Not Defined, Not Calculated or No Reported Value
mS/cm	milliSiemens per centimetre
ppm	parts per million
µg/g	microgram per gram
µg/l	microgram per litre
mg/l	milligram per litre

Definitions

COV	Combustible Organic Vapour
ESQS	Excess Soil Quality Standard
FD	Field Duplicate
mbgs	metres below ground surface
MECP	Ministry of the Environment, Conservation and Parks
NV	No Published Value
RPD	Relative Percent Difference
SCS	Site Condition Standards
TOV	Total Organic Vapour
<	Less Than Laboratory Analytical Reporting Detection Limit (RDL)

Regulatory Framework

1. Ontario Regulation 153/04-Records of Site Condition (O.Reg. 153/04): "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated 15 April 2011.

2. RPD results compared to the "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, Version 3.1", as amended (MECP, 2021).

MECP Table 9 SCS - Generic SCS for Use within 30 m of a Water Body in a Non-Potable Ground Water Condition:
Residential/Parkland/Institutional/Industrial/Commercial /Community Property Use

87 Result Exceeds MECP Table 9 SCS

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND BTEX IN SOIL

		Location ID	BH/MW2-24	BH/MW2-24	BH/MW3-24	BH/MW3-24	BH/MW3-24	BH/MW4-24	BH/MW4-24	BH1-24	BH1-24	BH1-24
		Sample ID	BH/MW2-24-0-2.5	BH/MW2-24-15-16.5	BH/MW3-24-0-2	DUP-1	BH/MW3-24-18.5-20	BH/MW4-24-0-2.5	BH/MW4-24-15-17.5	BH1-24-0-1.5	BH1-24-10-11.5	BH1-24-20-23.5
		Soil Type	Sandy Silt	Silt	Clayey Silt	Clayey Silt	Silt	Silt	Clayey Silt	Sandy Silt	Sandy Silt	Silt
		Depth (mbgs)	0 - 0.8	4-6 - 5.0	0 - 0.6	0 - 0.6	5.6 - 6.1	0 - 0.8	4.6 - 5.3	0 - 0.5	3 - 3.5	6.1 - 7.2
		COV/TOV (ppm)										
		Sample Date	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24
		Lab Sample ID	YTX641	YTX653	YTX636	YTX649	YTX639	YTX632	YTX634	YTX645	YTX647	YTX648
		Lab Work Order No.	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C495702
		Parent Sample				BH/MW3-24-0-2						
Parameter	**Units**	**MECP Table 9 SCS**										
Acetone (2-Propanone)	µg/g	0.5	--	--	--	--	--	--	--	--	--	< 0.49
Benzene	µg/g	0.02	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.0060
Bromodichloromethane	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Bromoform	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Bromomethane	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Carbon Tetrachloride	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Chlorobenzene	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Chloroform	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Dibromochloromethane	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Dichlorobenzene, 1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Dichlorobenzene, 1,3-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Dichlorobenzene, 1,4-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Dichlorodifluoromethane (FREON 12)	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Dichloroethane, 1,1-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Dichloroethane, 1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.049
Dichloroethylene, 1,1-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Dichloroethylene, cis-1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Dichloroethylene, trans-1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Dichloropropane, 1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Dichloropropene (cis+trans), 1,3-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.050
Dichloropropene, cis-1,3-	µg/g		--	--	--	--	--	--	--	--	--	< 0.030
Dichloropropene, trans-1,3-	µg/g		--	--	--	--	--	--	--	--	--	< 0.040
Ethylbenzene	µg/g	0.05	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.010
Ethylene Dibromide	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Hexane	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Methyl Ethyl Ketone (2-Butanone)	µg/g	0.5	--	--	--	--	--	--	--	--	--	< 0.40
Methyl Isobutyl Ketone	µg/g	0.5	--	--	--	--	--	--	--	--	--	< 0.40
Methyl t-butyl ether (MTBE)	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Methylene Chloride(Dichloromethane)	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.049
Styrene	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Tetrachloroethane, 1,1,1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Tetrachloroethane, 1,1,2,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Tetrachloroethylene	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Toluene	µg/g	0.2	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Trichloroethane, 1,1,1-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Trichloroethane, 1,1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.040
Trichloroethylene	µg/g	0.05	--	--	--	--	--	--	--	--	--	< 0.010
Trichlorofluoromethane (FREON 11)	µg/g	0.25	--	--	--	--	--	--	--	--	--	< 0.040
Vinyl Chloride	µg/g	0.02	--	--	--	--	--	--	--	--	--	< 0.019
Xylene, o-	µg/g		< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Xylene, p+m-	µg/g		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.020
Xylenes, Total	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.020

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND BTEX IN SOIL

			Location ID	SP-N-1	SP-N-2	SP-N-3	SP-N-4	SP-N-4	SP-N-5	SP-N-5	SP-N-6	SP-N-7	SP-N-8
			Sample ID	SP-N-1	SP-N-2	SP-N-3	SP-N-4	DUP-1	SP-N-5	DUP-2	SP-N-6	SP-N-7	SP-N-8
			Soil Type	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth (mbgs)	0 - 0.5	0 - 0.6	0 - 0.6	0 - 0.5	0 - 0.5	0 - 0.6	0 - 0.6	0 - 0.8	0 - 0.6	0 - 0.8
			COV/TOV (ppm)	0/1	0/1	0/1	0/1	0/1	0/0	0/0	0/2	0/3	0/2
			Sample Date	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24
			Lab Sample ID	YTI854	YTI855	YTI856	YTI857	YTI878	YTI858	YTI879	YTI859	YTI860	YTI861
			Lab Work Order No.	C492991	C492991	C492991	C492991	C492991	C492991	C492991	C492991	C492991	C492991
			Parent Sample					SP-N-4		SP-N-5			
Parameter	**Units**	**MECP Table 9 SCS**											
Acetone (2-Propanone)	µg/g	0.5	--	--	--	--	--	--	--	--	--	--	--
Benzene	µg/g	0.02	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Bromodichloromethane	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dichlorobenzene, 1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dichlorobenzene, 1,3-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dichlorobenzene, 1,4-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (FREON 12)	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dichloroethane, 1,1-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dichloroethane, 1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dichloroethylene, 1,1-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dichloroethylene, cis-1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dichloroethylene, trans-1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dichloropropane, 1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dichloropropene (cis+trans), 1,3-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Dichloropropene, cis-1,3-	µg/g		--	--	--	--	--	--	--	--	--	--	--
Dichloropropene, trans-1,3-	µg/g		--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/g	0.05	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Ethylene Dibromide	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Hexane	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Methyl Ethyl Ketone (2-Butanone)	µg/g	0.5	--	--	--	--	--	--	--	--	--	--	--
Methyl Isobutyl Ketone	µg/g	0.5	--	--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether (MTBE)	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride(Dichloromethane)	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethane, 1,1,1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethane, 1,1,2,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethylene	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Toluene	µg/g	0.2	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Trichloroethane, 1,1,1-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Trichloroethane, 1,1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Trichloroethylene	µg/g	0.05	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (FREON 11)	µg/g	0.25	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	µg/g	0.02	--	--	--	--	--	--	--	--	--	--	--
Xylene, o-	µg/g		< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Xylene, p+m-	µg/g		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Xylenes, Total	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND BTEX IN SOIL

		Location ID	SP-N-9	SP-N-10	SP-N-11	SP-N-12	SP-S-1	SP-S-2	SP-S-3	SP-S-3	SP-S-4	SP-S-5
		Sample ID	SP-N-9	SP-N-10	SP-N-11	SP-N-12	SP-S-1	SP-S-2	SP-S-3	DUP-3	SP-S-4	SP-S-5
		Soil Type	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
		Depth (mbgs)	0 - 0.6	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.8	0 - 0.6	0 - 0.6	0 - 0.5	0 - 0.6
		COV/TOV (ppm)	0/1	0/2	0/2	0/2	0/1	0/0	0/2	0/2	0/0	0/0
		Sample Date	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24
		Lab Sample ID	YTI862	YTI863	YTI864	YTI865	YTI866	YTI867	YTI868	YTI880	YTI869	YTI870
		Lab Work Order No.	C492991	C492991	C492991	C492991	C492991	C492991	C492991	C492991	C492991	C492991
		Parent Sample								SP-S-3		
Parameter	**Units**	**MECP Table 9 SCS**										
Acetone (2-Propanone)	µg/g	0.5	--	--	--	--	--	--	--	--	--	--
Benzene	µg/g	0.02	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Bromodichloromethane	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dichlorobenzene, 1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dichlorobenzene, 1,3-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dichlorobenzene, 1,4-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (FREON 12)	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dichloroethane, 1,1-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dichloroethane, 1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dichloroethylene, 1,1-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dichloroethylene, cis-1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dichloroethylene, trans-1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dichloropropane, 1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dichloropropene (cis+trans), 1,3-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Dichloropropene, cis-1,3-	µg/g		--	--	--	--	--	--	--	--	--	--
Dichloropropene, trans-1,3-	µg/g		--	--	--	--	--	--	--	--	--	--
Ethylbenzene	µg/g	0.05	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Ethylene Dibromide	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Hexane	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Methyl Ethyl Ketone (2-Butanone)	µg/g	0.5	--	--	--	--	--	--	--	--	--	--
Methyl Isobutyl Ketone	µg/g	0.5	--	--	--	--	--	--	--	--	--	--
Methyl t-butyl ether (MTBE)	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Methylene Chloride(Dichloromethane)	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Styrene	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Tetrachloroethane, 1,1,1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Tetrachloroethane, 1,1,2,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Tetrachloroethylene	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Toluene	µg/g	0.2	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Trichloroethane, 1,1,1-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Trichloroethane, 1,1,2-	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Trichloroethylene	µg/g	0.05	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (FREON 11)	µg/g	0.25	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	µg/g	0.02	--	--	--	--	--	--	--	--	--	--
Xylene, o-	µg/g		< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Xylene, p+m-	µg/g		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Xylenes, Total	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040

TABLE 6

SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND BTEX IN SOIL

		Location ID	SP-S-6	SP-S-7	SP-S-8	SP-S-9	SP-S-10	SP-S-11	SP-S-12
		Sample ID	SP-S-6	SP-S-7	SP-S-8	SP-S-9	SP-S-10	SP-S-11	SP-S-12
		Soil Type	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
		Depth (mbgs)	0 - 0.6	0 - 0.8	0 - 0.8	0 - 0.8	0 - 0.8	0 - 0.6	0 - 0.5
		COV/TOV (ppm)	0/0	0/1	0/1	0/1	0/1	0/1	0/1
		Sample Date	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24
		Lab Sample ID	YTI871	YTI872	YTI873	YTI874	YTI875	YTI876	YTI877
		Lab Work Order No.	C492991	C492991	C492991	C492991	C492991	C492991	C492991
		Parent Sample							
Parameter	**Units**	**MECP Table 9 SCS**							
Acetone (2-Propanone)	µg/g	0.5	--	--	--	--	--	--	--
Benzene	µg/g	0.02	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Bromodichloromethane	µg/g	0.05	--	--	--	--	--	--	--
Bromoform	µg/g	0.05	--	--	--	--	--	--	--
Bromomethane	µg/g	0.05	--	--	--	--	--	--	--
Carbon Tetrachloride	µg/g	0.05	--	--	--	--	--	--	--
Chlorobenzene	µg/g	0.05	--	--	--	--	--	--	--
Chloroform	µg/g	0.05	--	--	--	--	--	--	--
Dibromochloromethane	µg/g	0.05	--	--	--	--	--	--	--
Dichlorobenzene, 1,2-	µg/g	0.05	--	--	--	--	--	--	--
Dichlorobenzene, 1,3-	µg/g	0.05	--	--	--	--	--	--	--
Dichlorobenzene, 1,4-	µg/g	0.05	--	--	--	--	--	--	--
Dichlorodifluoromethane (FREON 12)	µg/g	0.05	--	--	--	--	--	--	--
Dichloroethane, 1,1-	µg/g	0.05	--	--	--	--	--	--	--
Dichloroethane, 1,2-	µg/g	0.05	--	--	--	--	--	--	--
Dichloroethylene, 1,1-	µg/g	0.05	--	--	--	--	--	--	--
Dichloroethylene, 1,1-	µg/g	0.05	--	--	--	--	--	--	--
Dichloroethylene, cis-1,2-	µg/g	0.05	--	--	--	--	--	--	--
Dichloroethylene, trans-1,2-	µg/g	0.05	--	--	--	--	--	--	--
Dichloropropane, 1,2-	µg/g	0.05	--	--	--	--	--	--	--
Dichloropropene (cis+trans), 1,3-	µg/g	0.05	--	--	--	--	--	--	--
Dichloropropene, cis-1,3-	µg/g		--	--	--	--	--	--	--
Dichloropropene, trans-1,3-	µg/g		--	--	--	--	--	--	--
Ethylbenzene	µg/g	0.05	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Ethylene Dibromide	µg/g	0.05	--	--	--	--	--	--	--
Hexane	µg/g	0.05	--	--	--	--	--	--	--
Methyl Ethyl Ketone (2-Butanone)	µg/g	0.5	--	--	--	--	--	--	--
Methyl Isobutyl Ketone	µg/g	0.5	--	--	--	--	--	--	--
Methyl t-butyl ether (MTBE)	µg/g	0.05	--	--	--	--	--	--	--
Methylene Chloride(Dichloromethane)	µg/g	0.05	--	--	--	--	--	--	--
Styrene	µg/g	0.05	--	--	--	--	--	--	--
Tetrachloroethane, 1,1,1,2-	µg/g	0.05	--	--	--	--	--	--	--
Tetrachloroethane, 1,1,2,2-	µg/g	0.05	--	--	--	--	--	--	--
Tetrachloroethylene	µg/g	0.05	--	--	--	--	--	--	--
Toluene	µg/g	0.2	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Trichloroethane, 1,1,1-	µg/g	0.05	--	--	--	--	--	--	--
Trichloroethane, 1,1,2-	µg/g	0.05	--	--	--	--	--	--	--
Trichloroethylene	µg/g	0.05	--	--	--	--	--	--	--
Trichlorofluoromethane (FREON 11)	µg/g	0.25	--	--	--	--	--	--	--
Vinyl Chloride	µg/g	0.02	--	--	--	--	--	--	--
Xylene, o-	µg/g		< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Xylene, p+m-	µg/g		< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
Xylenes, Total	µg/g	0.05	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040

TABLE 7

SUMMARY OF POLYAROMATIC HYDROCARBONS IN SOIL

		Location ID	BH/MW2-24	BH/MW2-24	BH/MW3-24	BH/MW3-24	BH/MW3-24	BH/MW4-24	BH/MW4-24	BH1-24	BH1-24	SP-N-1	SP-N-2
		Sample ID	BH/MW2-24-0-2.5	BH/MW2-24-15-16.5	BH/MW3-24-0-2	DUP-1	BH/MW3-24-2-5	BH/MW4-24-0-2.5	BH/MW4-24-7.5-10	BH1-24-0-1.5	BH1-24-10-11.5	SP-N-1	SP-N-2
		Soil Type	Sandy Silt	Silt	Clayey Silt	Clayey Silt	Silt	Silt	Clayey Silt	Sandy Silt	Sandy Silt	Silty Sand	Silty Sand
		Depth (mbgs)	0 - 0.8	4-6 - 5.0	0 - 0.6	0 - 0.6	0.6 - 1.5	0 - 0.8	2.3 - 3	0 - 0.5	3 - 3.5	0 - 0.5	0 - 0.6
		COV/TOV (ppm)										0/1	0/1
		Sample Date	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	27-Mar-24	27-Mar-24
		Lab Sample ID	YTX641	YTX653	YTX636	YTX649	YTX637	YTX632	YTX633	YTX645	YTX647	YTI854	YTI855
		Lab Work Order No.	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C492991	C492991
		Parent Sample				BH/MW3-24-0-2							
Parameter	**Units**	**MECP Table 9 SCS**											
Acenaphthene	µg/g	0.072	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Acenaphthylene	µg/g	0.093	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Anthracene	µg/g	0.22	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Benzo(a)anthracene	µg/g	0.36	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.010	0.0069
Benzo(a)pyrene	µg/g	0.3	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.012	0.0081
Benzo(b/j)fluoranthene	µg/g	0.47	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.020	0.012
Benzo(g,h,i)perylene	µg/g	0.68	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0088	0.0054
Benzo(k)fluoranthene	µg/g	0.48	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0064	< 0.0050
Chrysene	µg/g	2.8	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.011	0.0078
Dibenzo(a,h)anthracene	µg/g	0.1	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fluoranthene	µg/g	0.69	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.026	0.017
Fluorene	µg/g	0.19	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Indeno(1,2,3-cd)pyrene	µg/g	0.23	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0089	0.0056
Methylnaphthalene, 1-	µg/g		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Methylnaphthalene, 2-	µg/g		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Methylnaphthalene, 2-(1-)	µg/g	0.59	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071
Naphthalene	µg/g	0.09	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Phenanthrene	µg/g	0.69	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.014	0.0095
Pyrene	µg/g	1	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.020	0.013

TABLE 7

SUMMARY OF POLYAROMATIC HYDROCARBONS IN SOIL

		Location ID	SP-N-3	SP-N-4	SP-N-4		SP-N-5	SP-N-5	SP-N-6	SP-N-7	SP-N-8	SP-N-9	SP-N-10
		Sample ID	SP-N-3	SP-N-4	DUP-1		SP-N-5	DUP-2	SP-N-6	SP-N-7	SP-N-8	SP-N-9	SP-N-10
		Soil Type	Silty Sand	Silty Sand	Silty Sand		Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
		Depth (mbgs)	0 - 0.6	0 - 0.5	0 - 0.5		0 - 0.6	0 - 0.6	0 - 0.8	0 - 0.6	0 - 0.8	0 - 0.6	0 - 0.5
		COV/TOV (ppm)	0/1	0/1	0/1		0/0	0/0	0/2	0/3	0/2	0/1	0/2
		Sample Date	27-Mar-24	27-Mar-24	27-Mar-24		27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24
		Lab Sample ID	YTI856	YTI857	YTI878		YTI858	YTI879	YTI859	YTI860	YTI861	YTI862	YTI863
		Lab Work Order No.	C492991	C492991	C492991		C492991	C492991	C492991	C492991	C492991	C492991	C492991
		Parent Sample			SP-N-4			SP-N-5					
Parameter	**Units**	**MECP Table 9 SCS**				**RPD**							
Acenaphthene	µg/g	0.072	< 0.0050	< 0.0050	< 0.0050	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Acenaphthylene	µg/g	0.093	< 0.0050	< 0.0050	< 0.0050	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Anthracene	µg/g	0.22	< 0.0050	0.012	< 0.0050	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0069
Benzo(a)anthracene	µg/g	0.36	< 0.0050	0.034	0.0082	**122.3%**	< 0.0050	< 0.0050	0.0068	< 0.0050	< 0.0050	< 0.0050	0.021
Benzo(a)pyrene	µg/g	0.3	0.0055	0.034	0.0085	**120.0%**	< 0.0050	< 0.0050	0.0076	< 0.0050	< 0.0050	< 0.0050	0.023
Benzo(b/j)fluoranthene	µg/g	0.47	0.0090	0.046	0.012	**117.2%**	0.0053	0.0071	0.011	0.0079	< 0.0050	0.0062	0.032
Benzo(g,h,i)perylene	µg/g	0.68	< 0.0050	0.017	0.0056	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.014
Benzo(k)fluoranthene	µg/g	0.48	< 0.0050	0.018	< 0.0050	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.011
Chrysene	µg/g	2.8	0.0055	0.032	0.0079	**120.8%**	< 0.0050	< 0.0050	0.0073	< 0.0050	< 0.0050	< 0.0050	0.022
Dibenzo(a,h)anthracene	µg/g	0.1	< 0.0050	< 0.0050	< 0.0050	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fluoranthene	µg/g	0.69	0.013	0.089	0.020	**126.6%**	0.0061	0.0077	0.018	0.0087	< 0.0050	0.0083	0.054
Fluorene	µg/g	0.19	< 0.0050	< 0.0050	< 0.0050	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Indeno(1,2,3-cd)pyrene	µg/g	0.23	< 0.0050	0.019	0.0054	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.015
Methylnaphthalene, 1-	µg/g		< 0.0050	< 0.0050	< 0.0050	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Methylnaphthalene, 2-	µg/g		< 0.0050	< 0.0050	< 0.0050	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Methylnaphthalene, 2-(1-)	µg/g	0.59	< 0.0071	< 0.0071	< 0.0071	--	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071
Naphthalene	µg/g	0.09	< 0.0050	< 0.0050	< 0.0050	--	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Phenanthrene	µg/g	0.69	0.0072	0.060	0.013	**128.8%**	< 0.0050	< 0.0050	0.012	< 0.0050	< 0.0050	< 0.0050	0.035
Pyrene	µg/g	1	0.010	0.068	0.015	**127.7%**	< 0.0050	0.0060	0.014	0.0069	< 0.0050	0.0065	0.042

TABLE 7

SUMMARY OF POLYAROMATIC HYDROCARBONS IN SOIL

		Location ID	SP-N-11	SP-N-12	SP-S-1	SP-S-2	SP-S-3	SP-S-3	SP-S-4	SP-S-5	SP-S-6	SP-S-7	SP-S-8
		Sample ID	SP-N-11	SP-N-12	SP-S-1	SP-S-2	SP-S-3	DUP-3	SP-S-4	SP-S-5	SP-S-6	SP-S-7	SP-S-8
		Soil Type	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
		Depth (mbgs)	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.8	0 - 0.6	0 - 0.6	0 - 0.5	0 - 0.6	0 - 0.6	0 - 0.8	0 - 0.8
		COV/TOV (ppm)	0/2	0/2	0/1	0/0	0/2	0/2	0/0	0/0	0/0	0/1	0/1
		Sample Date	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24
		Lab Sample ID	YTI864	YTI865	YTI866	YTI867	YTI868	YTI880	YTI869	YTI870	YTI871	YTI872	YTI873
		Lab Work Order No.	C492991	C492991	C492991	C492991	C492991	C492991	C492991	C492991	C492991	C492991	C492991
		Parent Sample						SP-S-3					
Parameter	**Units**	**MECP Table 9 SCS**											
Acenaphthene	µg/g	0.072	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Acenaphthylene	µg/g	0.093	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Anthracene	µg/g	0.22	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0052	< 0.0050	0.0065	< 0.0050	0.012
Benzo(a)anthracene	µg/g	0.36	< 0.0050	0.010	0.0088	< 0.0050	0.0086	0.0080	0.017	0.0054	0.023	0.0068	0.039
Benzo(a)pyrene	µg/g	0.3	< 0.0050	0.010	0.012	< 0.0050	0.011	0.011	0.018	0.0060	0.024	0.0082	0.041
Benzo(b/j)fluoranthene	µg/g	0.47	0.0072	0.014	0.018	0.0082	0.019	0.018	0.023	0.0090	0.035	0.014	0.057
Benzo(g,h,i)perylene	µg/g	0.68	< 0.0050	0.0056	0.0094	< 0.0050	0.0083	0.0084	0.0097	< 0.0050	0.015	0.0064	0.025
Benzo(k)fluoranthene	µg/g	0.48	< 0.0050	0.0050	0.0061	< 0.0050	0.0061	0.0065	0.0087	< 0.0050	0.012	< 0.0050	0.020
Chrysene	µg/g	2.8	< 0.0050	0.010	0.0096	< 0.0050	0.010	0.010	0.017	0.0057	0.023	0.0075	0.038
Dibenzo(a,h)anthracene	µg/g	0.1	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0052
Fluoranthene	µg/g	0.69	0.010	0.027	0.021	0.0094	0.022	0.020	0.044	0.013	0.063	0.016	0.096
Fluorene	µg/g	0.19	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Indeno(1,2,3-cd)pyrene	µg/g	0.23	< 0.0050	0.0055	0.0086	< 0.0050	0.0087	0.0086	0.010	< 0.0050	0.016	0.0067	0.026
Methylnaphthalene, 1-	µg/g		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Methylnaphthalene, 2-	µg/g		< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Methylnaphthalene, 2-(1-)	µg/g	0.59	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071
Naphthalene	µg/g	0.09	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Phenanthrene	µg/g	0.69	0.0055	0.017	0.010	< 0.0050	0.0097	0.0098	0.028	0.0075	0.039	0.0082	0.060
Pyrene	µg/g	1	0.0078	0.020	0.017	0.0074	0.017	0.015	0.034	0.011	0.048	0.012	0.074

TABLE 7

SUMMARY OF POLYAROMATIC HYDROCARBONS IN SOIL

			Location ID	SP-S-9	SP-S-10	SP-S-11	SP-S-12
			Sample ID	SP-S-9	SP-S-10	SP-S-11	SP-S-12
			Soil Type	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth (mbgs)	0 - 0.8	0 - 0.8	0 - 0.6	0 - 0.5
			COV/TOV (ppm)	0/1	0/1	0/1	0/1
			Sample Date	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24
			Lab Sample ID	YTI874	YTI875	YTI876	YTI877
			Lab Work Order No.	C492991	C492991	C492991	C492991
			Parent Sample				
Parameter	**Units**	**MECP Table 9 SCS**					
Acenaphthene	µg/g	0.072	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Acenaphthylene	µg/g	0.093	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Anthracene	µg/g	0.22	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Benzo(a)anthracene	µg/g	0.36	0.0064	< 0.0050	0.0050	< 0.0050
Benzo(a)pyrene	µg/g	0.3	0.0081	< 0.0050	0.0062	< 0.0050
Benzo(b/j)fluoranthene	µg/g	0.47	0.012	< 0.0050	0.0096	< 0.0050
Benzo(g,h,i)perylene	µg/g	0.68	0.0063	< 0.0050	< 0.0050	< 0.0050
Benzo(k)fluoranthene	µg/g	0.48	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Chrysene	µg/g	2.8	0.0073	< 0.0050	0.0059	< 0.0050
Dibenzo(a,h)anthracene	µg/g	0.1	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Fluoranthene	µg/g	0.69	0.017	< 0.0050	0.012	< 0.0050
Fluorene	µg/g	0.19	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Indeno(1,2,3-cd)pyrene	µg/g	0.23	0.0056	< 0.0050	< 0.0050	< 0.0050
Methylnaphthalene, 1-	µg/g		< 0.0050	< 0.0050	< 0.0050	< 0.0050
Methylnaphthalene, 2-	µg/g		< 0.0050	< 0.0050	< 0.0050	< 0.0050
Methylnaphthalene, 2-(1-)	µg/g	0.59	< 0.0071	< 0.0071	< 0.0071	< 0.0071
Naphthalene	µg/g	0.09	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Phenanthrene	µg/g	0.69	0.0096	< 0.0050	0.0055	< 0.0050
Pyrene	µg/g	1	0.013	< 0.0050	0.0094	< 0.0050

TABLE 8

SUMMARY OF METALS & INORGANIC PARAMETERS IN SOIL

		Location ID	BH/MW2-24	BH/MW2-24	BH/MW2-24	BH/MW3-24	BH/MW3-24	BH/MW3-24	BH/MW4-24	BH/MW4-24	BH1-24	BH1-24	SP-N-1
		Sample ID	BH/MW2-24-0-2.5	BH/MW2-24-12.5-15	BH/MW2-24-15-16.5	BH/MW3-24-0-2	DUP-1	BH/MW3-24-2-5	BH/MW4-24-0-2.5	BH/MW4-24-7.5-10	BH1-24-0-1.5	BH1-24-10-11.5	SP-N-1
		Soil Type	Sandy Silt	Silt	Silt	Clayey Silt	Clayey Silt	Silt	Silt	Clayey Silt	Sandy Silt	Sandy Silt	Silty Sand
		Depth (mbgs)	0 - 0.8	3.8 - 4.6	4-6 - 5.0	0 - 0.6	0 - 0.6	0.6 - 1.5	0 - 0.8	2.3 - 3	0 - 0.5	3 - 3.5	0 - 0.5
		COV/TOV (ppm)											0/1
		Sample Date	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	01-Apr-24	27-Mar-24
		Lab Sample ID	YTX641	YTX643	YTX653	YTX636	YTX649	YTX637	YTX632	YTX633	YTX645	YTX647	YTI854
		Lab Work Order No.	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C495702	C492991
		Parent Sample					BH/MW3-24-0-2						
Parameter	**Units**	**MECP Table 9 SCS**											
Electrical Conductivity	mS/cm	0.7	0.14	--	0.19	0.22	0.21	0.18	0.36	0.30	0.18	0.19	0.21
pH	pH Unit		7.78	7.89	--	--	--	--	8.00	7.95	--	--	--
Sodium Adsorption Ratio	NONE	5	0.30	--	0.29	0.37	0.36	0.33	0.66	0.53	0.25	0.35	0.22

TABLE 8

SUMMARY OF METALS & INORGANIC PARAMETERS IN SOIL

		Location ID	SP-N-2	SP-N-3	SP-N-4	SP-N-4	RPD	SP-N-5	SP-N-5	RPD	SP-N-6	SP-N-7	SP-N-8
		Sample ID	SP-N-2	SP-N-3	SP-N-4	DUP-1		SP-N-5	DUP-2		SP-N-6	SP-N-7	SP-N-8
		Soil Type	Silty Sand	Silty Sand	Silty Sand	Silty Sand		Silty Sand	Silty Sand		Silty Sand	Silty Sand	Silty Sand
		Depth (mbgs)	0 - 0.6	0 - 0.6	0 - 0.5	0 - 0.5		0 - 0.6	0 - 0.6		0 - 0.8	0 - 0.6	0 - 0.8
		COV/TOV (ppm)	0/1	0/1	0/1	0/1		0/0	0/0		0/2	0/3	0/2
		Sample Date	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24		27-Mar-24	27-Mar-24		27-Mar-24	27-Mar-24	27-Mar-24
		Lab Sample ID	YTI855	YTI856	YTI857	YTI878		YTI858	YTI879		YTI859	YTI860	YTI861
		Lab Work Order No.	C492991	C492991	C492991	C492991		C492991	C492991		C492991	C492991	C492991
		Parent Sample				SP-N-4			SP-N-5				
Parameter	**Units**	**MECP Table 9 SCS**											
Electrical Conductivity	mS/cm	0.7	0.20	0.19	0.19	0.21	10.0%	0.21	0.21	0.0%	0.21	0.20	0.21
pH	pH Unit		--	--	--	--	--	--	--	--	--	--	--
Sodium Adsorption Ratio	NONE	5	0.23	0.23	0.24	0.23	-	0.23	0.22	-	0.22	0.22	0.23

TABLE 8

SUMMARY OF METALS & INORGANIC PARAMETERS IN SOIL

		Location ID	SP-N-9	SP-N-10	SP-N-11	SP-N-12	SP-S-1	SP-S-2	SP-S-3	SP-S-3	RPD	SP-S-4	SP-S-5
		Sample ID	SP-N-9	SP-N-10	SP-N-11	SP-N-12	SP-S-1	SP-S-2	SP-S-3	DUP-3		SP-S-4	SP-S-5
		Soil Type	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand		Silty Sand	Silty Sand
		Depth (mbgs)	0 - 0.6	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.8	0 - 0.6	0 - 0.6		0 - 0.5	0 - 0.6
		COV/TOV (ppm)	0/1	0/2	0/2	0/2	0/1	0/0	0/2	0/2		0/0	0/0
		Sample Date	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24		27-Mar-24	27-Mar-24
		Lab Sample ID	YTI862	YTI863	YTI864	YTI865	YTI866	YTI867	YTI868	YTI880		YTI869	YTI870
		Lab Work Order No.	C492991	C492991	C492991	C492991	C492991	C492991	C492991	C492991		C492991	C492991
		Parent Sample								SP-S-3			
Parameter	**Units**	**MECP Table 9 SCS**											
Electrical Conductivity	mS/cm	0.7	0.23	0.21	0.19	0.20	0.16	0.20	0.16	0.19	**17.1%**	0.21	0.24
pH	pH Unit		--	--	--	--	--	--	--	--	--	--	--
Sodium Adsorption Ratio	NONE	5	0.22	0.22	0.23	0.23	0.25	0.22	0.25	0.23	-	0.23	0.21

TABLE 8

SUMMARY OF METALS & INORGANIC PARAMETERS IN SOIL

			Location ID	SP-S-6	SP-S-7	SP-S-8	SP-S-9	SP-S-10	SP-S-11	SP-S-12
			Sample ID	SP-S-6	SP-S-7	SP-S-8	SP-S-9	SP-S-10	SP-S-11	SP-S-12
			Soil Type	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand	Silty Sand
			Depth (mbgs)	0 - 0.6	0 - 0.8	0 - 0.8	0 - 0.8	0 - 0.8	0 - 0.6	0 - 0.5
			COV/TOV (ppm)	0/0	0/1	0/1	0/1	0/1	0/1	0/1
			Sample Date	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24	27-Mar-24
			Lab Sample ID	YTI871	YTI872	YTI873	YTI874	YTI875	YTI876	YTI877
			Lab Work Order No.	C492991	C492991	C492991	C492991	C492991	C492991	C492991
			Parent Sample							
Parameter	**Units**	**MECP Table 9 SCS**								
Electrical Conductivity	mS/cm	0.7		0.23	0.22	0.32	0.23	0.18	0.30	0.20
pH	pH Unit			--	--	--	--	--	--	--
Sodium Adsorption Ratio	NONE	5		0.22	0.23	0.22	0.22	0.25	0.18	0.22

TABLE 9

ANALYTICAL RESULTS FOR PETROLEUM HYDROCARBONS AND BTEX IN GROUNDWATER

		Location ID	**BH/MW2-24**	**BH/MW3-24**	**BH/MW3-24**	**BH/MW4-24**	**FIELDQC**
		Sample ID	**BH/MW2-24**	**BHX**	**BH/MW3-24**	**BH/MW4-24**	**TRIP BLANK**
		Sample Date	**23-Apr-24**	**23-Apr-24**	**23-Apr-24**	**23-Apr-24**	**23-Apr-24**
		Lab Sample ID	**YZA416**	**YZA419**	**YZA417**	**YZA418**	**YZA420**
		Lab Work Order No.	**C4C0683**	**C4C0683**	**C4C0683**	**C4C0683**	**C4C0683**
		Parent Sample		**FD of BH/MW3-24**			
Parameter	**Units**	**MECP Table 9 SCS**					
Benzene	µg/L	44	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Toluene	µg/L	14000	< 0.20	< 0.20	< 0.20	0.31	< 0.20
Ethylbenzene	µg/L	1800	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Xylene, o-	µg/L		< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Xylene, p+m-	µg/L		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Xylenes, Total	µg/L	3300	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
F1 (C6-C10)	µg/L	420	< 25	< 25	< 25	< 25	< 25
F1 (C6-C10)-BTEX	µg/L	420	< 25	< 25	< 25	< 25	< 25
F2 (C10-C16)	µg/L	150	< 100	< 100	< 100	< 100	--
F3 (C16-C34)	µg/L	500	< 200	< 200	< 200	< 200	--
F4 (C34-C50)	µg/L	500	< 200	< 200	< 200	< 200	--

TABLE 10

ANALYTICAL RESULTS FOR POLYCYCLIC AROMATIC HYDROCARBONS IN GROUNDWATER

		Location ID	BH/MW2-24	BH/MW3-24	BH/MW3-24	BH/MW4-24
		Sample ID	BH/MW2-24	BHX	BH/MW3-24	BH/MW4-24
		Sample Date	23-Apr-24	23-Apr-24	23-Apr-24	23-Apr-24
		Lab Sample ID	YZA416	YZA419	YZA417	YZA418
		Lab Work Order No.	C4C0683	C4C0683	C4C0683	C4C0683
		Parent Sample		FD of BH/MW3-24		
Parameter	**Units**	**MECP Table 9 SCS**				
Acenaphthene	µg/L	600	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthylene	µg/L	1.4	< 0.050	< 0.050	< 0.050	< 0.050
Anthracene	µg/L	1	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(a)anthracene	µg/L	1.8	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(a)pyrene	µg/L	0.81	< 0.0090	< 0.0090	< 0.0090	< 0.0090
Benzo(b/j)fluoranthene	µg/L	0.75	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(g,h,i)perylene	µg/L	0.2	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(k)fluoranthene	µg/L	0.4	< 0.050	< 0.050	< 0.050	< 0.050
Chrysene	µg/L	0.7	< 0.050	< 0.050	< 0.050	< 0.050
Dibenzo(a,h)anthracene	µg/L	0.4	< 0.050	< 0.050	< 0.050	< 0.050
Fluoranthene	µg/L	73	< 0.050	< 0.050	< 0.050	< 0.050
Fluorene	µg/L	290	< 0.050	< 0.050	< 0.050	< 0.050
Indeno(1,2,3-cd)pyrene	µg/L	0.2	< 0.050	< 0.050	< 0.050	< 0.050
Methylnaphthalene, 1-	µg/L		< 0.050	< 0.050	< 0.050	< 0.050
Methylnaphthalene, 2-	µg/L		< 0.050	< 0.050	< 0.050	< 0.050
Methylnaphthalene, 2-(1-)	µg/L	1500	< 0.071	< 0.071	< 0.071	< 0.071
Naphthalene	µg/L	1400	< 0.050	< 0.050	< 0.050	< 0.050
Phenanthrene	µg/L	380	< 0.030	< 0.030	< 0.030	< 0.030
Pyrene	µg/L	5.7	< 0.050	< 0.050	< 0.050	< 0.050

TABLE 11

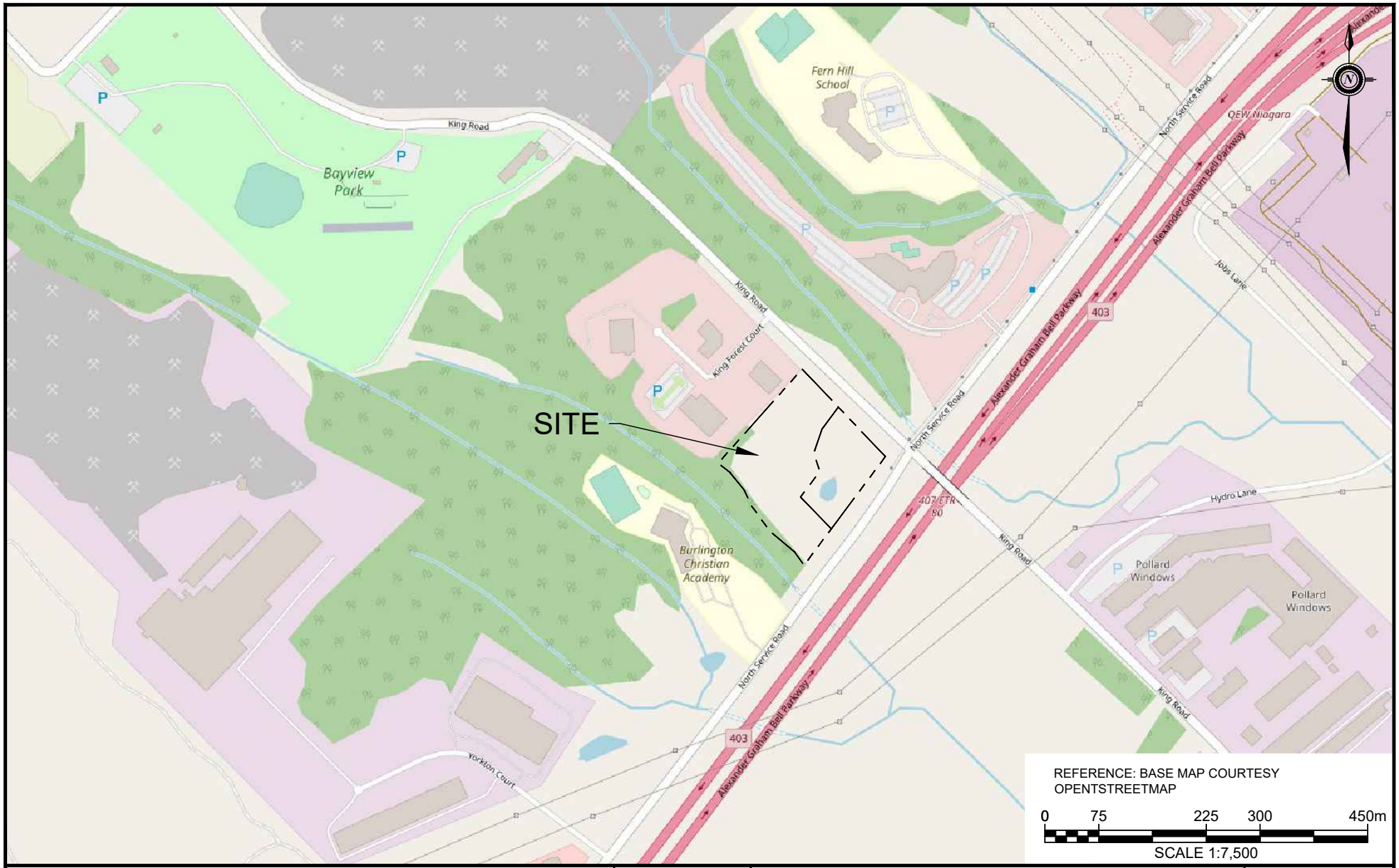
ANALYTICAL RESULTS FOR SODIUM AND CHLORIDE IN GROUNDWATER

		Location ID	BH/MW2-24	BH/MW3-24	BH/MW3-24	RPD	BH/MW4-24
		Sample ID	BH/MW2-24	BHX	BH/MW3-24		BH/MW4-24
		Sample Date	23-Apr-24	23-Apr-24	23-Apr-24		23-Apr-24
		Lab Sample ID	YZA416	YZA419	YZA417		YZA418
		Lab Work Order No.	C4C0683	C4C0683	C4C0683		C4C0683
		Parent Sample		FD of BH/MW3-24			
Parameter	**Units**	**MECP Table 9 SCS**					
Sodium	µg/L	1800000	22000	160000	160000	0.0%	87000
Chloride	mg/L	1800	5.1	36	35	2.8%	5.4

TABLE 12
SUMMARY OF TCLP LEACHATE IN SOIL

Parameter	Units	Location ID Sample ID Sample Date Lab Sample ID Lab Work Order No. O.REG347 SCH4	TCLP TCLP-01 01-Apr-24 YTX651 C495702	TCLP TCLP-02 01-Apr-24 YTX652 C495702
Herbicides, Pesiticides and PCBs				
Polychlorinated Biphenyls (PCBs)	mg/L	0.3	< 0.0030	< 0.0030
Metals & Inorganics				
Arsenic	mg/L	2.5	< 0.2	< 0.2
Barium	mg/L	100	0.7	1.4
Boron	mg/L	500	0.1	0.1
Cadmium	mg/L	0.5	< 0.05	< 0.05
Chromium	mg/L	5	< 0.1	< 0.1
Lead	mg/L	5	< 0.1	< 0.1
Mercury	mg/L	0.1	< 0.001	< 0.001
Selenium	mg/L	1	< 0.1	< 0.1
Silver	mg/L	5	< 0.01	< 0.01
Uranium	mg/L	10	< 0.01	0.01
Cyanide (CN-) WAD	mg/L	20	< 0.010	< 0.010
Fluoride (F)	mg/L	150	0.30	0.28
Nitrate (N)	mg/L	1000	< 1.0	< 1.0
Nitrite-N	mg/L	1000	< 0.10	< 0.10
Nitrate and Nitrite as N	mg/L	1000	< 1.0	< 1.0
Semi-Volatile Organic Compounds (SVOCs)				
Benzo(a)pyrene	mg/L	0.001	< 0.00010	< 0.00010
Volatile Organic Compounds (VOCs)				
Benzene	mg/L	0.5	< 0.020	< 0.020
Carbon Tetrachloride	mg/L	0.5	< 0.020	< 0.020
Chlorobenzene	mg/L	8	< 0.020	< 0.020
Chloroform	mg/L	10	< 0.020	< 0.020
Dichlorobenzene, 1,2-	mg/L	20	< 0.050	< 0.050
Dichlorobenzene, 1,4-	mg/L	0.5	< 0.050	< 0.050
Dichloroethane, 1,2-	mg/L	0.5	< 0.050	< 0.050
Dichloroethylene, 1,1-	mg/L	1.4	< 0.020	< 0.020
Methylene Chloride(Dichloromethane)	mg/L	5	< 0.20	< 0.20
Methyl Ethyl Ketone (2-Butanone)	mg/L	200	< 1.0	< 1.0
Tetrachloroethylene	mg/L	3	< 0.020	< 0.020
Trichloroethylene	mg/L	5	< 0.020	< 0.020
Vinyl Chloride	mg/L	0.2	< 0.020	< 0.020

Figures



CLIENT
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY:	ZF
CHK'D BY:	IP
DATUM:	NAD 83
PROJECTION:	UTM ZONE 17
SCALE:	AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
KEY PLAN

REV. NO.:	A
DATE:	MAY 2024
PROJECT NO:	CA0023482.2117
DRAWING No.	1

C:\Users\WDS_ZH~1.FUR\AppData\Local\Temp\AcPublish_31600\CA0023482.2117_0001-HS-Phase_Two_ESA.dwg – Figure 1 – Jun. 10, 2024 12:49pm – wds_zhanna.furman



LEGEND:

- PHASE TWO PROPERTY
- GROUNDWATER MONITORING WELL

REFERENCE: BASE MAP COURTESY ARCGIS

0 30 60 90m

SCALE 1:1,500

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY:	ZF
CHK'D BY:	IP
DATUM:	NAD 83
PROJECTION:	UTM ZONE 17
SCALE:	AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GENERALIZED SITE PLAN

DATE:	MAY 2024
PROJECT NO:	CA0023482.2117
REV. NO.:	A
DRAWING No.	2



No.	POTENTIALLY CONTAMINATING ACTIVITY (PCA)
1	OTHER - DE-ICING ACTIVITIES

LEGEND:

- PHASE TWO PROPERTY
- PHASE TWO STUDY AREA
- PCA1 POTENTIALLY CONTAMINATING ACTIVITY

REFERENCE: BASE MAP COURTESY ARCGIS

0 50 100 150 200m

SCALE 1:4,000

CLIENT: ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY:	ZF
CHK'D BY:	IP
DATUM:	NAD 83
PROJECTION:	UTM ZONE 17
SCALE:	AS SHOWN

PROJECT: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE: POTENTIALLY CONTAMINATING ACTIVITIES WITHIN THE PHASE TWO STUDY AREA

DATE:	MAY 2024
PROJECT NO:	CA0023482.2117
REV. NO.:	A
DRAWING No.	3

C:\Users\WDS_ZH~1.FUR\AppData\Local\Temp\AcPublish_31600\CA0023482.2117_0001-HS-Phase_Two_ESA.dwg – Figure 3 – Jun. 10, 2024 12:49pm – wds_zhanna.furman

OVERGROWN SOIL STOCKPILE SP1

APEC-2A

PROPOSED STORM WATER MANAGEMENT POND (SWMP)

KING ROAD

INDIAN CREEK

APEC-1

SPARSELY VEGETATED AREA

CITY OF BURLINGTON LANDS

ASTRA LANDS

STORM WATER MANAGEMENT POND

APEC-2B

NORTH SERVICE ROAD

HIGHWAY 403

OVERGROWN SOIL STOCKPILE SP2

APEC-2C

#	POTENTIALLY CONTAMINATING ACTIVITY (PCA)
APEC-1	DE-ICING ACTIVITIES CONDUCTED ON ADJACENT ROADWAYS
APEC-2A	DE-ICING ACTIVITIES CONDUCTED ON ADJACENT ROADWAYS AND ASSOCIATED RUNOFF
APEC-2B	
APEC-2C	

LEGEND:

PHASE TWO PROPERTY

GROUNDWATER MONITORING WELL

AREA OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)

REFERENCE: BASE MAP COURTESY ARCGIS

0 30 60 90m

SCALE 1:1,500

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

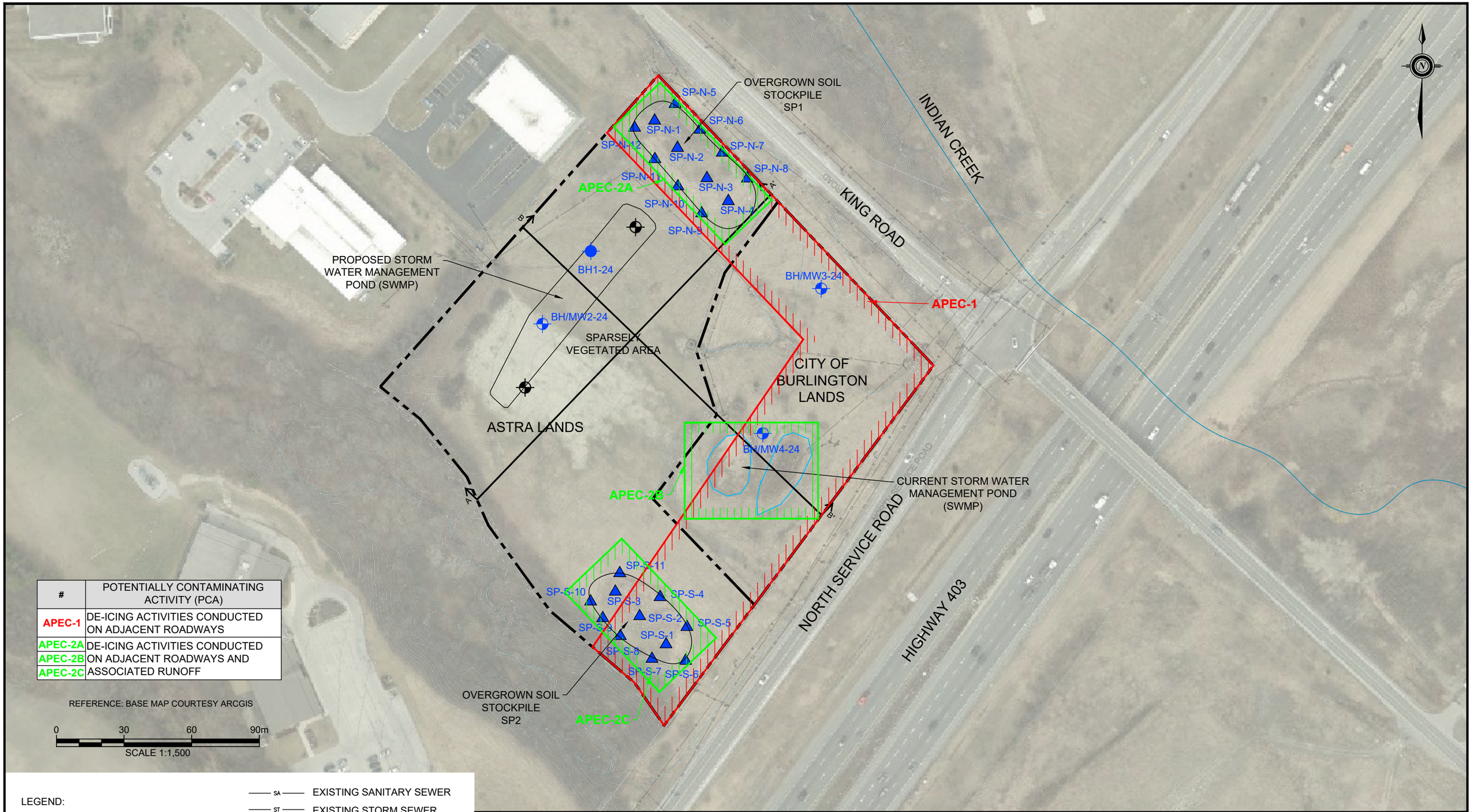
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50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
CHK'D BY: IP
DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 4



#	POTENTIALLY CONTAMINATING ACTIVITY (PCA)
APEC-1	DE-ICING ACTIVITIES CONDUCTED ON ADJACENT ROADWAYS
APEC-2A	DE-ICING ACTIVITIES CONDUCTED ON ADJACENT ROADWAYS AND ASSOCIATED RUNOFF
APEC-2B	
APEC-2C	

LEGEND:

- PHASE TWO PROPERTY
- GROUNDWATER MONITORING WELL
- AREA OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)
- STOCKPILE SAMPLE
- BOREHOLE
- MONITORING WELL
- SA — EXISTING SANITARY SEWER
- ST — EXISTING STORM SEWER
- G — EXISTING GAS LINE
- B — EXISTING BELL LINE
- W — EXISTING WATERMAIN
- OH — EXISTING OVERHEAD HYDRO
- TR — EXISTING TRAFFIC SIGNALS
- CROSS-SECTION LINE

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

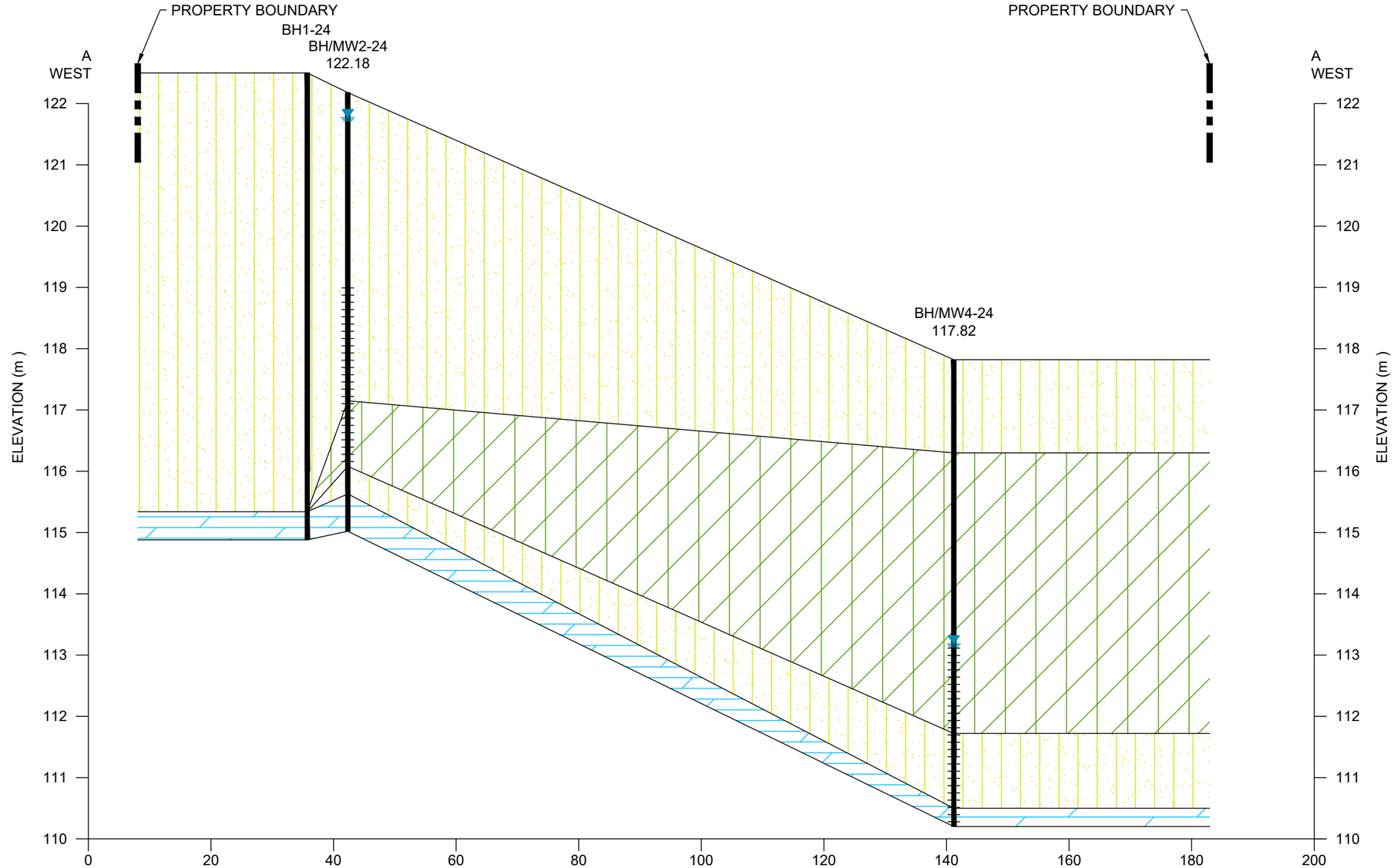
WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
CHK'D BY: IP
DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
BOREHOLE, MONITORING WELL AND STOCKPILE SAMPLING LOCATIONS

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 5



0 7.5 15 30 45m

HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m

VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024
- BH/MW2-24 / 122.18 — BOREHOLE LABEL / BOREHOLE ELEVATION
- WELL SCREEN

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

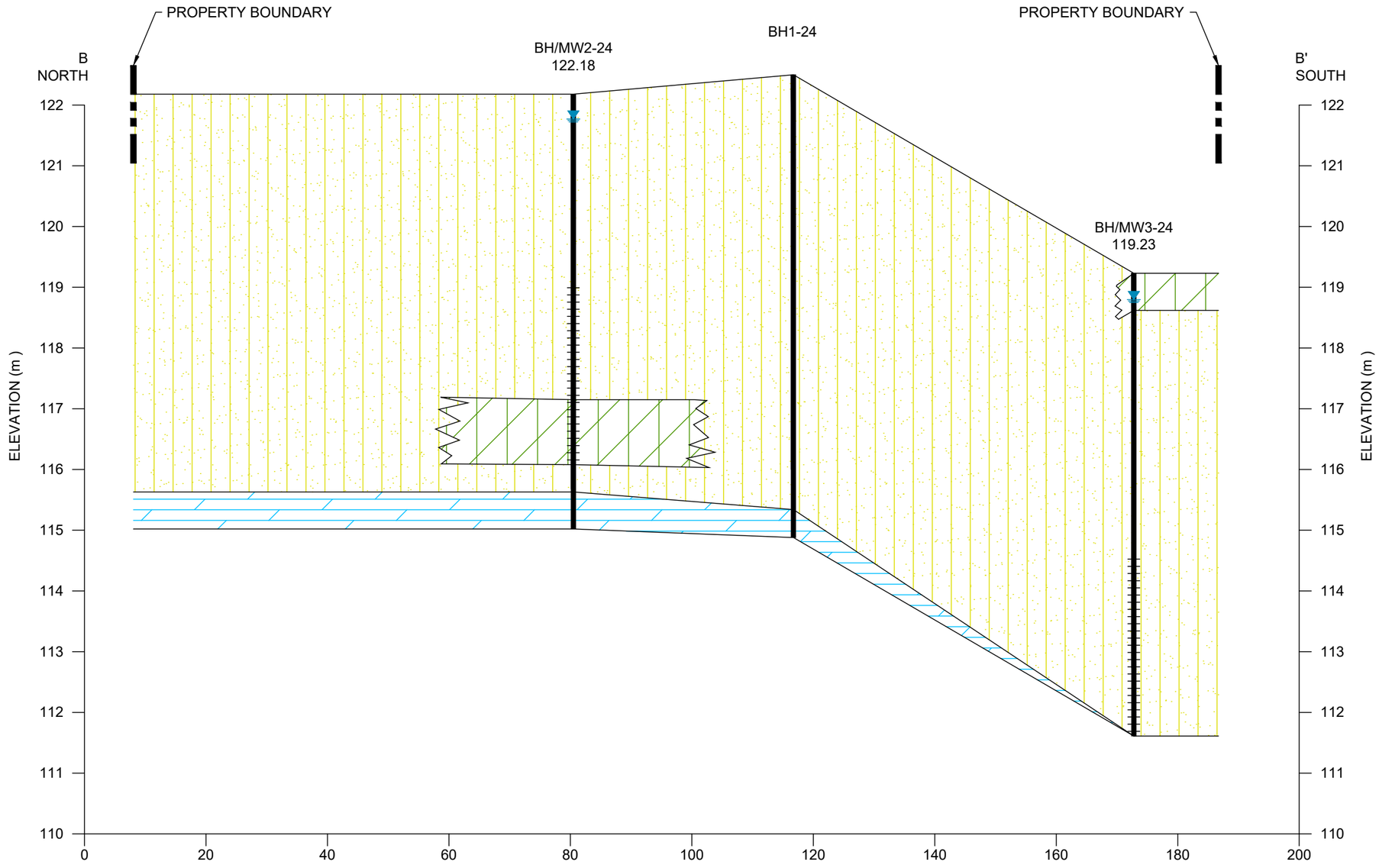
WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
CHK'D BY: IP
DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GEOLOGIC CROSS-SECTION A-A'

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 6



0 7.5 15 30 45m

HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m

VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024
- BH/MW2-24 122.18 — BOREHOLE LABEL / BOREHOLE ELEVATION
- WELL SCREEN

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

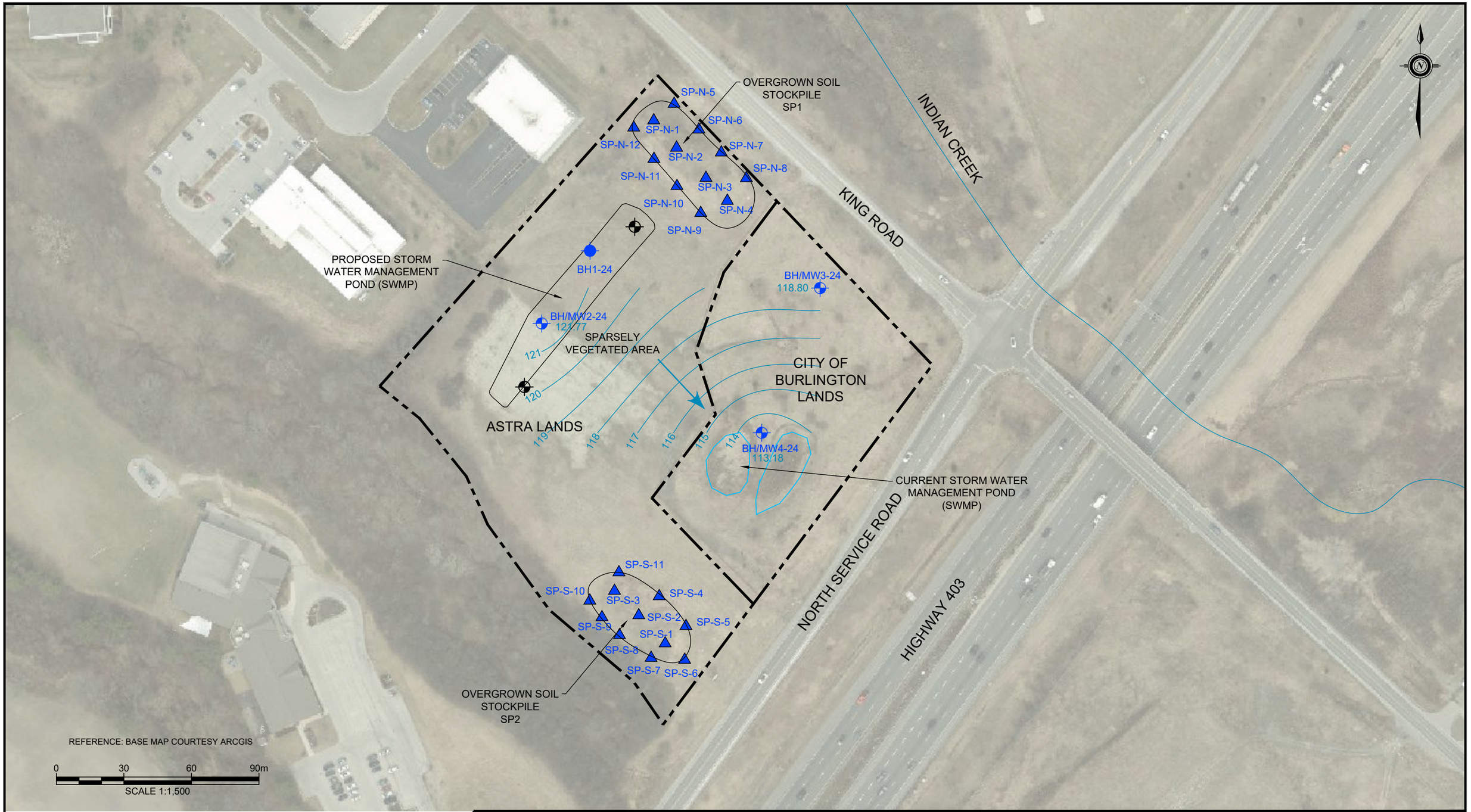
WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
CHK'D BY: IP
DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GEOLOGIC CROSS-SECTION B-B'

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 7



LEGEND:

- PHASE TWO PROPERTY
- GROUNDWATER MONITORING WELL
- STOCKPILE SAMPLE
- BOREHOLE
- MONITORING WELL
- 121.71 GROUNDWATER ELEVATION
- INFERRED GROUNDWATER FLOW DIRECTION

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

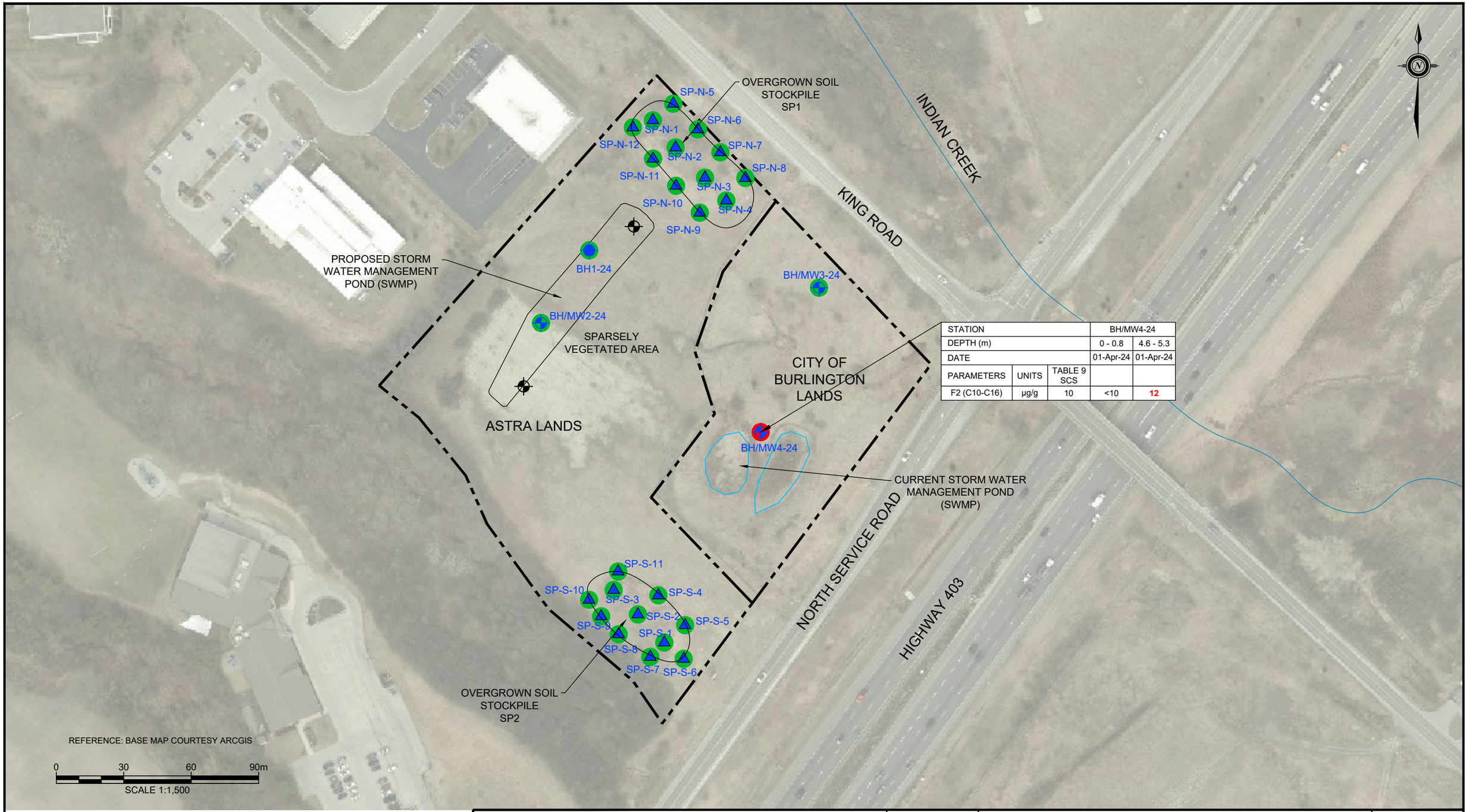
DWN BY:	ZF
CHK'D BY:	IP
DATUM:	NAD 83
PROJECTION:	UTM ZONE 17
SCALE:	AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GROUNDWATER ELEVATION CONTOUR PLAN
10 APRIL 2024

DATE:	MAY 2024
PROJECT NO:	CA0023482.2117
REV. NO.:	A
DRAWING No.	8

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STATION			BH/MW4-24	
DEPTH (m)			0 - 0.8	4.6 - 5.3
DATE			01-Apr-24	01-Apr-24
PARAMETERS	UNITS	TABLE 9 SCS		
F2 (C10-C16)	µg/g	10	<10	**12**

LEGEND:

- PHASE TWO PROPERTY
- GROUNDWATER MONITORING WELL
- STOCKPILE SAMPLE
- BOREHOLE
- MONITORING WELL
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

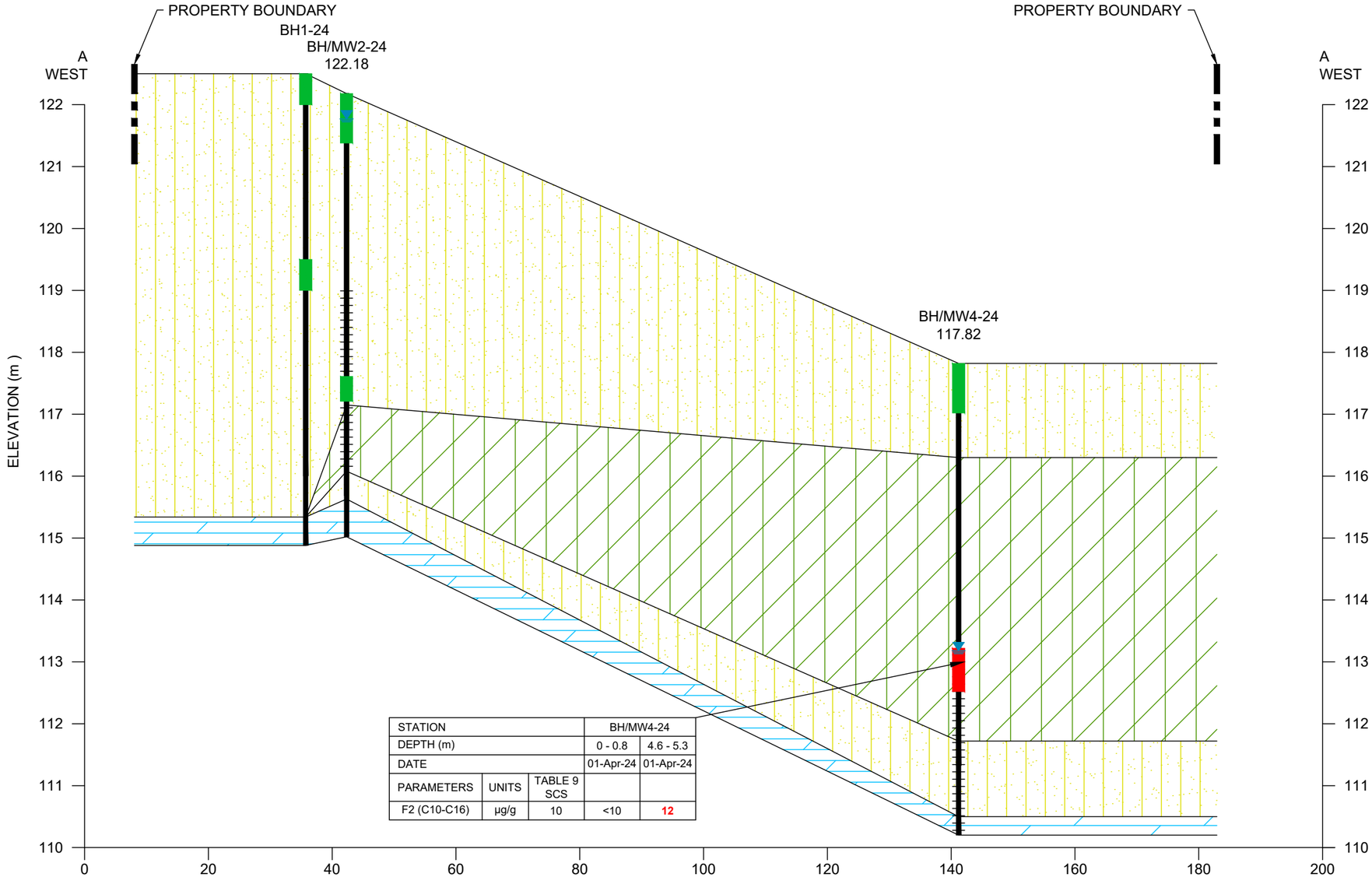
WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

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CHK'D BY: IP
DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
SOIL ANALYTICAL RESULTS IN PLAN VIEW FOR PETROLEUM HYDROCARBONS AND BTEX

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 9



STATION			BH/MW4-24	
DEPTH (m)			0 - 0.8	4.6 - 5.3
DATE			01-Apr-24	01-Apr-24
PARAMETERS	UNITS	TABLE 9 SCS		
F2 (C10-C16)	µg/g	10	<10	12

0 7.5 15 30 45m
HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m
VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024
- BH/MW2-24 122.18 — BOREHOLE LABEL / BOREHOLE ELEVATION
- WELL SCREEN
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

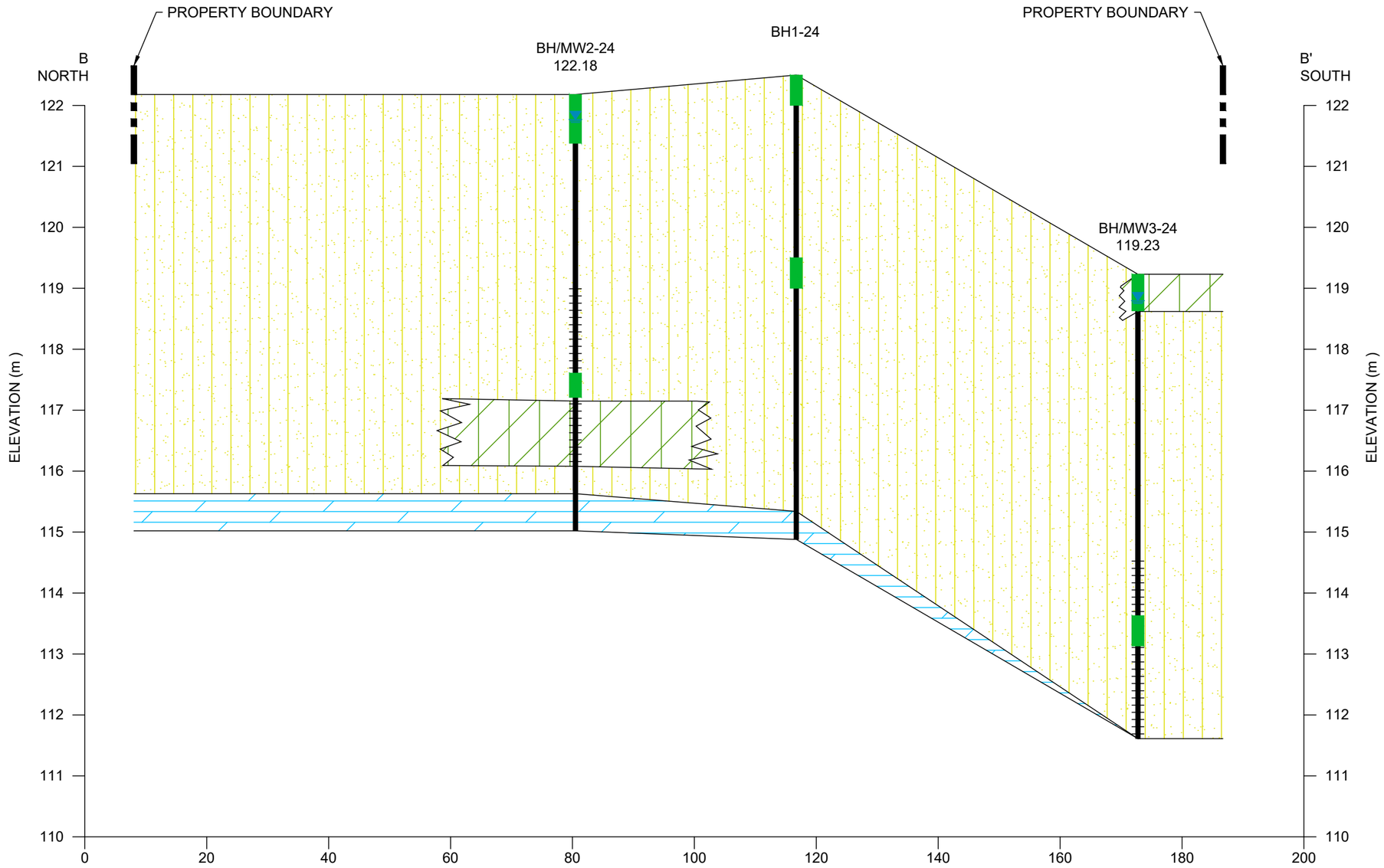
WSP Canada Inc.
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DWN BY: ZF
CHK'D BY: IP
DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
SOIL ANALYTICAL RESULTS -
CROSS SECTION A-A' - FOR
PETROLEUM HYDROCARBONS AND BTEX

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 10



0 7.5 15 30 45m

HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m

VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024
- BH/MW2-24 122.18 — BOREHOLE LABEL / BOREHOLE ELEVATION
- WELL SCREEN
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

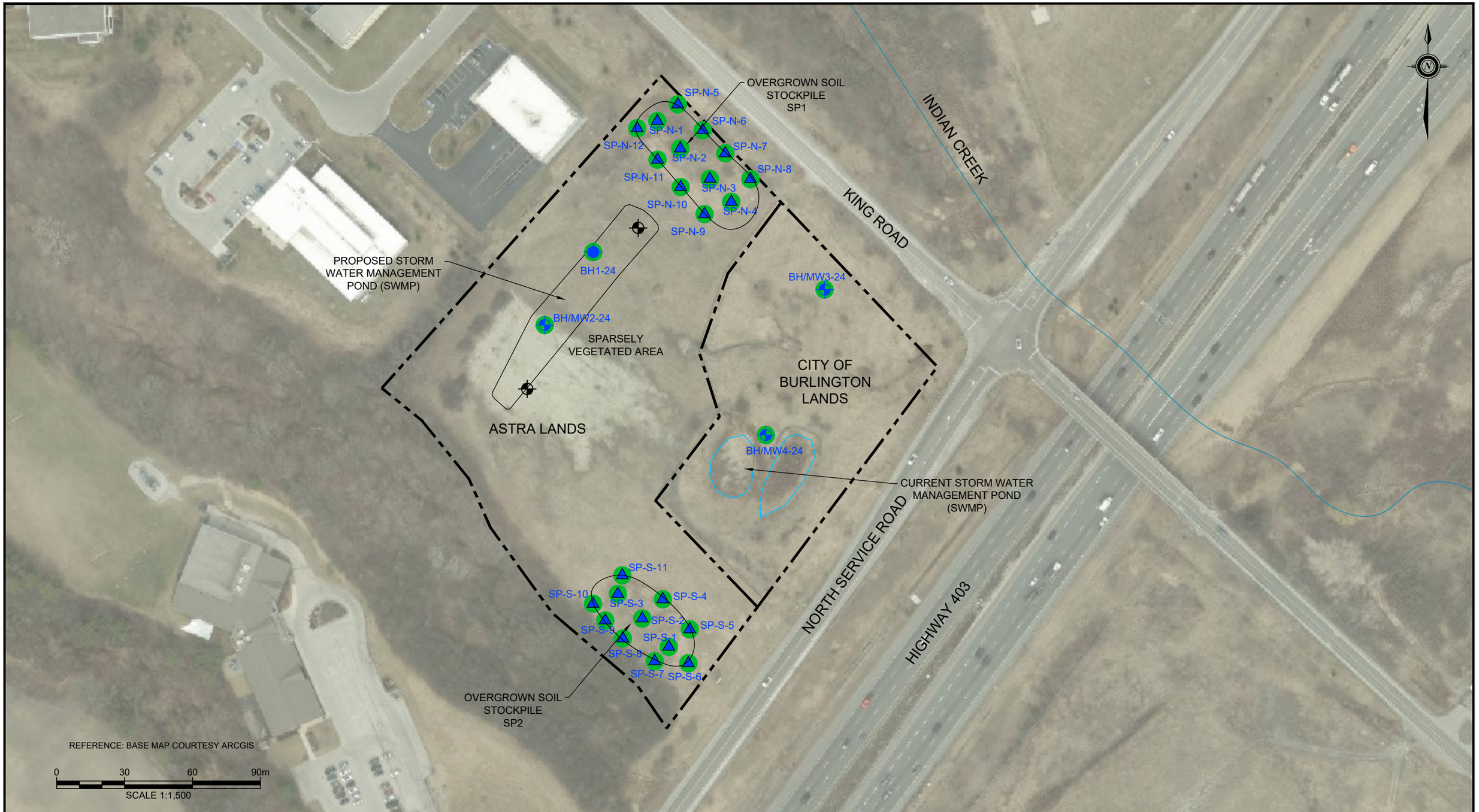
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DWN BY: ZF
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DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
SOIL ANALYTICAL RESULTS -
CROSS SECTION B-B' - FOR
PETROLEUM HYDROCARBONS AND BTEX

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 11



LEGEND:

- PHASE TWO PROPERTY
- GROUNDWATER MONITORING WELL
- STOCKPILE SAMPLE
- BOREHOLE
- MONITORING WELL
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

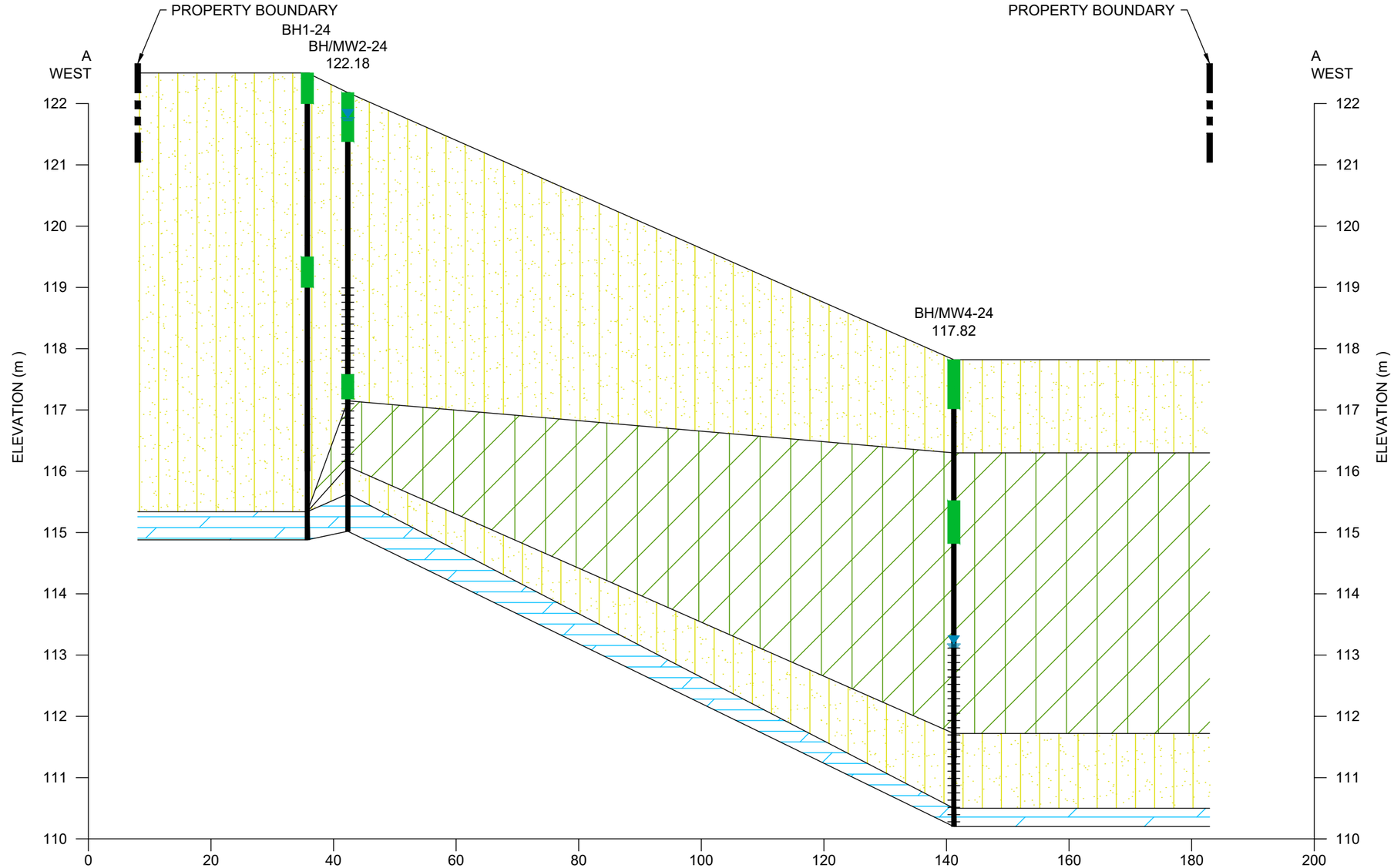
WSP Canada Inc.
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Richmond Hill, Ontario L4B 3K6

DWN BY:	ZF
CHK'D BY:	IP
DATUM:	NAD 83
PROJECTION:	UTM ZONE 17
SCALE:	AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
SOIL ANALYTICAL RESULTS IN PLAN VIEW FOR POLYCYCLIC AROMATIC HYDROCARBONS

DATE:	MAY 2024
PROJECT NO:	CA0023482.2117
REV. NO.:	A
DRAWING No.	12



0 7.5 15 30 45m
HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m
VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024

BH/MW2-24 122.18 BOREHOLE LABEL / BOREHOLE ELEVATION

- WELL SCREEN
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

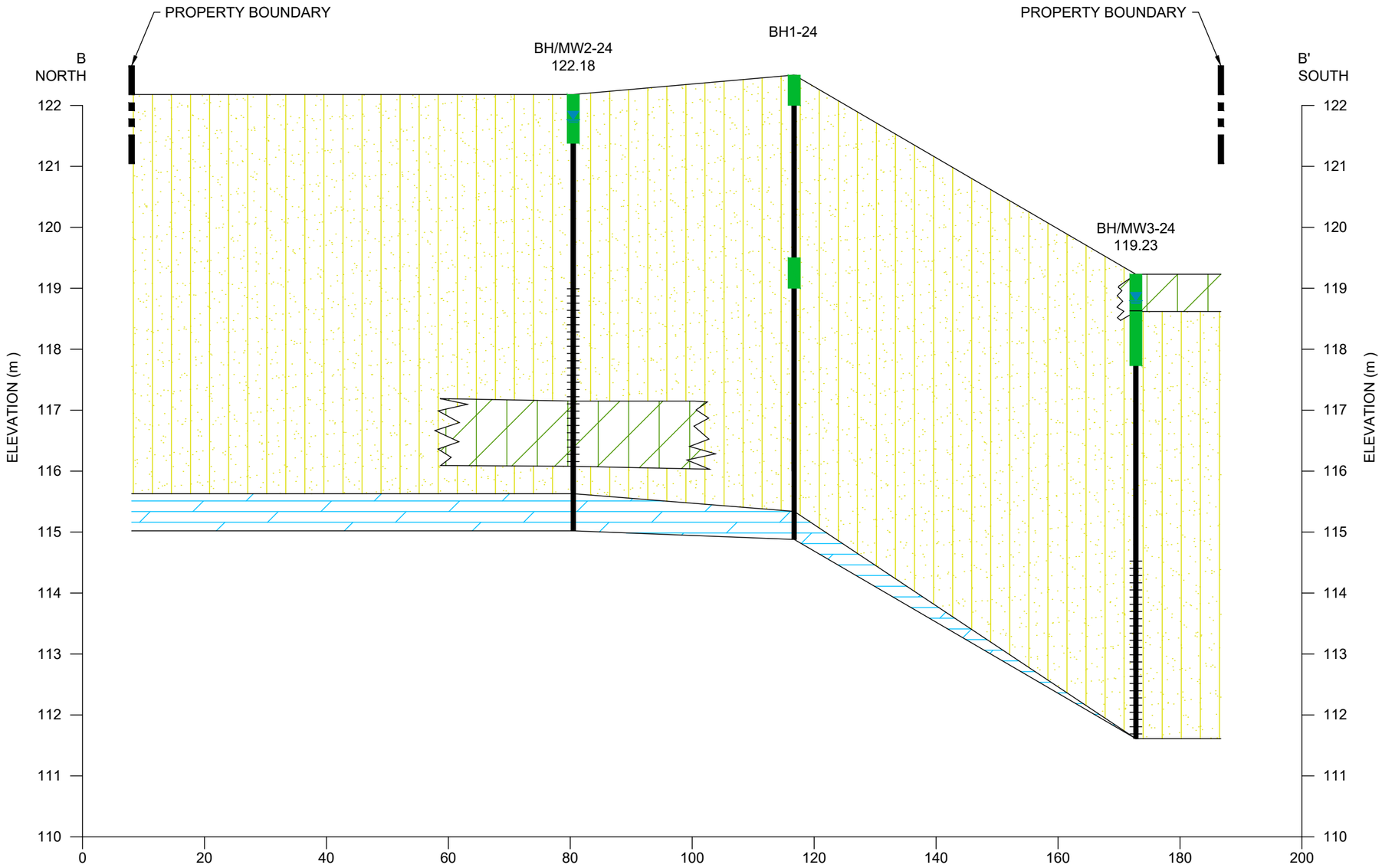
WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
CHK'D BY: IP
DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
SOIL ANALYTICAL RESULTS -
CROSS SECTION A-A' - FOR
POLYCYCLIC AROMATIC HYDROCARBONS

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 13



0 7.5 15 30 45m

HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m

VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024
- BH/MW2-24 122.18 — BOREHOLE LABEL / BOREHOLE ELEVATION
- WELL SCREEN
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

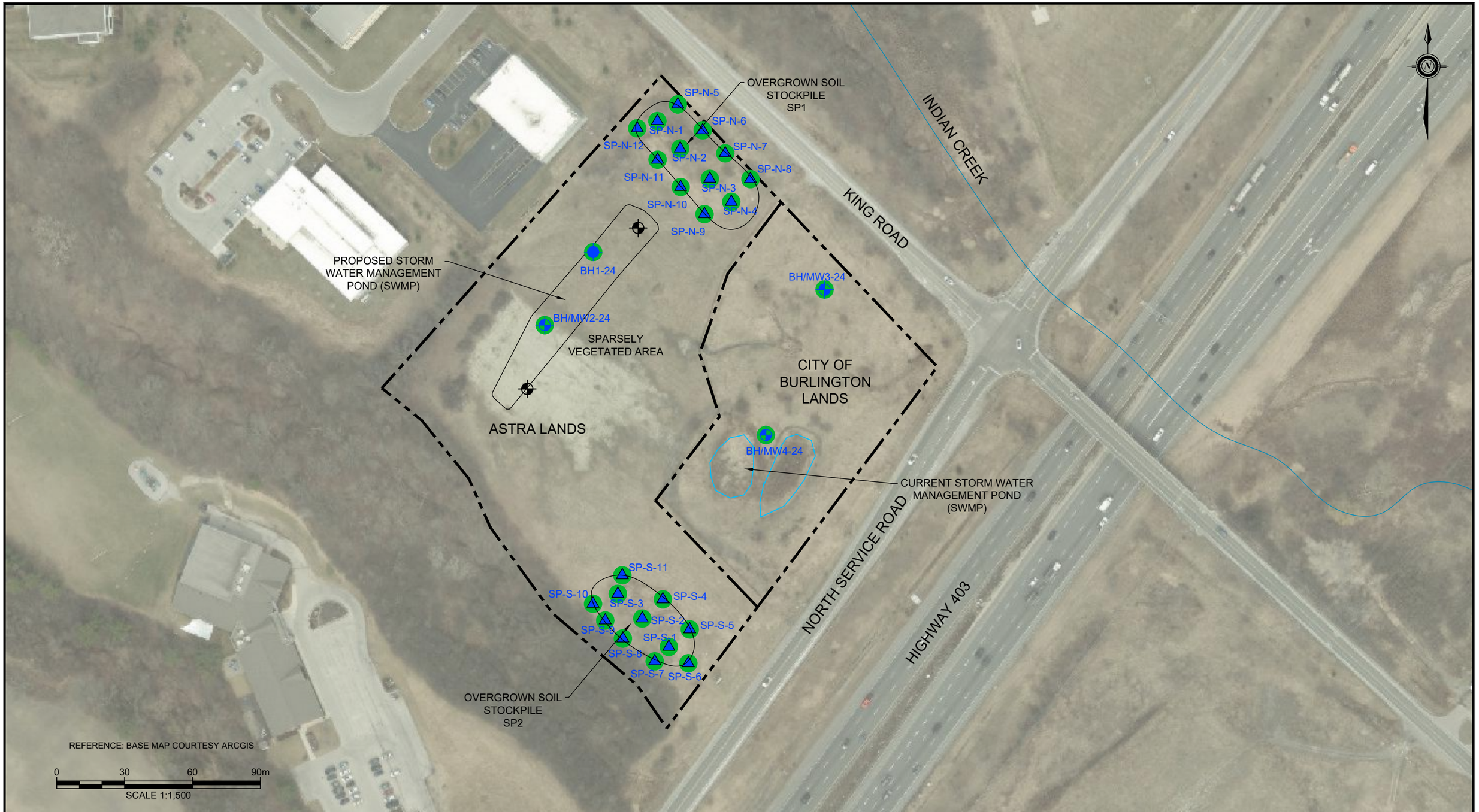
WSP Canada Inc.
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Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
CHK'D BY: IP
DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
SOIL ANALYTICAL RESULTS -
CROSS SECTION B-B' - FOR
POLYCYCLIC AROMATIC HYDROCARBONS

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 14



LEGEND:

- PHASE TWO PROPERTY
- GROUNDWATER MONITORING WELL
- STOCKPILE SAMPLE
- BOREHOLE
- MONITORING WELL
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

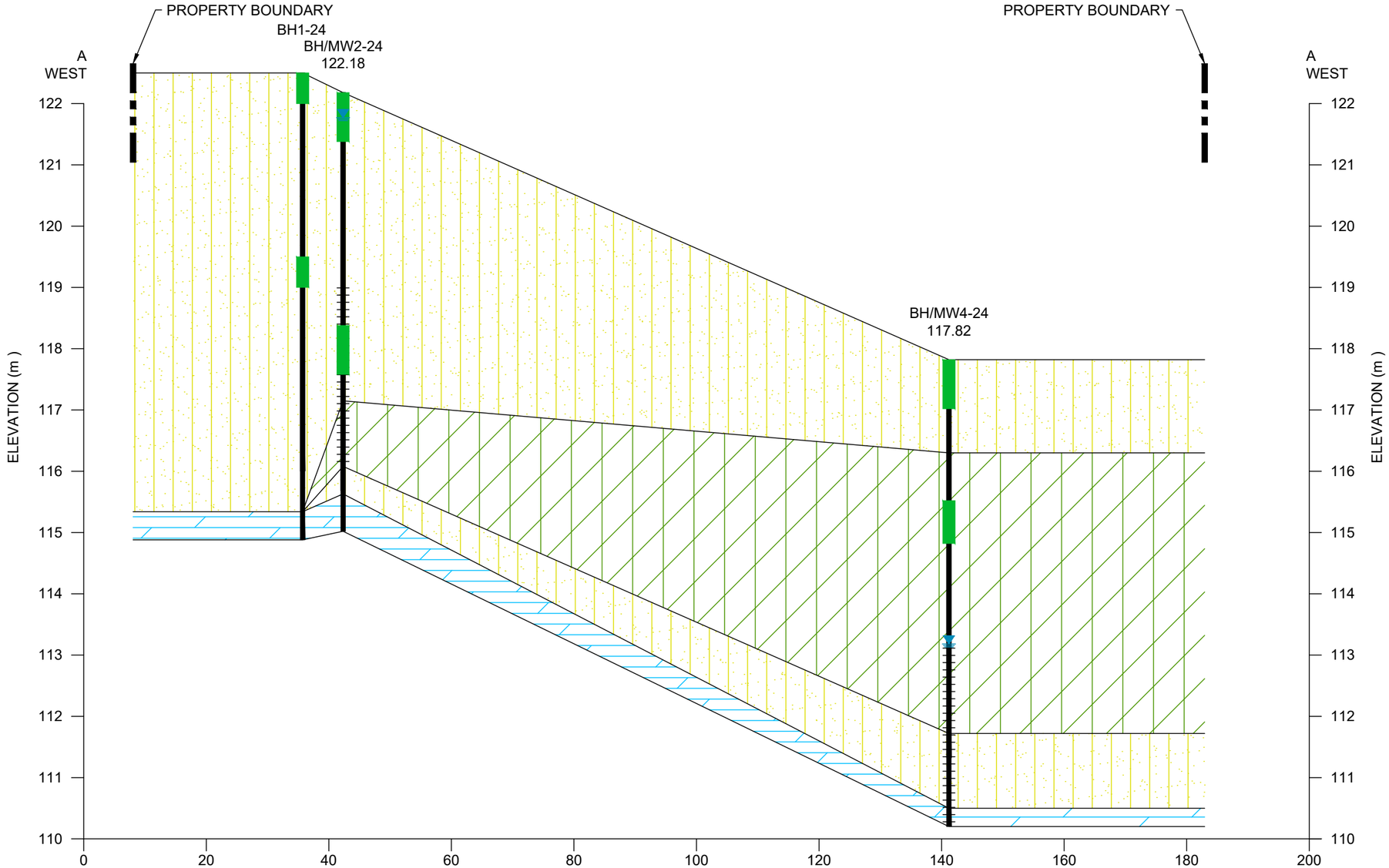
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Richmond Hill, Ontario L4B 3K6

DWN BY:	ZF
CHK'D BY:	IP
DATUM:	NAD 83
PROJECTION:	UTM ZONE 17
SCALE:	AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
SOIL ANALYTICAL RESULTS IN PLAN VIEW FOR OTHER REGULATED PARAMETERS

DATE:	MAY 2024
PROJECT NO:	CA0023482.2117
REV. NO.:	A
DRAWING No.	15



0 7.5 15 30 45m
HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m
VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024

BH/MW2-24 122.18 BOREHOLE LABEL / BOREHOLE ELEVATION

WELL SCREEN

SAMPLE MEETS TABLE 9 SCS

SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

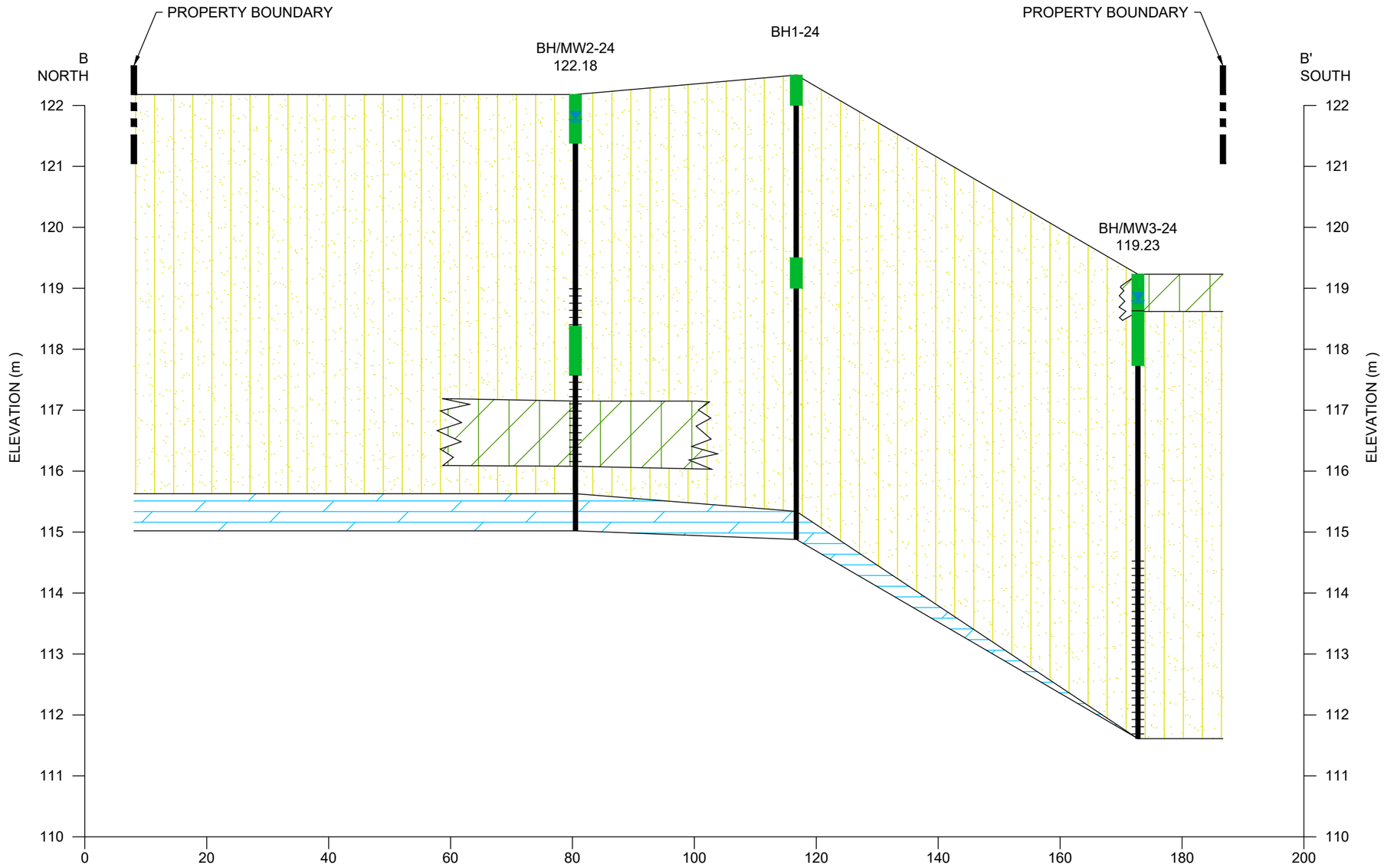
WSP Canada Inc.
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Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
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DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
SOIL ANALYTICAL RESULTS -
CROSS SECTION A-A' - FOR
OTHER REGULATED PARAMETERS

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 16



0 7.5 15 30 45m

HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m

VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024
- BH/MW2-24 122.18 — BOREHOLE LABEL / BOREHOLE ELEVATION
- WELL SCREEN
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

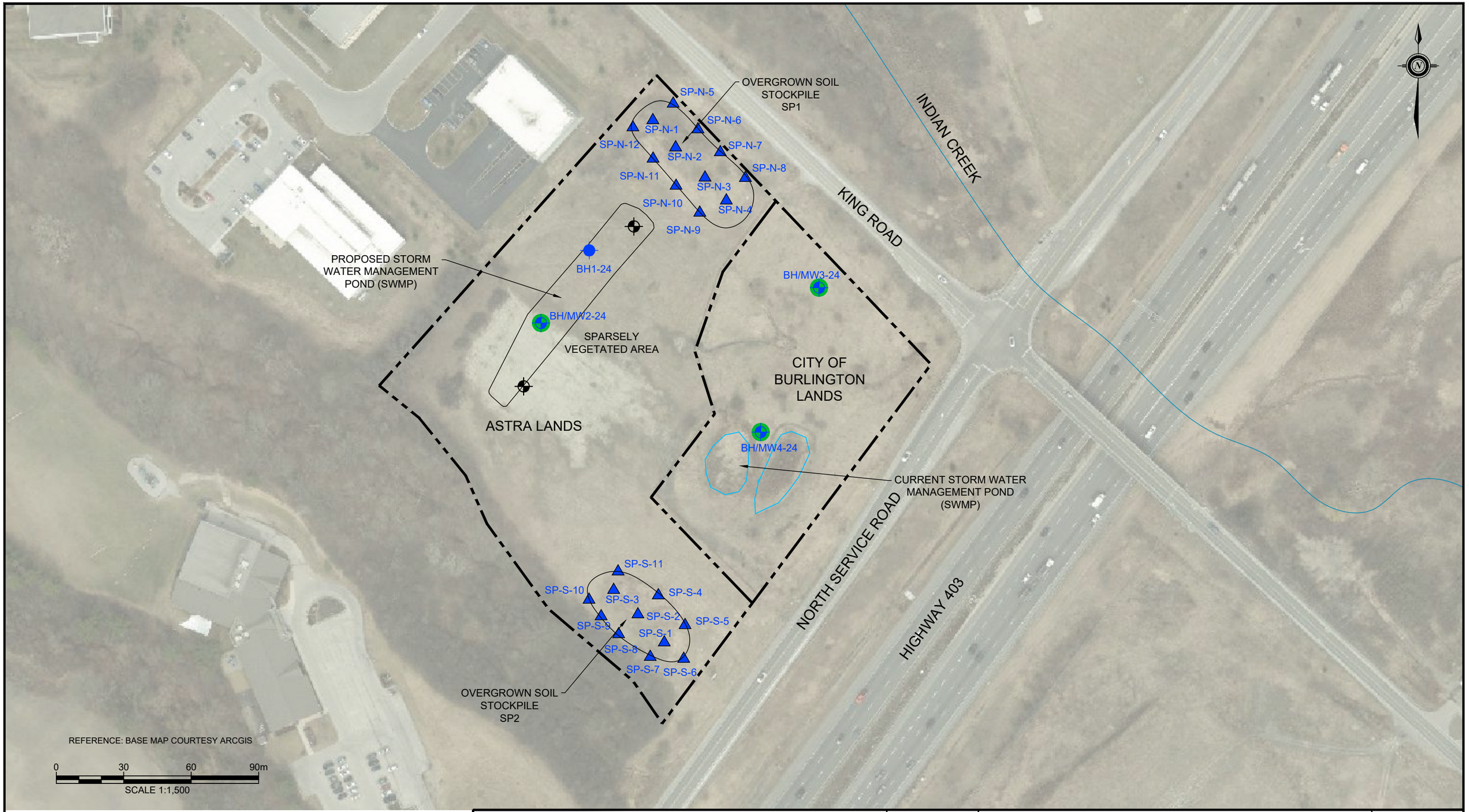
WSP Canada Inc.
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Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
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DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
SOIL ANALYTICAL RESULTS -
CROSS SECTION B-B' - FOR
OTHER REGULATED PARAMETERS

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 17



LEGEND:

- PHASE TWO PROPERTY
- GROUNDWATER MONITORING WELL
- STOCKPILE SAMPLE
- BOREHOLE
- MONITORING WELL
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

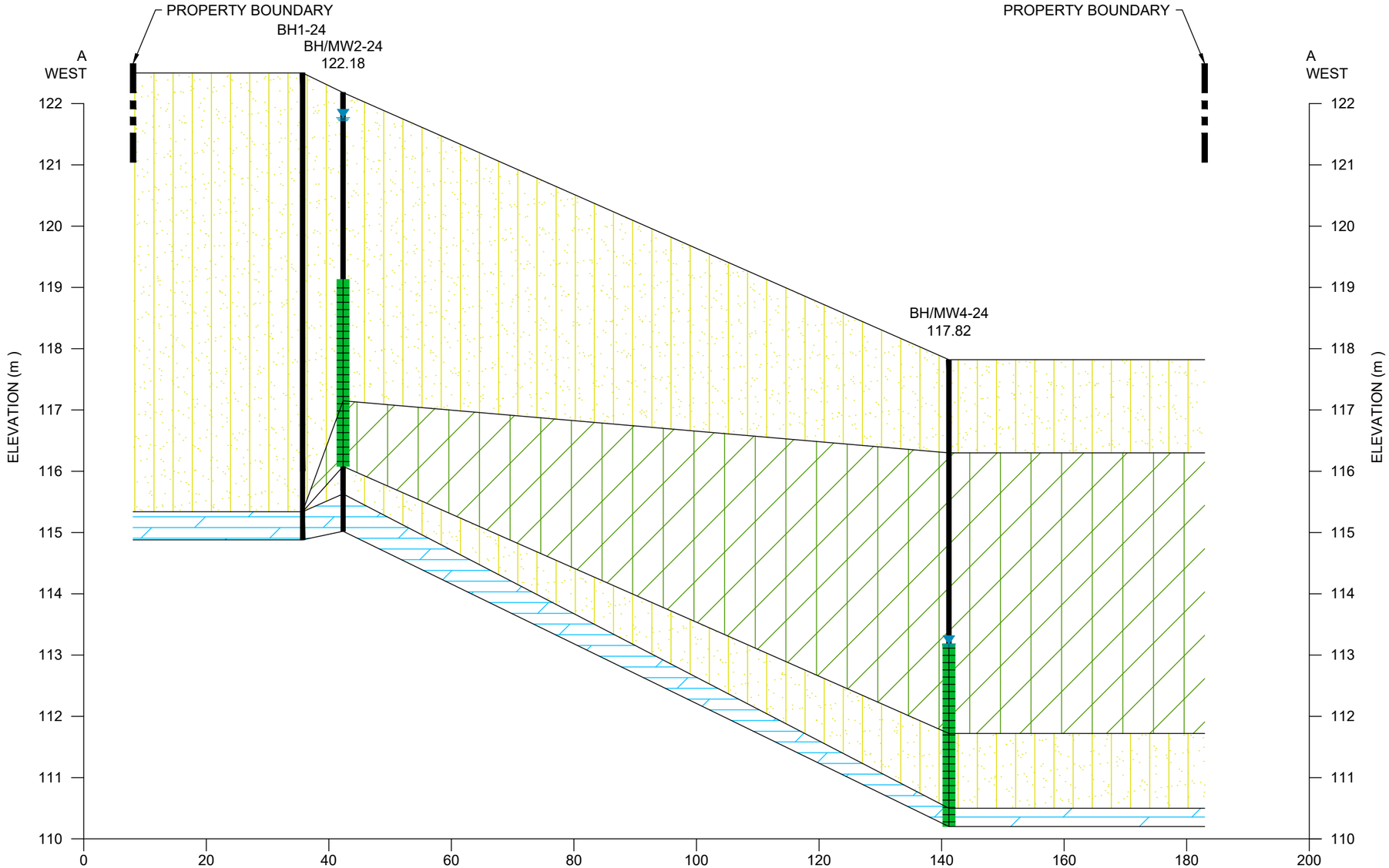
WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
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DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GROUNDWATER ANALYTICAL RESULTS IN PLAN VIEW FOR PETROLEUM HYDROCARBONS AND BTEX

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 18



0 7.5 15 30 45m

HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m

VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024

BH/MW2-24 122.18 BOREHOLE LABEL / BOREHOLE ELEVATION

WELL SCREEN

SAMPLE MEETS TABLE 9 SCS

SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

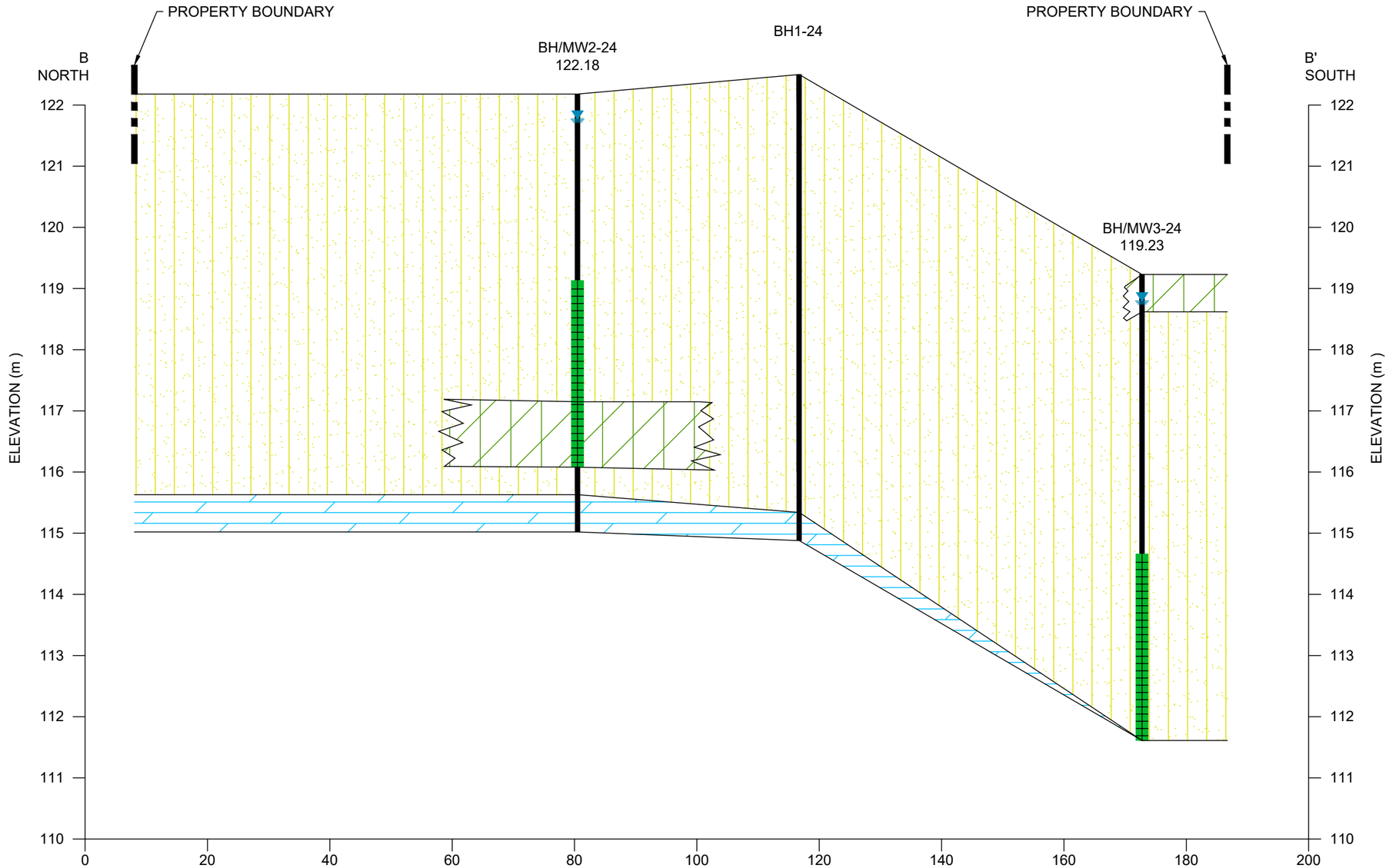
WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

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PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GROUNDWATER ANALYTICAL RESULTS - CROSS SECTION A-A' - FOR PETROLEUM HYDROCARBONS AND BTEX

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 19



0 7.5 15 30 45m
HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m
VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024
- BH/MW2-24 122.18 BOREHOLE LABEL / BOREHOLE ELEVATION
- WELL SCREEN
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

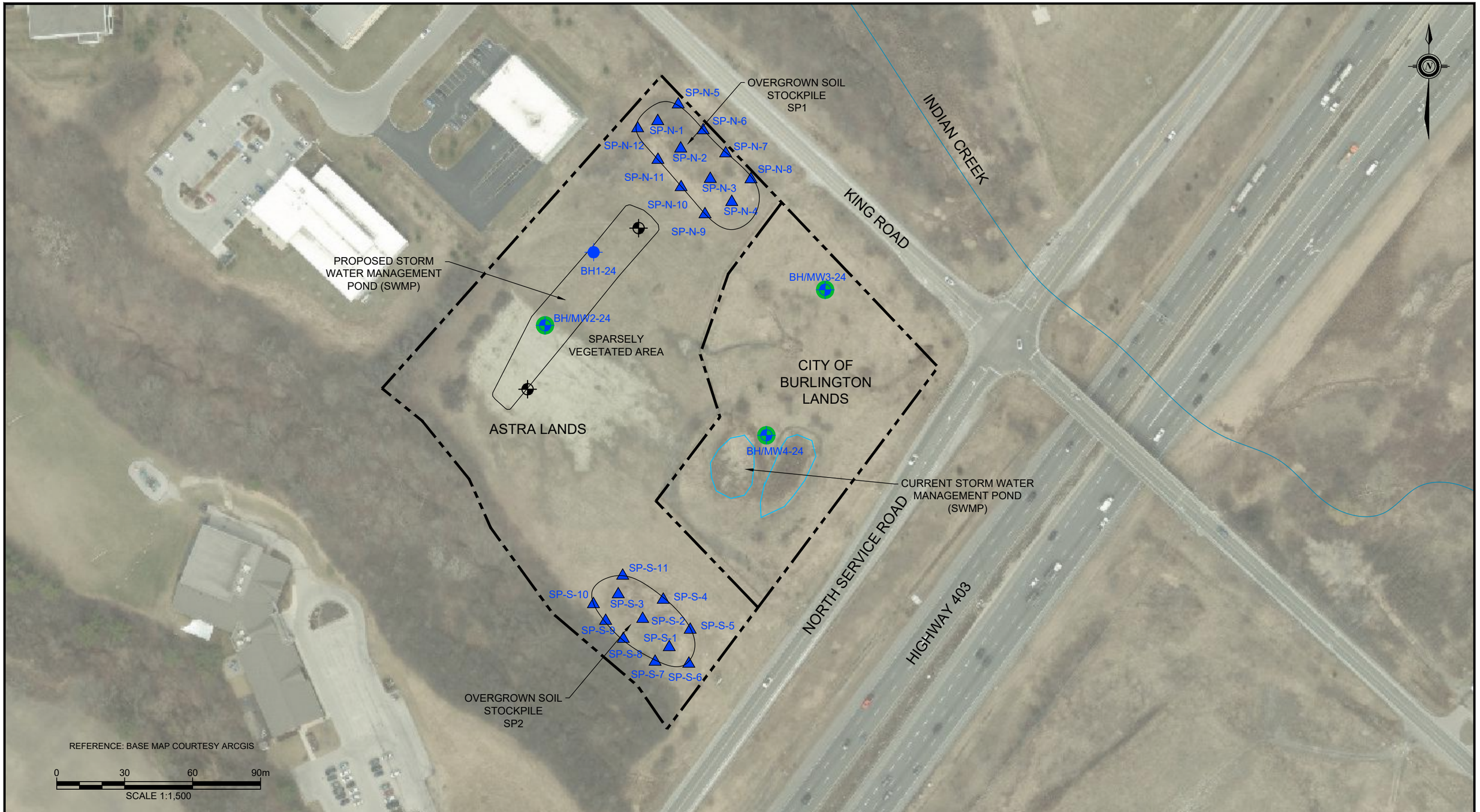
WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
CHK'D BY: IP
DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GROUNDWATER ANALYTICAL RESULTS -
CROSS SECTION B-B' - FOR
PETROLEUM HYDROCARBONS AND BTEX

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 20



LEGEND:

- PHASE TWO PROPERTY
- GROUNDWATER MONITORING WELL
- STOCKPILE SAMPLE
- BOREHOLE
- MONITORING WELL
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

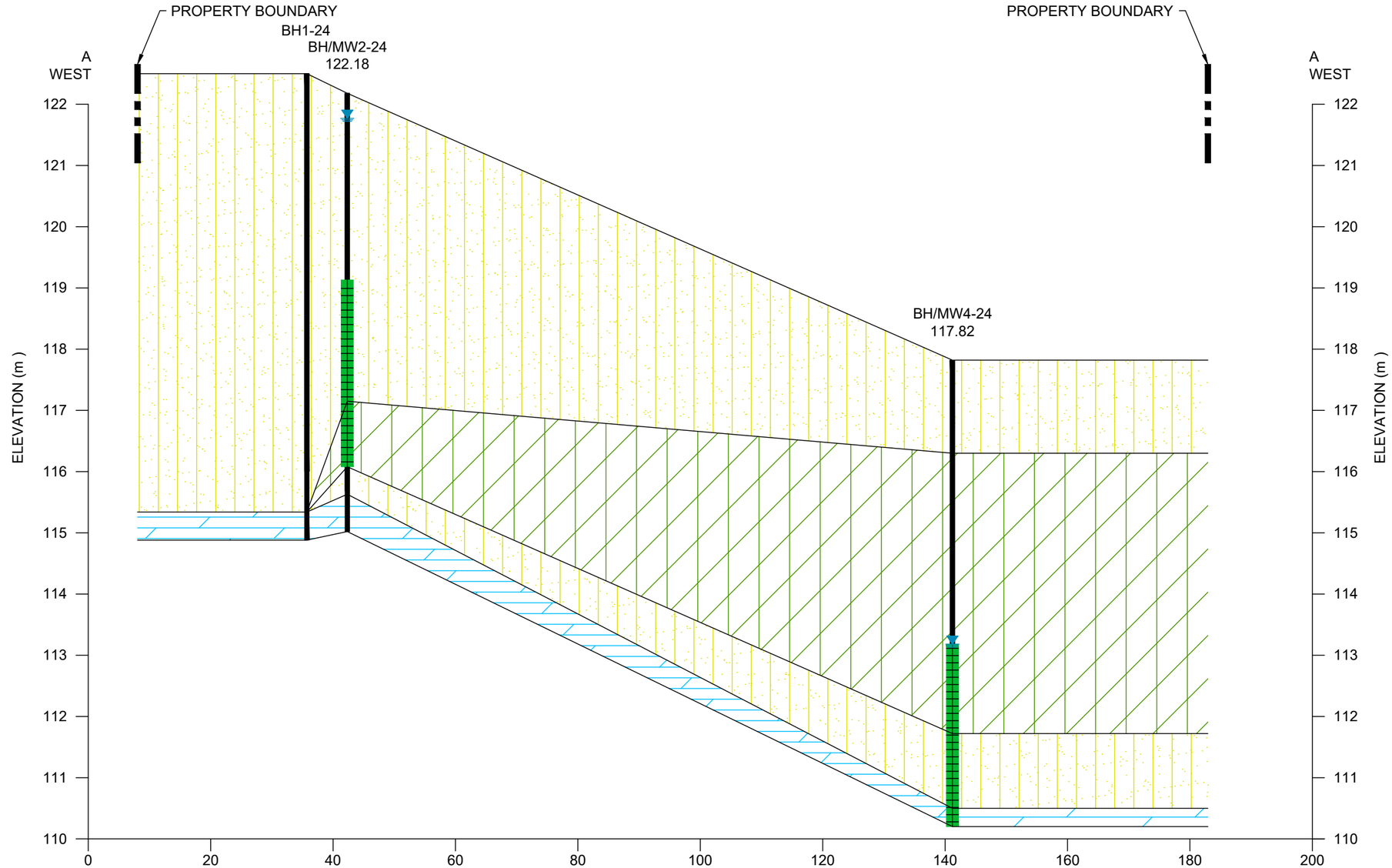
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PROJECTION:	UTM ZONE 17
SCALE:	AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GROUNDWATER ANALYTICAL RESULTS IN PLAN VIEW FOR POLYCYCLIC AROMATIC HYDROCARBONS

DATE:	MAY 2024
PROJECT NO:	CA0023482.2117
REV. NO.:	A
DRAWING No.	21

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0 7.5 15 30 45m

HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m

VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024

BH/MW2-24 122.18 BOREHOLE LABEL / BOREHOLE ELEVATION

WELL SCREEN

SAMPLE MEETS TABLE 9 SCS

SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

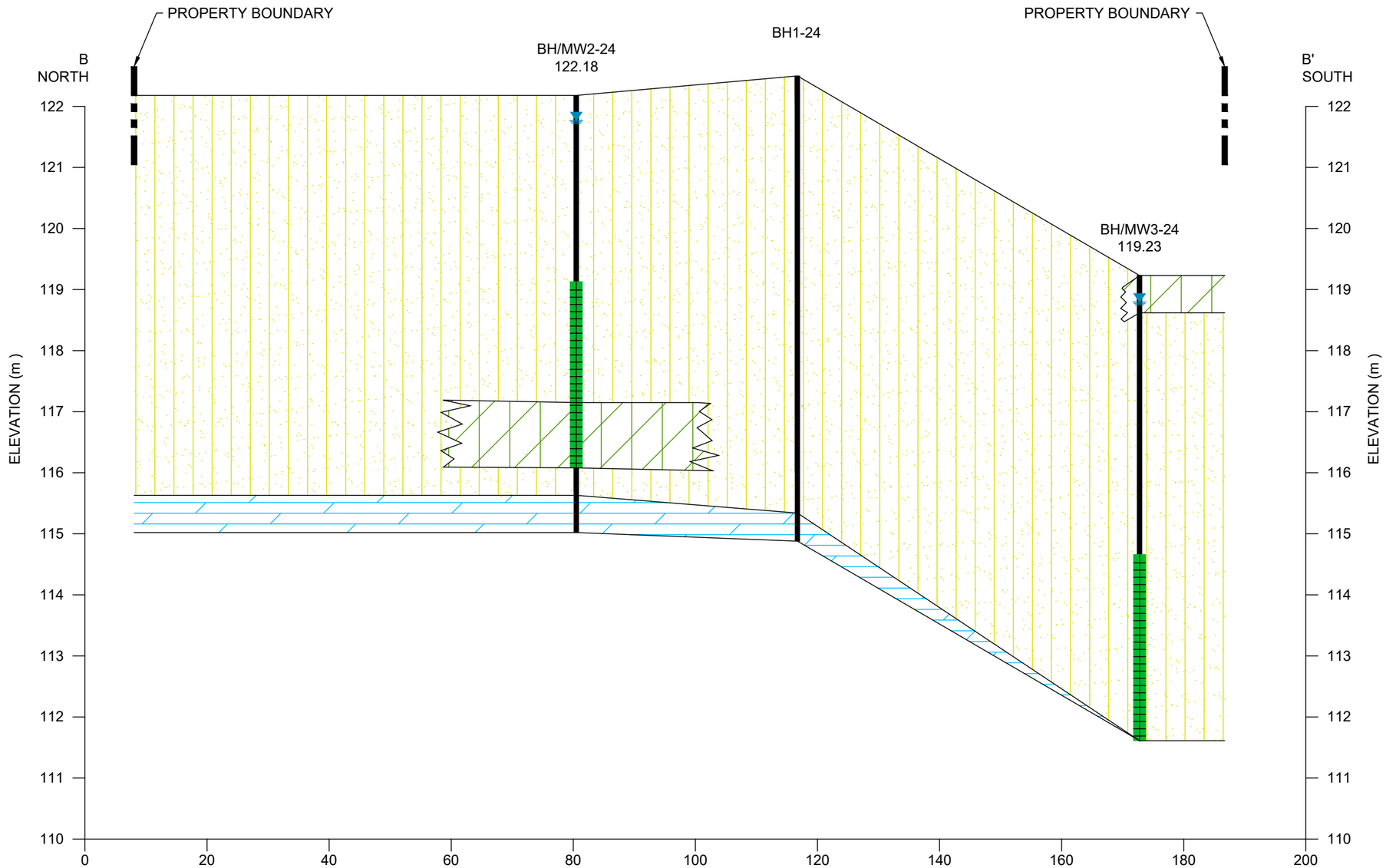
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DWN BY: ZF
CHK'D BY: IP
DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GROUNDWATER ANALYTICAL RESULTS - CROSS SECTION A-A' - FOR POLYCYCLIC AROMATIC HYDROCARBONS

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 22



0 7.5 15 30 45m
HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m
VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024

BH/MW2-24 122.18 BOREHOLE LABEL / BOREHOLE ELEVATION

WELL SCREEN

SAMPLE MEETS TABLE 9 SCS

SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

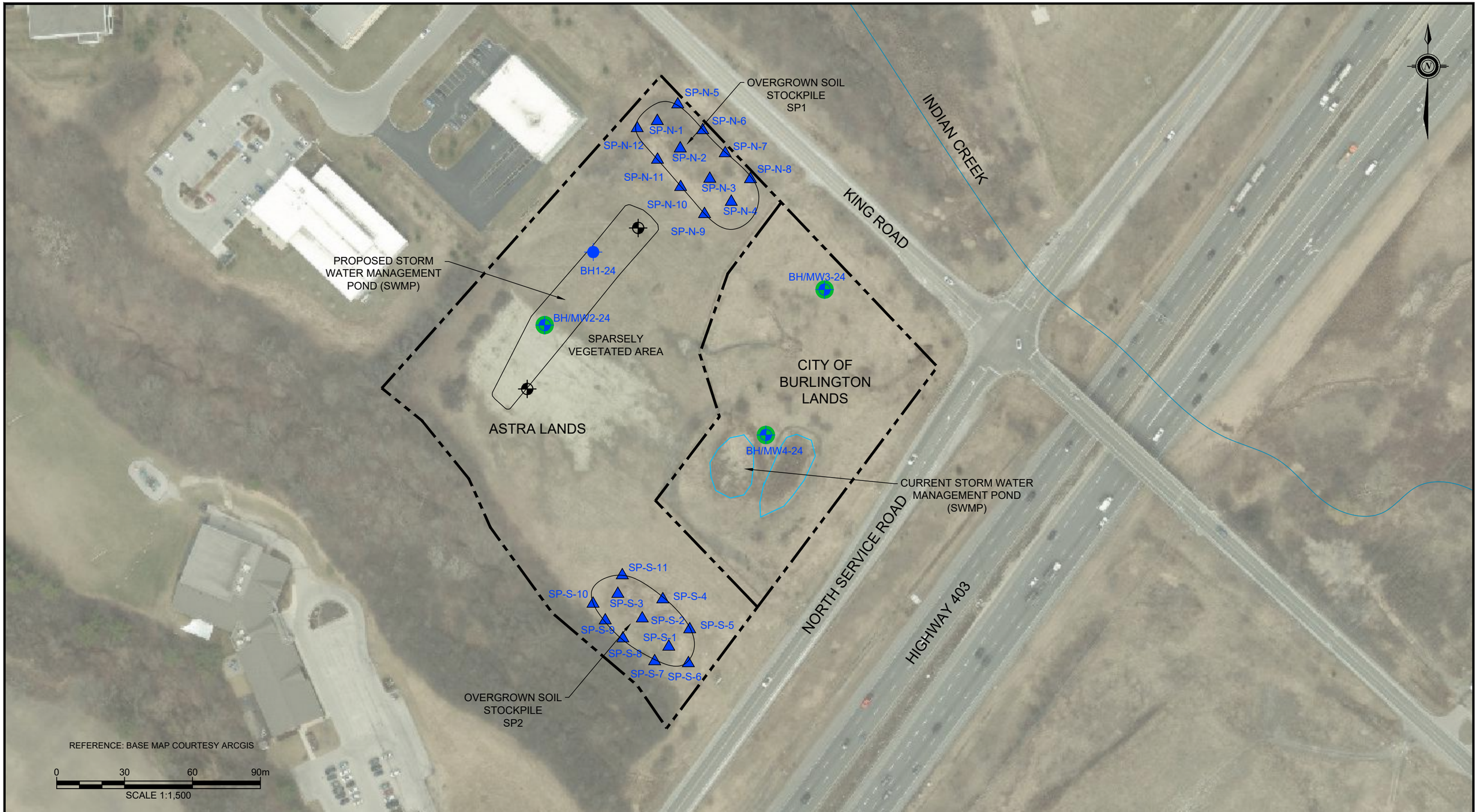
WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
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DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GROUNDWATER ANALYTICAL RESULTS -
CROSS SECTION B-B' - FOR
POLYCYCLIC AROMATIC HYDROCARBONS

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 23



LEGEND:

- PHASE TWO PROPERTY
- GROUNDWATER MONITORING WELL
- STOCKPILE SAMPLE
- BOREHOLE
- MONITORING WELL
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

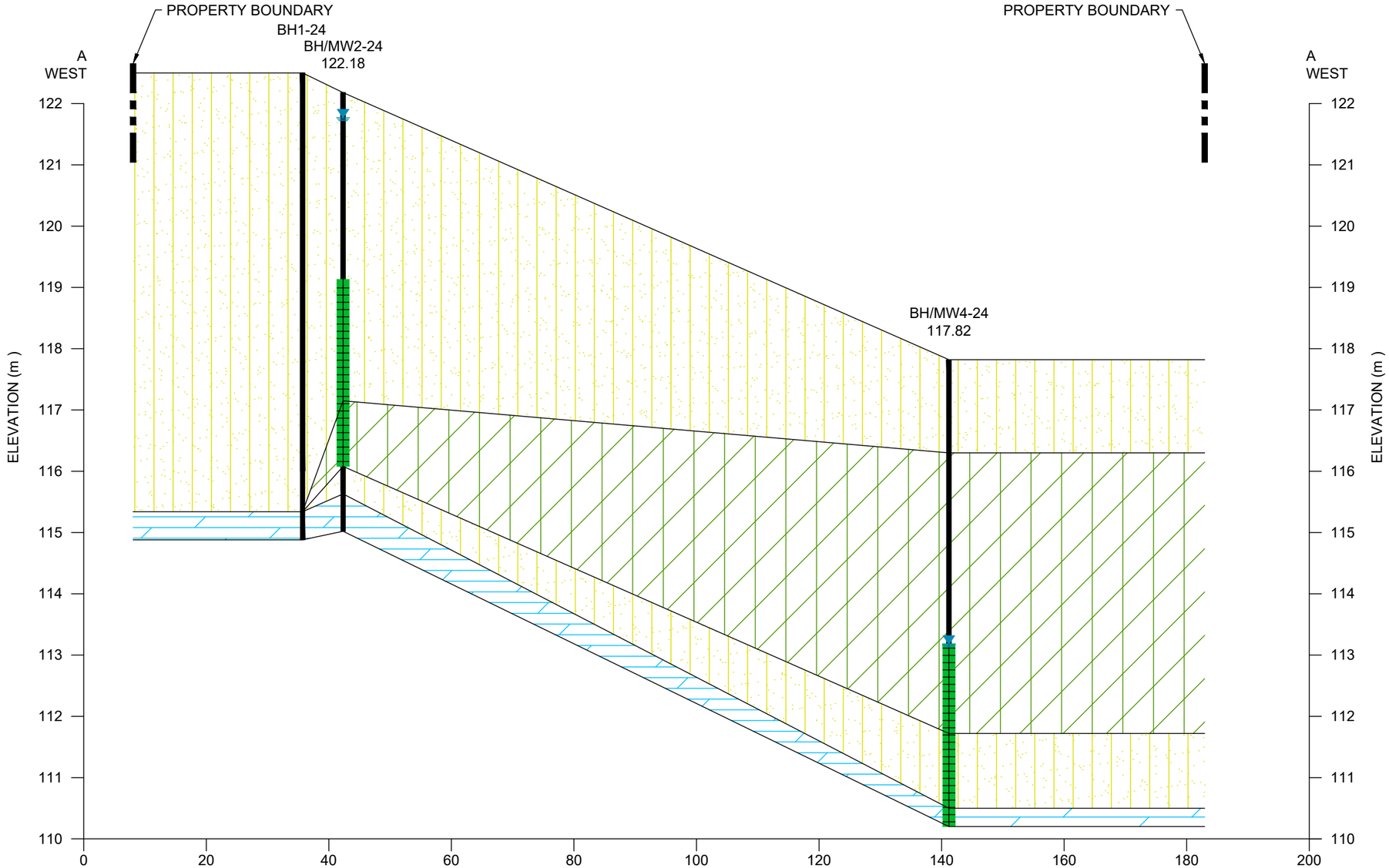
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PROJECTION:	UTM ZONE 17
SCALE:	AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GROUNDWATER ANALYTICAL RESULTS IN PLAN VIEW FOR OTHER REGULATED PARAMETERS

DATE:	MAY 2024
PROJECT NO:	CA0023482.2117
REV. NO.:	A
DRAWING No.	24

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0 7.5 15 30 45m
HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m
VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024

BH/MW2-24 122.18 BOREHOLE LABEL / BOREHOLE ELEVATION

- WELL SCREEN
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

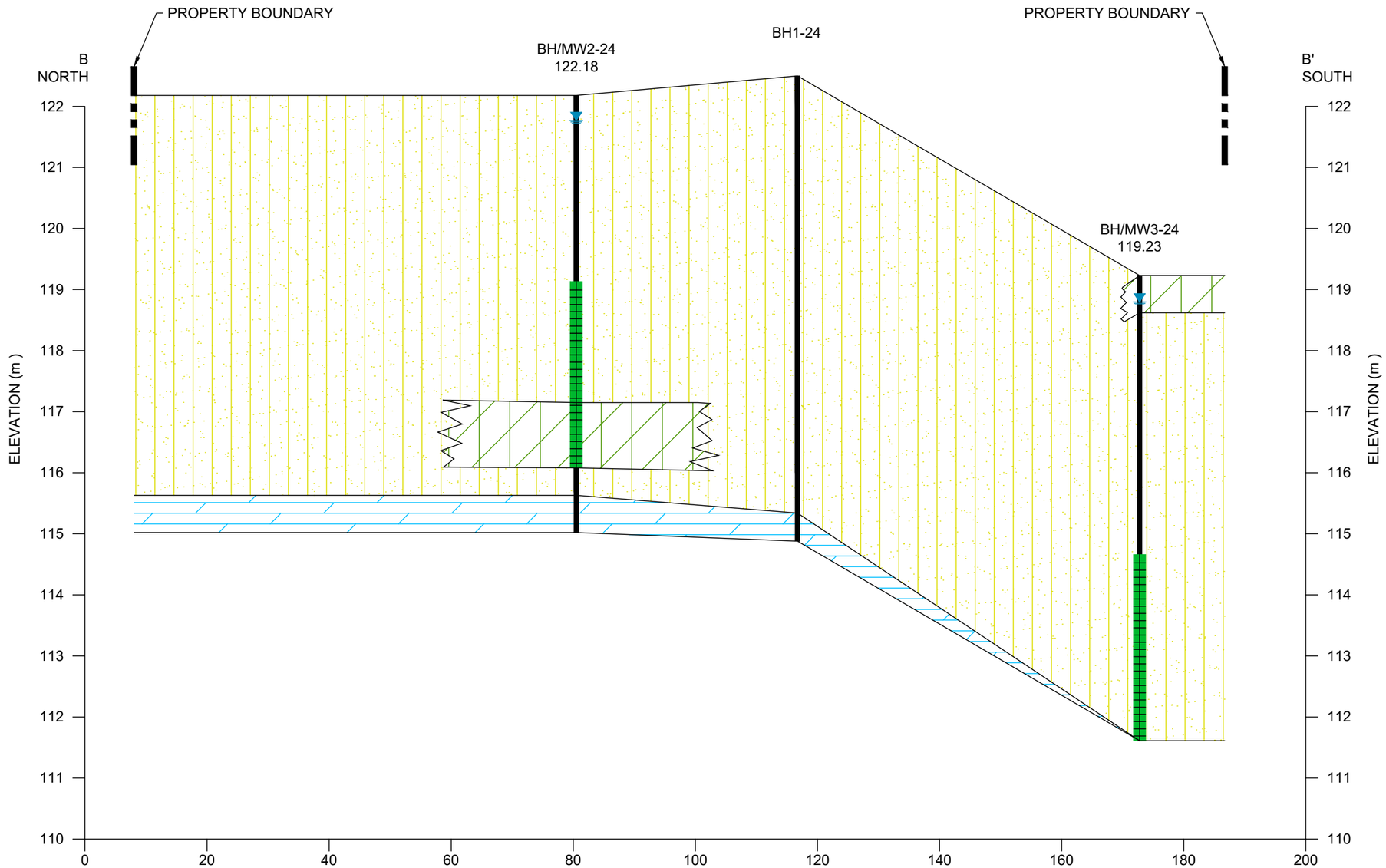
WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
CHK'D BY: IP
DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GROUNDWATER ANALYTICAL RESULTS - CROSS SECTION A-A' - FOR OTHER REGULATED PARAMETERS

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 25



0 7.5 15 30 45m
HORIZONTAL SCALE 1:750

0 0.75 1.5 3 4.5m
VERTICAL SCALE 1:75

LEGEND:

- CLAYEY SILT / SILTY CLAY
- SAND / SILT / SANDY SILT
- SHALE
- MEASURED WATER LEVEL IN MONITORING WELL ON APRIL 10, 2024
- BH/MW2-24 122.18 BOREHOLE LABEL / BOREHOLE ELEVATION
- WELL SCREEN
- SAMPLE MEETS TABLE 9 SCS
- SAMPLE EXCEEDS TABLE 9 SCS

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

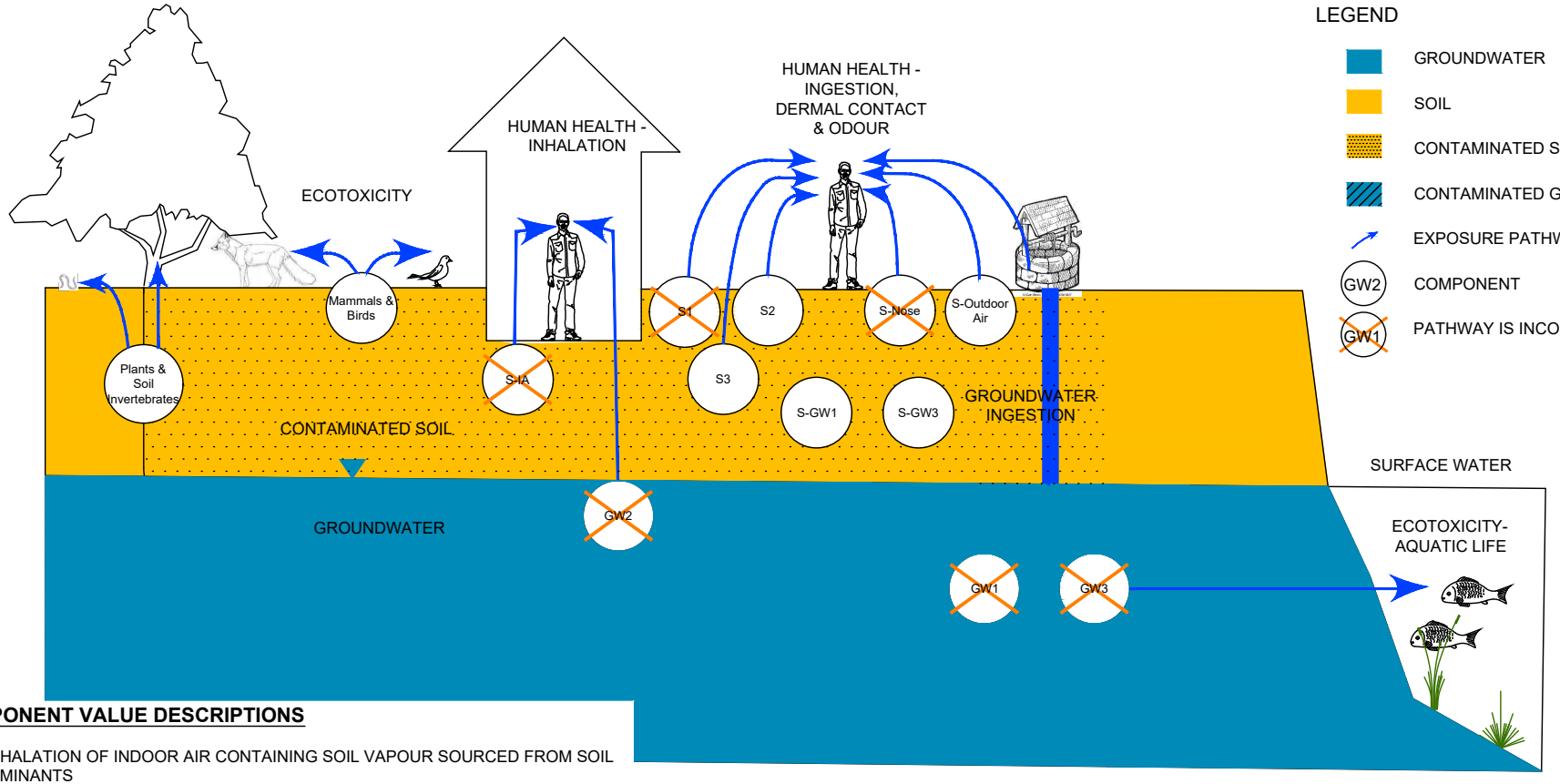
WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY: ZF
CHK'D BY: IP
DATUM: NAD 83
PROJECTION: UTM ZONE 17
SCALE: AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
GROUNDWATER ANALYTICAL RESULTS -
CROSS SECTION B-B' - FOR
OTHER REGULATED PARAMETERS

DATE: MAY 2024
PROJECT NO: CA0023482.2117
REV. NO.: A
DRAWING No. 26



COMPONENT VALUE DESCRIPTIONS

S-IA: INHALATION OF INDOOR AIR CONTAINING SOIL VAPOUR SOURCED FROM SOIL CONTAMINANTS
S1: DIRECT CONTACT TO SOIL, PROTECTIVE OF RESIDENTIAL SCENARIO
S2: DIRECT CONTACT TO SOIL, PROTECTIVE OF COMMERCIAL/INDUSTRIAL SCENARIO
S3: DIRECT CONTACT TO SOIL, PROTECTIVE OF SUBSURFACE WORKER
S-NOSE: ODOUR FROM SURFACE SOIL
S-OUTDOOR AIR: INHALATION OF OUTDOOR AIR CONTAINING SOIL VAPOUR
S-GW1: EXPOSURE FOLLOWING LEACHING OF SOIL CONTAMINANT TO GROUND WATER AND INGESTION OF POTABLE GROUND WATER
S-GW3: EXPOSURE BY AQUATIC RECEPTORS FOLLOWING LEACHING OF SOIL CONTAMINANT TO GROUND WATER AND DISCHARGE TO SURFACE WATER
GW1: INGESTION OF POTABLE GROUND WATER
GW2: INHALATION OF INDOOR AIR CONTAINING SOIL VAPOUR SOURCED FROM GROUND WATER CONTAMINANTS
GW3: EXPOSURE BY AQUATIC RECEPTORS FOLLOWING GROUND WATER DISCHARGE TO SURFACE WATER

NOTES

RELEASE MECHANISMS: PHC F2 COULD BE ATTRIBUTED TO SEDIMENTATION WITHIN CURRENT OR FORMER SURFACE WATER MANAGEMENT PONDS.
CONTAMINANT TRANSPORT PATHWAYS: VOLATILIZATION FROM SOIL. UPTAKE BY PLANTS AND PREY AND MOVEMENT IN THE FOOD WEB.
HUMAN RECEPTORS: LONG-TERM OUTDOOR WORKERS, SUBSURFACE WORKERS AND TRESPASSERS.
ECOLOGICAL RECEPTORS: TERRESTRIAL BIRDS, MAMMALS, PLANTS AND INVERTEBRATES.
ROUTES OF EXPOSURE AND RECEPTOR EXPOSURE POINTS IN THE ABSENCE OF RISK MANAGEMENT:
TERRESTRIAL PLANTS: ROOT UPTAKE AND/OR ROOT CONTACT.
SOIL ORGANISMS: SOIL INGESTION AND DIRECT CONTACT WITH THE SOIL, INGESTION OF PLANTS AND PREY.
BIRDS AND MAMMALS: SOIL INGESTION AND INGESTION OF PLANTS AND PREY.
HUMAN RECEPTORS: DERMAL CONTACT WITH SOIL, INCIDENTAL INGESTION OF SOIL AND INHALATION (OUTDOOR AIR, TRENCH AIR AND/OR PARTICULATES).

CLIENT
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY:	ZF
CHK'D BY:	IP
DATUM:	NAD 83
PROJECTION:	UTM ZONE 17
SCALE:	AS SHOWN

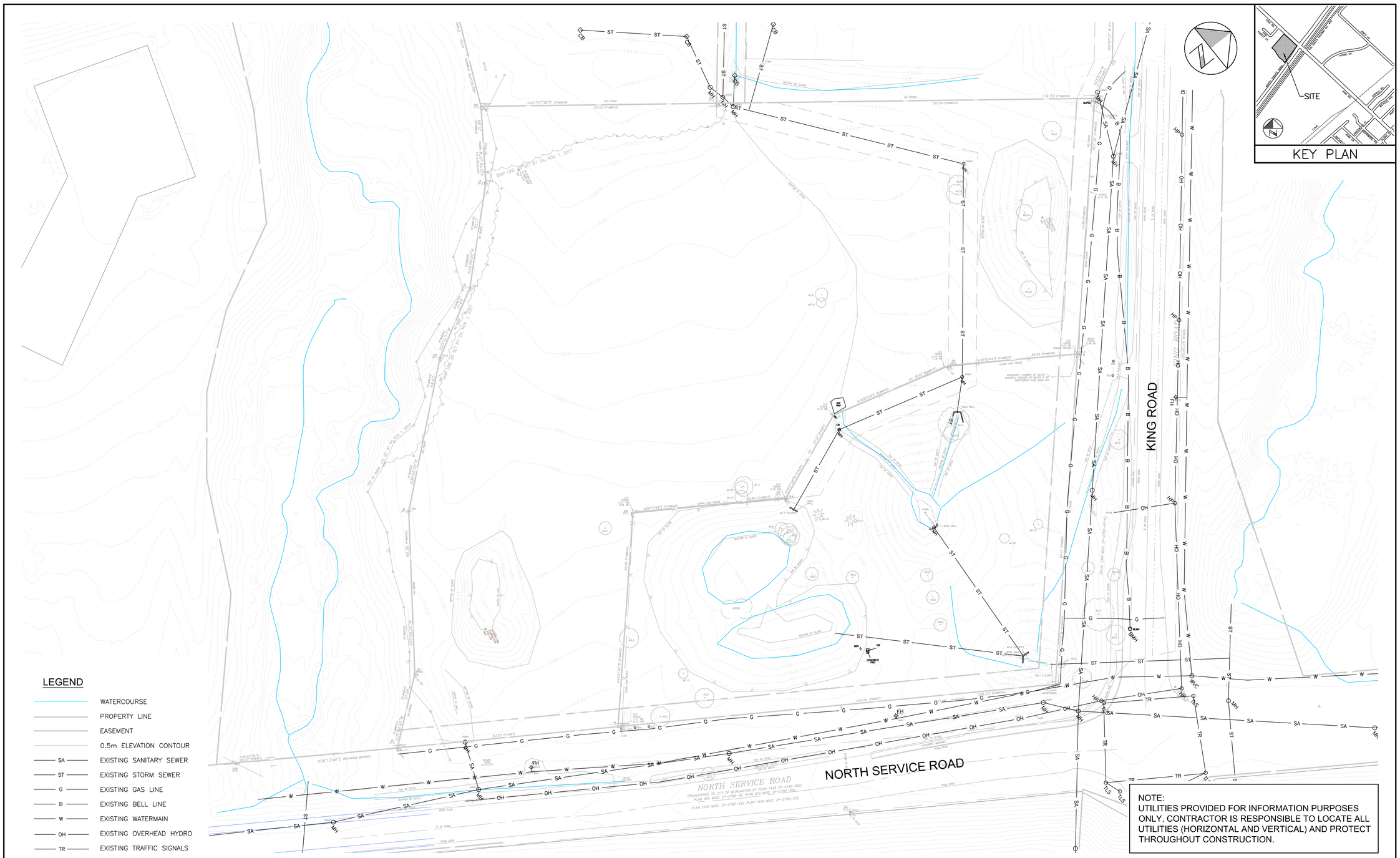
PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
RECEPTORS AND EXPOSURE PATHWAYS DIAGRAM

REV. NO.:	A
DATE:	MAY 2024
PROJECT NO:	CA0023482.2117
DRAWING No.	27

APPENDIX A

Utilities Plan



LEGEND

- WATERCOURSE
- PROPERTY LINE
- EASEMENT
- 0.5m ELEVATION CONTOUR
- SA — EXISTING SANITARY SEWER
- ST — EXISTING STORM SEWER
- G — EXISTING GAS LINE
- B — EXISTING BELL LINE
- W — EXISTING WATERMAIN
- OH — EXISTING OVERHEAD HYDRO
- TR — EXISTING TRAFFIC SIGNALS

NOTE:
UTILITIES PROVIDED FOR INFORMATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL UTILITIES (HORIZONTAL AND VERTICAL) AND PROTECT THROUGHOUT CONSTRUCTION.

No	Date	Drawn	Appr'd	Revisions
2	23-05-02	RMB	MJS	ISSUED FOR SPA SUBMISSION
1	22-01-14	MBK	MJS	INITIAL SPA SUBMISSION

APPROVALS

NOT TO BE USED FOR CONSTRUCTION

Design	MS	Checked	RBS
Drawn	MBK	Checked	MS

Scale 1:500 (0 5 10 20)

Date JANUARY 2022

LICENSED PROFESSIONAL ENGINEER M. J. SENIOR 100118597 5/2/2023 PROVINCE OF ONTARIO

1450 KING ROAD
ASTRA REALTY MANAGEMENT INCORPORATED

UTILITIES PLAN

wsp

Contract No.

Consultant File No. WW21012079

Drawing No. SHEET 2 OF 14

Plotted: 2023-11-06
Last Saved: 2023-05-03
Plotted By: wda_richard.bartolo
Last Saved By: richard.bartolo
Path: D:\WW21012079 - Quantum\14 CAD\WR\PROJECTS\2023-04 (Update)\Dwg 2 - Utilities.dwg

APPENDIX B

Sampling and Analysis Plan

MEMO

TO: WSP Field Technician

FROM: Edwin Whitford, QPESA

SUBJECT: Sampling and Analysis Plan – 1450 King Road, Burlington, Phase Two ESA

DATE: 26-Mar-2023

PURPOSE AND OBJECTIVE

A Phase Two Environmental Site Assessment (ESA) is being completed to characterize the subsurface soil and ground water environmental quality at 1450 King Road, Burlington, Ontario, hereafter referred to as the "Site". The Phase Two ESA is being conducted in accordance with the general reporting requirements set forth under Ontario Regulation 153/04 – Records of Site Condition, as amended ("*O.Reg*. 153/04") as required by Halton Region. It is understood that a Record of Site Condition (RSC) will not be filed as part of the current scope of work since a change in land use is not occurring.

BACKGROUND INFORMATION

The Site comprises two (2) parcels of vacant land with a combined area of approximately 3.4-hectares. A Storm Water Management Pond (SWMP) is in the southern portion of the Site and two (2) soil stockpiles are located along its northern and southern boundaries.

In 2022, WSP was retained by Astra Reality Management Inc. ("Astra") to conduct a Phase One ESA at the Site. The findings of the Phase One ESA identified past or present Potentially Contaminating Activities (PCAs) on, in, or under the Site that comprise Areas of Potential Environmental Concern (APECs) where one (1) or more contaminants of potential concern (COPC) may be present, as described below:

- APEC 1: Located along the northeast and southeast boundaries of the Site from de-icing activities completed on adjacent roadways.
- APEC 2: Located at the SWMP in the southern portion of the Site and at two (2) soil stockpiles locations in the northern and southern corners of the Site. There is a risk of environmental impairment due to the presence of the SWMP as a depositional environment

for roadway runoff that may contain contaminants other than salt. The northern and southern stockpiles have volumes of 1,300 m^3 and 1,100 m^3, respectively.

The object of the Phase Two ESA is to investigate the APECs by means of soil stockpile sampling, borehole drilling, and installing ground water monitoring wells for the collection of representative soil and ground water samples. The samples will be submitted for laboratory analysis of the Contaminants of the COPCs.

In addition, soil and ground water samples will be collected within the area of a proposed new SWMP and submitted for laboratory analysis. The results of the analysis will provide a preliminary assessment of the environmental soil and ground water quality for management during construction of the SWMP.

The soil and groundwater sampling rationale is summarized in Table 1.

Table 1 – Proposed Phase Two ESA Investigation Plan & Rationale

APEC #	PCA	DESCRIPTION	BH/MW ID	COPC (Soil)	COPC (Ground Water)
Not Applicable	Not Applicable	Future SWMP location	BH1-24 BH/MW2-24	EC SAR PHC F1-F4 PAHs	Na Cl- PHC F1-F4 PAHs
APEC-1	Roadway Deicing	The northeast and southeast boundaries of the Site from de-icing activities completed on adjacent roadways.	BH3-24 BH/MW4-24	EC SAR PHC F1-F4 PAHs	Na Cl- PHC F1-F4 PAHs
APEC-2	Roadway Contaminants in Addition to Salt from Roadway Deicing	Existing SWMP location and SWMP excavation soil stockpiles	SP-1 SP-2	EC SAR PHC F1-F4 PAHs	Not Applicable

Notes:
EC – Electrical Conductivity
SAR – Sodium Absorption Ratio

Na - Sodium
Cl- - Chloride
PHCs –Petroleum Hydrocarbons
PAHs - Polycyclic Aromatic Hydrocarbons

Figure 1 (attached) depicts the APECs and the proposed borehole and monitoring well locations; and the stockpile locations.

METHOD

An excavator will be used to collect soil samples from the stockpiles at depths greater than 0.3 m below the surface of the stockpile. A Geoprobe 7800 series direct push drill rig will be used for advancing boreholes to collect subsurface soil samples and for installing monitoring wells to collect groundwater samples. The soil stockpile sampling, soil drilling, monitoring well installations, and the collection of soil and ground water samples will be completed in accordance with WSP's Standard Operating Procedures (SOPS):

- SOP No. 06 – Borehole Drilling, Rev. 0, dated November 19, 2023
- SOP No. 09 – Soil Sample Collection, Rev. 0, dated January 17, 2024
- SOP No. 11 – Monitoring Well Installation, Rev.0, dated January 17, 2024
- SOP No. 12 – Monitoring Well Development, Rev. 0, dated November 19, 2023
- SOP No. 15 – Conventional Groundwater Sample Collection, Dated January 17, 2024
- SOP No. 16 – Low-Flow Groundwater Sample Collection, Rev.0, Dated January 10, 2024
- SOP No. 22 – Stockpile Sample Collection, Rev.0, Dated November 19, 2023

For the stockpile sampling, three (3) screening samples are to be collected per sample location. A sample from the worst case of the screening sample location is to be submitted for analysis: no composite samples are required. Worst case stockpile samples are based on staining, odour, elevated combustible organic vapour (COV) total organic vapour (TOV),

The number of soil samples and their requisite *O.Reg*. 153/04 chemical analysis for each of the proposed sample locations are presented in Tables 2.

Table 2 – Soil Sample Analytical Plan

STOCKPILE/ BOREHOLE ID	BOREHOLE DEPTH (mbgs)	ANALYSIS	FIELD SCREENING QUANTITY	SOIL SAMPLE QUANTITY	DUPLICATE SAMPLE QUANTITY	SAMPLE CRITERIA
SP1	Not Applicable	EC, SAR, PHC F1-F4, PAHs	36 (Note 1)	12	2	Representative

STOCKPILE/ BOREHOLE ID	BOREHOLE DEPTH (mbgs)	ANALYSIS	FIELD SCREENING QUANTITY	SOIL SAMPLE QUANTITY	DUPLICATE SAMPLE QUANTITY	SAMPLE CRITERIA
SP2	Not Applicable	EC, SAR, PHC F1-F4, PAHs	36 (Note 1)	12	1	Representative
BH1-24	8.0	EC, SAR, PHC F1-F4, PAHs	NA	2	Note 2	Note 3
BH2-24	8.0	EC, SAR, PHC F1-F4, PAHs	NA	2	Note 1	Note 2
BH3-24	8.0	EC, SAR, PHC F1-F4, PAHs, pH[3]	NA	2	Note 1	Note 2
BH4-24	6.0	EC, SAR, PHC F1-F4, PAHs, pH[3]	NA	2	Note 1	Note 2

Notes:

mbgs - metres below ground surface

1- Three (3) screening samples per analytical sample submission.

2- One (1) duplicate sample for borehole BH1-24 to BH4-24 (total)

3 – Worse case samples based on near surface, the presence of fill, staining, odour, elevated combustible organic vapour (COV) total organic vapour (TOV), proximity to the water table. Collect extra samples so QP can assess which ones to submit for analysis.

3 – A pH sample is to be collected from surface soil (0-1.5 mbgs) and from subsurface soil (>1.5 mbgs). Collect four (4) samples (total). The samples are for confirming the Site classification in accordance with O.Reg. 153/04.

Two (2) samples representative of the drill cuttings will be submitted for analysis in accordance with the Toxicity Characteristic Leaching Procedure (TCLP) to determine waste classification in accordance with O.Reg. 347/90 – General Waste Management, as amended.

Two (2) representative samples will be collected for grain size analysis to determine the soil texture for confirming the Site classification in accordance with *O.Reg.* 153/04.

One (1) ground water sample will be collected from each monitoring well. Their requisite *O.Reg*. 153/04 chemical analysis requirements are presented in Table 3.

Table 3 – Ground Water Sample Analytical Plan

MW ID	ANALYSIS	QUALITY ASSURANCE
MW2-24	Na Cl- PHC F1-F4 PAHs	Note 1
MW3-24	Na Cl- PHC F1-F4 PAHs	Note 1
MW4-24	Na Cl- PHC F1-F4 PAHs	Note 1

Notes:
1 – One (1) duplicate sample for MW2-24 to MW4-24 (combined) and one (1) PHC F1 trip blank

LABORATORY ANALYSES

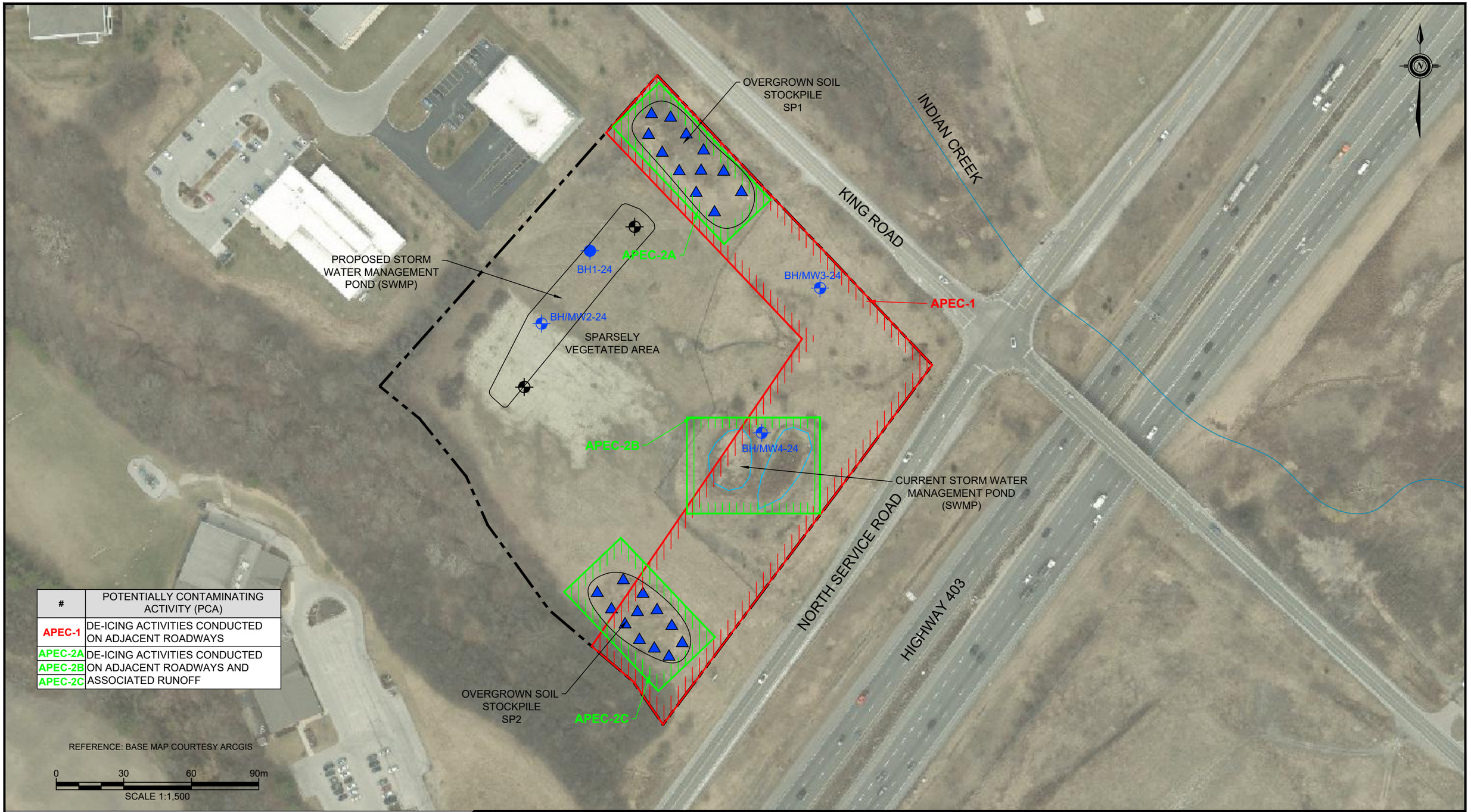
All laboratory chemical analyses will be conducted by Bureau Veritas of Mississauga, Ontario ("BV"). BV is accredited by the Standards Council of Canada and has met the requirements of ISO/IEC 17025:2017 – General Requirements for the Competence of Testing and Calibration Laboratories for the COPC at the Site.

DATA QUALITY OBJECTIVES

The soil and ground water sampling program is to be conducted in strict accordance with the above listed WSP SOPs. Laboratory analyses shall be carried out in accordance with *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act* dated July 1, 2011 (as amended). The proposed lab program will include verification that the selected analytical methods will have minimum detection limits that are less than the applicable environmental quality criteria or standard on which the numerical comparison will be based. In instances where the laboratory detection limits have been raised and/or elevated above the applicable guidelines, discussion/rationale must be provided in the report to support these results.

Attachments:

Attachment #1 – Figure 1, Proposed Sample Location Plan



#	POTENTIALLY CONTAMINATING ACTIVITY (PCA)
APEC-1	DE-ICING ACTIVITIES CONDUCTED ON ADJACENT ROADWAYS
APEC-2A APEC-2B APEC-2C	DE-ICING ACTIVITIES CONDUCTED ON ADJACENT ROADWAYS AND ASSOCIATED RUNOFF

REFERENCE: BASE MAP COURTESY ARCGIS

0 30 60 90m

SCALE 1:1,500

LEGEND:

- PHASE TWO PROPERTY
- GROUNDWATER MONITORING WELL
- AREA OF POTENTIAL ENVIRONMENTAL CONCERN (APEC)
- PROPOSED BOREHOLE
- PROPOSED MONITORING WELL
- PROPOSED STOCKPILE SAMPLE

CLIENT:
ASTRA CAPITAL PROPERTIES INCORPORATED (ACPI)

WSP Canada Inc.
50 Vogell Road, Units 3 and 4
Richmond Hill, Ontario L4B 3K6

DWN BY:	ZF
CHK'D BY:	ML
DATUM:	NAD 83
PROJECTION:	UTM ZONE 17
SCALE:	AS SHOWN

PROJECT
PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1450 KING ROAD, BURLINGTON, ONTARIO

TITLE
PROPOSED SAMPLE LOCATION PLAN

DATE:	JANUARY 2024
PROJECT NO:	POESAR2413
REV. NO.:	A
DRAWING No.	1

R:\2024\Proposal\POESAR2413_1450KingRd_PhTwoESA\04_Proposal_Prep\CAD\POESAR2413_Proposed Sample Location Plan.dwg – Proposal – Jun. 04, 2024 7:44am – wds_zhanna.furman

APPENDIX C

Field Logs

RECORD OF BOREHOLE No. BH1-24

Project Number:	CA0023482.2117	Drilling Location:	BH1-24	Logged by:	LM
Project Client:	Astra Realty	Drilling Method:	150 mm Direct Push	Compiled by:	ZF
Project Name:	Phase Two Environmental Site Assessment	Drilling Machine:	Geoprobe 7822DT	Reviewed by:	IP
Project Location:	1450 King Road, Burlington, Ontario	Date Started:	April 1, 2024	Date Completed:	April 1, 2024
				Revision No.:	0, 6/4/24

Geodetic Ground Surface Elevation:

Lithology Plot	DESCRIPTION	Sample Type	Sample Number	Recovery (%)	SPT 'N' / RQD (%)	DEPTH (m)	ELEVATION (m)	FIELD TESTING	LAB TESTING	INSTRUMENTATION INSTALLATION	COMMENTS & GRAIN SIZE DISTRIBUTION (%)
	Grass/weeds Brown **SANDY SILT** trace organics moist							Penetration Testing: ○ SPT □ PPT ● DCPT; MTO Vane* △ Intact ▲ Remould; Nilcon Vane* ◇ Intact ◆ Remould; * Undrained Shear Strength (kPa) 20 40 60 80	Soil Vapour Reading ▲ COV (LEL) 20 40 60 80; △ COV (ppm) □ TOV (ppm) 500 1000 1500 2000; W_P W W_L Plastic Liquid 20 40 60 80		BH1-24-0-1.5 - submitted for BTEX/PHC F1-F4, EC, SAR, pH, PAHs
	Brown 0.46 **SILT** trace medium grained sand, oxidation moist	DT	1	77	NA						
		DT			NA	1					
	Light brown 1.52 **SANDY SILT** trace oxidation moist	DT			NA						
		DT	2	92	NA	2					
	Light brown 2.29 **SILT** trace fine and medium grained sand, oxidation moist										
	------ grey/brown trace laminations saturated					3	▽				BH1-24-10-11.5 - submitted for BTEX/PHC F1-F4, EC, SAR, pH, PAHs
	Dark brown becoming brown/red 3.51 **SANDY SILT** trace oxidation moist	DT	3	90	NA	4					
		DT	4	90	NA	5					

WSP Canada Inc.
50 Vogell Road, Units 3 & 4
Richmond Hill, Ontario, L4B 3K6
Canada
Tel. No.: (905) 415-2632
wsp.com

▽ Groundwater encountered on completion of drilling on 4/1/2024 at a depth of: 3.2 m.

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified Geotechnical Engineer or Professional Geoscientist. Also, borehole information should be read in conjunction with the accompanying report for which it was commissioned and the accompanying 'Explanation of Borehole Log'

Scale: 1 : 29

Continued on Next Page

RECORD OF BOREHOLE No. BH1-24

Project Number: **CA0023482.2117** Project Name: **Phase Two Environmental Site Assessment**

Project Location: **1450 King Road, Burlington, Ontario**

LITHOLOGY PROFILE		SOIL SAMPLING						FIELD TESTING	LAB TESTING			COMMENTS & GRAIN SIZE DISTRIBUTION (%)
Lithology Plot	DESCRIPTION	Sample Type	Sample Number	Recovery (%)	SPT 'N' / RQD (%)	DEPTH (m)	ELEVATION (m)	PenetrationTesting: ○ SPT □ PPT ● DCPT; MTO Vane* △ Intact ▲ Remould; Nilcon Vane* ◇ Intact ◆ Remould; * Undrained Shear Strength (kPa) 20 40 60 80	Soil Vapour Reading: ▲ COV (LEL) 20 40 60 80; △ COV (ppm) □ TOV (ppm) 500 1000 1500 2000; W_P W W_L Plastic Liquid 20 40 60 80	INSTRUMENTATION INSTALLATION	GR SA SI CL
	Grey/brown 5.49 **SILT** trace fine and medium grained sand moist					6					
		DT	5	95	NA	7					BH1-24-20-23.5 - submitted for VOCs
	Red weathered 7.16 **SHALE** damp										
	End of Borehole 7.62										

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified Geotechnical Engineer or Professional Geoscientist. Also, borehole information should be read in conjunction with the accompanying report for which it was commissioned and the accompanying 'Explanation of Borehole Log'

Scale: 1 : 29

RECORD OF MONITORING WELL No. BH/MW2-24

Project Number:	CA0023482.2117	Drilling Location:	BH/MW2-24 E: 593620.3937 N: 4798023.969	Logged by:	LM
Project Client:	Astra Realty	Drilling Method:	150 mm Direct Push	Compiled by:	ZF
Project Name:	Phase Two Environmental Site Assessment	Drilling Machine:	Geoprobe 7822DT	Reviewed by:	IP
Project Location:	1450 King Road, Burlington, Ontario	Date Started:	April 1, 2024	Date Completed:	April 1, 2024
				Revision No.:	0, 6/4/24

Geodetic Ground Surface Elevation: 122.18 mASL

Depth (m)	Elevation (m)	Description	Sample Type	Sample Number	Recovery (%)	SPT 'N' / RQD (%)
0	122	Grass/weeds Brown **SANDY SILT** trace oxidation moist	DT	1	97	NA
		120.66				
1	121	Brown/grey 1.52 **SILT** some sand, trace gravel, oxidation moist	DT	2	88	NA
2	120					
3	119	-------- brown/red	DT	3	90	NA
4	118	117.61				
		Grey/red 4.57 **SAND**				
		117.30				
5	117	Grey/red 4.88 **SILT** 117.15 trace sand 5.03 saturated				
		Grey **CLAYEY SILT** oxidation moist	DT	4	95	NA

FIELD TESTING: Penetration Testing — SPT, PPT, DCPT; MTO Vane* (Intact, Remould); Nilcon Vane* (Intact, Remould); * Undrained Shear Strength (kPa) 20 40 60 80

LAB TESTING: Soil Vapour Reading — COV (LEL) 20 40 60 80; COV (ppm), TOV (ppm) 500 1000 1500 2000; W_P, W, W_L; Plastic, Liquid 20 40 60 80

INSTRUMENTATION INSTALLATION

COMMENTS & GRAIN SIZE DISTRIBUTION (%) — GR SA SI CL

BH/MW2-24-0-2.5 - submitted for BTEX/PHC F1-F4, EC, SAR, pH, PAHs

BH/MW2-24-12.5-15 - submitted for EC, SAR, pH

BH/MW2-24-15-16.5 - submitted for BTEX/PHC F1-F4, EC, SAR, pH, PAHs

WSP Canada Inc.
50 Vogell Road, Units 3 & 4
Richmond Hill, Ontario, L4B 3K6
Canada
Tel. No.: (905) 415-2632
wsp.com

Groundwater encountered on completion of drilling on 4/1/2024 at a depth of: 4.9 m.
Groundwater depth observed on 4/10/24 at a depth of: 0.4 m.

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified Geotechnical Engineer or Professional Geoscientist. Also, borehole information should be read in conjunction with the accompanying report for which it was commissioned and the accompanying 'Explanation of Borehole Log'

Scale: 1 : 29

Continued on Next Page

RECORD OF MONITORING WELL No. BH/MW2-24

Project Number: **CA0023482.2117** Project Name: **Phase Two Environmental Site Assessment**

Project Location: **1450 King Road, Burlington, Ontario**

LITHOLOGY PROFILE			SOIL SAMPLING						FIELD TESTING	LAB TESTING		
Lithology Plot	DESCRIPTION		Sample Type	Sample Number	Recovery (%)	SPT 'N' / RQD (%)	DEPTH (m)	ELEVATION (m)	Penetration Testing: SPT, PPT, DCPT; MTO Vane* Intact/Remould; Nilcon Vane* Intact/Remould; * Undrained Shear Strength (kPa) 20 40 60 80	Soil Vapour Reading: COV (LEL) 20 40 60 80; COV (ppm) TOV (ppm) 500 1000 1500 2000; W_P W W_L Plastic Liquid 20 40 60 80	INSTRUMENTATION INSTALLATION	COMMENTS & GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
	Grey **CLAYEY SILT** oxidation moist	116.08					6	116				
	Grey/red **SAND** saturated	6.10 115.63	DT	5	100	NA						
	Grey/red **CLAYEY SILT** trace medium grained sand moist	6.55 115.17					7					
	SHALE	7.01 115.02										
	End of Borehole Refusal at 7.16m	7.16										
	Monitoring Well Installation Details: (50 mm Dia.) Slot #10 Monument casing Installed Concrete: 0 - 0.30 m Bentonite: 0.30 - 2.74 m Sand: 2.74 - 6.10 m Screen: 3.05 -6.10 m											

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified Geotechnical Engineer or Professional Geoscientist. Also, borehole information should be read in conjunction with the accompanying report for which it was commissioned and the accompanying 'Explanation of Borehole Log'

Scale: 1 : 29

RECORD OF MONITORING WELL No. BH/MW3-24

Project Number:	CA0023482.2117	Drilling Location:	BH/MW3-24 E: 593728.5659 N: 4798044.734	Logged by:	LM
Project Client:	Astra Realty	Drilling Method:	150 mm Direct Push	Compiled by:	ZF
Project Name:	Phase Two Environmental Site Assessment	Drilling Machine:	Geoprobe 7822DT	Reviewed by:	IP
Project Location:	1450 King Road, Burlington, Ontario	Date Started:	April 1, 2024	Date Completed:	April 1, 2024
				Revision No.:	0, 6/4/24

Geodetic Ground Surface Elevation: 119.23 mASL

Lithology Plot	DESCRIPTION	Sample Type	Sample Number	Recovery (%)	SPT 'N' / RQD (%)	DEPTH (m)	ELEVATION (m)	FIELD TESTING	LAB TESTING	INSTRUMENTATION INSTALLATION	COMMENTS & GRAIN SIZE DISTRIBUTION (%)
	Grass/weeds Dark brown **CLAYEY SILT** trace fine and medium grained sand, organics, oxidation moist					0	119	Penetration Testing: ○ SPT □ PPT ● DCPT; MTO Vane* △ Intact ▲ Remould; Nilcon Vane* ◇ Intact ◆ Remould; * Undrained Shear Strength (kPa) 20 40 60 80	Soil Vapour Reading ▲ COV (LEL) 20 40 60 80; △ COV (ppm) □ TOV (ppm) 500 1000 1500 2000; W_P W W_L Plastic Liquid 20 40 60 80		GR SA SI CL
	118.62 Light brown/grey 0.61 **SILT** some sand, trace oxidation moist	DT	1	92	NA	1	118				BH/MW3-24-0-2 - submitted for BTEX/PHC F1-F4, EC, SAR, pH, PAHs BH/MW3-24-2-5 - submitted for EC, SAR, pH, PAHs
		DT	2	85	NA	2	117				
	------ brown/red trace gravel	DT	3	92	NA	3	116				
	------ slight increase in moisture content					4	115				
		DT	4	100	NA	5	114				

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Groundwater encountered on completion of drilling on 4/1/2024 at a depth of: 5.5 m.
Groundwater depth observed on 4/10/24 at a depth of: 0.4 m.

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified Geotechnical Engineer or Professional Geoscientist. Also, borehole information should be read in conjunction with the accompanying report for which it was commissioned and the accompanying 'Explanation of Borehole Log'

Scale: 1 : 29

Continued on Next Page

RECORD OF MONITORING WELL No. BH/MW3-24

Project Number: **CA0023482.2117** Project Name: **Phase Two Environmental Site Assessment**

Project Location: **1450 King Road, Burlington, Ontario**

LITHOLOGY PROFILE		SOIL SAMPLING						FIELD TESTING	LAB TESTING		COMMENTS & GRAIN SIZE DISTRIBUTION (%)
Lithology Plot	DESCRIPTION	Sample Type	Sample Number	Recovery (%)	SPT 'N' / RQD (%)	DEPTH (m)	ELEVATION (m)	Penetration Testing: SPT, PPT, DCPT; MTO Vane* Intact/Remould; Nilcon Vane* Intact/Remould; * Undrained Shear Strength (kPa) 20 40 60 80	Soil Vapour Reading: COV (LEL) 20 40 60 80; COV (ppm) TOV (ppm) 500 1000 1500 2000; W_p W W_l Plastic Liquid 20 40 60 80	INSTRUMENTATION INSTALLATION	GR SA SI CL
	Light brown/grey **SILT** some sand, trace oxidation moist --- grey/red					6	113				BH/MW3-24-18.5-20 - submitted for BTEX/PHC F1-F4
		DT	5	75	NA	7	112				
	111.61 **End of Borehole** 7.62 Monitoring Well Installation Details: (50 mm Dia.) Slot #10 Monument casing Installed Concrete: 0 - 0.30 m Bentonite: 0.30 - 4.27 m Sand: 4.27 - 7.62 m Screen: 4.57 -7.62 m										

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified Geotechnical Engineer or Professional Geoscientist. Also, borehole information should be read in conjunction with the accompanying report for which it was commissioned and the accompanying 'Explanation of Borehole Log'

Scale: 1 : 29

RECORD OF MONITORING WELL No. BH/MW4-24

Project Number:	CA0023482.2117	Drilling Location:	BH/MW4-24 E: 593699.8474 N: 4797983.766	Logged by:	LM
Project Client:	Astra Realty	Drilling Method:	150 mm Direct Push	Compiled by:	ZF
Project Name:	Phase Two Environmental Site Assessment	Drilling Machine:	Geoprobe 7822DT	Reviewed by:	IP
Project Location:	1450 King Road, Burlington, Ontario	Date Started:	April 1, 2024	Date Completed:	April 1, 2024
				Revision No.:	0, 6/4/24

LITHOLOGY PROFILE		SOIL SAMPLING						FIELD TESTING	LAB TESTING			COMMENTS & GRAIN SIZE DISTRIBUTION (%)
Lithology Plot	DESCRIPTION Geodetic Ground Surface Elevation: 117.82 mASL	Sample Type	Sample Number	Recovery (%)	SPT 'N' / RQD (%)	DEPTH (m)	ELEVATION (m)	Penetration Testing: SPT, PPT, DCPT; MTO Vane* Intact/Remould; Nilcon Vane* Intact/Remould; * Undrained Shear Strength (kPa) 20 40 60 80	Soil Vapour Reading: COV (LEL) 20 40 60 80; COV (ppm) TOV (ppm) 500 1000 1500 2000; W_P W W_L Plastic Liquid 20 40 60 80	INSTRUMENTATION INSTALLATION	GR SA SI CL	
	Grass/weeds Grey **SILT** trace fine and medium grained sand, oxidation moist	DT	1	98	NA	1	117					BH/MW4-24-0-2.5 - submitted for BTEX/PHC F1-F4, EC, SAR, pH, PAHs
	116.29 Grey/rown 1.52 **CLAYEY SILT** trace fine and medium grained sand moist	DT	2	98	NA	2	116					
	------ trace grey laminations											BH/MW4-24-7.5-10 - submitted for EC, SAR, pH, PAHs
	------ trace gravel, oxidation	DT	3	98	NA	3	115					
						4	114					
		DT	4	100	NA	5	113					BH/MW4-24-15-17.5 - submitted for BTEX/PHC F1-F4

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Canada
Tel. No.: (905) 415-2632
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Groundwater encountered on completion of drilling on 4/1/2024 at a depth of: 4.6 m.
Groundwater depth observed on 4/10/24 at a depth of: 4.6 m.

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified Geotechnical Engineer or Professional Geoscientist. Also, borehole information should be read in conjunction with the accompanying report for which it was commissioned and the accompanying 'Explanation of Borehole Log'

Scale: 1 : 29

Continued on Next Page

RECORD OF MONITORING WELL No. BH/MW4-24

Project Number: **CA0023482.2117** Project Name: **Phase Two Environmental Site Assessment**

Project Location: **1450 King Road, Burlington, Ontario**

LITHOLOGY PROFILE			SOIL SAMPLING						FIELD TESTING	LAB TESTING		
Lithology Plot	DESCRIPTION		Sample Type	Sample Number	Recovery (%)	SPT 'N' / RQD (%)	DEPTH (m)	ELEVATION (m)	Penetration Testing: SPT, PPT, DCPT; MTO Vane* Intact/Remould; Nilcon Vane* Intact/Remould; * Undrained Shear Strength (kPa) 20 40 60 80	Soil Vapour Reading: COV (LEL) 20 40 60 80; COV (ppm) 500 1000 1500 2000; TOV (ppm); W_P W W_L; Plastic Liquid 20 40 60 80	INSTRUMENTATION INSTALLATION	COMMENTS & GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
	Grey/rown **CLAYEY SILT** trace fine and medium grained sand moist ------- grey/red	111.72					6	112				
	Grey/brown **SILT** trace clay, fine and medium grained sand, gravel moist	6.10	DT	5	90	NA	7	111				
		110.50										
	Brown/red **SHALE**	7.32										
		110.20										
	End of Borehole	7.62										
	Monitoring Well Installation Details: (50 mm Dia.) Slot #10 Monument casing Installed Concrete: 0 - 0.30 m Bentonite: 0.30 - 4.27 m Sand: 4.27 - 7.62 m Screen: 4.57 -7.62 m											

Borehole details as presented, do not constitute a thorough understanding of all potential conditions present and require interpretative assistance from a qualified Geotechnical Engineer or Professional Geoscientist. Also, borehole information should be read in conjunction with the accompanying report for which it was commissioned and the accompanying 'Explanation of Borehole Log'

Scale: 1 : 29

APPENDIX D

Certificates of Analysis

Your P.O. #: P10311CA001
Your Project #: CA0023482.2117
Site Location: 1450 KING ROAD, BURLINGTON
Your C.O.C. #: C#986367-01-01

Attention: Edwin Whitford

WSP Canada Inc.
50 Vogell Road
Units 3 and 4
Richmond Hill, ON
CANADA L4B 3N6

Report Date: 2024/05/16
Report #: R8151862
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4C0683
Received: 2024/04/23, 15:05

Sample Matrix: Water
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	4	N/A	2024/04/26	CAM SOP-00301	EPA 8270D m
Chloride by Automated Colourimetry	4	N/A	2024/04/25	CAM SOP-00463	SM 24 4500-Cl E m
Petroleum Hydro. CCME F1 & BTEX in Water	5	N/A	2024/04/24	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	4	2024/04/24	2024/04/25	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals Analysis by ICP	4	2024/04/25	2024/04/26	CAM SOP-00408	EPA 6010D m
PAH Compounds in Water by GC/MS (SIM)	4	2024/04/24	2024/04/25	CAM SOP-00318	EPA 8270E

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data

Your P.O. #: P10311CA001
Your Project #: CA0023482.2117
Site Location: 1450 KING ROAD, BURLINGTON
Your C.O.C. #: C#986367-01-01

Attention: Edwin Whitford

WSP Canada Inc.
50 Vogell Road
Units 3 and 4
Richmond Hill, ON
CANADA L4B 3N6

Report Date: 2024/05/16
Report #: R8151862
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C4C0683
Received: 2024/04/23, 15:05
reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Gina Baybayan, Project Manager
Email: Gina.Baybayan@bureauveritas.com
Phone# (905)817-5766

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C4C0683
Report Date: 2024/05/16

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 1450 KING ROAD, BURLINGTON
Your P.O. #: P10311CA001
Sampler Initials: JD

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		YZA416	YZA417	YZA418	YZA419		
Sampling Date		2024/04/23 12:25	2024/04/23 07:00	2024/04/23 09:45	2024/04/23		
COC Number		C#986367-01-01	C#986367-01-01	C#986367-01-01	C#986367-01-01		
	UNITS	BH/MW2-24	BH/MW3-24	BH/MW4-24	BHX	RDL	QC Batch
Inorganics							
Dissolved Chloride (Cl-)	mg/L	5.1	35	5.4	36	1.0	9354071

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4C0683
Report Date: 2024/05/16

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 1450 KING ROAD, BURLINGTON
Your P.O. #: P10311CA001
Sampler Initials: JD

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		YZA416	YZA417	YZA418	YZA419	YZA419		
Sampling Date		2024/04/23 12:25	2024/04/23 07:00	2024/04/23 09:45	2024/04/23	2024/04/23		
COC Number		C#986367-01-01	C#986367-01-01	C#986367-01-01	C#986367-01-01	C#986367-01-01		
	UNITS	BH/MW2-24	BH/MW3-24	BH/MW4-24	BHX	BHX Lab-Dup	RDL	QC Batch
Metals								
Dissolved Sodium (Na)	mg/L	22	160	87	160	160	0.5	9354723

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		YZA420		
Sampling Date		2024/04/23		
COC Number		C#986367-01-01		
	UNITS	TRIP BLANK	RDL	QC Batch
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	9353534
Toluene	ug/L	<0.20	0.20	9353534
Ethylbenzene	ug/L	<0.20	0.20	9353534
o-Xylene	ug/L	<0.20	0.20	9353534
p+m-Xylene	ug/L	<0.40	0.40	9353534
Total Xylenes	ug/L	<0.40	0.40	9353534
F1 (C6-C10)	ug/L	<25	25	9353534
F1 (C6-C10) - BTEX	ug/L	<25	25	9353534
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	108		9353534
4-Bromofluorobenzene	%	94		9353534
D10-o-Xylene	%	92		9353534
D4-1,2-Dichloroethane	%	102		9353534

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4C0683
Report Date: 2024/05/16

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 1450 KING ROAD, BURLINGTON
Your P.O. #: P10311CA001
Sampler Initials: JD

O.REG 153 PAHS (WATER)

Bureau Veritas ID		YZA416	YZA417	YZA418	YZA419		
Sampling Date		2024/04/23 12:25	2024/04/23 07:00	2024/04/23 09:45	2024/04/23		
COC Number		C#986367-01-01	C#986367-01-01	C#986367-01-01	C#986367-01-01		
	UNITS	BH/MW2-24	BH/MW3-24	BH/MW4-24	BHX	RDL	QC Batch
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	<0.071	<0.071	0.071	9349969
Polyaromatic Hydrocarbons							
Acenaphthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Benzo(a)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	<0.0090	<0.0090	0.0090	9352720
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Chrysene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Fluoranthene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Fluorene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
2-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Naphthalene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Phenanthrene	ug/L	<0.030	<0.030	<0.030	<0.030	0.030	9352720
Pyrene	ug/L	<0.050	<0.050	<0.050	<0.050	0.050	9352720
Surrogate Recovery (%)							
D10-Anthracene	%	108	106	108	104		9352720
D14-Terphenyl (FS)	%	107	104	106	105		9352720
D8-Acenaphthylene	%	96	91	94	90		9352720

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4C0683
Report Date: 2024/05/16

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 1450 KING ROAD, BURLINGTON
Your P.O. #: P10311CA001
Sampler Initials: JD

O.REG 153 PHCS, BTEX/F1-F4 (WATER)

Bureau Veritas ID		YZA416	YZA417	YZA418	YZA419		
Sampling Date		2024/04/23 12:25	2024/04/23 07:00	2024/04/23 09:45	2024/04/23		
COC Number		C#986367-01-01	C#986367-01-01	C#986367-01-01	C#986367-01-01		
	UNITS	BH/MW2-24	BH/MW3-24	BH/MW4-24	BHX	RDL	QC Batch
BTEX & F1 Hydrocarbons							
Benzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9353534
Toluene	ug/L	<0.20	<0.20	0.31	<0.20	0.20	9353534
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9353534
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	9353534
p+m-Xylene	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	9353534
Total Xylenes	ug/L	<0.40	<0.40	<0.40	<0.40	0.40	9353534
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	9353534
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	9353534
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	9352722
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	9352722
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	<200	200	9352722
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		9352722
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	110	108	108	109		9353534
4-Bromofluorobenzene	%	90	92	92	89		9353534
D10-o-Xylene	%	91	90	90	85		9353534
D4-1,2-Dichloroethane	%	105	104	105	104		9353534
o-Terphenyl	%	91	91	98	96		9352722

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4C0683
Report Date: 2024/05/16

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 1450 KING ROAD, BURLINGTON
Your P.O. #: P10311CA001
Sampler Initials: JD

TEST SUMMARY

Bureau Veritas ID: YZA416 **Collected:** 2024/04/23
Sample ID: BH/MW2-24 **Shipped:**
Matrix: Water **Received:** 2024/04/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9349969	N/A	2024/04/26	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9354071	N/A	2024/04/25	Alina Dobreanu
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9353534	N/A	2024/04/24	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9352722	2024/04/24	2024/04/25	Mohammed Abdul Nafay Shoeb
Dissolved Metals Analysis by ICP	ICP	9354723	2024/04/25	2024/04/26	Suban Kanapathippllai
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9352720	2024/04/24	2024/04/25	Mitesh Raj

Bureau Veritas ID: YZA417 **Collected:** 2024/04/23
Sample ID: BH/MW3-24 **Shipped:**
Matrix: Water **Received:** 2024/04/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9349969	N/A	2024/04/26	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9354071	N/A	2024/04/25	Alina Dobreanu
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9353534	N/A	2024/04/24	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9352722	2024/04/24	2024/04/25	Mohammed Abdul Nafay Shoeb
Dissolved Metals Analysis by ICP	ICP	9354723	2024/04/25	2024/04/26	Suban Kanapathippllai
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9352720	2024/04/24	2024/04/25	Mitesh Raj

Bureau Veritas ID: YZA418 **Collected:** 2024/04/23
Sample ID: BH/MW4-24 **Shipped:**
Matrix: Water **Received:** 2024/04/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9349969	N/A	2024/04/26	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9354071	N/A	2024/04/25	Alina Dobreanu
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9353534	N/A	2024/04/24	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9352722	2024/04/24	2024/04/25	Mohammed Abdul Nafay Shoeb
Dissolved Metals Analysis by ICP	ICP	9354723	2024/04/25	2024/04/26	Suban Kanapathippllai
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9352720	2024/04/24	2024/04/25	Mitesh Raj

Bureau Veritas ID: YZA419 **Collected:** 2024/04/23
Sample ID: BHX **Shipped:**
Matrix: Water **Received:** 2024/04/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9349969	N/A	2024/04/26	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9354071	N/A	2024/04/25	Alina Dobreanu
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9353534	N/A	2024/04/24	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9352722	2024/04/24	2024/04/25	Mohammed Abdul Nafay Shoeb
Dissolved Metals Analysis by ICP	ICP	9354723	2024/04/25	2024/04/26	Suban Kanapathippllai
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9352720	2024/04/24	2024/04/25	Mitesh Raj

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4C0683
Report Date: 2024/05/16

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 1450 KING ROAD, BURLINGTON
Your P.O. #: P10311CA001
Sampler Initials: JD

TEST SUMMARY

Bureau Veritas ID: YZA419 Dup
Sample ID: BHX
Matrix: Water

Collected: 2024/04/23
Shipped:
Received: 2024/04/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals Analysis by ICP	ICP	9354723	2024/04/25	2024/04/26	Suban Kanapathippllai

Bureau Veritas ID: YZA420
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2024/04/23
Shipped:
Received: 2024/04/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	9353534	N/A	2024/04/24	Georgeta Rusu

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.3°C

Revised Report (2024/05/16): Sample ID changed from BH/MW3-24 to BH/MW4-24 for YZA418.

Results relate only to the items tested.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9352720	D10-Anthracene	2024/04/25	106	50 - 130	106	50 - 130	125	%		
9352720	D14-Terphenyl (FS)	2024/04/25	108	50 - 130	111	50 - 130	127	%		
9352720	D8-Acenaphthylene	2024/04/25	97	50 - 130	95	50 - 130	105	%		
9352722	o-Terphenyl	2024/04/25	98	60 - 130	96	60 - 130	97	%		
9353534	1,4-Difluorobenzene	2024/04/24	103	70 - 130	103	70 - 130	110	%		
9353534	4-Bromofluorobenzene	2024/04/24	104	70 - 130	107	70 - 130	84	%		
9353534	D10-o-Xylene	2024/04/24	101	70 - 130	98	70 - 130	91	%		
9353534	D4-1,2-Dichloroethane	2024/04/24	101	70 - 130	102	70 - 130	108	%		
9352720	1-Methylnaphthalene	2024/04/25	115	50 - 130	116	50 - 130	<0.050	ug/L	NC (1)	30
9352720	2-Methylnaphthalene	2024/04/25	111	50 - 130	112	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Acenaphthene	2024/04/25	113	50 - 130	114	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Acenaphthylene	2024/04/25	110	50 - 130	111	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Anthracene	2024/04/25	119	50 - 130	120	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Benzo(a)anthracene	2024/04/25	106	50 - 130	110	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Benzo(a)pyrene	2024/04/25	106	50 - 130	115	50 - 130	<0.0090	ug/L	NC (1)	30
9352720	Benzo(b/j)fluoranthene	2024/04/25	110	50 - 130	117	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Benzo(g,h,i)perylene	2024/04/25	105	50 - 130	114	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Benzo(k)fluoranthene	2024/04/25	119	50 - 130	128	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Chrysene	2024/04/25	105	50 - 130	113	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Dibenzo(a,h)anthracene	2024/04/25	102	50 - 130	110	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Fluoranthene	2024/04/25	125	50 - 130	128	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Fluorene	2024/04/25	112	50 - 130	112	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Indeno(1,2,3-cd)pyrene	2024/04/25	107	50 - 130	118	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Naphthalene	2024/04/25	110	50 - 130	111	50 - 130	<0.050	ug/L	NC (1)	30
9352720	Phenanthrene	2024/04/25	120	50 - 130	122	50 - 130	<0.030	ug/L	NC (1)	30
9352720	Pyrene	2024/04/25	122	50 - 130	126	50 - 130	<0.050	ug/L	NC (1)	30
9352722	F2 (C10-C16 Hydrocarbons)	2024/04/25	92	60 - 140	88	60 - 140	<100	ug/L	NC (1)	30
9352722	F3 (C16-C34 Hydrocarbons)	2024/04/25	92	60 - 140	94	60 - 140	<200	ug/L	NC (1)	30
9352722	F4 (C34-C50 Hydrocarbons)	2024/04/25	89	60 - 140	93	60 - 140	<200	ug/L	NC (1)	30
9353534	Benzene	2024/04/24	100	50 - 140	98	50 - 140	<0.20	ug/L	NC (1)	30

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9353534	Ethylbenzene	2024/04/24	107	50 - 140	104	50 - 140	<0.20	ug/L	NC (1)	30
9353534	F1 (C6-C10) - BTEX	2024/04/24					<25	ug/L	NC (1)	30
9353534	F1 (C6-C10)	2024/04/24	100	60 - 140	97	60 - 140	<25	ug/L	NC (1)	30
9353534	o-Xylene	2024/04/24	101	50 - 140	99	50 - 140	<0.20	ug/L	2.0 (1)	30
9353534	p+m-Xylene	2024/04/24	102	50 - 140	99	50 - 140	<0.40	ug/L	NC (1)	30
9353534	Toluene	2024/04/24	92	50 - 140	90	50 - 140	<0.20	ug/L	NC (1)	30
9353534	Total Xylenes	2024/04/24					<0.40	ug/L	NC (1)	30
9354071	Dissolved Chloride (Cl-)	2024/04/25	NC	80 - 120	94	80 - 120	<1.0	mg/L	0.26 (1)	20
9354723	Dissolved Sodium (Na)	2024/04/26	NC (2)	80 - 120	104	80 - 120	<0.5	mg/L	1.6 (3)	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Matrix Spike Parent ID [YZA419-04]

(3) Duplicate Parent ID [YZA419-04]

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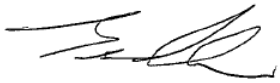
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C4C0683
Report Date: 2024/05/16

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 1450 KING ROAD, BURLINGTON
Your P.O. #: P10311CA001
Sampler Initials: JD

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

NONT-2024-04-2126

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#25843 WSP E & I Canada Limited	Company Name:	#13130 WSP E & I Canada Limited	Quotation #:	C41059
Attention:	Edwin Whitford/AP	Attention:	Edwin Whitford	P.O. #:	P10311CA001
Address:	50 Vogell Road Units 3 and 4 Richmond Hill ON L4B 3N6	Address:	50 Vogell Road Units 3 and 4 Richmond Hill ON L4B 3N6	Project:	CA0023482.2117
Tel:	(905) 415-2632 Fax: (905) 415-1686	Tel:	(905) 415-2632 Fax:	Project Name:	
Email:	edwin.whitford@wsp.com;CAPayablesInvoice@wsp.co	Email:	edwin.whitford@wsp.com; wds.wood.equis@wsp.com	Site #:	1450 King Road, Burlington
				Sampled By:	Jason Bowy

Bottle Order #: 988367
COC #: C#988367-01-01
Project Manager: Gina Baybayan

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☑ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558. ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality	
☐ Table	☐ PWQO ☐ Reg 406 Table	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? N

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required: ☐
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals) Hg / Cr VI	Sodium	Chloride	BTEX/F1-F4	PAHs	PHC F1						# of Bottles	Comments
1		BH/MW2-24	23-Apr-24	12:25	W	Y	X	X	X	X							6	
2		BH/MW3-24	↓	07:00	W	Y	X	X	X	X							6	
3		BH/MW4-24		09:45	W	Y	X	X	X	X							6	
4		BTEX		-	W	Y	X	X	X	X							6	
5		trip Blank	23-Apr-24	-	W	-					X						2	
6																		
7																		
8																		
9																		
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Jason Bowy	23-Apr-24	15:00	[illegible]	2024/04/23	15:05	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	7 | 2 | 2	Present		V
		Intact		V

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

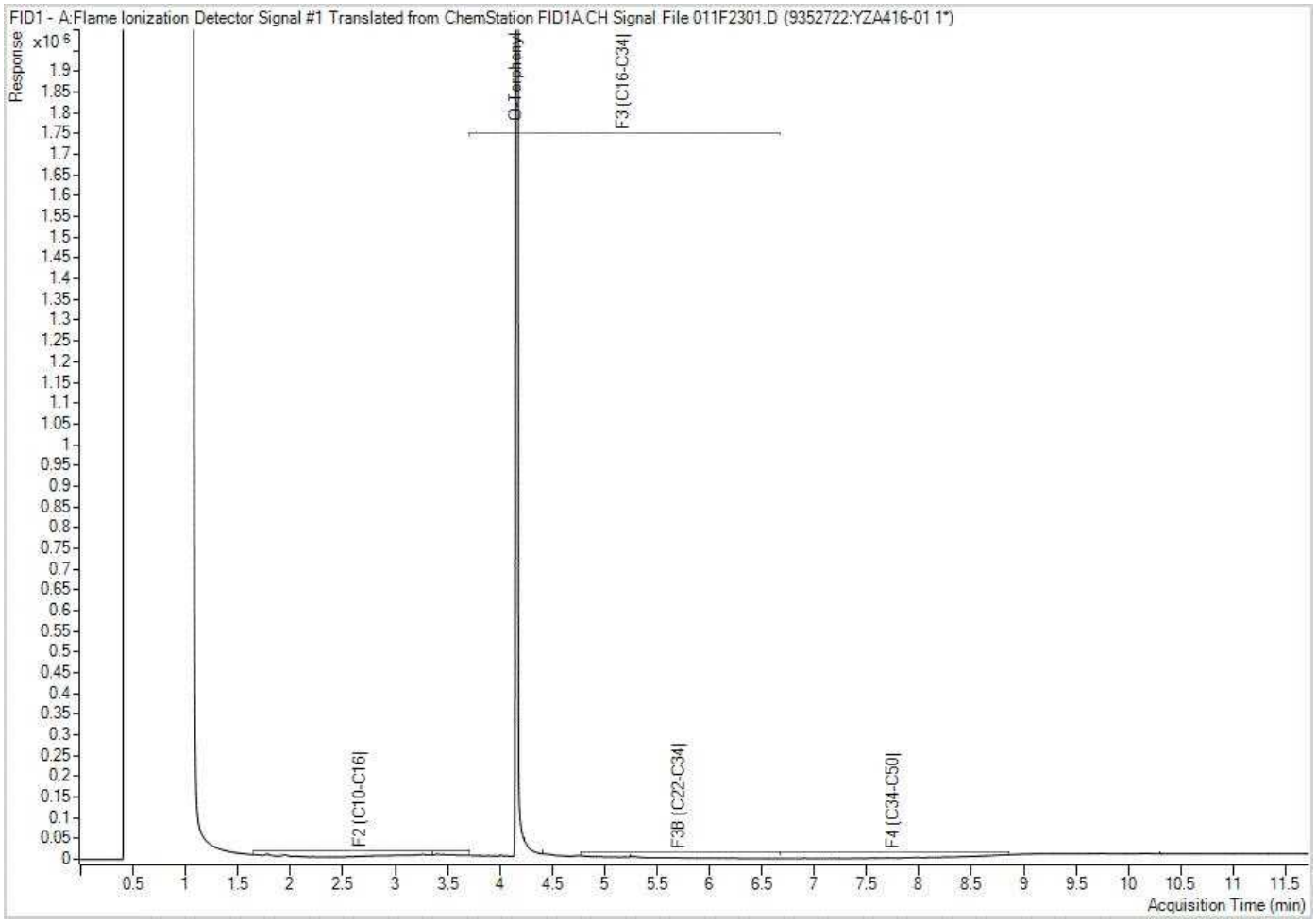
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Bureau Veritas Canada (2019) Inc.

Bureau Veritas Job #: C4C0683
Report Date: 2024/05/16
Bureau Veritas Sample: YZA416

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 1450 KING ROAD, BURLINGTON
Client ID: BH/MW2-24

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

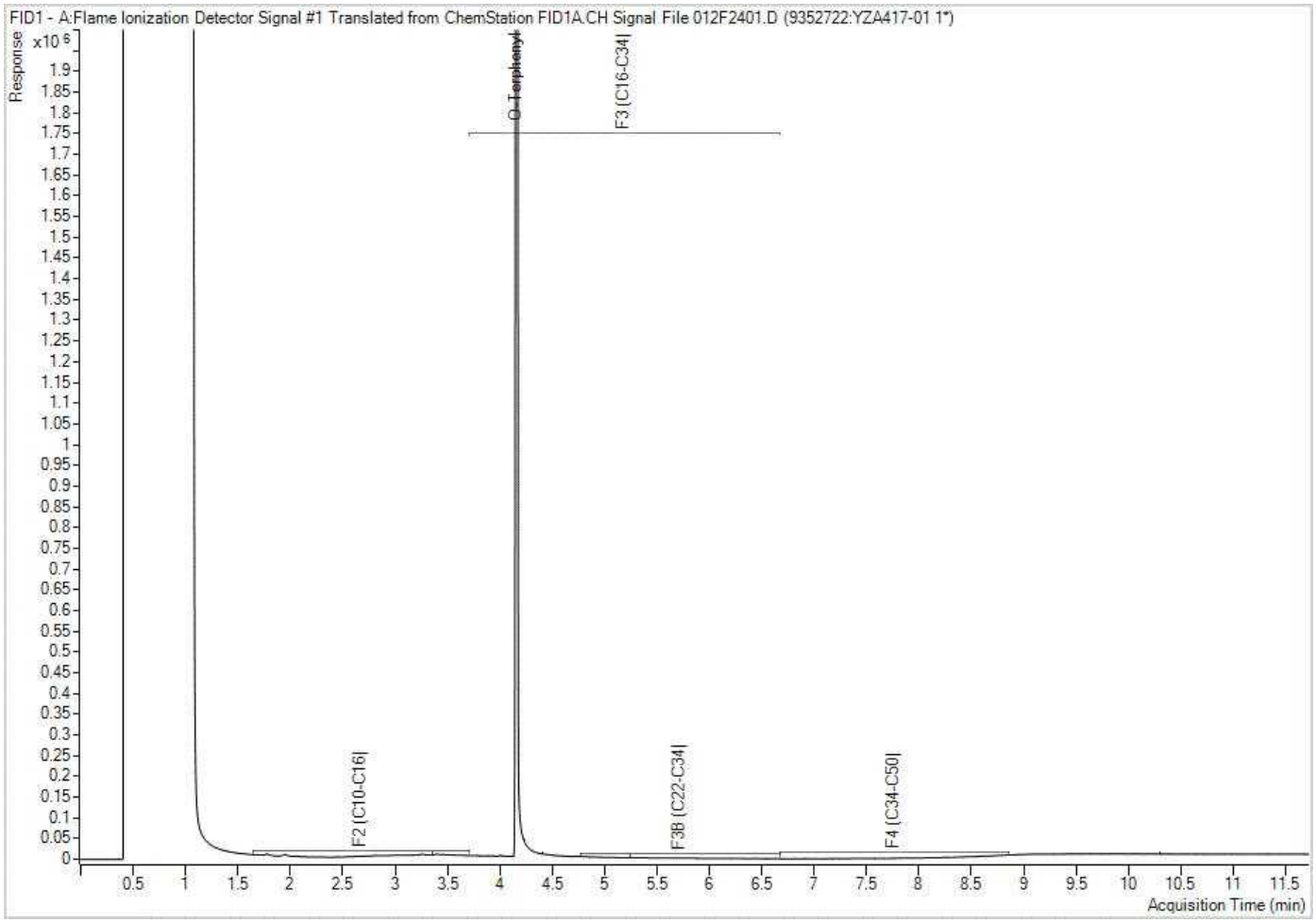


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C4C0683
Report Date: 2024/05/16
Bureau Veritas Sample: YZA417

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 1450 KING ROAD, BURLINGTON
Client ID: BH/MW3-24

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

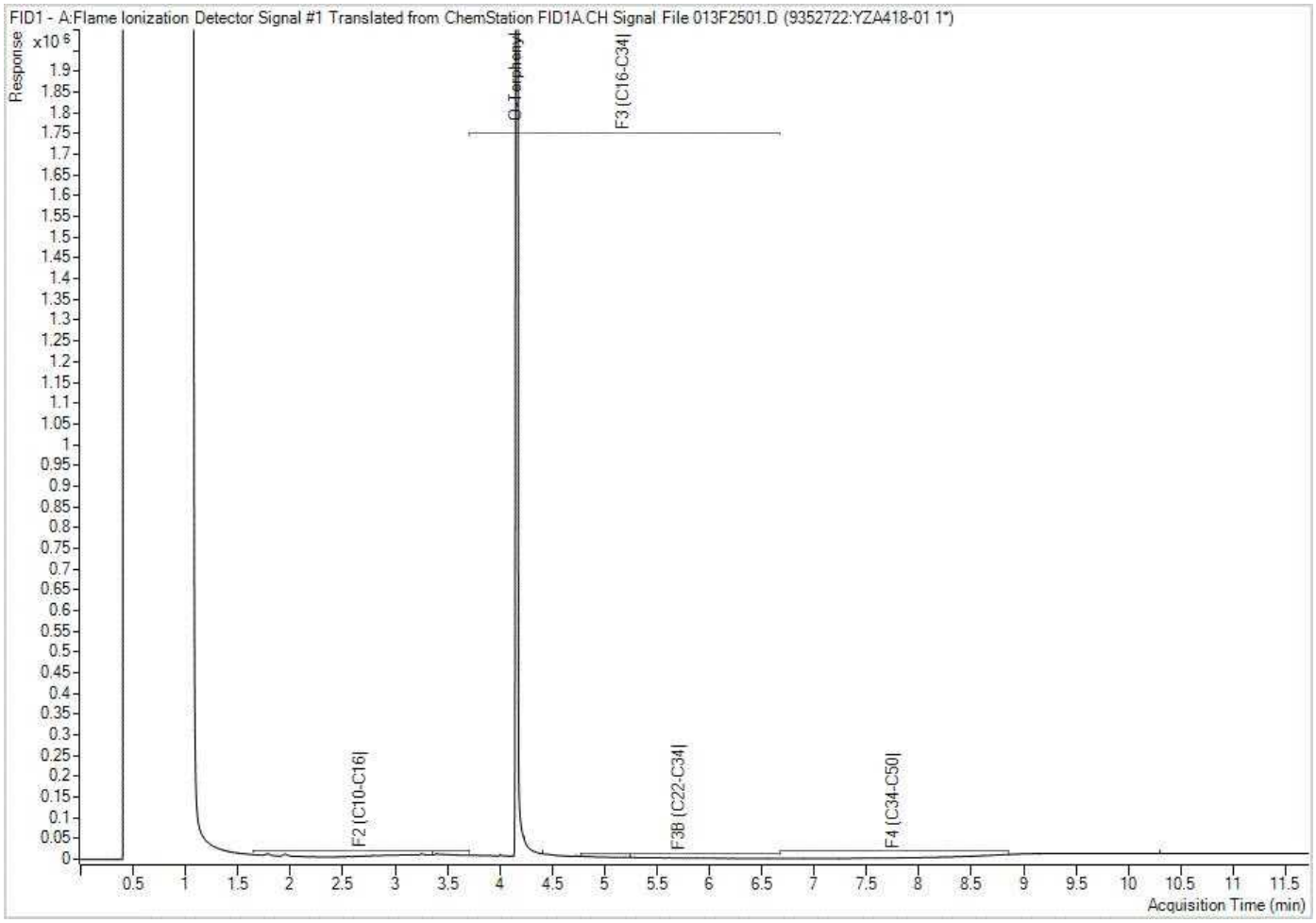


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C4C0683
Report Date: 2024/05/16
Bureau Veritas Sample: YZA418

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 1450 KING ROAD, BURLINGTON
Client ID: BH/MW4-24

Petroleum Hydrocarbons F2-F4 in Water Chromatogram

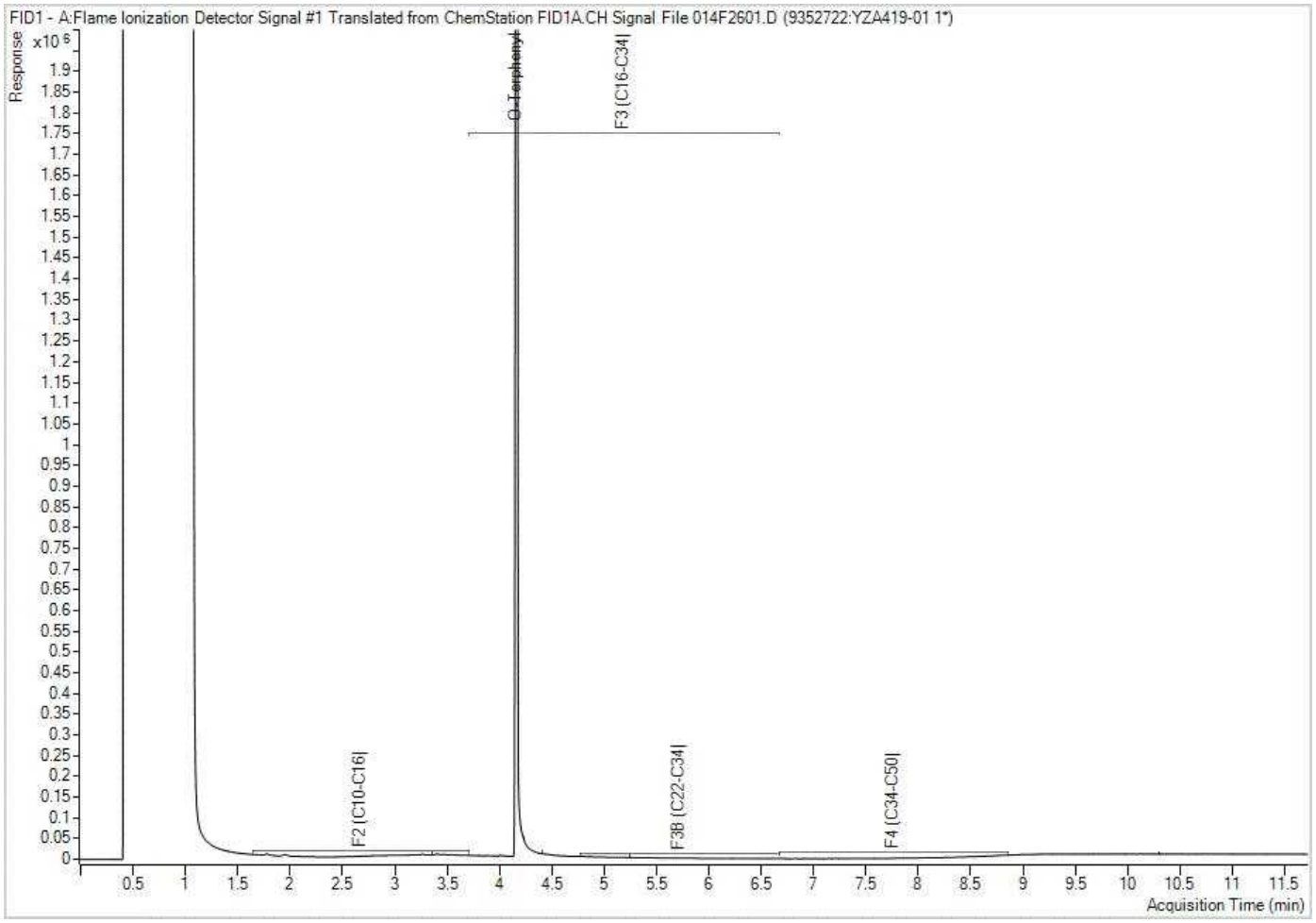


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C4C0683
Report Date: 2024/05/16
Bureau Veritas Sample: YZA419

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 1450 KING ROAD, BURLINGTON
Client ID: BHX

Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Your P.O. #: P103113CA001
Your Project #: CA0023482.2117
Site#: 1450 King Road, Burlington
Your C.O.C. #: 982655-01-01

Attention: Edwin Whitford

WSP E & I Canada Limited
50 Vogell Road
Units 3 and 4
Richmond Hill, ON
CANADA L4B 3N6

Report Date: 2024/04/04
Report #: R8093345
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C492991
Received: 2024/03/27, 16:24

Sample Matrix: Soil
Samples Received: 27

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	7	N/A	2024/04/01	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum	20	N/A	2024/04/02	CAM SOP-00301	EPA 8270D m
Conductivity	26	2024/04/02	2024/04/02	CAM SOP-00414	OMOE E3530 v1 m
Conductivity	1	2024/04/03	2024/04/03	CAM SOP-00414	OMOE E3530 v1 m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	7	N/A	2024/03/28	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	20	N/A	2024/04/01	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	27	2024/03/31	2024/03/31	CAM SOP-00316	CCME CWS m
Moisture	27	N/A	2024/03/30	CAM SOP-00445	Carter 2nd ed 70.2 m
PAH Compounds in Soil by GC/MS (SIM)	7	2024/03/31	2024/03/31	CAM SOP-00318	EPA 8270E
PAH Compounds in Soil by GC/MS (SIM)	20	2024/04/01	2024/04/01	CAM SOP-00318	EPA 8270E
Sodium Adsorption Ratio (SAR)	26	N/A	2024/04/03	CAM SOP-00102	EPA 6010C
Sodium Adsorption Ratio (SAR)	1	N/A	2024/04/04	CAM SOP-00102	EPA 6010C

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Your P.O. #: P103113CA001
Your Project #: CA0023482.2117
Site#: 1450 King Road, Burlington
Your C.O.C. #: 982655-01-01

Attention: Edwin Whitford

WSP E & I Canada Limited
50 Vogell Road
Units 3 and 4
Richmond Hill, ON
CANADA L4B 3N6

Report Date: 2024/04/04
Report #: R8093345
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C492991

Received: 2024/03/27, 16:24

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Gina Baybayan, Project Manager
Email: Gina.Baybayan@bureauveritas.com
Phone# (905)817-5766

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O.REG 153 PAHS (SOIL)

Bureau Veritas ID		YTI854	YTI855	YTI856	YTI857	YTI858	YTI859		
Sampling Date		2024/03/27 09:33	2024/03/27 09:51	2024/03/27 10:04	2024/03/27 10:24	2024/03/27 10:48	2024/03/27 10:58		
COC Number		982655-01-01	982655-01-01	982655-01-01	982655-01-01	982655-01-01	982655-01-01		
	UNITS	SP-N-1	SP-N-2	SP-N-3	SP-N-4	SP-N-5	SP-N-6	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	9302538
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9306340
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9306340
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	0.012	<0.0050	<0.0050	0.0050	9306340
Benzo(a)anthracene	ug/g	0.010	0.0069	<0.0050	0.034	<0.0050	0.0068	0.0050	9306340
Benzo(a)pyrene	ug/g	0.012	0.0081	0.0055	0.034	<0.0050	0.0076	0.0050	9306340
Benzo(b/j)fluoranthene	ug/g	0.020	0.012	0.0090	0.046	0.0053	0.011	0.0050	9306340
Benzo(g,h,i)perylene	ug/g	0.0088	0.0054	<0.0050	0.017	<0.0050	<0.0050	0.0050	9306340
Benzo(k)fluoranthene	ug/g	0.0064	<0.0050	<0.0050	0.018	<0.0050	<0.0050	0.0050	9306340
Chrysene	ug/g	0.011	0.0078	0.0055	0.032	<0.0050	0.0073	0.0050	9306340
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9306340
Fluoranthene	ug/g	0.026	0.017	0.013	0.089	0.0061	0.018	0.0050	9306340
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9306340
Indeno(1,2,3-cd)pyrene	ug/g	0.0089	0.0056	<0.0050	0.019	<0.0050	<0.0050	0.0050	9306340
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9306340
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9306340
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9306340
Phenanthrene	ug/g	0.014	0.0095	0.0072	0.060	<0.0050	0.012	0.0050	9306340
Pyrene	ug/g	0.020	0.013	0.010	0.068	<0.0050	0.014	0.0050	9306340
Surrogate Recovery (%)									
D10-Anthracene	%	115	111	105	105	112	108		9306340
D14-Terphenyl (FS)	%	108	102	94	98	103	99		9306340
D8-Acenaphthylene	%	92	87	81	84	88	82		9306340

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		YTI859			YTI860		YTI861		
Sampling Date		2024/03/27 10:58			2024/03/27 11:04		2024/03/27 11:20		
COC Number		982655-01-01			982655-01-01		982655-01-01		
	UNITS	SP-N-6 Lab-Dup	RDL	QC Batch	SP-N-7	QC Batch	SP-N-8	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g				<0.0071	9302538	<0.0071	0.0071	9302538
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Acenaphthylene	ug/g	<0.0050	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Anthracene	ug/g	<0.0050	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Benzo(a)anthracene	ug/g	0.0052	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Benzo(a)pyrene	ug/g	0.0061	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Benzo(b/j)fluoranthene	ug/g	0.0093	0.0050	9306340	0.0079	9306340	<0.0050	0.0050	9306099
Benzo(g,h,i)perylene	ug/g	<0.0050	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Benzo(k)fluoranthene	ug/g	<0.0050	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Chrysene	ug/g	0.0056	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Fluoranthene	ug/g	0.013	0.0050	9306340	0.0087	9306340	<0.0050	0.0050	9306099
Fluorene	ug/g	<0.0050	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
1-Methylnaphthalene	ug/g	<0.0050	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
2-Methylnaphthalene	ug/g	<0.0050	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Naphthalene	ug/g	<0.0050	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Phenanthrene	ug/g	0.0074	0.0050	9306340	<0.0050	9306340	<0.0050	0.0050	9306099
Pyrene	ug/g	0.010	0.0050	9306340	0.0069	9306340	<0.0050	0.0050	9306099
Surrogate Recovery (%)									
D10-Anthracene	%	112		9306340	108	9306340	116		9306099
D14-Terphenyl (FS)	%	103		9306340	99	9306340	102		9306099
D8-Acenaphthylene	%	86		9306340	84	9306340	88		9306099

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		YTI862	YTI863	YTI864		YTI865		
Sampling Date		2024/03/27 12:00	2024/03/27 12:13	2024/03/27 12:07		2024/03/27 11:55		
COC Number		982655-01-01	982655-01-01	982655-01-01		982655-01-01		
	UNITS	SP-N-9	SP-N-10	SP-N-11	QC Batch	SP-N-12	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	9303733	<0.0071	0.0071	9303733
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
Anthracene	ug/g	<0.0050	0.0069	<0.0050	9306340	<0.0050	0.0050	9306099
Benzo(a)anthracene	ug/g	<0.0050	0.021	<0.0050	9306340	0.010	0.0050	9306099
Benzo(a)pyrene	ug/g	<0.0050	0.023	<0.0050	9306340	0.010	0.0050	9306099
Benzo(b/j)fluoranthene	ug/g	0.0062	0.032	0.0072	9306340	0.014	0.0050	9306099
Benzo(g,h,i)perylene	ug/g	<0.0050	0.014	<0.0050	9306340	0.0056	0.0050	9306099
Benzo(k)fluoranthene	ug/g	<0.0050	0.011	<0.0050	9306340	0.0050	0.0050	9306099
Chrysene	ug/g	<0.0050	0.022	<0.0050	9306340	0.010	0.0050	9306099
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
Fluoranthene	ug/g	0.0083	0.054	0.010	9306340	0.027	0.0050	9306099
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	0.015	<0.0050	9306340	0.0055	0.0050	9306099
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
Phenanthrene	ug/g	<0.0050	0.035	0.0055	9306340	0.017	0.0050	9306099
Pyrene	ug/g	0.0065	0.042	0.0078	9306340	0.020	0.0050	9306099
Surrogate Recovery (%)								
D10-Anthracene	%	117	110	110	9306340	113		9306099
D14-Terphenyl (FS)	%	110	104	101	9306340	101		9306099
D8-Acenaphthylene	%	94	89	83	9306340	88		9306099

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		YTI866	YTI867	YTI868	YTI869		YTI870		
Sampling Date		2024/03/27 13:15	2024/03/27 13:20	2024/03/27 13:27	2024/03/27 14:17		2024/03/27 14:25		
COC Number		982655-01-01	982655-01-01	982655-01-01	982655-01-01		982655-01-01		
	UNITS	SP-S-1	SP-S-2	SP-S-3	SP-S-4	QC Batch	SP-S-5	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	<0.0071	9303733	<0.0071	0.0071	9303733
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	0.0052	9306340	<0.0050	0.0050	9306099
Benzo(a)anthracene	ug/g	0.0088	<0.0050	0.0086	0.017	9306340	0.0054	0.0050	9306099
Benzo(a)pyrene	ug/g	0.012	<0.0050	0.011	0.018	9306340	0.0060	0.0050	9306099
Benzo(b/j)fluoranthene	ug/g	0.018	0.0082	0.019	0.023	9306340	0.0090	0.0050	9306099
Benzo(g,h,i)perylene	ug/g	0.0094	<0.0050	0.0083	0.0097	9306340	<0.0050	0.0050	9306099
Benzo(k)fluoranthene	ug/g	0.0061	<0.0050	0.0061	0.0087	9306340	<0.0050	0.0050	9306099
Chrysene	ug/g	0.0096	<0.0050	0.010	0.017	9306340	0.0057	0.0050	9306099
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
Fluoranthene	ug/g	0.021	0.0094	0.022	0.044	9306340	0.013	0.0050	9306099
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
Indeno(1,2,3-cd)pyrene	ug/g	0.0086	<0.0050	0.0087	0.010	9306340	<0.0050	0.0050	9306099
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	9306340	<0.0050	0.0050	9306099
Phenanthrene	ug/g	0.010	<0.0050	0.0097	0.028	9306340	0.0075	0.0050	9306099
Pyrene	ug/g	0.017	0.0074	0.017	0.034	9306340	0.011	0.0050	9306099
Surrogate Recovery (%)									
D10-Anthracene	%	110	111	108	117	9306340	112		9306099
D14-Terphenyl (FS)	%	103	103	102	107	9306340	99		9306099
D8-Acenaphthylene	%	89	87	89	93	9306340	87		9306099

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		YTI871		YTI872		YTI873		YTI874		
Sampling Date		2024/03/27 14:30		2024/03/27 13:44		2024/03/27 13:58		2024/03/27 14:06		
COC Number		982655-01-01		982655-01-01		982655-01-01		982655-01-01		
	UNITS	SP-S-6	QC Batch	SP-S-7	QC Batch	SP-S-8	QC Batch	SP-S-9	RDL	QC Batch
Calculated Parameters										
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	9303733	<0.0071	9303733	<0.0071	9303733	<0.0071	0.0071	9303733
Polyaromatic Hydrocarbons										
Acenaphthene	ug/g	<0.0050	9306340	<0.0050	9306099	<0.0050	9306340	<0.0050	0.0050	9306099
Acenaphthylene	ug/g	<0.0050	9306340	<0.0050	9306099	<0.0050	9306340	<0.0050	0.0050	9306099
Anthracene	ug/g	0.0065	9306340	<0.0050	9306099	0.012	9306340	<0.0050	0.0050	9306099
Benzo(a)anthracene	ug/g	0.023	9306340	0.0068	9306099	0.039	9306340	0.0064	0.0050	9306099
Benzo(a)pyrene	ug/g	0.024	9306340	0.0082	9306099	0.041	9306340	0.0081	0.0050	9306099
Benzo(b/j)fluoranthene	ug/g	0.035	9306340	0.014	9306099	0.057	9306340	0.012	0.0050	9306099
Benzo(g,h,i)perylene	ug/g	0.015	9306340	0.0064	9306099	0.025	9306340	0.0063	0.0050	9306099
Benzo(k)fluoranthene	ug/g	0.012	9306340	<0.0050	9306099	0.020	9306340	<0.0050	0.0050	9306099
Chrysene	ug/g	0.023	9306340	0.0075	9306099	0.038	9306340	0.0073	0.0050	9306099
Dibenzo(a,h)anthracene	ug/g	<0.0050	9306340	<0.0050	9306099	0.0052	9306340	<0.0050	0.0050	9306099
Fluoranthene	ug/g	0.063	9306340	0.016	9306099	0.096	9306340	0.017	0.0050	9306099
Fluorene	ug/g	<0.0050	9306340	<0.0050	9306099	<0.0050	9306340	<0.0050	0.0050	9306099
Indeno(1,2,3-cd)pyrene	ug/g	0.016	9306340	0.0067	9306099	0.026	9306340	0.0056	0.0050	9306099
1-Methylnaphthalene	ug/g	<0.0050	9306340	<0.0050	9306099	<0.0050	9306340	<0.0050	0.0050	9306099
2-Methylnaphthalene	ug/g	<0.0050	9306340	<0.0050	9306099	<0.0050	9306340	<0.0050	0.0050	9306099
Naphthalene	ug/g	<0.0050	9306340	<0.0050	9306099	<0.0050	9306340	<0.0050	0.0050	9306099
Phenanthrene	ug/g	0.039	9306340	0.0082	9306099	0.060	9306340	0.0096	0.0050	9306099
Pyrene	ug/g	0.048	9306340	0.012	9306099	0.074	9306340	0.013	0.0050	9306099
Surrogate Recovery (%)										
D10-Anthracene	%	110	9306340	109	9306099	115	9306340	114		9306099
D14-Terphenyl (FS)	%	104	9306340	98	9306099	108	9306340	100		9306099
D8-Acenaphthylene	%	91	9306340	85	9306099	94	9306340	88		9306099

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		YTI875	YTI876	YTI877		YTI878	YTI879		
Sampling Date		2024/03/27 14:11	2024/03/27 13:37	2024/03/27 13:50		2024/03/27	2024/03/27		
COC Number		982655-01-01	982655-01-01	982655-01-01		982655-01-01	982655-01-01		
	UNITS	SP-S-10	SP-S-11	SP-S-12	QC Batch	DUP-1	DUP-2	RDL	QC Batch
Calculated Parameters									
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	9303733	<0.0071	<0.0071	0.0071	9303733
Polyaromatic Hydrocarbons									
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	<0.0050	0.0050	9306099
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	<0.0050	0.0050	9306099
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	<0.0050	0.0050	9306099
Benzo(a)anthracene	ug/g	<0.0050	0.0050	<0.0050	9306340	0.0082	<0.0050	0.0050	9306099
Benzo(a)pyrene	ug/g	<0.0050	0.0062	<0.0050	9306340	0.0085	<0.0050	0.0050	9306099
Benzo(b/j)fluoranthene	ug/g	<0.0050	0.0096	<0.0050	9306340	0.012	0.0071	0.0050	9306099
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	9306340	0.0056	<0.0050	0.0050	9306099
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	<0.0050	0.0050	9306099
Chrysene	ug/g	<0.0050	0.0059	<0.0050	9306340	0.0079	<0.0050	0.0050	9306099
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	<0.0050	0.0050	9306099
Fluoranthene	ug/g	<0.0050	0.012	<0.0050	9306340	0.020	0.0077	0.0050	9306099
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	<0.0050	0.0050	9306099
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	9306340	0.0054	<0.0050	0.0050	9306099
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	<0.0050	0.0050	9306099
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	<0.0050	0.0050	9306099
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	9306340	<0.0050	<0.0050	0.0050	9306099
Phenanthrene	ug/g	<0.0050	0.0055	<0.0050	9306340	0.013	<0.0050	0.0050	9306099
Pyrene	ug/g	<0.0050	0.0094	<0.0050	9306340	0.015	0.0060	0.0050	9306099
Surrogate Recovery (%)									
D10-Anthracene	%	116	113	116	9306340	102	112		9306099
D14-Terphenyl (FS)	%	106	104	102	9306340	90	100		9306099
D8-Acenaphthylene	%	87	91	89	9306340	81	89		9306099

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		YTI880		
Sampling Date		2024/03/27		
COC Number		982655-01-01		
	UNITS	DUP-3	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	9303733
Polyaromatic Hydrocarbons				
Acenaphthene	ug/g	<0.0050	0.0050	9306340
Acenaphthylene	ug/g	<0.0050	0.0050	9306340
Anthracene	ug/g	<0.0050	0.0050	9306340
Benzo(a)anthracene	ug/g	0.0080	0.0050	9306340
Benzo(a)pyrene	ug/g	0.011	0.0050	9306340
Benzo(b/j)fluoranthene	ug/g	0.018	0.0050	9306340
Benzo(g,h,i)perylene	ug/g	0.0084	0.0050	9306340
Benzo(k)fluoranthene	ug/g	0.0065	0.0050	9306340
Chrysene	ug/g	0.010	0.0050	9306340
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	9306340
Fluoranthene	ug/g	0.020	0.0050	9306340
Fluorene	ug/g	<0.0050	0.0050	9306340
Indeno(1,2,3-cd)pyrene	ug/g	0.0086	0.0050	9306340
1-Methylnaphthalene	ug/g	<0.0050	0.0050	9306340
2-Methylnaphthalene	ug/g	<0.0050	0.0050	9306340
Naphthalene	ug/g	<0.0050	0.0050	9306340
Phenanthrene	ug/g	0.0098	0.0050	9306340
Pyrene	ug/g	0.015	0.0050	9306340
Surrogate Recovery (%)				
D10-Anthracene	%	114		9306340
D14-Terphenyl (FS)	%	108		9306340
D8-Acenaphthylene	%	94		9306340

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		YTI854	YTI855			YTI855			YTI856		
Sampling Date		2024/03/27 09:33	2024/03/27 09:51			2024/03/27 09:51			2024/03/27 10:04		
COC Number		982655-01-01	982655-01-01			982655-01-01			982655-01-01		
	UNITS	SP-N-1	SP-N-2	RDL	QC Batch	SP-N-2 Lab-Dup	RDL	QC Batch	SP-N-3	RDL	QC Batch
BTEX & F1 Hydrocarbons											
Benzene	ug/g	<0.020	<0.020	0.020	9304845				<0.020	0.020	9304845
Toluene	ug/g	<0.020	<0.020	0.020	9304845				<0.020	0.020	9304845
Ethylbenzene	ug/g	<0.020	<0.020	0.020	9304845				<0.020	0.020	9304845
o-Xylene	ug/g	<0.020	<0.020	0.020	9304845				<0.020	0.020	9304845
p+m-Xylene	ug/g	<0.040	<0.040	0.040	9304845				<0.040	0.040	9304845
Total Xylenes	ug/g	<0.040	<0.040	0.040	9304845				<0.040	0.040	9304845
F1 (C6-C10)	ug/g	<10	<10	10	9304845				<10	10	9304845
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	9304845				<10	10	9304845
F2-F4 Hydrocarbons											
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	9306113	<10	10	9306113	<10	10	9306113
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	50	9306113	<50	50	9306113	<50	50	9306113
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	50	9306113	<50	50	9306113	<50	50	9306113
Reached Baseline at C50	ug/g	Yes	Yes		9306113	Yes		9306113	Yes		9306113
Surrogate Recovery (%)											
1,4-Difluorobenzene	%	93	92		9304845				94		9304845
4-Bromofluorobenzene	%	103	104		9304845				103		9304845
D10-o-Xylene	%	102	97		9304845				96		9304845
D4-1,2-Dichloroethane	%	98	98		9304845				98		9304845
o-Terphenyl	%	91	94		9306113	89		9306113	88		9306113

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		YTI857	YTI858	YTI859	YTI860		YTI861		
Sampling Date		2024/03/27 10:24	2024/03/27 10:48	2024/03/27 10:58	2024/03/27 11:04		2024/03/27 11:20		
COC Number		982655-01-01	982655-01-01	982655-01-01	982655-01-01		982655-01-01		
	UNITS	**SP-N-4**	**SP-N-5**	**SP-N-6**	**SP-N-7**	**QC Batch**	**SP-N-8**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons									
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	9304845	<0.020	0.020	9304845
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	9304845	<0.020	0.020	9304845
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	<0.020	9304845	<0.020	0.020	9304845
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	9304845	<0.020	0.020	9304845
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	<0.040	9304845	<0.040	0.040	9304845
Total Xylenes	ug/g	<0.040	<0.040	<0.040	<0.040	9304845	<0.040	0.040	9304845
F1 (C6-C10)	ug/g	<10	<10	<10	<10	9304845	<10	10	9304845
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	9304845	<10	10	9304845
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	9306113	<10	10	9306112
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	9306113	<50	50	9306112
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	9306113	<50	50	9306112
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes	9306113	Yes		9306112
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	88	96	93	96	9304845	94		9304845
4-Bromofluorobenzene	%	104	101	105	101	9304845	103		9304845
D10-o-Xylene	%	90	109	106	97	9304845	105		9304845
D4-1,2-Dichloroethane	%	89	94	94	96	9304845	96		9304845
o-Terphenyl	%	91	95	95	86	9306113	94		9306112

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		YTI862	YTI863	YTI864		YTI865		YTI866		
Sampling Date		2024/03/27 12:00	2024/03/27 12:13	2024/03/27 12:07		2024/03/27 11:55		2024/03/27 13:15		
COC Number		982655-01-01	982655-01-01	982655-01-01		982655-01-01		982655-01-01		
	UNITS	SP-N-9	SP-N-10	SP-N-11	QC Batch	SP-N-12	QC Batch	SP-S-1	RDL	QC Batch
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020	<0.020	<0.020	9304845	<0.020	9304845	<0.020	0.020	9304845
Toluene	ug/g	<0.020	<0.020	<0.020	9304845	<0.020	9304845	<0.020	0.020	9304845
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	9304845	<0.020	9304845	<0.020	0.020	9304845
o-Xylene	ug/g	<0.020	<0.020	<0.020	9304845	<0.020	9304845	<0.020	0.020	9304845
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	9304845	<0.040	9304845	<0.040	0.040	9304845
Total Xylenes	ug/g	<0.040	<0.040	<0.040	9304845	<0.040	9304845	<0.040	0.040	9304845
F1 (C6-C10)	ug/g	<10	<10	<10	9304845	<10	9304845	<10	10	9304845
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	9304845	<10	9304845	<10	10	9304845
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	9306113	<10	9306112	<10	10	9306113
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	9306113	<50	9306112	<50	50	9306113
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	9306113	<50	9306112	<50	50	9306113
Reached Baseline at C50	ug/g	Yes	Yes	Yes	9306113	Yes	9306112	Yes		9306113
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	95	94	95	9304845	96	9304845	95		9304845
4-Bromofluorobenzene	%	102	102	102	9304845	101	9304845	101		9304845
D10-o-Xylene	%	101	94	106	9304845	106	9304845	99		9304845
D4-1,2-Dichloroethane	%	94	93	95	9304845	95	9304845	96		9304845
o-Terphenyl	%	101	96	94	9306113	99	9306112	95		9306113

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		YTI867	YTI868	YTI869		YTI870		YTI871		
Sampling Date		2024/03/27 13:20	2024/03/27 13:27	2024/03/27 14:17		2024/03/27 14:25		2024/03/27 14:30		
COC Number		982655-01-01	982655-01-01	982655-01-01		982655-01-01		982655-01-01		
	UNITS	SP-S-2	SP-S-3	SP-S-4	QC Batch	SP-S-5	QC Batch	SP-S-6	RDL	QC Batch
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020	<0.020	<0.020	9304845	<0.020	9304845	<0.020	0.020	9304845
Toluene	ug/g	<0.020	<0.020	<0.020	9304845	<0.020	9304845	<0.020	0.020	9304845
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	9304845	<0.020	9304845	<0.020	0.020	9304845
o-Xylene	ug/g	<0.020	<0.020	<0.020	9304845	<0.020	9304845	<0.020	0.020	9304845
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	9304845	<0.040	9304845	<0.040	0.040	9304845
Total Xylenes	ug/g	<0.040	<0.040	<0.040	9304845	<0.040	9304845	<0.040	0.040	9304845
F1 (C6-C10)	ug/g	<10	<10	<10	9304845	<10	9304845	<10	10	9304845
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	9304845	<10	9304845	<10	10	9304845
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	9306113	<10	9306112	<10	10	9306113
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	9306113	<50	9306112	<50	50	9306113
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	9306113	<50	9306112	<50	50	9306113
Reached Baseline at C50	ug/g	Yes	Yes	Yes	9306113	Yes	9306112	Yes		9306113
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	93	95	94	9304845	95	9304845	97		9304845
4-Bromofluorobenzene	%	104	103	102	9304845	103	9304845	100		9304845
D10-o-Xylene	%	102	97	111	9304845	112	9304845	101		9304845
D4-1,2-Dichloroethane	%	97	95	93	9304845	94	9304845	92		9304845
o-Terphenyl	%	91	96	89	9306113	98	9306112	97		9306113

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		YTI872			YTI872			YTI873		
Sampling Date		2024/03/27 13:44			2024/03/27 13:44			2024/03/27 13:58		
COC Number		982655-01-01			982655-01-01			982655-01-01		
	UNITS	SP-S-7	RDL	QC Batch	SP-S-7 Lab-Dup	RDL	QC Batch	SP-S-8	RDL	QC Batch
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020	0.020	9304845	<0.020	0.020	9304845	<0.020	0.020	9304845
Toluene	ug/g	<0.020	0.020	9304845	<0.020	0.020	9304845	<0.020	0.020	9304845
Ethylbenzene	ug/g	<0.020	0.020	9304845	<0.020	0.020	9304845	<0.020	0.020	9304845
o-Xylene	ug/g	<0.020	0.020	9304845	<0.020	0.020	9304845	<0.020	0.020	9304845
p+m-Xylene	ug/g	<0.040	0.040	9304845	<0.040	0.040	9304845	<0.040	0.040	9304845
Total Xylenes	ug/g	<0.040	0.040	9304845	<0.040	0.040	9304845	<0.040	0.040	9304845
F1 (C6-C10)	ug/g	<10	10	9304845	<10	10	9304845	<10	10	9304845
F1 (C6-C10) - BTEX	ug/g	<10	10	9304845	<10	10	9304845	<10	10	9304845
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	9306112				<10	10	9306113
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	9306112				<50	50	9306113
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	9306112				<50	50	9306113
Reached Baseline at C50	ug/g	Yes		9306112				Yes		9306113
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	100		9304845	96		9304845	96		9304845
4-Bromofluorobenzene	%	100		9304845	101		9304845	101		9304845
D10-o-Xylene	%	104		9304845	102		9304845	103		9304845
D4-1,2-Dichloroethane	%	87		9304845	93		9304845	92		9304845
o-Terphenyl	%	96		9306112				98		9306113

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C492991
Report Date: 2024/04/04

WSP E & I Canada Limited
Client Project #: CA0023482.2117
Your P.O. #: P103113CA001
Sampler Initials: RR

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		YTI874		YTI875	YTI876	YTI877		YTI878		
Sampling Date		2024/03/27 14:06		2024/03/27 14:11	2024/03/27 13:37	2024/03/27 13:50		2024/03/27		
COC Number		982655-01-01		982655-01-01	982655-01-01	982655-01-01		982655-01-01		
	UNITS	SP-S-9	QC Batch	SP-S-10	SP-S-11	SP-S-12	QC Batch	DUP-1	RDL	QC Batch
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020	9304810	<0.020	<0.020	<0.020	9304810	<0.020	0.020	9304810
Toluene	ug/g	<0.020	9304810	<0.020	<0.020	<0.020	9304810	<0.020	0.020	9304810
Ethylbenzene	ug/g	<0.020	9304810	<0.020	<0.020	<0.020	9304810	<0.020	0.020	9304810
o-Xylene	ug/g	<0.020	9304810	<0.020	<0.020	<0.020	9304810	<0.020	0.020	9304810
p+m-Xylene	ug/g	<0.040	9304810	<0.040	<0.040	<0.040	9304810	<0.040	0.040	9304810
Total Xylenes	ug/g	<0.040	9304810	<0.040	<0.040	<0.040	9304810	<0.040	0.040	9304810
F1 (C6-C10)	ug/g	<10	9304810	<10	<10	<10	9304810	<10	10	9304810
F1 (C6-C10) - BTEX	ug/g	<10	9304810	<10	<10	<10	9304810	<10	10	9304810
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	9306112	<10	<10	<10	9306113	<10	10	9306112
F3 (C16-C34 Hydrocarbons)	ug/g	<50	9306112	<50	<50	<50	9306113	<50	50	9306112
F4 (C34-C50 Hydrocarbons)	ug/g	<50	9306112	<50	<50	<50	9306113	<50	50	9306112
Reached Baseline at C50	ug/g	Yes	9306112	Yes	Yes	Yes	9306113	Yes		9306112
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	93	9304810	95	94	96	9304810	95		9304810
4-Bromofluorobenzene	%	100	9304810	98	99	97	9304810	98		9304810
D10-o-Xylene	%	90	9304810	75	93	90	9304810	91		9304810
D4-1,2-Dichloroethane	%	95	9304810	97	95	94	9304810	96		9304810
o-Terphenyl	%	96	9306112	98	95	91	9306113	99		9306112

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		YTI879		YTI880		
Sampling Date		2024/03/27		2024/03/27		
COC Number		982655-01-01		982655-01-01		
	UNITS	DUP-2	QC Batch	DUP-3	RDL	QC Batch
BTEX & F1 Hydrocarbons						
Benzene	ug/g	<0.020	9304810	<0.020	0.020	9304810
Toluene	ug/g	<0.020	9304810	<0.020	0.020	9304810
Ethylbenzene	ug/g	<0.020	9304810	<0.020	0.020	9304810
o-Xylene	ug/g	<0.020	9304810	<0.020	0.020	9304810
p+m-Xylene	ug/g	<0.040	9304810	<0.040	0.040	9304810
Total Xylenes	ug/g	<0.040	9304810	<0.040	0.040	9304810
F1 (C6-C10)	ug/g	<10	9304810	<10	10	9304810
F1 (C6-C10) - BTEX	ug/g	<10	9304810	<10	10	9304810
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	<10	9306112	<10	10	9306113
F3 (C16-C34 Hydrocarbons)	ug/g	<50	9306112	<50	50	9306113
F4 (C34-C50 Hydrocarbons)	ug/g	<50	9306112	<50	50	9306113
Reached Baseline at C50	ug/g	Yes	9306112	Yes		9306113
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	95	9304810	92		9304810
4-Bromofluorobenzene	%	98	9304810	96		9304810
D10-o-Xylene	%	97	9304810	92		9304810
D4-1,2-Dichloroethane	%	94	9304810	96		9304810
o-Terphenyl	%	96	9306112	94		9306113

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		YTI854	YTI855	YTI856		YTI857		
Sampling Date		2024/03/27 09:33	2024/03/27 09:51	2024/03/27 10:04		2024/03/27 10:24		
COC Number		982655-01-01	982655-01-01	982655-01-01		982655-01-01		
	UNITS	SP-N-1	SP-N-2	SP-N-3	QC Batch	SP-N-4	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.22 (1)	0.23 (1)	0.23 (1)	9302534	0.24 (1)		9302534
Inorganics								
Conductivity	mS/cm	0.21	0.20	0.19	9310204	0.19	0.002	9310163
Moisture	%	21	20	19	9305779	20	1.0	9305830

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Bureau Veritas ID		YTI858	YTI859	YTI860		YTI861		
Sampling Date		2024/03/27 10:48	2024/03/27 10:58	2024/03/27 11:04		2024/03/27 11:20		
COC Number		982655-01-01	982655-01-01	982655-01-01		982655-01-01		
	UNITS	SP-N-5	SP-N-6	SP-N-7	QC Batch	SP-N-8	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.23 (1)	0.22 (1)	0.22 (1)	9302534	0.23 (1)		9303736
Inorganics								
Conductivity	mS/cm	0.21	0.21	0.20	9310163	0.21	0.002	9310163
Moisture	%	22	19	20	9305779	24	1.0	9305830

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C492991
Report Date: 2024/04/04

WSP E & I Canada Limited
Client Project #: CA0023482.2117
Your P.O. #: P103113CA001
Sampler Initials: RR

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		YTI862		YTI863	YTI864	YTI865	YTI866		
Sampling Date		2024/03/27 12:00		2024/03/27 12:13	2024/03/27 12:07	2024/03/27 11:55	2024/03/27 13:15		
COC Number		982655-01-01		982655-01-01	982655-01-01	982655-01-01	982655-01-01		
	UNITS	**SP-N-9**	**QC Batch**	**SP-N-10**	**SP-N-11**	**SP-N-12**	**SP-S-1**	**RDL**	**QC Batch**
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.22 (1)	9303736	0.22 (1)	0.23 (1)	0.23 (1)	0.25 (1)		9303736
Inorganics									
Conductivity	mS/cm	0.23	9310204	0.21	0.19	0.20	0.16	0.002	9310163
Moisture	%	20	9305830	22	19	17	18	1.0	9305830

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Bureau Veritas ID		YTI867			YTI867			YTI868		
Sampling Date		2024/03/27 13:20			2024/03/27 13:20			2024/03/27 13:27		
COC Number		982655-01-01			982655-01-01			982655-01-01		
	UNITS	**SP-S-2**	**RDL**	**QC Batch**	**SP-S-2 Lab-Dup**	**RDL**	**QC Batch**	**SP-S-3**	**RDL**	**QC Batch**
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.22 (1)		9303736				0.25 (1)		9303736
Inorganics										
Conductivity	mS/cm	0.20	0.002	9310163	0.20	0.002	9310163	0.16	0.002	9310163
Moisture	%	19	1.0	9305779				20	1.0	9305830

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

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RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		YTI869		YTI870	YTI871		YTI872		
Sampling Date		2024/03/27 14:17		2024/03/27 14:25	2024/03/27 14:30		2024/03/27 13:44		
COC Number		982655-01-01		982655-01-01	982655-01-01		982655-01-01		
	UNITS	SP-S-4	QC Batch	SP-S-5	SP-S-6	QC Batch	SP-S-7	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.23 (1)	9303736	0.21 (1)	0.22 (1)	9303736	0.23		9303736
Inorganics									
Conductivity	mS/cm	0.21	9310163	0.24	0.23	9310204	0.22	0.002	9311856
Moisture	%	19	9305779	21	21	9305830	18	1.0	9305830

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Bureau Veritas ID		YTI873	YTI874		YTI875		YTI876		
Sampling Date		2024/03/27 13:58	2024/03/27 14:06		2024/03/27 14:11		2024/03/27 13:37		
COC Number		982655-01-01	982655-01-01		982655-01-01		982655-01-01		
	UNITS	SP-S-8	SP-S-9	QC Batch	SP-S-10	QC Batch	SP-S-11	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.22	0.22 (1)	9303736	0.25 (1)	9303736	0.18 (1)		9303736
Inorganics									
Conductivity	mS/cm	0.32	0.23	9310163	0.18	9310163	0.30	0.002	9310163
Moisture	%	19	18	9305830	17	9305779	20	1.0	9305830

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C492991
Report Date: 2024/04/04

WSP E & I Canada Limited
Client Project #: CA0023482.2117
Your P.O. #: P103113CA001
Sampler Initials: RR

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		YTI876			YTI877	YTI878	YTI879	YTI880		
Sampling Date		2024/03/27 13:37			2024/03/27 13:50	2024/03/27	2024/03/27	2024/03/27		
COC Number		982655-01-01			982655-01-01	982655-01-01	982655-01-01	982655-01-01		
	UNITS	SP-S-11 Lab-Dup	RDL	QC Batch	SP-S-12	DUP-1	DUP-2	DUP-3	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A				0.22 (1)	0.23 (1)	0.22 (1)	0.23 (1)		9303736
Inorganics										
Conductivity	mS/cm				0.20	0.21	0.21	0.19	0.002	9310163
Moisture	%	21	1.0	9305830	18	18	21	20	1.0	9305830

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

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TEST SUMMARY

Bureau Veritas ID: YTI854
Sample ID: SP-N-1
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9302538	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310204	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305779	N/A	2024/03/30	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9302534	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI855
Sample ID: SP-N-2
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9302538	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310204	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305779	N/A	2024/03/30	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9302534	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI855 Dup
Sample ID: SP-N-2
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb

Bureau Veritas ID: YTI856
Sample ID: SP-N-3
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9302538	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310204	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305779	N/A	2024/03/30	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9302534	N/A	2024/04/03	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YTI857
Sample ID: SP-N-4
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9302538	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9302534	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI858
Sample ID: SP-N-5
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9302538	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305779	N/A	2024/03/30	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9302534	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI859
Sample ID: SP-N-6
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9302538	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305779	N/A	2024/03/30	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9302534	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI859 Dup
Sample ID: SP-N-6
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic

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TEST SUMMARY

Bureau Veritas ID: YTI860
Sample ID: SP-N-7
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9302538	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305779	N/A	2024/03/30	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9302534	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI861
Sample ID: SP-N-8
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9302538	N/A	2024/04/01	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306112	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306099	2024/03/31	2024/03/31	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI862
Sample ID: SP-N-9
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310204	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI863
Sample ID: SP-N-10
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon

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TEST SUMMARY

Bureau Veritas ID: YTI863
Sample ID: SP-N-10
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI864
Sample ID: SP-N-11
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI865
Sample ID: SP-N-12
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/01	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306112	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306099	2024/03/31	2024/03/31	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI866
Sample ID: SP-S-1
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: YTI867
Sample ID: SP-S-2
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305779	N/A	2024/03/30	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI867 Dup
Sample ID: SP-S-2
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri

Bureau Veritas ID: YTI868
Sample ID: SP-S-3
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI869
Sample ID: SP-S-4
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305779	N/A	2024/03/30	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YTI870
Sample ID: SP-S-5
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/01	Automated Statchk
Conductivity	AT	9310204	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306112	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306099	2024/03/31	2024/03/31	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI871
Sample ID: SP-S-6
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310204	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI872
Sample ID: SP-S-7
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/01	Automated Statchk
Conductivity	AT	9311856	2024/04/03	2024/04/03	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306112	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306099	2024/03/31	2024/03/31	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/04	Automated Statchk

Bureau Veritas ID: YTI872 Dup
Sample ID: SP-S-7
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YTI873
Sample ID: SP-S-8
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304845	N/A	2024/04/01	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI874
Sample ID: SP-S-9
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/01	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304810	N/A	2024/03/28	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306112	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306099	2024/03/31	2024/03/31	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI875
Sample ID: SP-S-10
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304810	N/A	2024/03/28	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305779	N/A	2024/03/30	Nisargsinh Takhatsinh Parihar
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI876
Sample ID: SP-S-11
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304810	N/A	2024/03/28	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YTI876 **Collected:** 2024/03/27
Sample ID: SP-S-11 **Shipped:**
Matrix: Soil **Received:** 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI876 Dup **Collected:** 2024/03/27
Sample ID: SP-S-11 **Shipped:**
Matrix: Soil **Received:** 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon

Bureau Veritas ID: YTI877 **Collected:** 2024/03/27
Sample ID: SP-S-12 **Shipped:**
Matrix: Soil **Received:** 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304810	N/A	2024/03/28	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI878 **Collected:** 2024/03/27
Sample ID: DUP-1 **Shipped:**
Matrix: Soil **Received:** 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/01	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304810	N/A	2024/03/28	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306112	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306099	2024/03/31	2024/03/31	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI879 **Collected:** 2024/03/27
Sample ID: DUP-2 **Shipped:**
Matrix: Soil **Received:** 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/01	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304810	N/A	2024/03/28	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306112	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C492991
Report Date: 2024/04/04

WSP E & I Canada Limited
Client Project #: CA0023482.2117
Your P.O. #: P103113CA001
Sampler Initials: RR

TEST SUMMARY

Bureau Veritas ID: YTI879
Sample ID: DUP-2
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306099	2024/03/31	2024/03/31	Jonghan Yoon
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

Bureau Veritas ID: YTI880
Sample ID: DUP-3
Matrix: Soil

Collected: 2024/03/27
Shipped:
Received: 2024/03/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9303733	N/A	2024/04/02	Automated Statchk
Conductivity	AT	9310163	2024/04/02	2024/04/02	Vidhi Khatri
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9304810	N/A	2024/03/28	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9306113	2024/03/31	2024/03/31	Mohammed Abdul Nafay Shoeb
Moisture	BAL	9305830	N/A	2024/03/30	Jeremy Apoon
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9306340	2024/04/01	2024/04/01	Biljana Lazovic
Sodium Adsorption Ratio (SAR)	CALC/MET	9303736	N/A	2024/04/03	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	8.3°C
Package 2	7.7°C

Sample YTI854 [SP-N-1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI855 [SP-N-2] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI856 [SP-N-3] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI857 [SP-N-4] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI858 [SP-N-5] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI860 [SP-N-7] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI861 [SP-N-8] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI862 [SP-N-9] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI863 [SP-N-10] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI864 [SP-N-11] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI865 [SP-N-12] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI866 [SP-S-1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI867 [SP-S-2] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI868 [SP-S-3] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI869 [SP-S-4] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI870 [SP-S-5] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Sample YTI871 [SP-S-6] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI872 [SP-S-7] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI873 [SP-S-8] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI874 [SP-S-9] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI875 [SP-S-10] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI876 [SP-S-11] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI877 [SP-S-12] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI878 [DUP-1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI879 [DUP-2] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample YTI880 [DUP-3] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Results relate only to the items tested.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9304810	1,4-Difluorobenzene	2024/03/28	96	60 - 140	97	60 - 140	96	%		
9304810	4-Bromofluorobenzene	2024/03/28	102	60 - 140	100	60 - 140	99	%		
9304810	D10-o-Xylene	2024/03/28	83	60 - 140	97	60 - 140	84	%		
9304810	D4-1,2-Dichloroethane	2024/03/28	91	60 - 140	95	60 - 140	97	%		
9304845	1,4-Difluorobenzene	2024/04/01			92	60 - 140	94	%		
9304845	4-Bromofluorobenzene	2024/04/01			103	60 - 140	103	%		
9304845	D10-o-Xylene	2024/04/01			88	60 - 140	96	%		
9304845	D4-1,2-Dichloroethane	2024/04/01			98	60 - 140	99	%		
9306099	D10-Anthracene	2024/03/31	125	50 - 130	114	50 - 130	113	%		
9306099	D14-Terphenyl (FS)	2024/03/31	109	50 - 130	100	50 - 130	104	%		
9306099	D8-Acenaphthylene	2024/03/31	97	50 - 130	92	50 - 130	89	%		
9306112	o-Terphenyl	2024/03/31	103	60 - 130	101	60 - 130	102	%		
9306113	o-Terphenyl	2024/03/31	95 (5)	60 - 130	95	60 - 130	100	%		
9306340	D10-Anthracene	2024/04/01	108 (7)	50 - 130	113	50 - 130	119	%		
9306340	D14-Terphenyl (FS)	2024/04/01	106 (7)	50 - 130	104	50 - 130	105	%		
9306340	D8-Acenaphthylene	2024/04/01	92 (7)	50 - 130	94	50 - 130	88	%		
9304810	Benzene	2024/03/28	73	50 - 140	90	50 - 140	<0.020	ug/g	NC (1)	50
9304810	Ethylbenzene	2024/03/28	80	50 - 140	94	50 - 140	<0.020	ug/g	NC (1)	50
9304810	F1 (C6-C10) - BTEX	2024/03/28					<10	ug/g	NC (1)	30
9304810	F1 (C6-C10)	2024/03/28	81	60 - 140	102	80 - 120	<10	ug/g	NC (1)	30
9304810	o-Xylene	2024/03/28	78	50 - 140	93	50 - 140	<0.020	ug/g	NC (1)	50
9304810	p+m-Xylene	2024/03/28	76	50 - 140	89	50 - 140	<0.040	ug/g	NC (1)	50
9304810	Toluene	2024/03/28	71	50 - 140	86	50 - 140	<0.020	ug/g	NC (1)	50
9304810	Total Xylenes	2024/03/28					<0.040	ug/g	NC (1)	50
9304845	Benzene	2024/04/01			87	50 - 140	<0.020	ug/g	NC (2)	50
9304845	Ethylbenzene	2024/04/01			92	50 - 140	<0.020	ug/g	NC (2)	50
9304845	F1 (C6-C10) - BTEX	2024/04/01					<10	ug/g	NC (2)	30
9304845	F1 (C6-C10)	2024/04/01			100	80 - 120	<10	ug/g	NC (2)	30
9304845	o-Xylene	2024/04/01			92	50 - 140	<0.020	ug/g	NC (2)	50
9304845	p+m-Xylene	2024/04/01			86	50 - 140	<0.040	ug/g	NC (2)	50

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9304845	Toluene	2024/04/01			82	50 - 140	<0.020	ug/g	NC (2)	50
9304845	Total Xylenes	2024/04/01					<0.040	ug/g	NC (2)	50
9305779	Moisture	2024/03/30							3.1 (1)	20
9305830	Moisture	2024/03/30							4.4 (3)	20
9306099	1-Methylnaphthalene	2024/03/31	110	50 - 130	102	50 - 130	<0.0050	ug/g	NC (1)	40
9306099	2-Methylnaphthalene	2024/03/31	96	50 - 130	99	50 - 130	<0.0050	ug/g	NC (1)	40
9306099	Acenaphthene	2024/03/31	107	50 - 130	102	50 - 130	<0.0050	ug/g	NC (1)	40
9306099	Acenaphthylene	2024/03/31	104	50 - 130	100	50 - 130	<0.0050	ug/g	NC (1)	40
9306099	Anthracene	2024/03/31	125	50 - 130	117	50 - 130	<0.0050	ug/g	NC (1)	40
9306099	Benzo(a)anthracene	2024/03/31	126	50 - 130	105	50 - 130	<0.0050	ug/g	28 (1)	40
9306099	Benzo(a)pyrene	2024/03/31	123	50 - 130	105	50 - 130	<0.0050	ug/g	21 (1)	40
9306099	Benzo(b/j)fluoranthene	2024/03/31	126	50 - 130	105	50 - 130	<0.0050	ug/g	18 (1)	40
9306099	Benzo(g,h,i)perylene	2024/03/31	121	50 - 130	107	50 - 130	<0.0050	ug/g	15 (1)	40
9306099	Benzo(k)fluoranthene	2024/03/31	84	50 - 130	106	50 - 130	<0.0050	ug/g	18 (1)	40
9306099	Chrysene	2024/03/31	122	50 - 130	95	50 - 130	<0.0050	ug/g	26 (1)	40
9306099	Dibenzo(a,h)anthracene	2024/03/31	88	50 - 130	93	50 - 130	<0.0050	ug/g	NC (1)	40
9306099	Fluoranthene	2024/03/31	164 (4)	50 - 130	108	50 - 130	<0.0050	ug/g	27 (1)	40
9306099	Fluorene	2024/03/31	111	50 - 130	105	50 - 130	<0.0050	ug/g	NC (1)	40
9306099	Indeno(1,2,3-cd)pyrene	2024/03/31	120	50 - 130	105	50 - 130	<0.0050	ug/g	20 (1)	40
9306099	Naphthalene	2024/03/31	102	50 - 130	98	50 - 130	<0.0050	ug/g	NC (1)	40
9306099	Phenanthrene	2024/03/31	125	50 - 130	108	50 - 130	<0.0050	ug/g	33 (1)	40
9306099	Pyrene	2024/03/31	160 (4)	50 - 130	109	50 - 130	<0.0050	ug/g	25 (1)	40
9306112	F2 (C10-C16 Hydrocarbons)	2024/03/31	111	60 - 130	107	80 - 120	<10	ug/g	NC (1)	30
9306112	F3 (C16-C34 Hydrocarbons)	2024/03/31	110	60 - 130	105	80 - 120	<50	ug/g	0.66 (1)	30
9306112	F4 (C34-C50 Hydrocarbons)	2024/03/31	104	60 - 130	97	80 - 120	<50	ug/g	NC (1)	30
9306113	F2 (C10-C16 Hydrocarbons)	2024/03/31	103 (5)	60 - 130	103	80 - 120	<10	ug/g	NC (6)	30
9306113	F3 (C16-C34 Hydrocarbons)	2024/03/31	104 (5)	60 - 130	105	80 - 120	<50	ug/g	NC (6)	30
9306113	F4 (C34-C50 Hydrocarbons)	2024/03/31	97 (5)	60 - 130	96	80 - 120	<50	ug/g	NC (6)	30
9306340	1-Methylnaphthalene	2024/04/01	104 (7)	50 - 130	105	50 - 130	<0.0050	ug/g	NC (8)	40
9306340	2-Methylnaphthalene	2024/04/01	102 (7)	50 - 130	103	50 - 130	<0.0050	ug/g	NC (8)	40

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9306340	Acenaphthene	2024/04/01	105 (7)	50 - 130	105	50 - 130	<0.0050	ug/g	NC (8)	40
9306340	Acenaphthylene	2024/04/01	100 (7)	50 - 130	102	50 - 130	<0.0050	ug/g	NC (8)	40
9306340	Anthracene	2024/04/01	116 (7)	50 - 130	115	50 - 130	<0.0050	ug/g	NC (8)	40
9306340	Benzo(a)anthracene	2024/04/01	113 (7)	50 - 130	109	50 - 130	<0.0050	ug/g	27 (8)	40
9306340	Benzo(a)pyrene	2024/04/01	108 (7)	50 - 130	108	50 - 130	<0.0050	ug/g	22 (8)	40
9306340	Benzo(b/j)fluoranthene	2024/04/01	103 (7)	50 - 130	111	50 - 130	<0.0050	ug/g	20 (8)	40
9306340	Benzo(g,h,i)perylene	2024/04/01	104 (7)	50 - 130	107	50 - 130	<0.0050	ug/g	NC (8)	40
9306340	Benzo(k)fluoranthene	2024/04/01	117 (7)	50 - 130	111	50 - 130	<0.0050	ug/g	NC (8)	40
9306340	Chrysene	2024/04/01	94 (7)	50 - 130	95	50 - 130	<0.0050	ug/g	27 (8)	40
9306340	Dibenzo(a,h)anthracene	2024/04/01	97 (7)	50 - 130	105	50 - 130	<0.0050	ug/g	NC (8)	40
9306340	Fluoranthene	2024/04/01	113 (7)	50 - 130	114	50 - 130	<0.0050	ug/g	31 (8)	40
9306340	Fluorene	2024/04/01	110 (7)	50 - 130	109	50 - 130	<0.0050	ug/g	NC (8)	40
9306340	Indeno(1,2,3-cd)pyrene	2024/04/01	107 (7)	50 - 130	115	50 - 130	<0.0050	ug/g	NC (8)	40
9306340	Naphthalene	2024/04/01	96 (7)	50 - 130	100	50 - 130	<0.0050	ug/g	NC (8)	40
9306340	Phenanthrene	2024/04/01	109 (7)	50 - 130	109	50 - 130	<0.0050	ug/g	NC (8)	40
9306340	Pyrene	2024/04/01	113 (7)	50 - 130	113	50 - 130	<0.0050	ug/g	32 (8)	40
9310163	Conductivity	2024/04/02			103	90 - 110	<0.002	mS/cm	0.50 (9)	10
9310204	Conductivity	2024/04/02			102	90 - 110	<0.002	mS/cm	1.7 (1)	10

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9311856	Conductivity	2024/04/03			103	90 - 110	<0.002	mS/cm	0 (1)	10

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Duplicate Parent ID [YTI872-02]

(3) Duplicate Parent ID [YTI876-01]

(4) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(5) Matrix Spike Parent ID [YTI855-01]

(6) Duplicate Parent ID [YTI855-01]

(7) Matrix Spike Parent ID [YTI859-01]

(8) Duplicate Parent ID [YTI859-01]

(9) Duplicate Parent ID [YTI867-01]

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C492991
Report Date: 2024/04/04

WSP E & I Canada Limited
Client Project #: CA0023482.2117
Your P.O. #: P103113CA001
Sampler Initials: RR

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

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NONT-2024-03-2199

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#25843 WSP E & I Canada Limited	Company Name:	#13130 WSP E & I Canada Limited	Quotation #:	C41059
Attention:	Edwin Whitford/AP	Attention:	Edwin Whitford	P.O. #:	
Address:	50 Vogell Road Units 3 and 4 Richmond Hill ON L4B 3N6	Address:	50 Vogell Road Units 3 and 4 Richmond Hill ON L4B 3N6	Project:	CA0023482.2117
Tel:	(905) 415-2632 Fax: (905) 415-1686	Tel:	(905) 415-2632 Fax:	Project Name:	
Email:	edwin.whitford@wsp.com;CAPayablesInvoice@wsp.co	Email:	edwin.whitford@wsp.com; wds.wood.equis@wsp.com	Site #:	1450 King Road, Burlington
				Sampled By:	RR TB

Bottle Order #: 982655

COC #: C#982655-01-01

Project Manager: Gina Baybayan

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: X
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): O.Reg 153 (PHC) by HS & F1-F4 (Soil)	O.Reg 153 (Soil) EC	O.Reg 153 (Soil) SAR	O.Reg 153 (Soil) PAH's	# of Bottles	Comments
1		SP-N-1	27MAR 2024	933	SOIL	N/A	X	X	X	X	2	
2		SP-N-2		951								
3		SP-N-3		1004								
4		SP-N-4		1024								
5		SP-N-5		1048								
6		SP-N-6		1058								
7		SP-N-7		1104								
8		SP-N-8		1120								
9		SP-N-9		1200								
10		SP-N-10	27MAR 2024	1213	SOIL	N/A	X	X	X	X	2	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Rebecca Rodricks	24/3/27	1630			1624	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: 9 | 8 | 8 | 7 | 1 | 8
Custody Seal Present: Yes ✓ No
Intact

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#25843 WSP E & I Canada Limited	Company Name:	#13130 WSP E & I Canada Limited	Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #:
Attention:	Edwin Whitford/AP	Attention:	Edwin Whitford	P.O. #:			982655
Address:	50 Vogell Road Units 3 and 4 Richmond Hill ON L4B 3N6	Address:	50 Vogell Road Units 3 and 4 Richmond Hill ON L4B 3N6	Project:	CA0023482.2117	COC #:	Project Manager:
Tel:	(905) 415-2632 Fax: (905) 415-1686	Tel:	(905) 415-2632 Fax:	Project Name:		C#982655-03-01	Gina Baybayan
Email:	edwin.whitford@wsp.com;CAPayablesInvoice@wsp.co	Email:	edwin.whitford@wsp.com; wds.wood.equis@wsp.com	Site #:	1450 King Road, Burlington		
				Sampled By:	RR/KB		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: [X]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC): O.Reg 153 VOCs by HS & F1-F4 (Soil)	O.Reg 153 (SOIL) EC	O.Reg 153 (SOIL) SAR	O.Reg 153 (SOIL) PAHs						# of Bottles	Comments
1		SP-N-11	27MAR 2024	1207	SOIL	N/A	X	X	X	X						2	
2		SP-N-12		1155													
3		SP-S-1		1315													
4		SP-S-2		1320													
5		SP-S-3		1327													
6		SP-S-4		1417													
7		SP-S-5		1425													
8		SP-S-6		1430													
9		SP-S-7	↓	1344	↓	↓	↓	↓	↓	↓						↓	
10		SP-S-8	27MAR 2024	1358	SOIL	N/A	X	X	X	X						2	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
Rebecca Rodricks	24/3/27	1630			1634		Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
								9.1 8.8	Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#25843 WSP E & I Canada Limited	Company Name:	#13130 WSP E & I Canada Limited	Quotation #:	C41059	Bureau Veritas Job #:	Bottle Order #: 982655
Attention:	Edwin Whitford/AP	Attention:	Edwin Whitford	P.O. #:			
Address:	50 Vogell Road Units 3 and 4 Richmond Hill ON L4B 3N6	Address:	50 Vogell Road Units 3 and 4 Richmond Hill ON L4B 3N6	Project:	CA0023482.2117	COC #: C#982655-02-01	Project Manager: Gina Baybayan
Tel:	(905) 415-2632 Fax: (905) 415-1686	Tel:	(905) 415-2632 Fax:	Project Name:			
Email:	edwin.whitford@wsp.com;CAPayablesInvoice@wsp.co	Email:	edwin.whitford@wsp.com; wds.wood.equis@wsp.com	Site #:	1450 King Road, Burlington		
				Sampled By:	RR/KB		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT:
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 (incl. PHC F1-F4 (Soil))	EC O.Reg153 (50)	SAR O.Reg153 (SAR)	pH O.Reg153 (pH)	# of Bottles	Comments
1		SP-S-9	27MAR 2024	1406	SOIL	NIA	X	X	X	X	2	
2		SP-S-10		1411								
3		SP-S-11		1337								
4		SP-S-12		1350								
5		DUP-1		—								
6		DUP-2		—								
7		DUP-3	27MAR 2024	—	SOIL	NIA	X	X	X	X	2	
8												
9												
10												

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
Rebecca Rodricks	24/3/27	1630			1657			9.1 8.8	Present Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

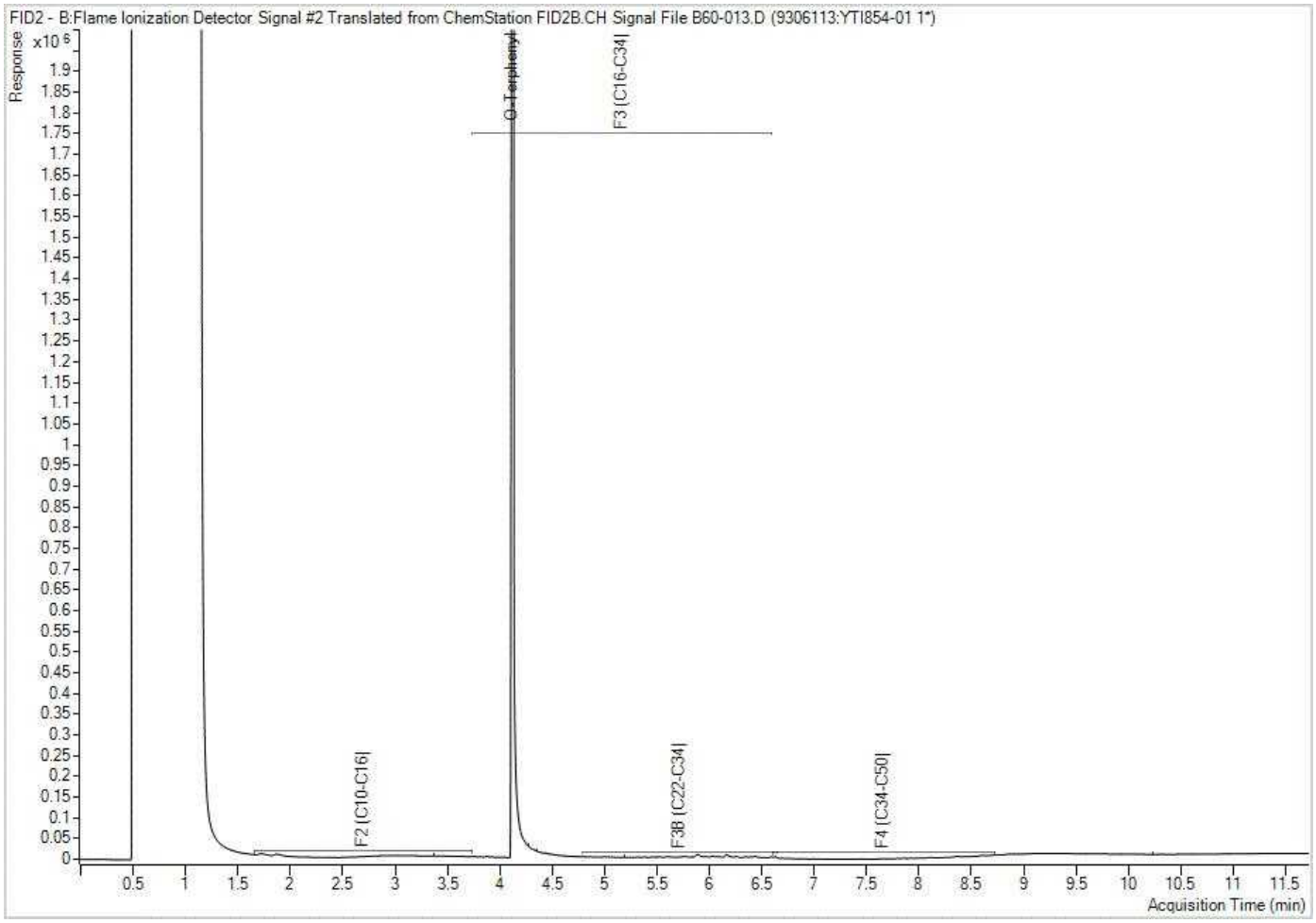
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

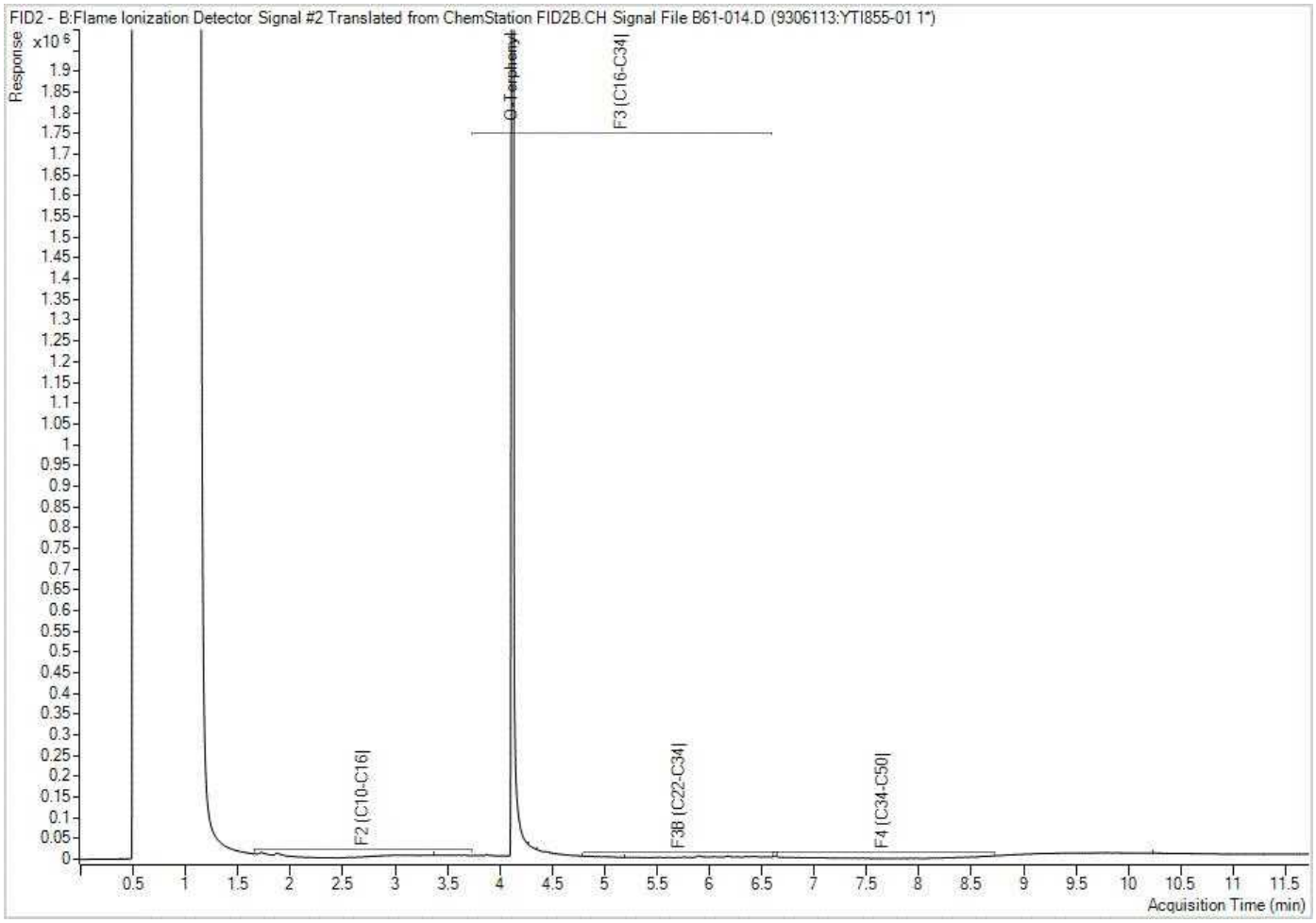
Bureau Veritas Canada (2019) Inc.

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



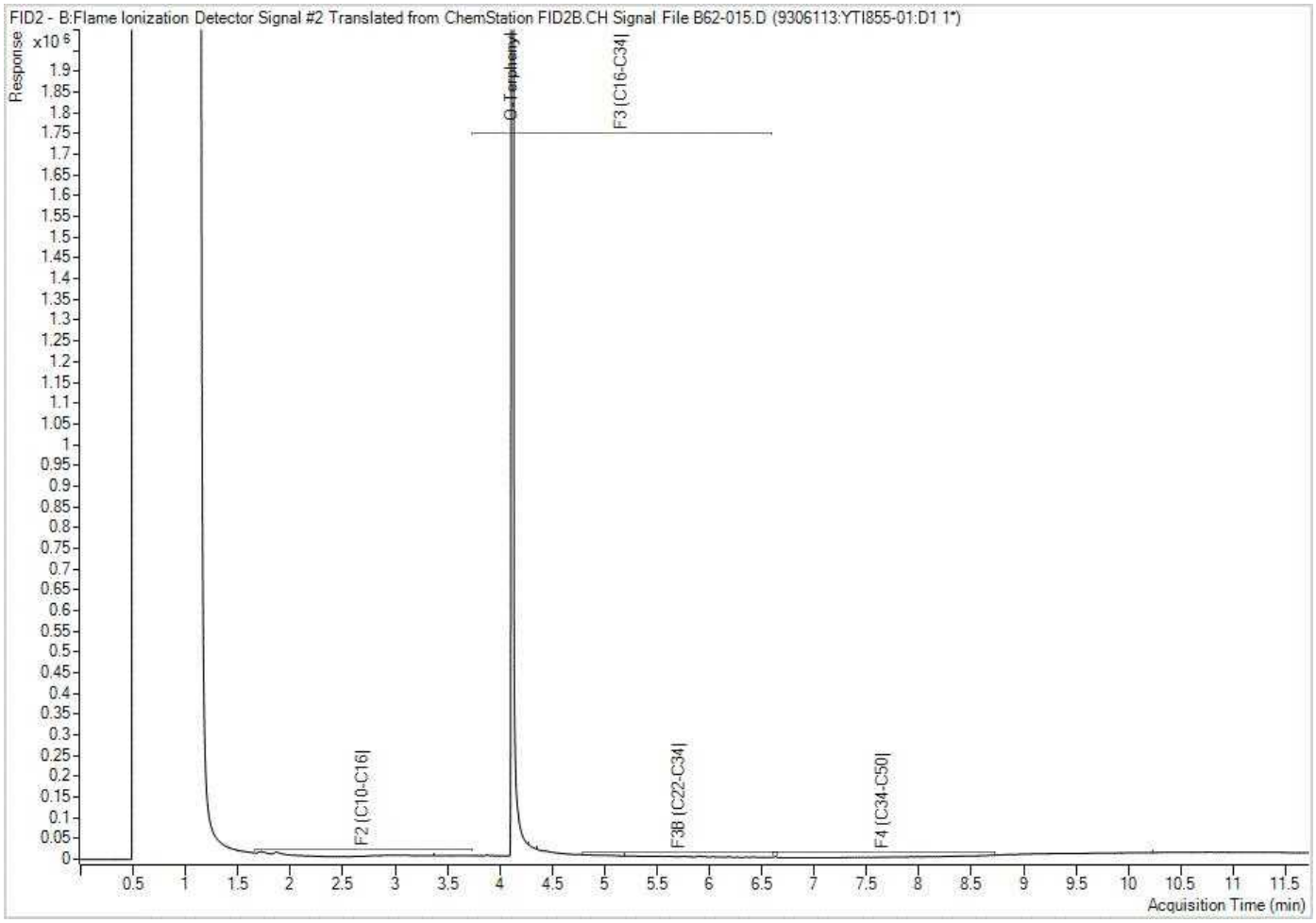
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



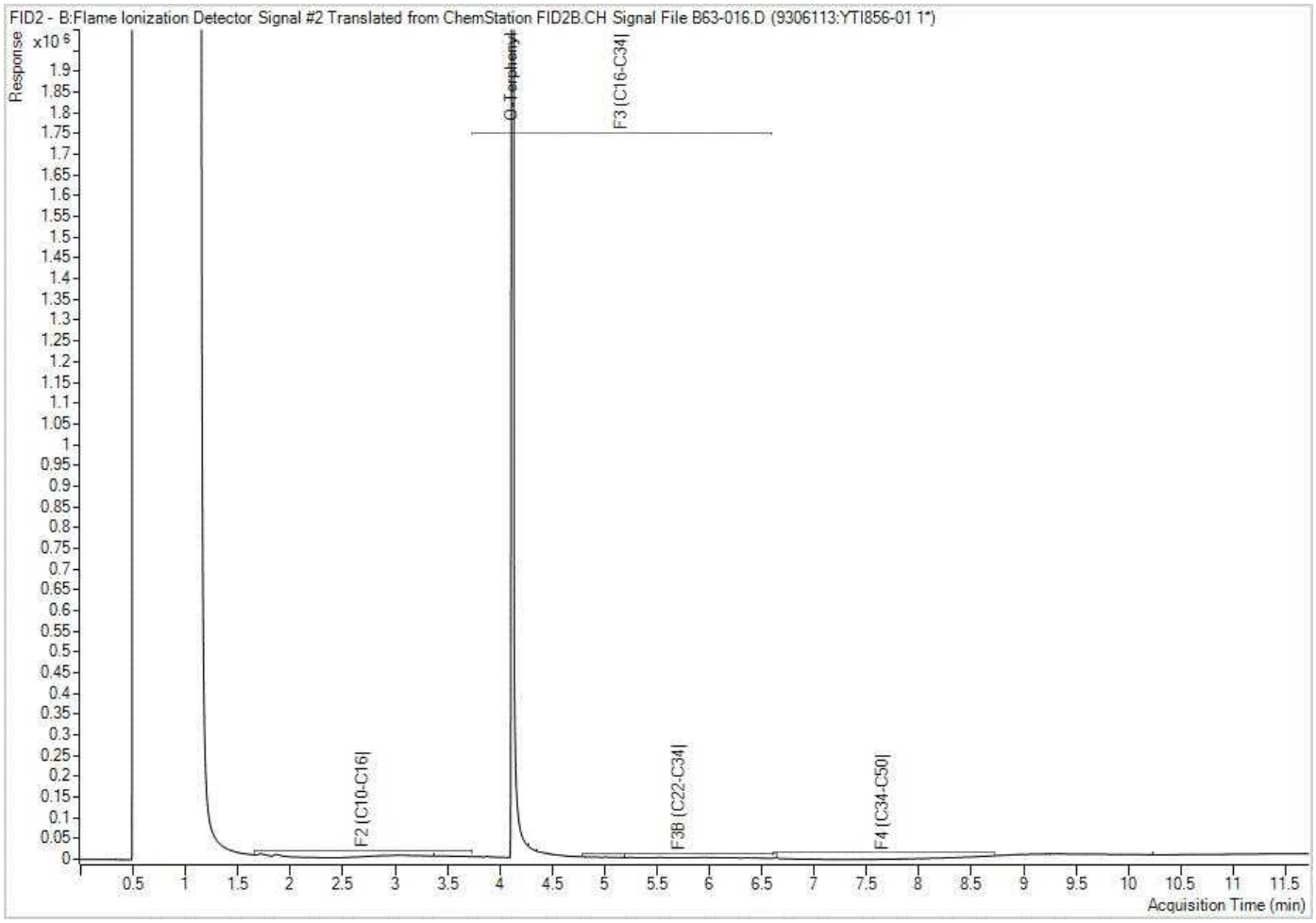
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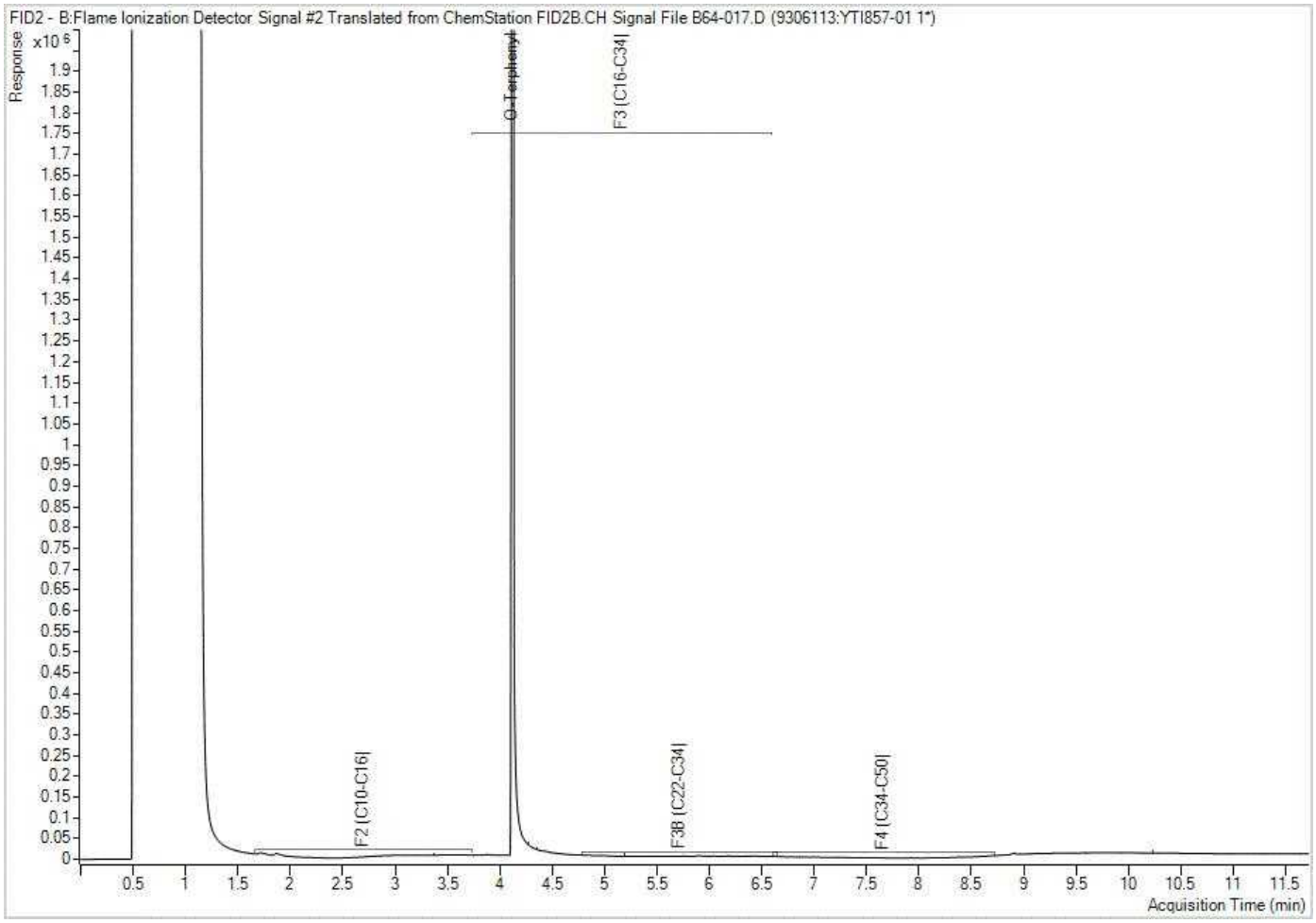
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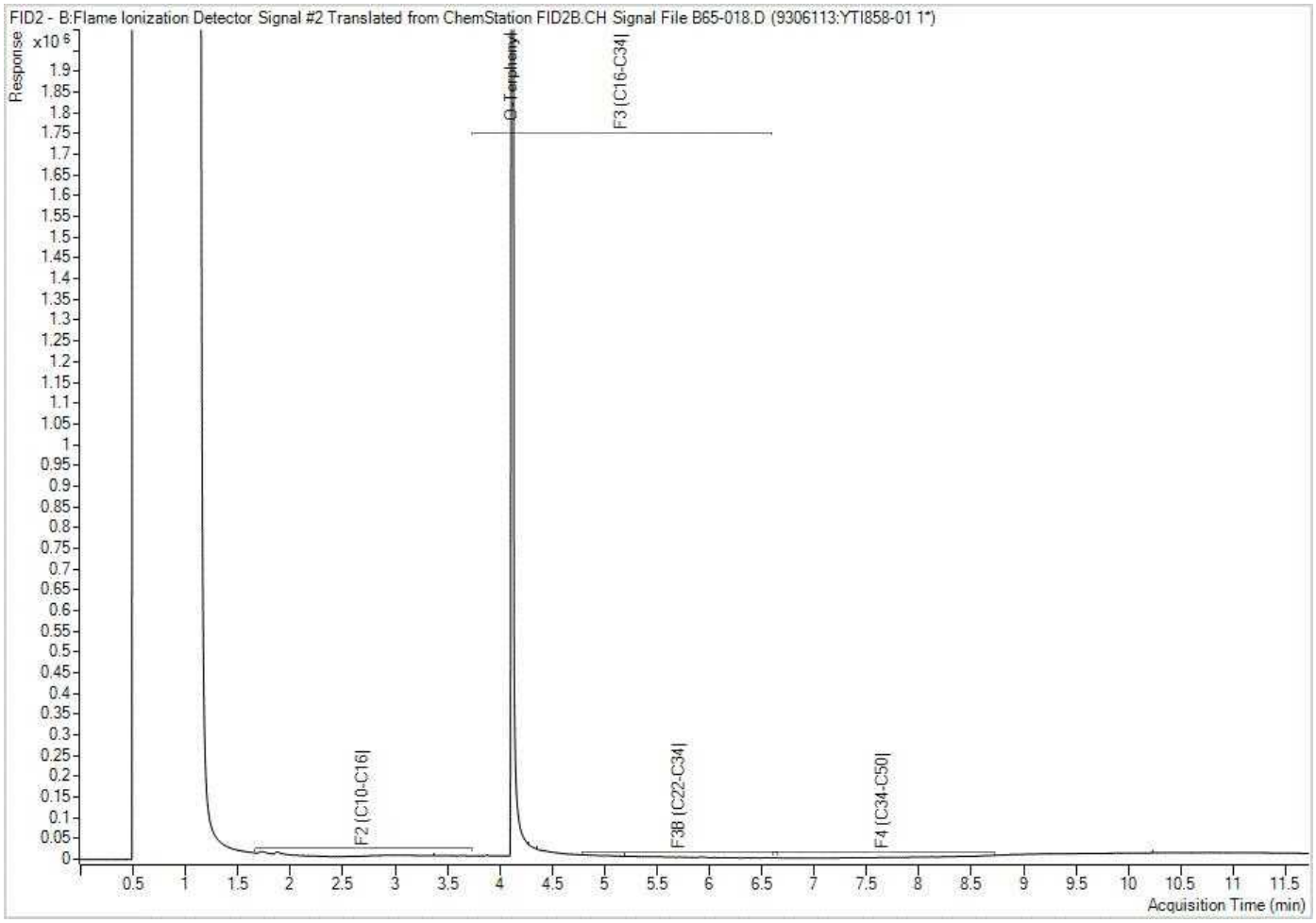
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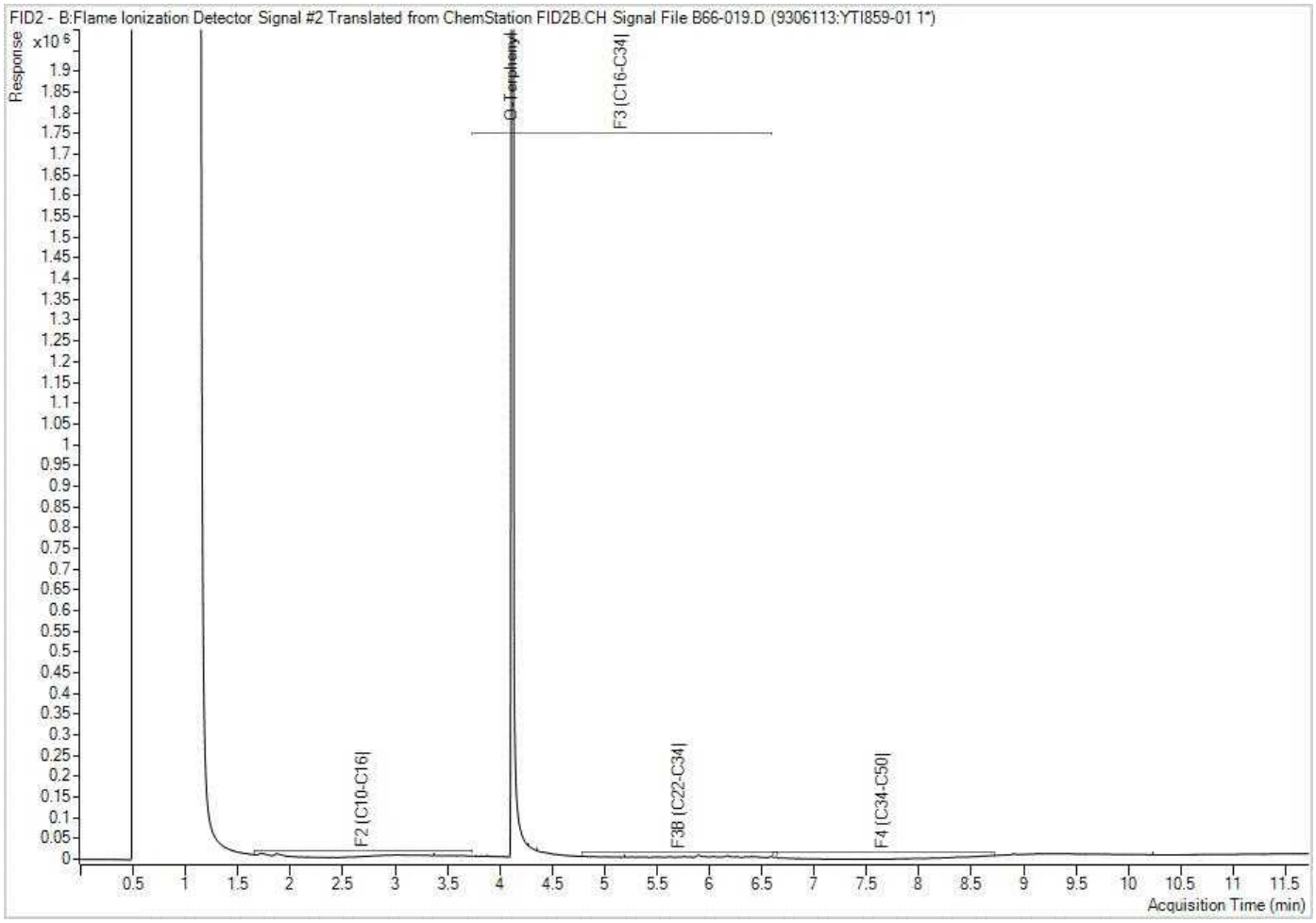
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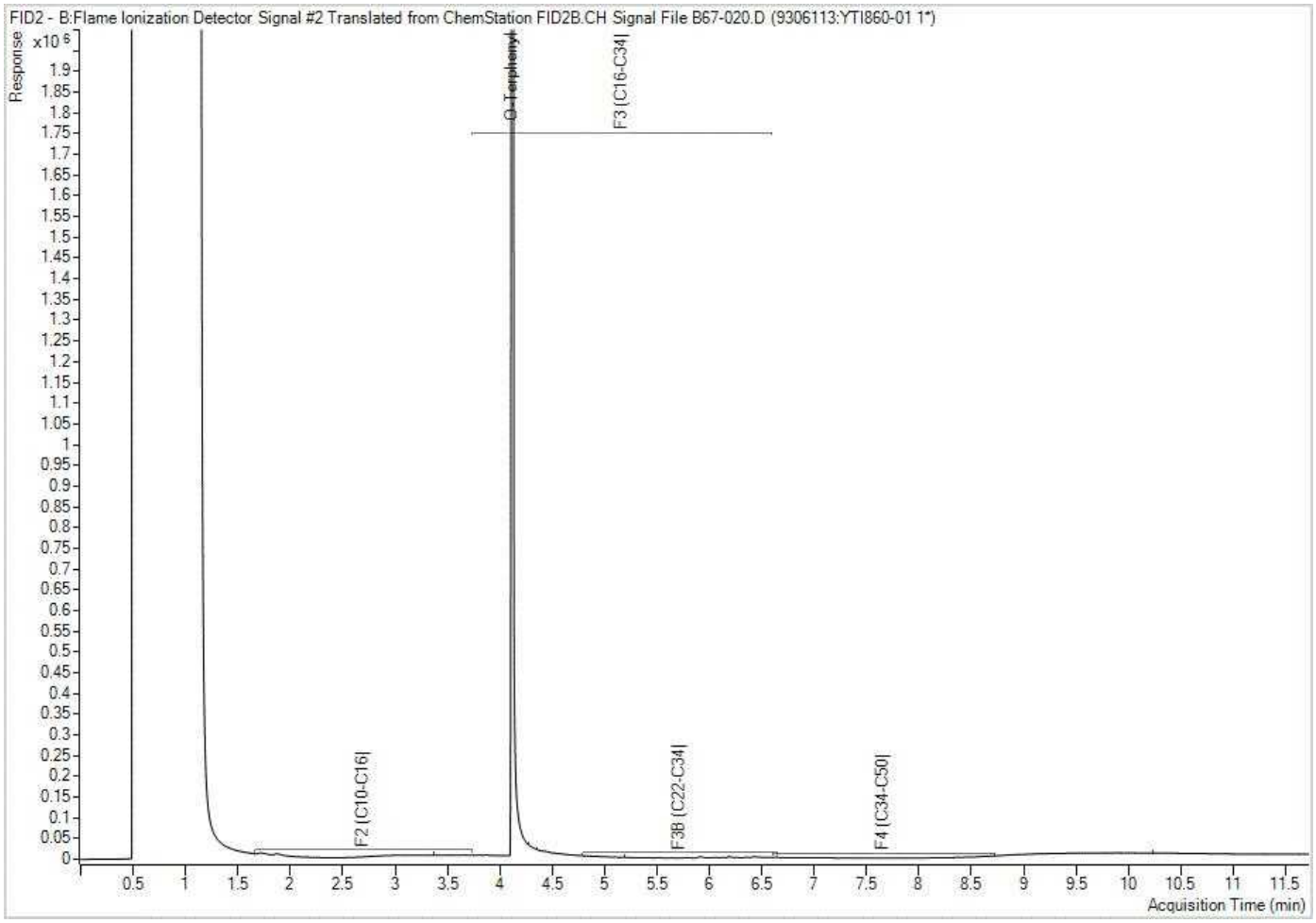
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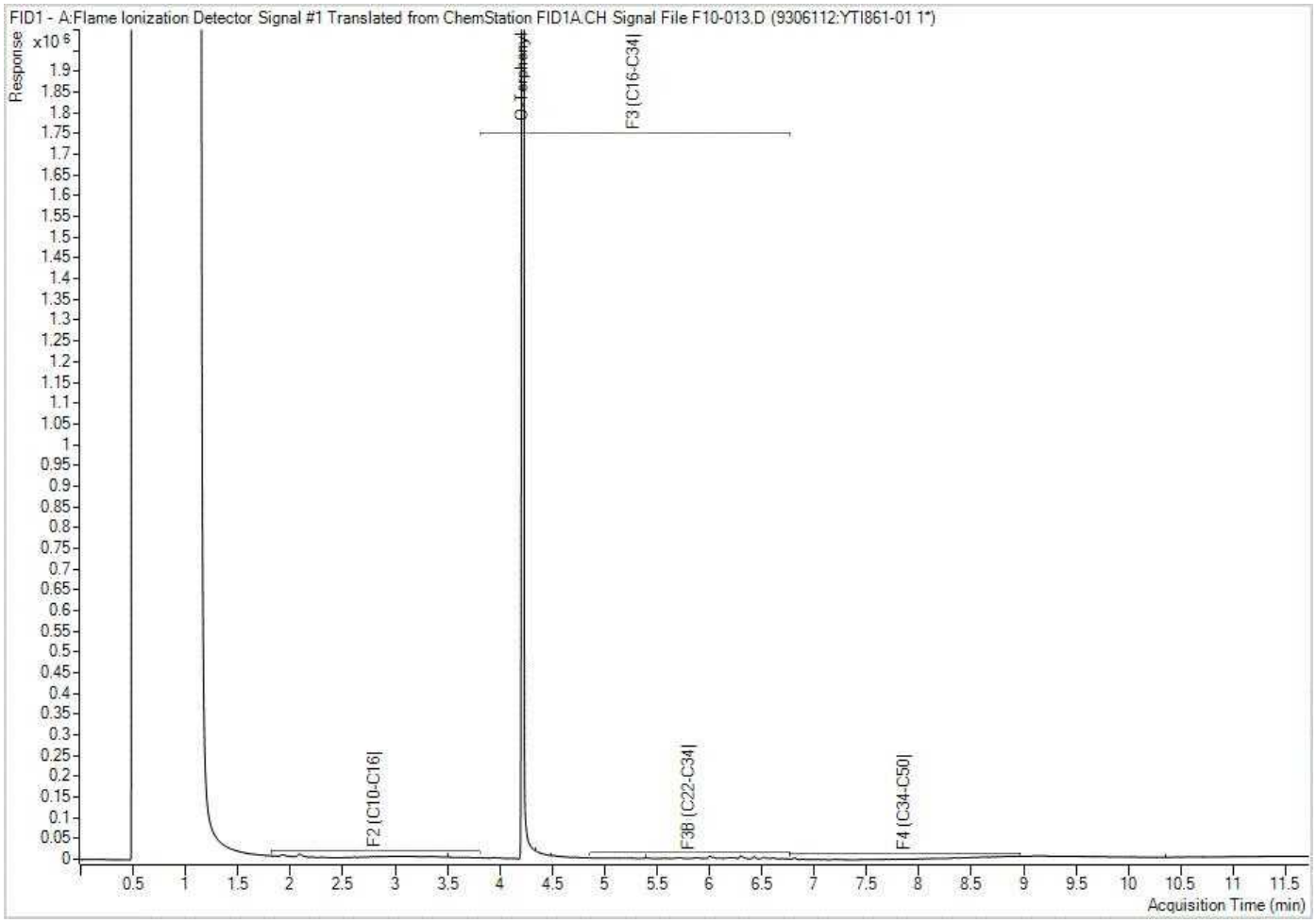
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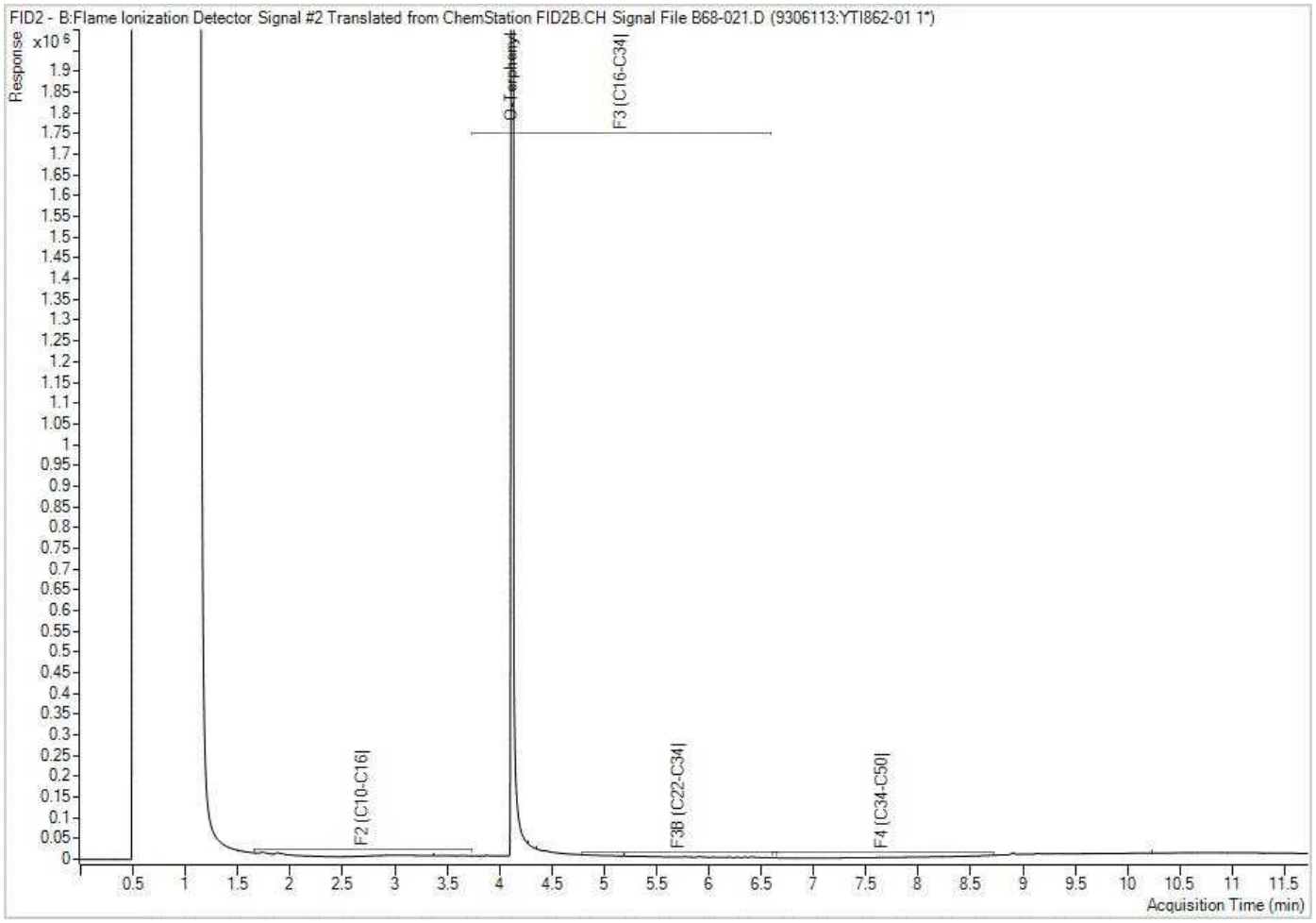
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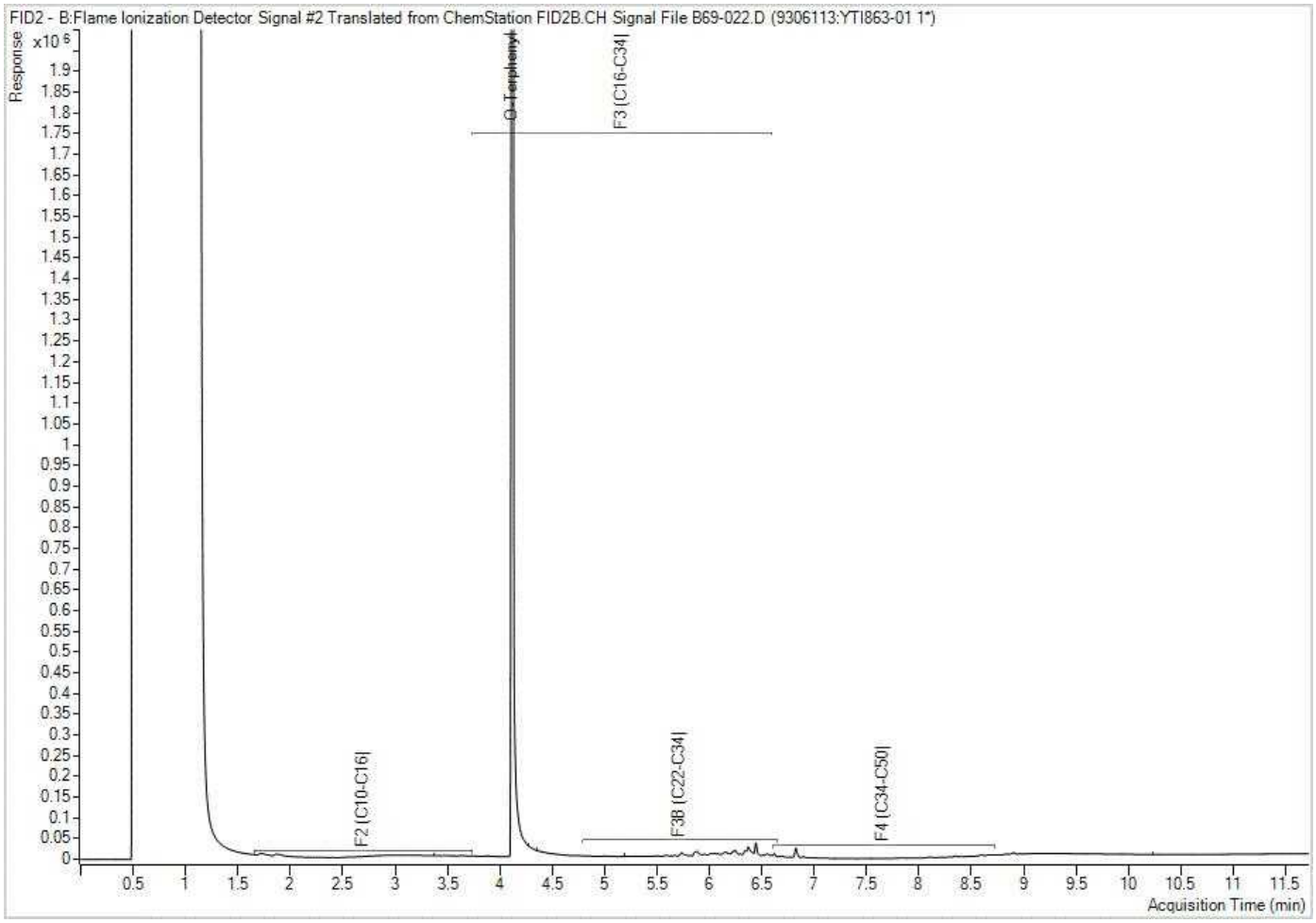
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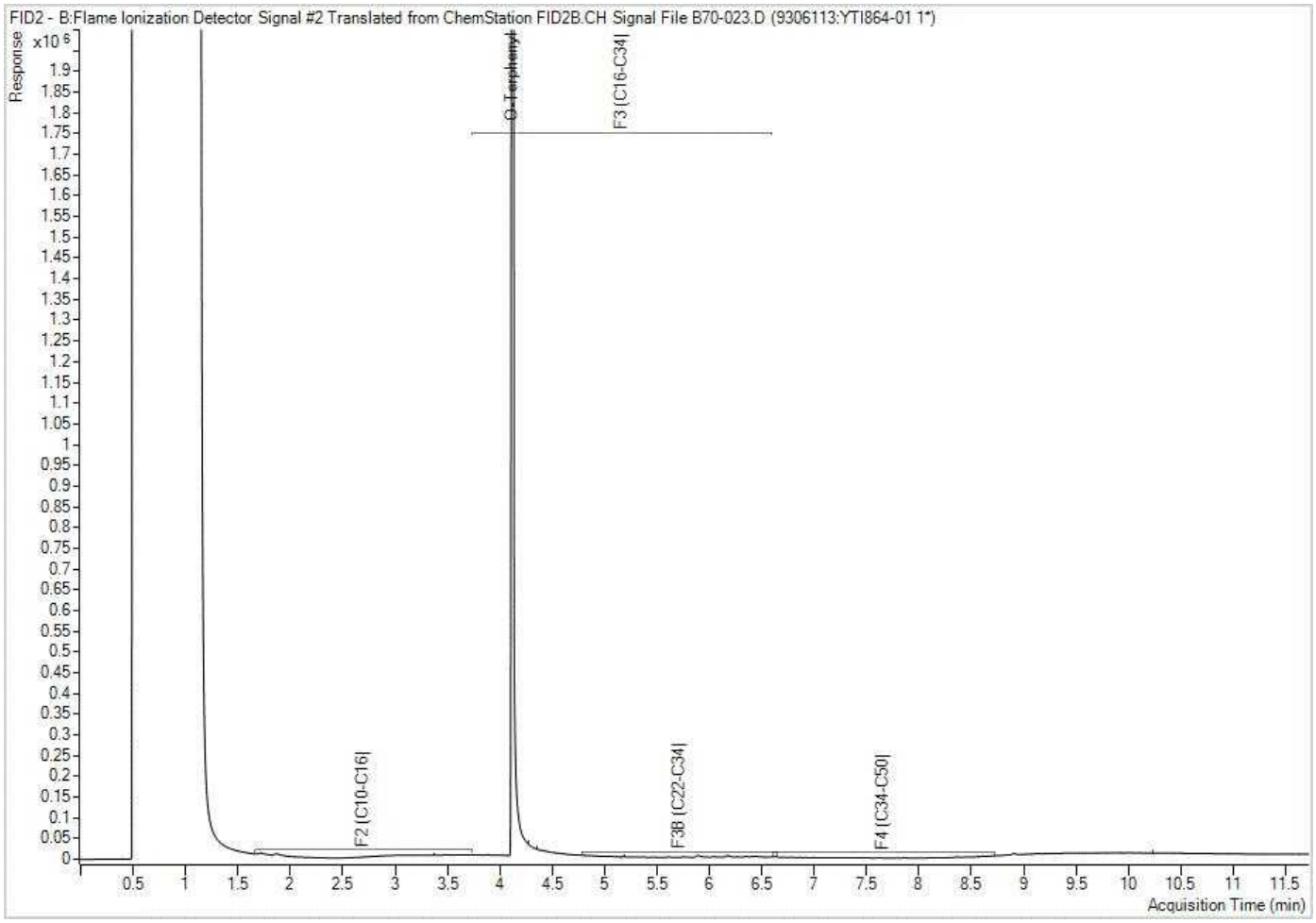
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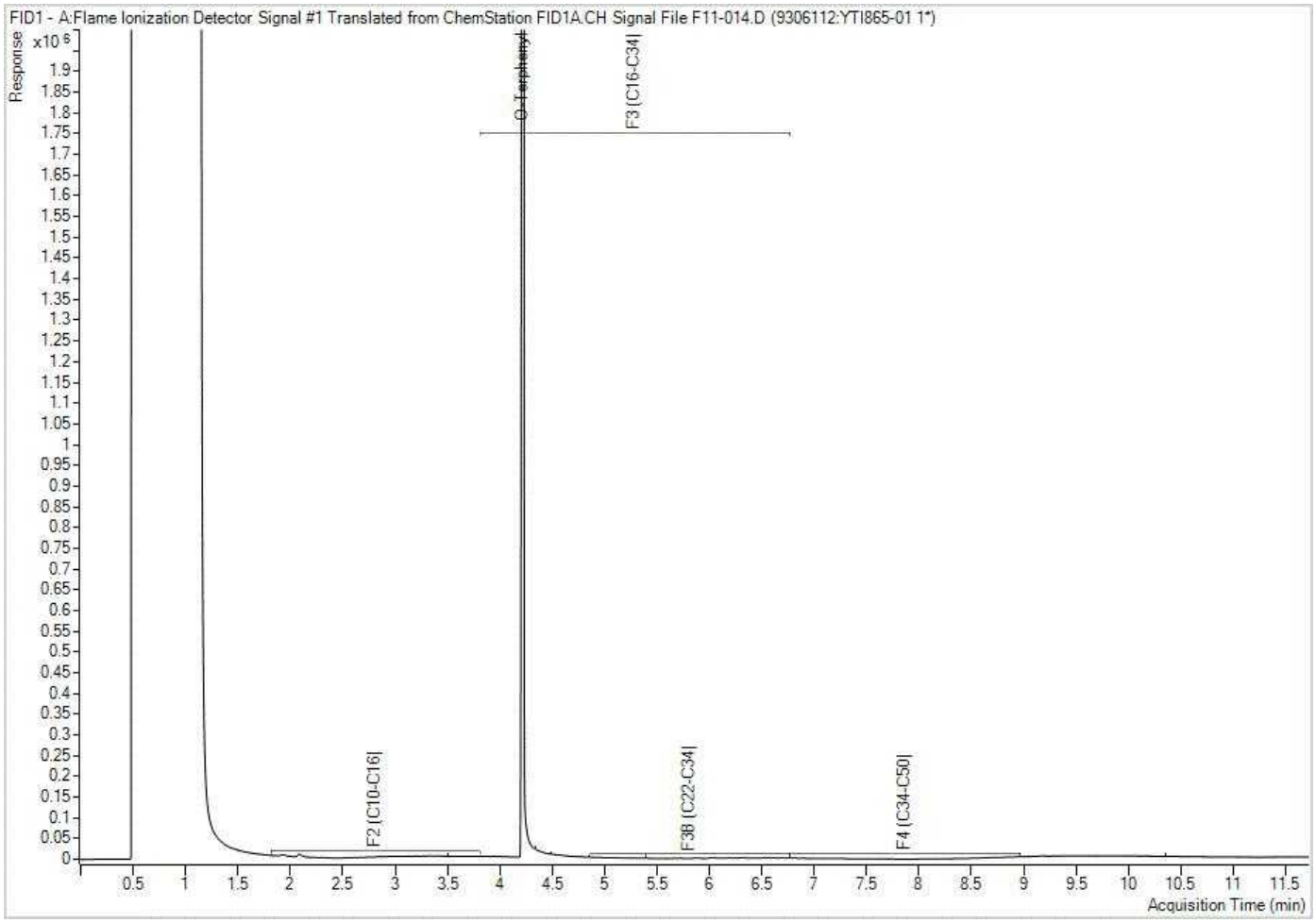
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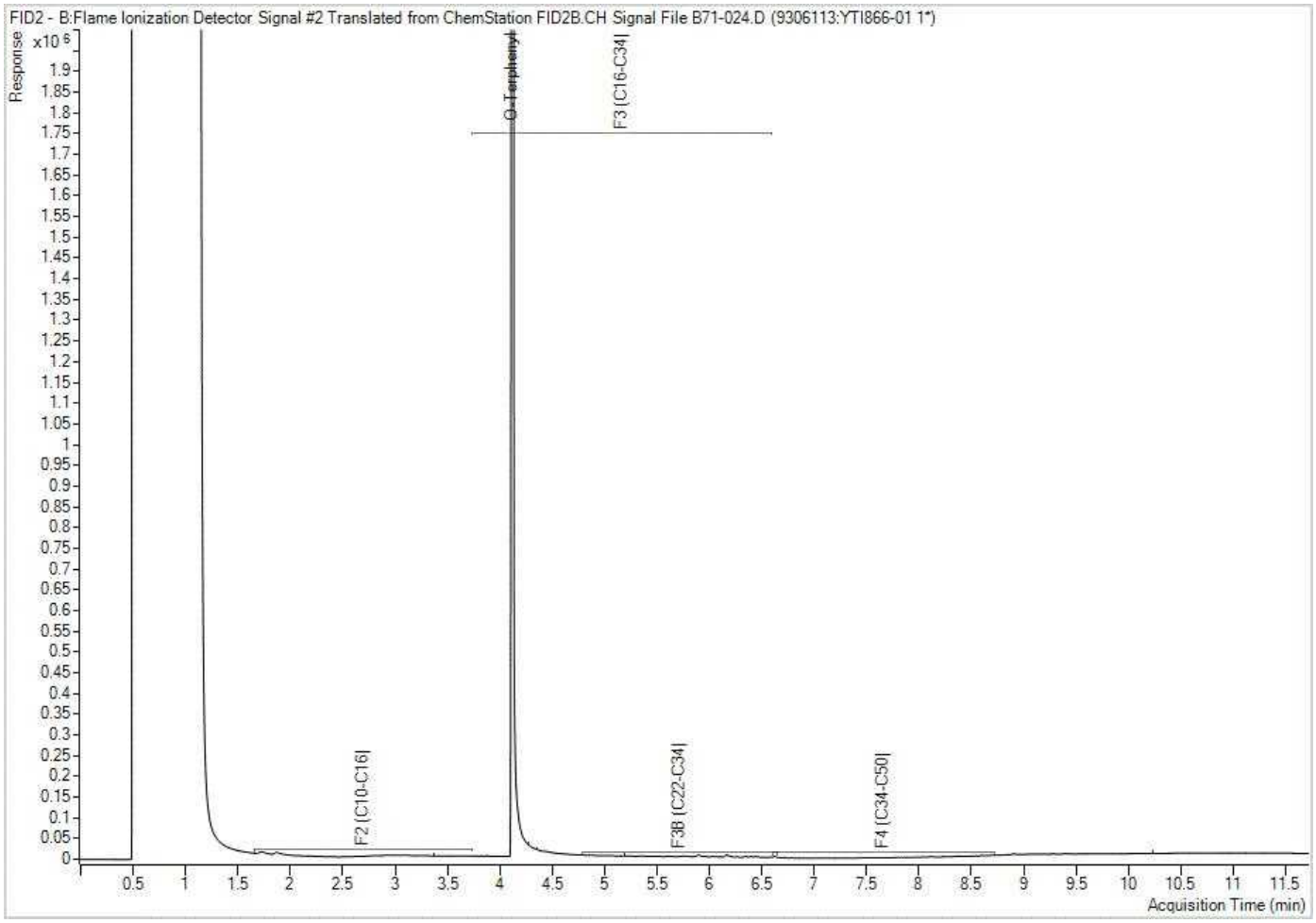
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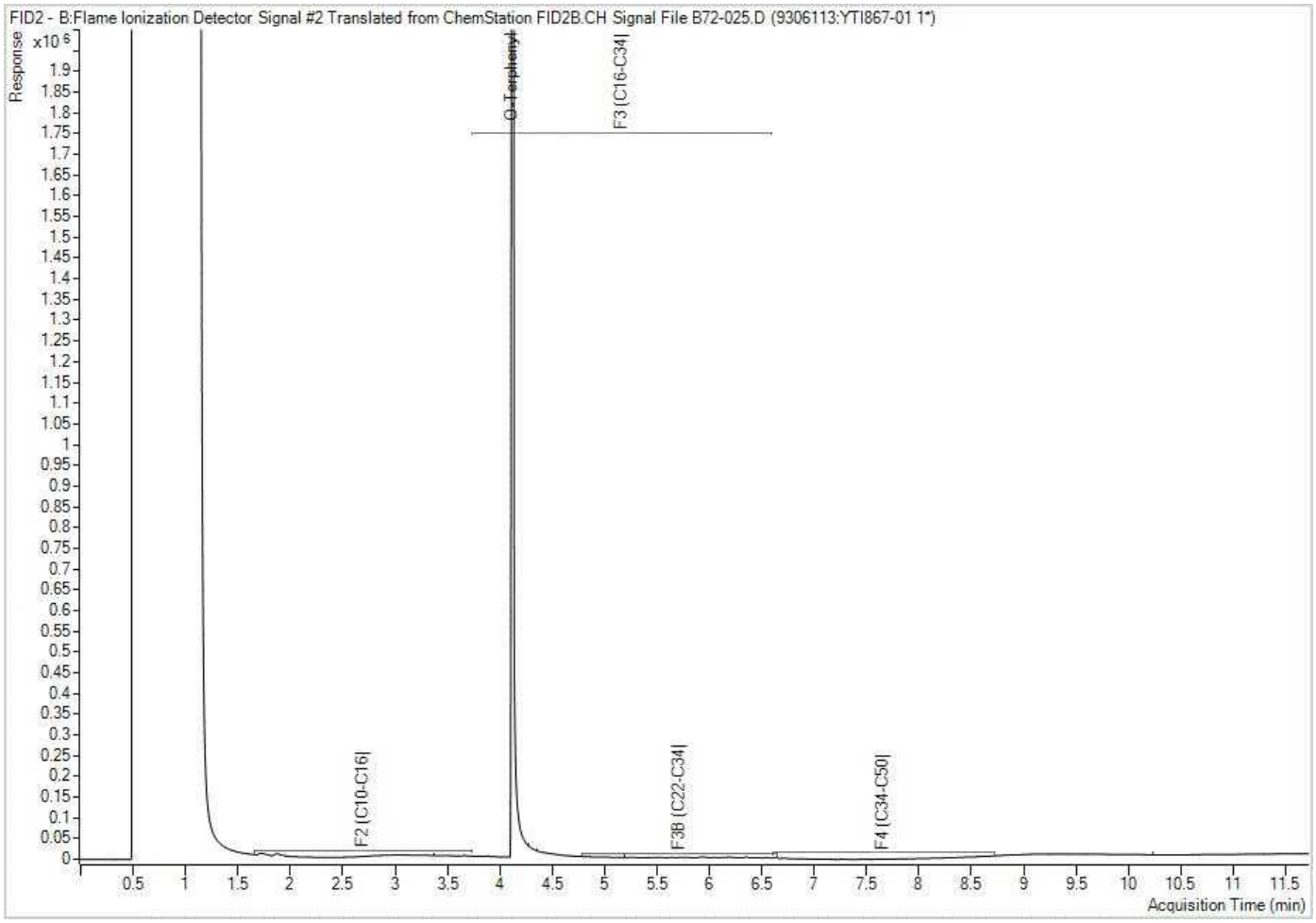
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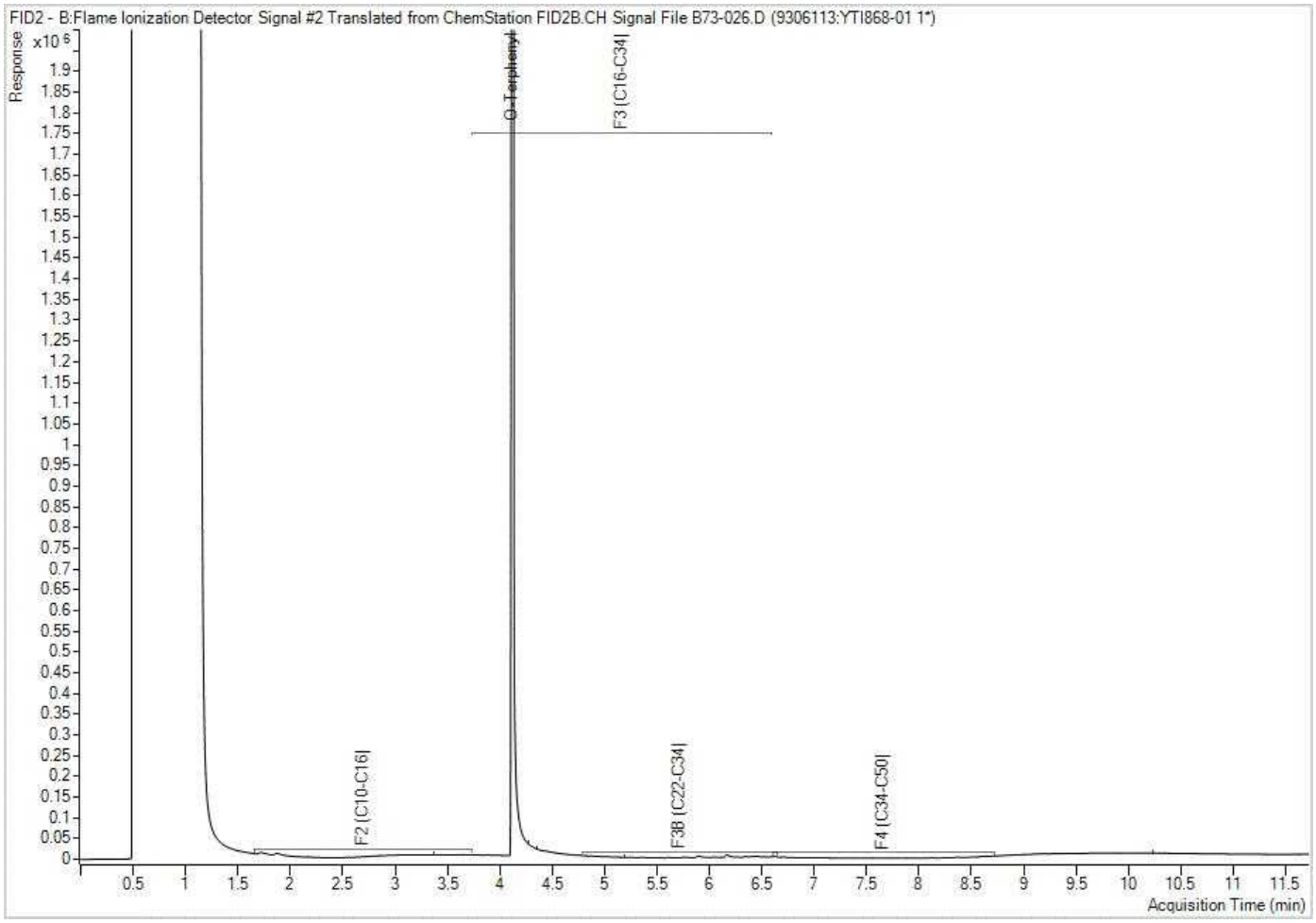
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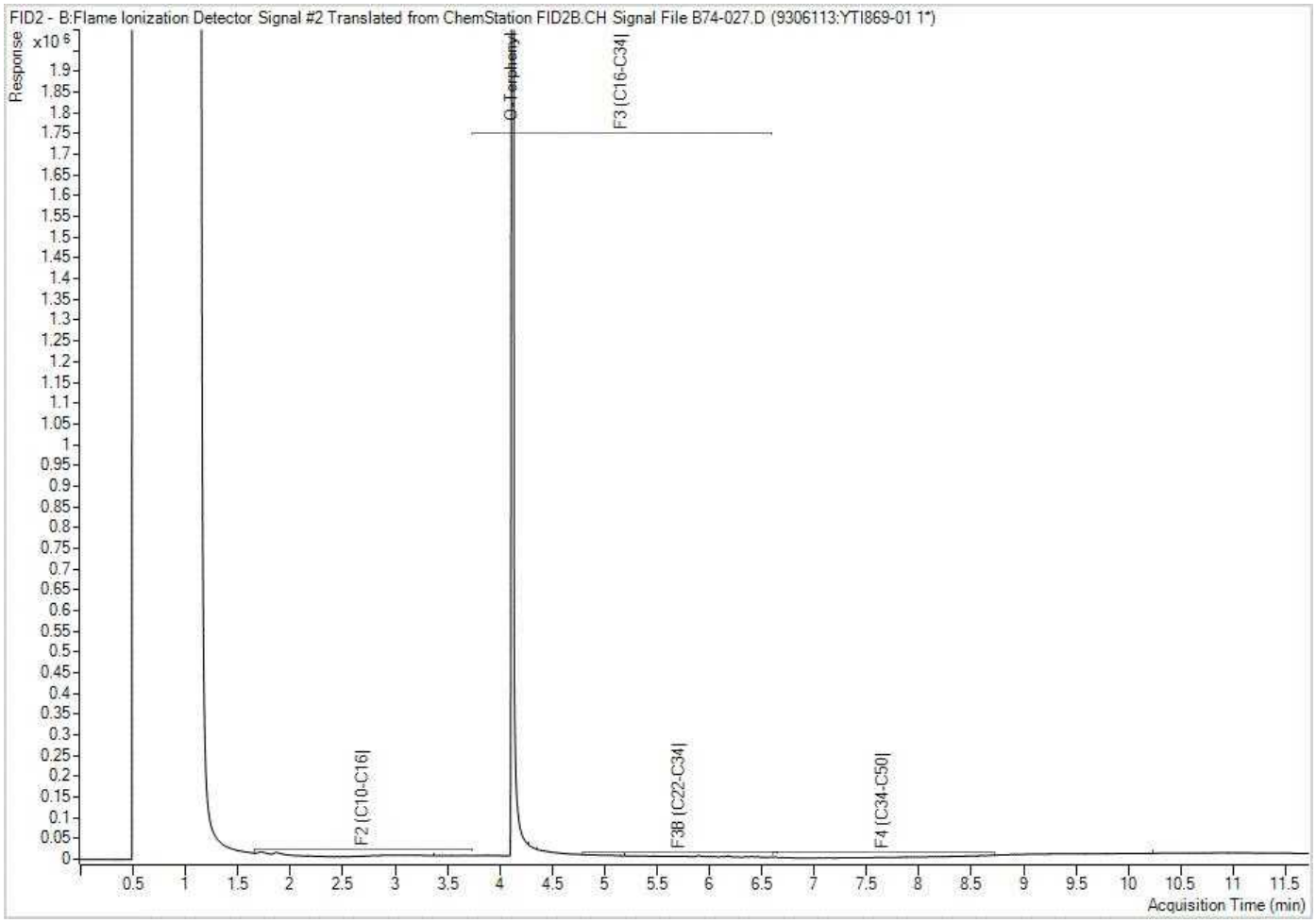
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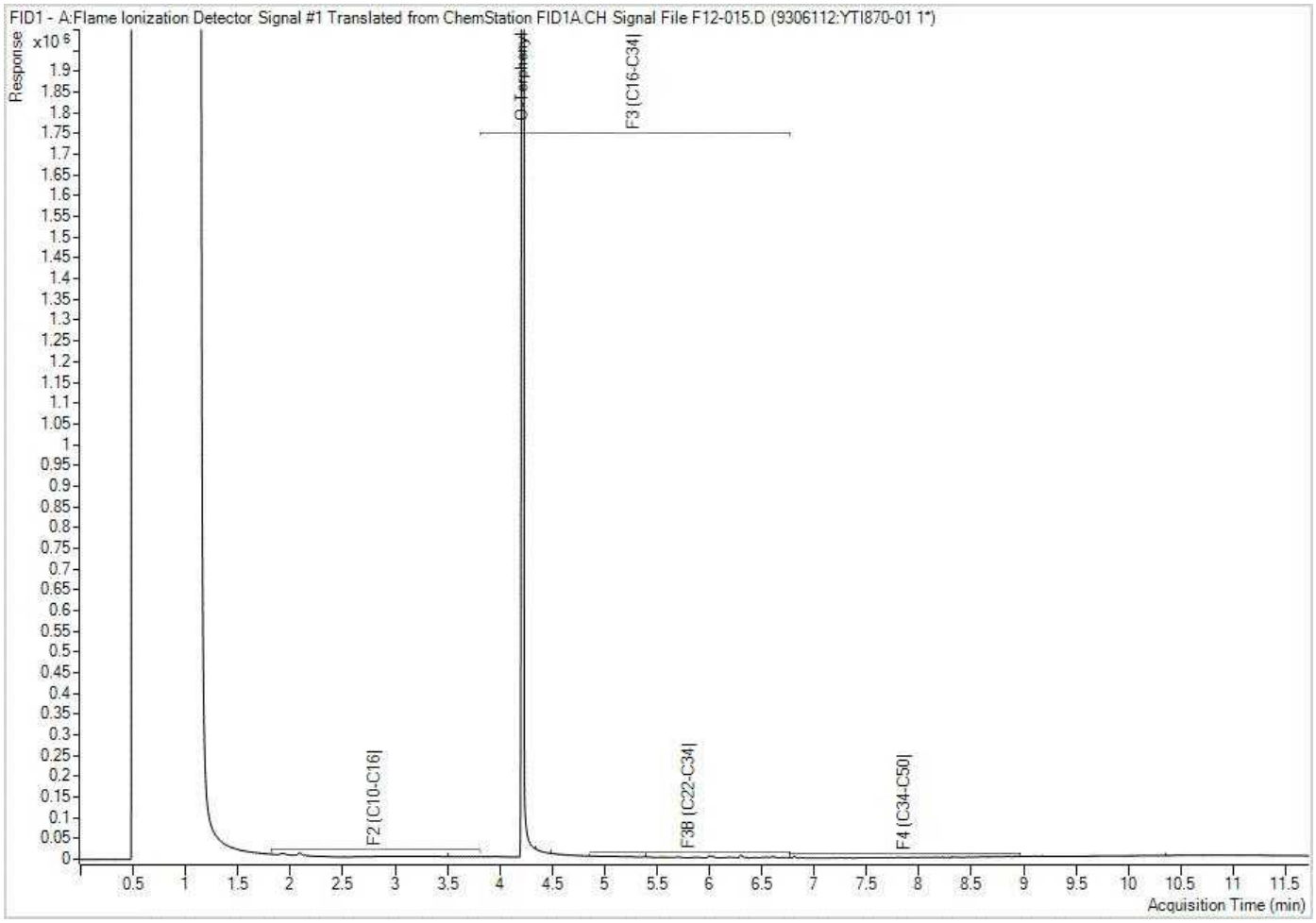
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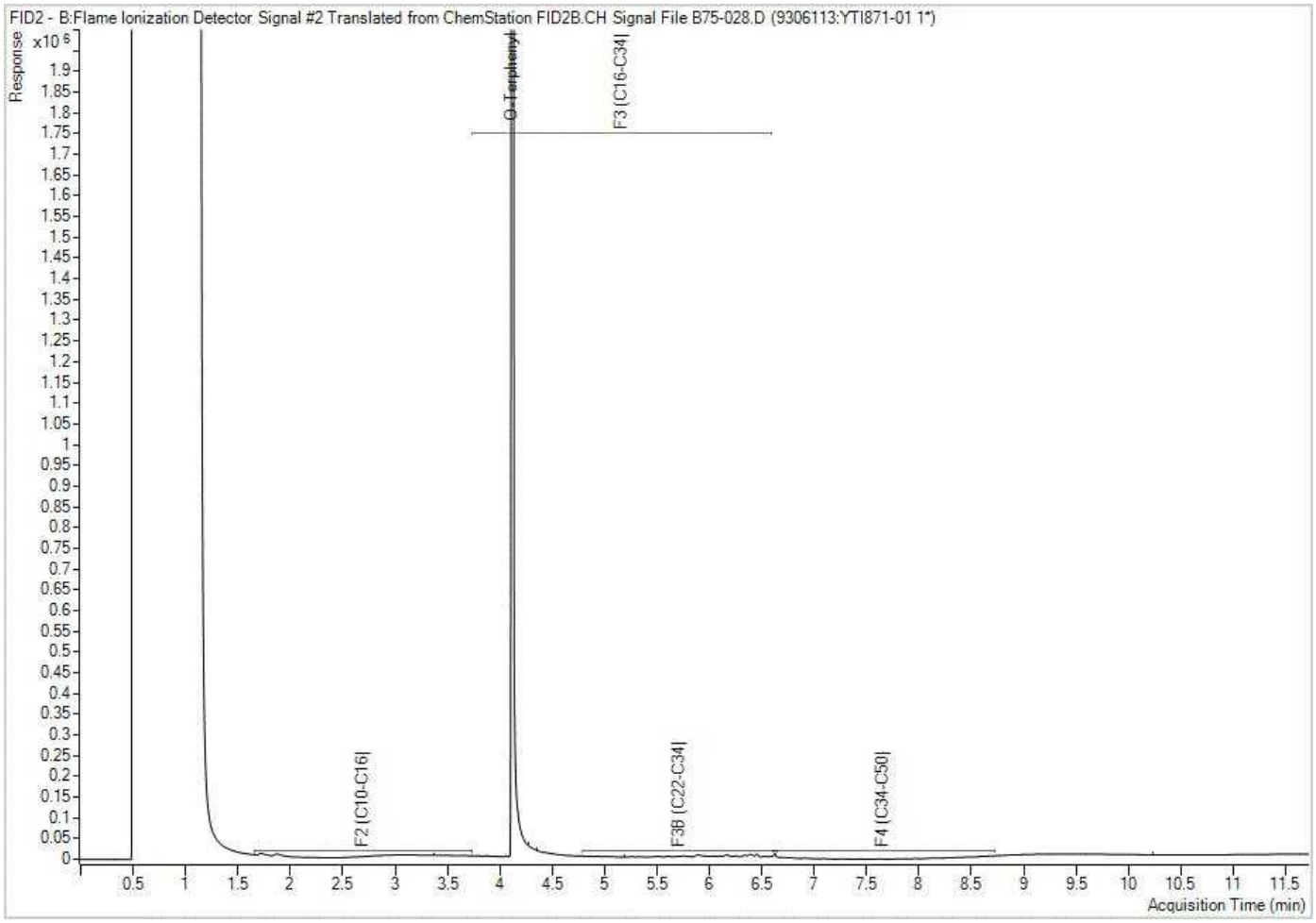
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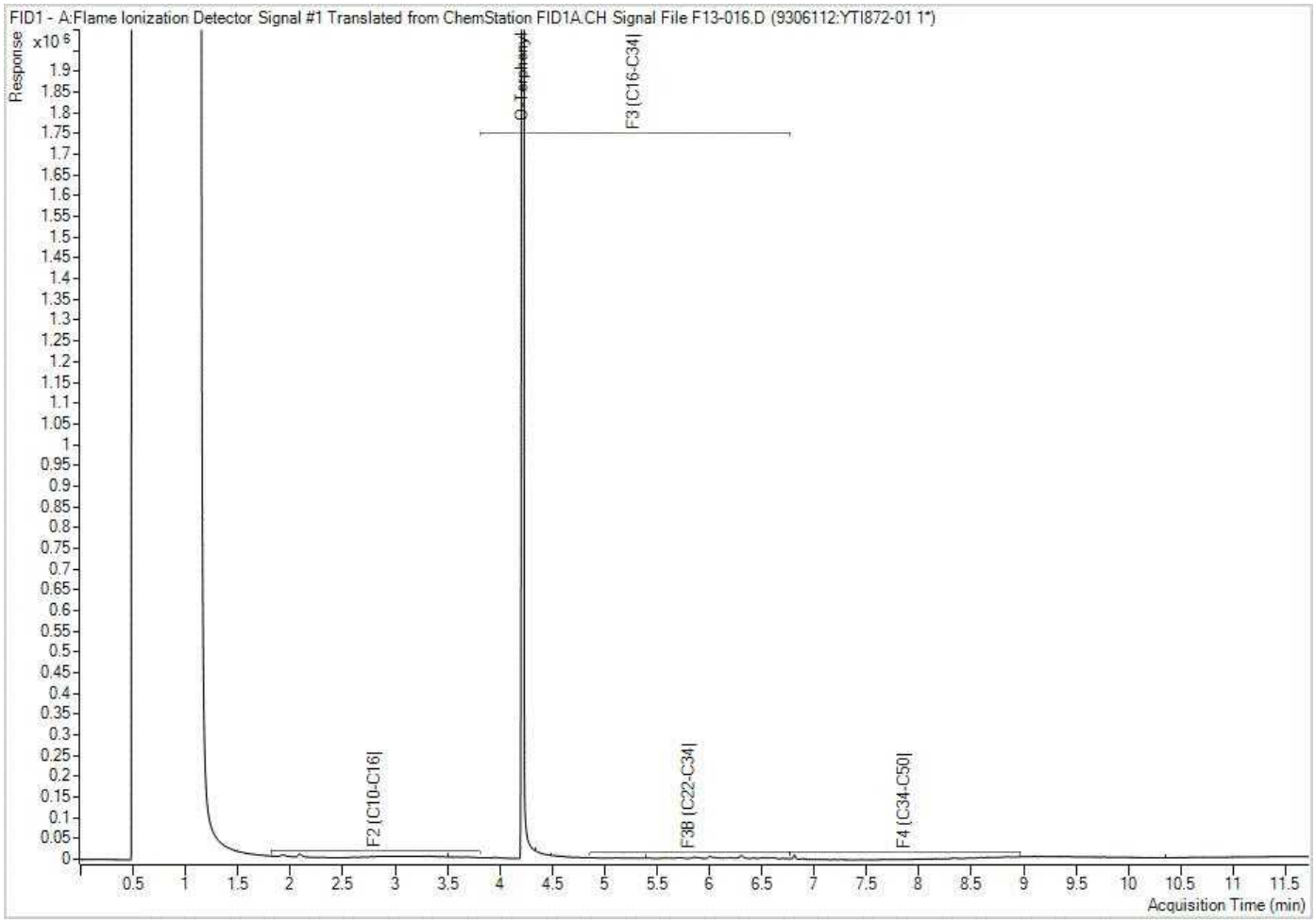
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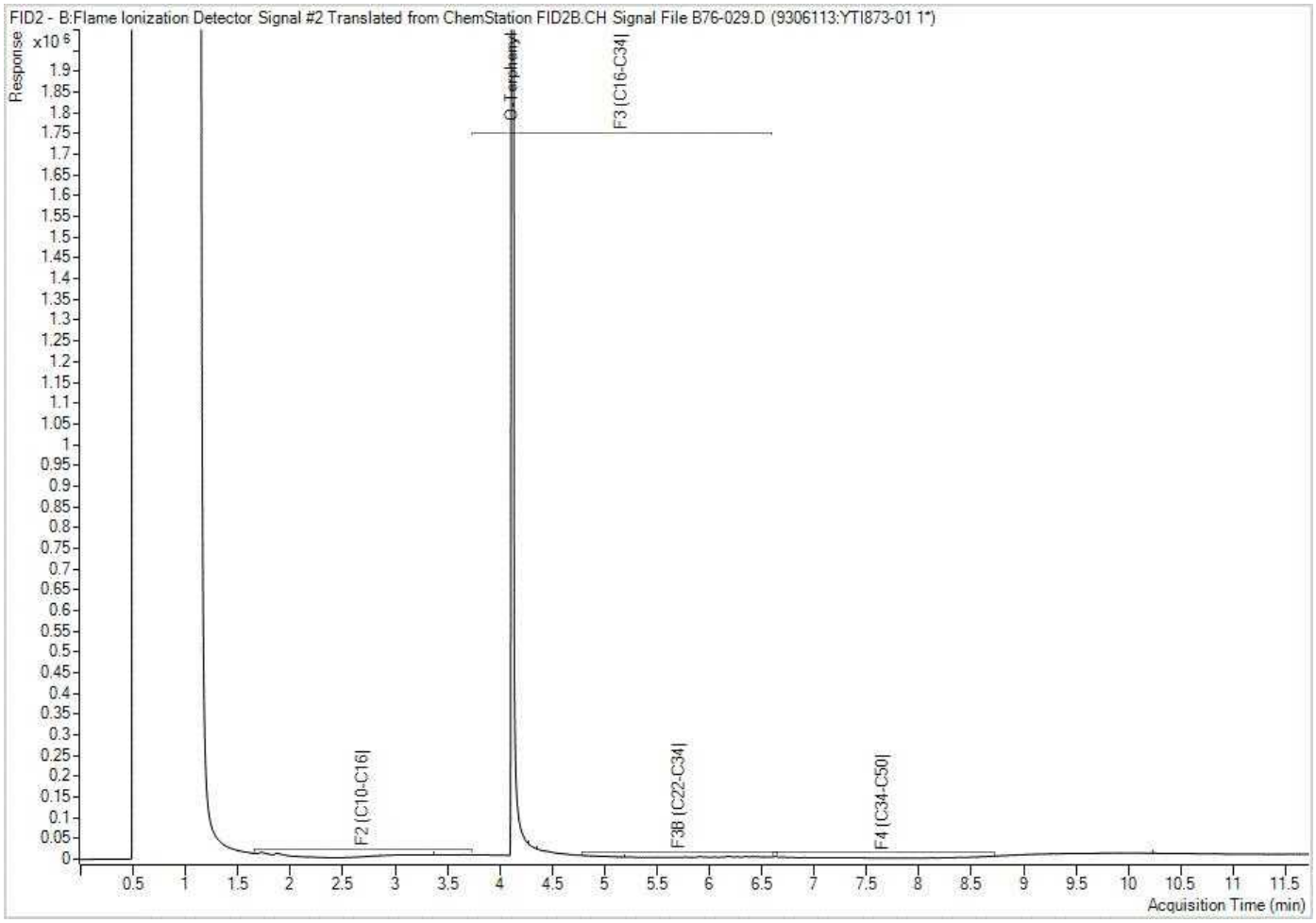
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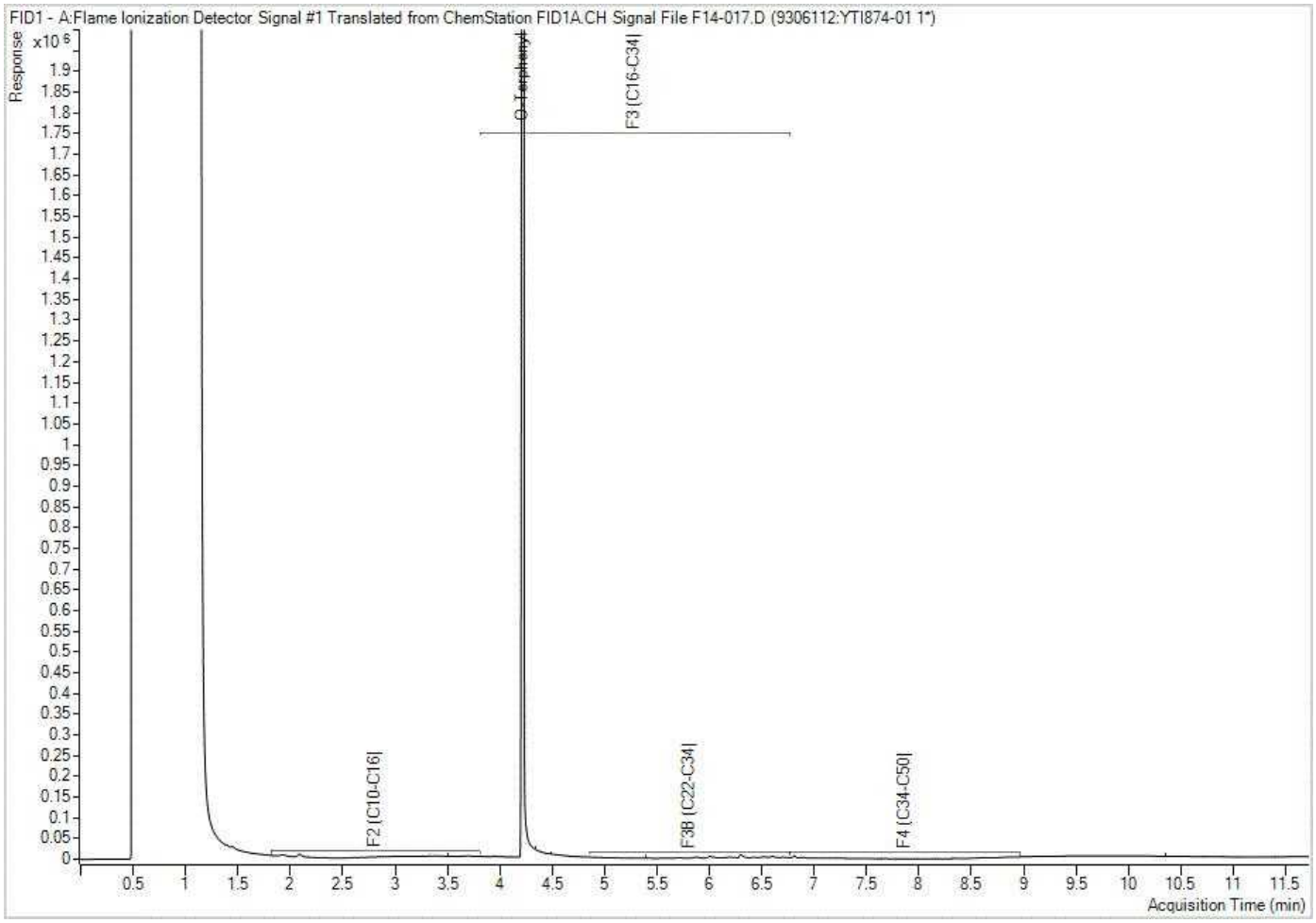
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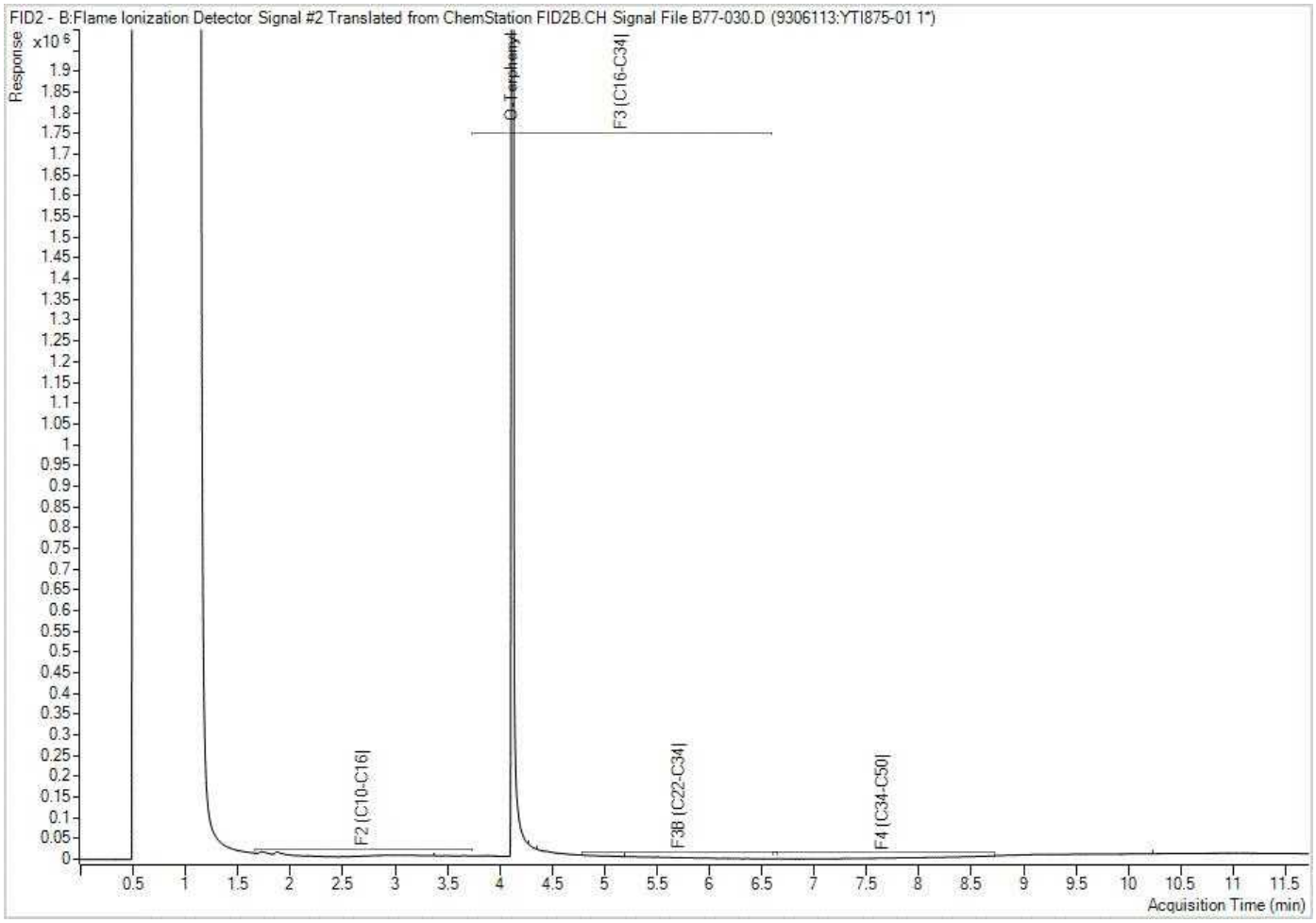
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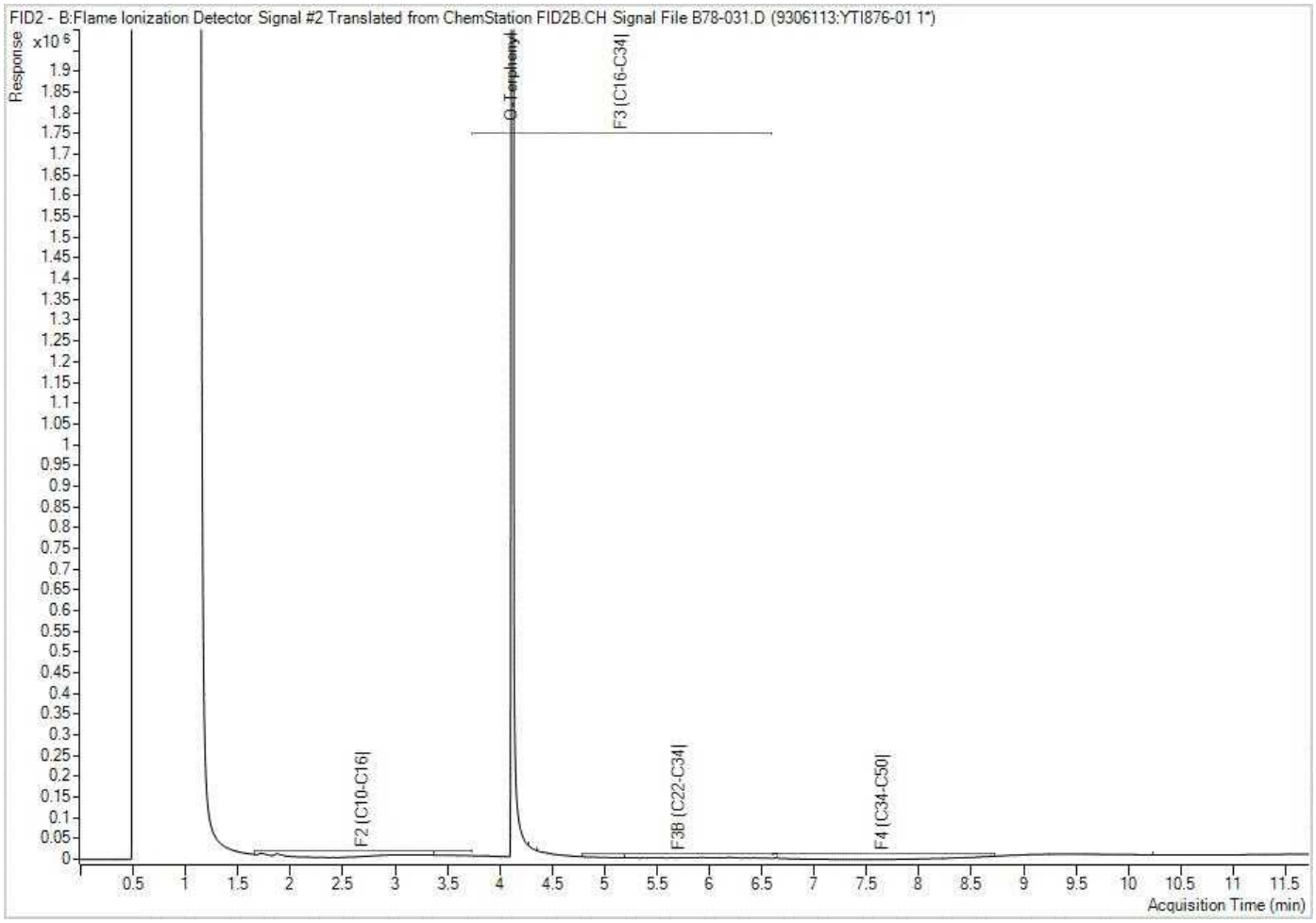
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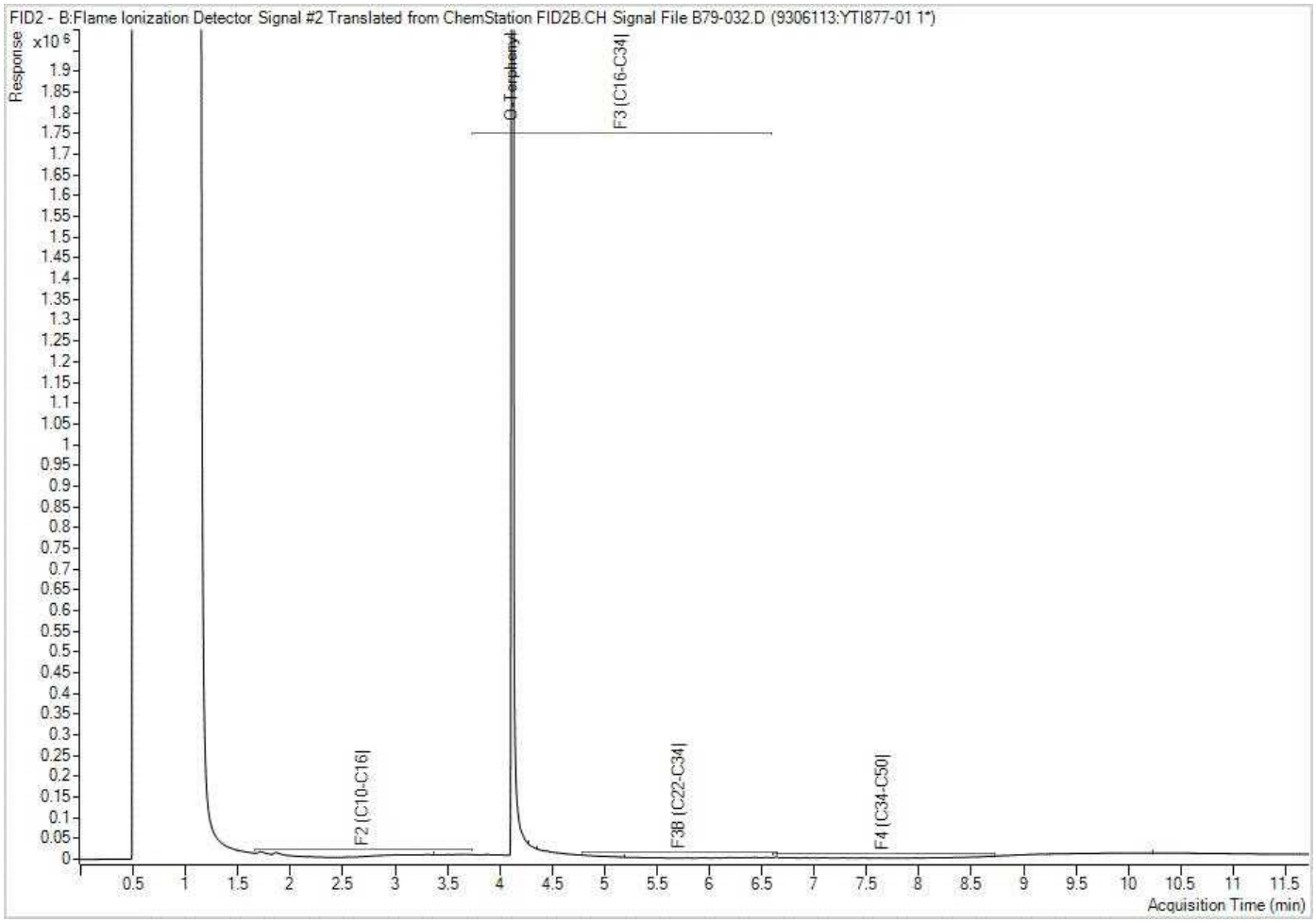
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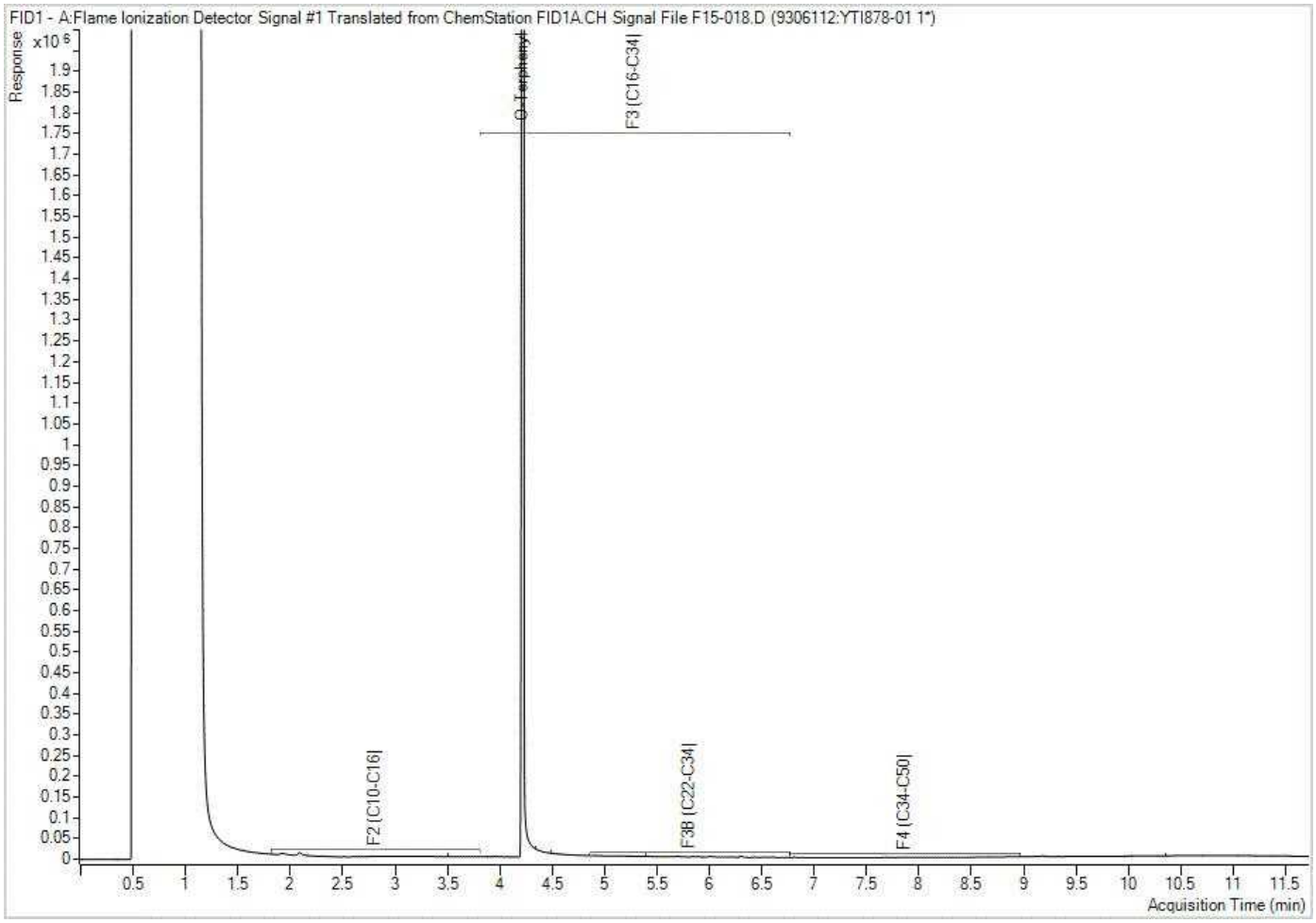
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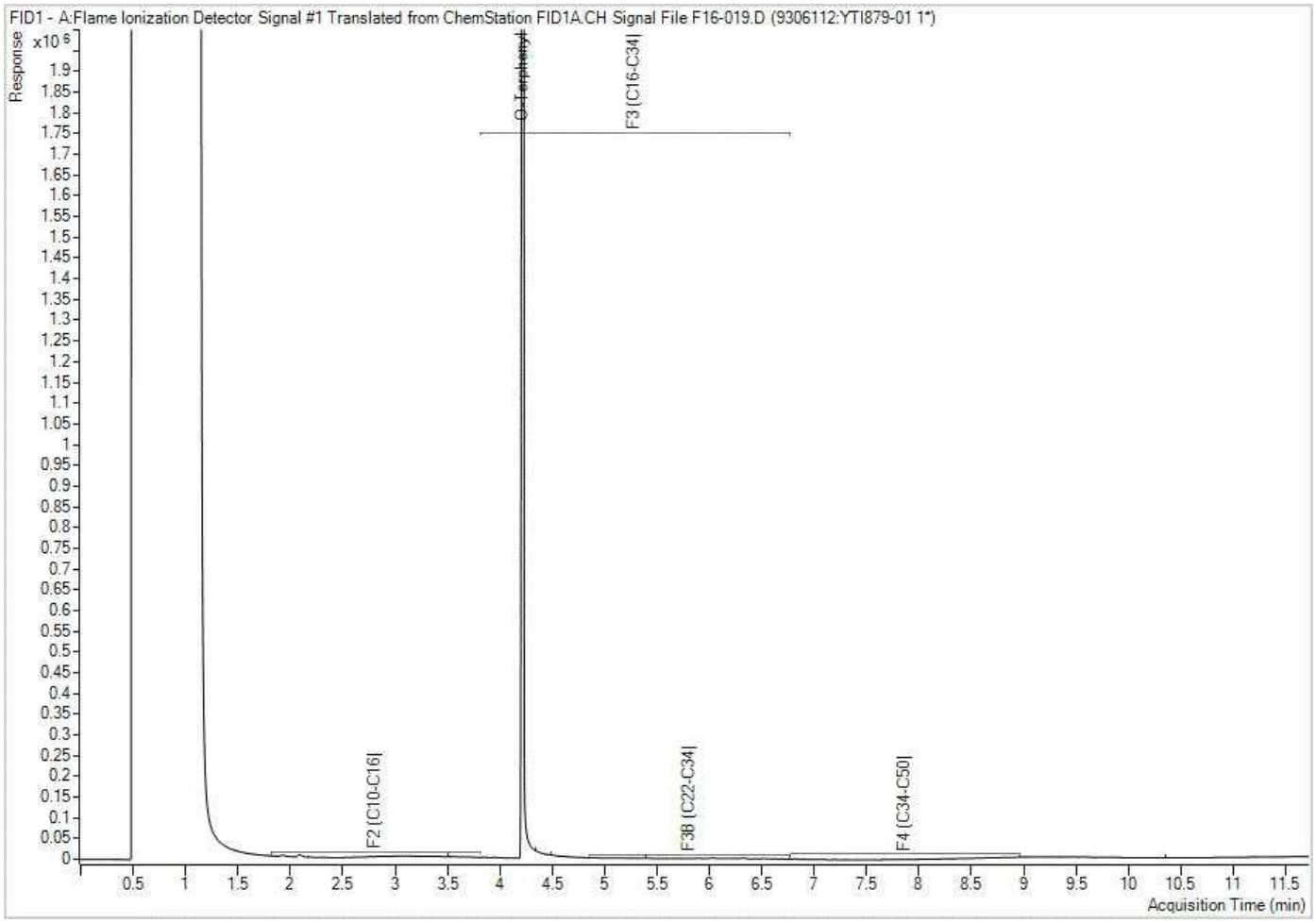
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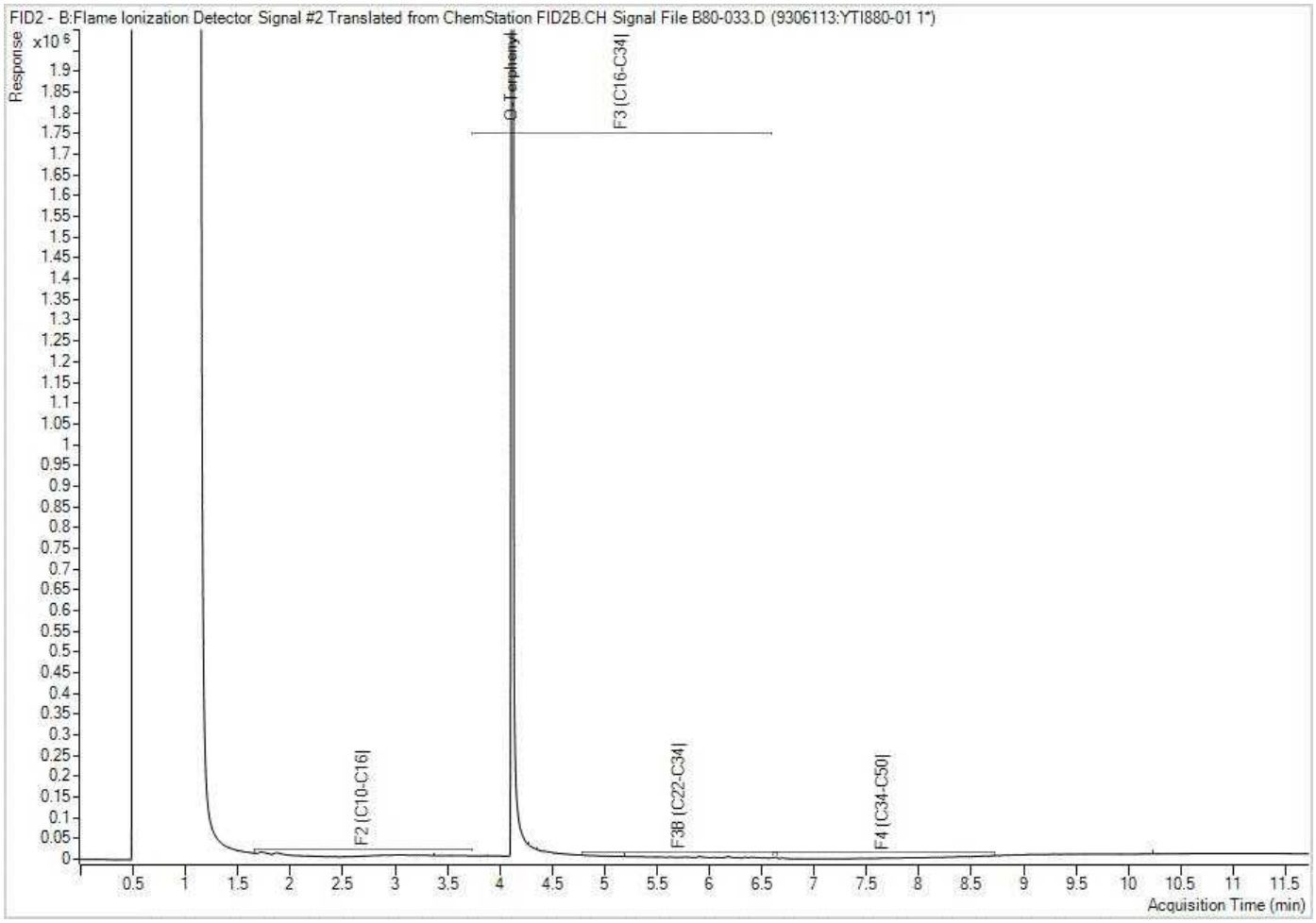
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Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



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Your P.O. #: P103113CA001
Your Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your C.O.C. #: C#956778-01-01

Attention: Edwin Whitford

WSP Canada Inc.
50 Vogell Road
Units 3 and 4
Richmond Hill, ON
CANADA L4B 3N6

Report Date: 2024/05/29
Report #: R8168164
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C495702
Received: 2024/04/01, 18:25

Sample Matrix: Soil
Samples Received: 15

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	9	N/A	2024/04/12	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	1	N/A	2024/04/11		EPA 8260C m
Cyanide (WAD) in Leachates	2	N/A	2024/04/10	CAM SOP-00457	OMOE 3015 m
Conductivity	9	2024/04/10	2024/04/10	CAM SOP-00414	OMOE E3530 v1 m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	9	N/A	2024/04/09	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	8	2024/04/09	2024/04/10	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	1	2024/04/09	2024/04/09	CAM SOP-00316	CCME CWS m
Fluoride by ISE in Leachates	2	2024/04/10	2024/04/10	CAM SOP-00449	SM 24 4500-F- C m
Total Metals in TCLP Leachate by ICPMS	2	2024/04/10	2024/04/10	CAM SOP-00447	EPA 6020B m
Ignitability of a Sample	2	2024/04/16	2024/04/16	CAM SOP-00432	EPA 1030 Rev. 1 m
Moisture	12	N/A	2024/04/08	CAM SOP-00445	Carter 2nd ed 70.2 m
Nitrate& Nitrite as Nitrogen in Leachate	2	N/A	2024/04/10	CAM SOP-00440	SM 24 4500-NO3I/NO2B
PAH Compounds in Leachate by GC/MS (SIM)	2	2024/04/11	2024/04/11	CAM SOP-00318	EPA 8270E
PAH Compounds in Soil by GC/MS (SIM)	9	2024/04/09	2024/04/09	CAM SOP-00318	EPA 8270E
Polychlorinated Biphenyl in Leachate	2	2024/04/11	2024/04/11	CAM SOP-00309	EPA 8082A m
pH CaCl2 EXTRACT	4	2024/04/11	2024/04/11	CAM SOP-00413	EPA 9045 D m
Sieve, 75um	2	N/A	2024/04/10	CAM SOP-00467	ASTM D1140 -17 m
Sodium Adsorption Ratio (SAR)	9	N/A	2024/04/11	CAM SOP-00102	EPA 6010C
TCLP - % Solids	2	2024/04/09	2024/04/10	CAM SOP-00401	EPA 1311 Update I m
TCLP - Extraction Fluid	2	N/A	2024/04/10	CAM SOP-00401	EPA 1311 Update I m
TCLP - Initial and final pH	2	N/A	2024/04/10	CAM SOP-00401	EPA 1311 Update I m
TCLP Zero Headspace Extraction	2	2024/04/09	2024/04/10	CAM SOP-00430	EPA 1311 m
VOCs in ZHE Leachates	2	2024/04/10	2024/04/10	CAM SOP-00228	EPA 8260D
Volatile Organic Compounds in Soil	1	N/A	2024/04/11	CAM SOP-00228	EPA 8260D

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in

Your P.O. #: P103113CA001
Your Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your C.O.C. #: C#956778-01-01

Attention: Edwin Whitford

WSP Canada Inc.
50 Vogell Road
Units 3 and 4
Richmond Hill, ON
CANADA L4B 3N6

Report Date: 2024/05/29
Report #: R8168164
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C495702
Received: 2024/04/01, 18:25

writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Gina Baybayan, Project Manager
Email: Gina.Baybayan@bureauveritas.com
Phone# (905)817-5766
==========
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your P.O. #: P103113CA001
Sampler Initials: LM

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		YTX632	YTX633	YTX636	YTX637		
Sampling Date		2024/04/01 09:45	2024/04/01 10:00	2024/04/01 11:50	2024/04/01 11:55		
COC Number		C#956778-01-01	C#956778-01-01	C#956778-01-01	C#956778-01-01		
	UNITS	BH/MW4-24-0-2.5	BH/MW4-24-7.5-10	BH/MW3-24-0-2	BH/MW3-24-2-5	RDL	QC Batch
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	9319992
Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Chrysene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Phenanthrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Surrogate Recovery (%)							
D10-Anthracene	%	113	109	108	113		9321707
D14-Terphenyl (FS)	%	123	119	114	121		9321707
D8-Acenaphthylene	%	102	99	94	98		9321707

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your P.O. #: P103113CA001
Sampler Initials: LM

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		YTX641	YTX645	YTX647	YTX649	YTX653		
Sampling Date		2024/04/01 14:25	2024/04/01 15:50	2024/04/01 16:05	2024/04/01	2024/04/01 14:55		
COC Number		C#956778-01-01	C#956778-01-01	C#956778-01-01	C#956778-01-01	C#956778-01-01		
	UNITS	BH/MW2-24-0-2.5	BH1-24-0-1.5	BH1-24-10-11.5	DUP-1	BH/MW2-24-15-16.5	RDL	QC Batch
Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	0.0071	9319992
Polyaromatic Hydrocarbons								
Acenaphthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Acenaphthylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Chrysene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Fluoranthene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Fluorene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Naphthalene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Phenanthrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Pyrene	ug/g	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	9321707
Surrogate Recovery (%)								
D10-Anthracene	%	113	111	110	110	114		9321707
D14-Terphenyl (FS)	%	121	123	121	120	122		9321707
D8-Acenaphthylene	%	98	99	96	96	99		9321707

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your P.O. #: P103113CA001
Sampler Initials: LM

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		YTX632			YTX634			YTX636		
Sampling Date		2024/04/01 09:45			2024/04/01 10:45			2024/04/01 11:50		
COC Number		C#956778-01-01			C#956778-01-01			C#956778-01-01		
	UNITS	BH/MW4-24-0-2.5	RDL	QC Batch	BH/MW4-24-15-17.5	RDL	QC Batch	BH/MW3-24-0-2	RDL	QC Batch
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020	0.020	9320900	<0.020	0.020	9320900	<0.020	0.020	9320900
Toluene	ug/g	<0.020	0.020	9320900	<0.020	0.020	9320900	<0.020	0.020	9320900
Ethylbenzene	ug/g	<0.020	0.020	9320900	<0.020	0.020	9320900	<0.020	0.020	9320900
o-Xylene	ug/g	<0.020	0.020	9320900	<0.020	0.020	9320900	<0.020	0.020	9320900
p+m-Xylene	ug/g	<0.040	0.040	9320900	<0.040	0.040	9320900	<0.040	0.040	9320900
Total Xylenes	ug/g	<0.040	0.040	9320900	<0.040	0.040	9320900	<0.040	0.040	9320900
F1 (C6-C10)	ug/g	<10	10	9320900	<10	10	9320900	<10	10	9320900
F1 (C6-C10) - BTEX	ug/g	<10	10	9320900	<10	10	9320900	<10	10	9320900
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	9321709	12	10	9321709	<10	10	9321709
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	9321709	82	50	9321709	<50	50	9321709
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	9321709	<50	50	9321709	<50	50	9321709
Reached Baseline at C50	ug/g	Yes		9321709	Yes		9321709	Yes		9321709
Hydrocarbon Resemblance	ug/g				ED (1)	N/A	9321709			
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	105		9320900	104		9320900	104		9320900
4-Bromofluorobenzene	%	93		9320900	95		9320900	93		9320900
D10-o-Xylene	%	110		9320900	109		9320900	118		9320900
D4-1,2-Dichloroethane	%	98		9320900	101		9320900	100		9320900
o-Terphenyl	%	95		9321709	101		9321709	97		9321709

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) ED: Contaminant elutes in the Diesel range (C10-C24) but does not match our reference standards.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		YTX639			YTX639		
Sampling Date		2024/04/01 12:20			2024/04/01 12:20		
COC Number		C#956778-01-01			C#956778-01-01		
	UNITS	BH/MW3-24-18.5-20	RDL	QC Batch	BH/MW3-24-18.5-20 Lab-Dup	RDL	QC Batch
BTEX & F1 Hydrocarbons							
Benzene	ug/g	<0.020	0.020	9320900			
Toluene	ug/g	<0.020	0.020	9320900			
Ethylbenzene	ug/g	<0.020	0.020	9320900			
o-Xylene	ug/g	<0.020	0.020	9320900			
p+m-Xylene	ug/g	<0.040	0.040	9320900			
Total Xylenes	ug/g	<0.040	0.040	9320900			
F1 (C6-C10)	ug/g	<10	10	9320900			
F1 (C6-C10) - BTEX	ug/g	<10	10	9320900			
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	9321709	<10	10	9321709
F3 (C16-C34 Hydrocarbons)	ug/g	65	50	9321709	60	50	9321709
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	9321709	<50	50	9321709
Reached Baseline at C50	ug/g	Yes		9321709	Yes		9321709
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	106		9320900			
4-Bromofluorobenzene	%	95		9320900			
D10-o-Xylene	%	105		9320900			
D4-1,2-Dichloroethane	%	101		9320900			
o-Terphenyl	%	99		9321709	96		9321709

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your P.O. #: P103113CA001
Sampler Initials: LM

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		YTX641	YTX645	YTX647	YTX649	YTX653		
Sampling Date		2024/04/01 14:25	2024/04/01 15:50	2024/04/01 16:05	2024/04/01	2024/04/01 14:55		
COC Number		C#956778-01-01	C#956778-01-01	C#956778-01-01	C#956778-01-01	C#956778-01-01		
	UNITS	BH/MW2-24-0-2.5	BH1-24-0-1.5	BH1-24-10-11.5	DUP-1	BH/MW2-24-15-16.5	RDL	QC Batch
BTEX & F1 Hydrocarbons								
Benzene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	9320900
Toluene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	9320900
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	9320900
o-Xylene	ug/g	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	9320900
p+m-Xylene	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	9320900
Total Xylenes	ug/g	<0.040	<0.040	<0.040	<0.040	<0.040	0.040	9320900
F1 (C6-C10)	ug/g	<10	<10	<10	<10	<10	10	9320900
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	<10	10	9320900
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	<10	<10	10	9321709
F3 (C16-C34 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	50	9321709
F4 (C34-C50 Hydrocarbons)	ug/g	<50	<50	<50	<50	<50	50	9321709
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes	Yes		9321709
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	104	103	106	104	103		9320900
4-Bromofluorobenzene	%	93	93	92	94	93		9320900
D10-o-Xylene	%	105	106	115	113	101		9320900
D4-1,2-Dichloroethane	%	97	95	97	97	89		9320900
o-Terphenyl	%	99	93	97	95	100		9321709

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS (SOIL)

Bureau Veritas ID		YTX648			YTX648		
Sampling Date		2024/04/01 16:15			2024/04/01 16:15		
COC Number		C#956778-01-01			C#956778-01-01		
	UNITS	BH1-24-20-23.5	RDL	QC Batch	BH1-24-20-23.5 Lab-Dup	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	9319993			
Volatile Organics							
Acetone (2-Propanone)	ug/g	<0.49	0.49	9324921	<0.49	0.49	9324921
Benzene	ug/g	<0.0060	0.0060	9324921	<0.0060	0.0060	9324921
Bromodichloromethane	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Bromoform	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Bromomethane	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Carbon Tetrachloride	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Chlorobenzene	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Chloroform	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Dibromochloromethane	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
1,2-Dichlorobenzene	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
1,3-Dichlorobenzene	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
1,4-Dichlorobenzene	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
1,1-Dichloroethane	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
1,2-Dichloroethane	ug/g	<0.049	0.049	9324921	<0.049	0.049	9324921
1,1-Dichloroethylene	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
1,2-Dichloropropane	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	9324921	<0.030	0.030	9324921
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Ethylbenzene	ug/g	<0.010	0.010	9324921	<0.010	0.010	9324921
Ethylene Dibromide	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Hexane	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	9324921	<0.049	0.049	9324921
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	0.40	9324921	<0.40	0.40	9324921
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	9324921	<0.40	0.40	9324921

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 153 VOCS BY HS (SOIL)

Bureau Veritas ID		YTX648			YTX648		
Sampling Date		2024/04/01 16:15			2024/04/01 16:15		
COC Number		C#956778-01-01			C#956778-01-01		
	UNITS	BH1-24-20-23.5	RDL	QC Batch	BH1-24-20-23.5 Lab-Dup	RDL	QC Batch
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Styrene	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Tetrachloroethylene	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Toluene	ug/g	<0.020	0.020	9324921	<0.020	0.020	9324921
1,1,1-Trichloroethane	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
1,1,2-Trichloroethane	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Trichloroethylene	ug/g	<0.010	0.010	9324921	<0.010	0.010	9324921
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	9324921	<0.040	0.040	9324921
Vinyl Chloride	ug/g	<0.019	0.019	9324921	<0.019	0.019	9324921
p+m-Xylene	ug/g	<0.020	0.020	9324921	<0.020	0.020	9324921
o-Xylene	ug/g	<0.020	0.020	9324921	<0.020	0.020	9324921
Total Xylenes	ug/g	<0.020	0.020	9324921	<0.020	0.020	9324921
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	99		9324921	99		9324921
D10-o-Xylene	%	107		9324921	105		9324921
D4-1,2-Dichloroethane	%	83		9324921	85		9324921
D8-Toluene	%	99		9324921	98		9324921

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your P.O. #: P103113CA001
Sampler Initials: LM

O.REG 558 TCLP BENZO(A)PYRENE

Bureau Veritas ID		YTX651	YTX652	YTX652		
Sampling Date		2024/04/01 12:45	2024/04/01 16:00	2024/04/01 16:00		
COC Number		C#956778-01-01	C#956778-01-01	C#956778-01-01		
	UNITS	TCLP-01	TCLP-02	TCLP-02 Lab-Dup	RDL	QC Batch
Polyaromatic Hydrocarbons						
Leachable Benzo(a)pyrene	ug/L	<0.10	<0.10	<0.10	0.10	9326991
Surrogate Recovery (%)						
Leachable D10-Anthracene	%	116	116	115		9326991
Leachable D14-Terphenyl (FS)	%	106	112	109		9326991
Leachable D8-Acenaphthylene	%	111	112	111		9326991

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 558 TCLP INORGANICS PACKAGE (SOIL)

Bureau Veritas ID		YTX651	YTX652	YTX652		
Sampling Date		2024/04/01 12:45	2024/04/01 16:00	2024/04/01 16:00		
COC Number		C#956778-01-01	C#956778-01-01	C#956778-01-01		
	UNITS	TCLP-01	TCLP-02	TCLP-02 Lab-Dup	RDL	QC Batch
Inorganics						
Leachable Fluoride (F-)	mg/L	0.30	0.28	0.27	0.10	9325460
Leachable WAD Cyanide (Free)	mg/L	<0.010	<0.010	<0.010	0.010	9325449
Leachable Nitrite (N)	mg/L	<0.10	<0.10	<0.10	0.10	9325463
Leachable Nitrate (N)	mg/L	<1.0	<1.0	<1.0	1.0	9325463
Leachable Nitrate + Nitrite (N)	mg/L	<1.0	<1.0	<1.0	1.0	9325463
Metals						
Leachable Arsenic (As)	mg/L	<0.2	<0.2	<0.2	0.2	9325025
Leachable Barium (Ba)	mg/L	0.7	1.4	1.4	0.2	9325025
Leachable Boron (B)	mg/L	0.1	0.1	0.1	0.1	9325025
Leachable Cadmium (Cd)	mg/L	<0.05	<0.05	<0.05	0.05	9325025
Leachable Chromium (Cr)	mg/L	<0.1	<0.1	<0.1	0.1	9325025
Leachable Lead (Pb)	mg/L	<0.1	<0.1	<0.1	0.1	9325025
Leachable Mercury (Hg)	mg/L	<0.001	<0.001	<0.001	0.001	9325025
Leachable Selenium (Se)	mg/L	<0.1	<0.1	<0.1	0.1	9325025
Leachable Silver (Ag)	mg/L	<0.01	<0.01	<0.01	0.01	9325025
Leachable Uranium (U)	mg/L	<0.01	0.01	0.01	0.01	9325025

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your P.O. #: P103113CA001
Sampler Initials: LM

TCLP LEACHATE PREPARATION (SOIL)

Bureau Veritas ID		YTX651	YTX652		
Sampling Date		2024/04/01 12:45	2024/04/01 16:00		
COC Number		C#956778-01-01	C#956778-01-01		
	UNITS	TCLP-01	TCLP-02	RDL	QC Batch
Inorganics					
Final pH	pH	5.74	5.72		9325453
Initial pH	pH	9.56	9.58		9325453
TCLP - % Solids	%	100	100	0.2	9322519
TCLP Extraction Fluid	N/A	FLUID 2	FLUID 2		9325452

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 558 TCLP PCBS (SOIL)

Bureau Veritas ID		YTX651	YTX652	YTX652		
Sampling Date		2024/04/01 12:45	2024/04/01 16:00	2024/04/01 16:00		
COC Number		C#956778-01-01	C#956778-01-01	C#956778-01-01		
	UNITS	TCLP-01	TCLP-02	TCLP-02 Lab-Dup	RDL	QC Batch
PCBs						
Leachable Total PCB	ug/L	<3.0	<3.0	<3.0	3.0	9327074
Surrogate Recovery (%)						
Leachable Decachlorobiphenyl	%	104	103	99		9327074

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

O.REG 558 TCLP VOCS BY HS (SOIL)

Bureau Veritas ID		YTX651	YTX652		
Sampling Date		2024/04/01 12:45	2024/04/01 16:00		
COC Number		C#956778-01-01	C#956778-01-01		
	UNITS	TCLP-01	TCLP-02	RDL	QC Batch
Charge/Prep Analysis					
Amount Extracted (Wet Weight) (g)	N/A	25	25	N/A	9322189
Volatile Organics					
Leachable Benzene	mg/L	<0.020	<0.020	0.020	9325100
Leachable Carbon Tetrachloride	mg/L	<0.020	<0.020	0.020	9325100
Leachable Chlorobenzene	mg/L	<0.020	<0.020	0.020	9325100
Leachable Chloroform	mg/L	<0.020	<0.020	0.020	9325100
Leachable 1,2-Dichlorobenzene	mg/L	<0.050	<0.050	0.050	9325100
Leachable 1,4-Dichlorobenzene	mg/L	<0.050	<0.050	0.050	9325100
Leachable 1,2-Dichloroethane	mg/L	<0.050	<0.050	0.050	9325100
Leachable 1,1-Dichloroethylene	mg/L	<0.020	<0.020	0.020	9325100
Leachable Methylene Chloride(Dichloromethane)	mg/L	<0.20	<0.20	0.20	9325100
Leachable Methyl Ethyl Ketone (2-Butanone)	mg/L	<1.0	<1.0	1.0	9325100
Leachable Tetrachloroethylene	mg/L	<0.020	<0.020	0.020	9325100
Leachable Trichloroethylene	mg/L	<0.020	<0.020	0.020	9325100
Leachable Vinyl Chloride	mg/L	<0.020	<0.020	0.020	9325100
Surrogate Recovery (%)					
Leachable 4-Bromofluorobenzene	%	104	105		9325100
Leachable D4-1,2-Dichloroethane	%	108	108		9325100
Leachable D8-Toluene	%	87	87		9325100

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your P.O. #: P103113CA001
Sampler Initials: LM

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		YTX632		YTX633			YTX634		
Sampling Date		2024/04/01 09:45		2024/04/01 10:00			2024/04/01 10:45		
COC Number		C#956778-01-01		C#956778-01-01			C#956778-01-01		
	UNITS	BH/MW4-24-0-2.5	QC Batch	BH/MW4-24-7.5-10	RDL	QC Batch	BH/MW4-24-15-17.5	RDL	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.66	9320783	0.53		9320783			
Inorganics									
Conductivity	mS/cm	0.36	9324588	0.30	0.002	9324588			
Moisture	%	14	9321160	14	1.0	9321160	12	1.0	9321160
Available (CaCl2) pH	pH	8.00	9327128	7.95		9327108			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		YTX636			YTX637			YTX639		
Sampling Date		2024/04/01 11:50			2024/04/01 11:55			2024/04/01 12:20		
COC Number		C#956778-01-01			C#956778-01-01			C#956778-01-01		
	UNITS	BH/MW3-24-0-2	RDL	QC Batch	BH/MW3-24-2-5	RDL	QC Batch	BH/MW3-24-18.5-20	RDL	QC Batch
Calculated Parameters										
Sodium Adsorption Ratio	N/A	0.37		9320783	0.33		9319621			
Inorganics										
Conductivity	mS/cm	0.22	0.002	9324588	0.18	0.002	9324588			
Moisture	%	23	1.0	9321160	15	1.0	9321168	12	1.0	9321160
Miscellaneous Parameters										
Grain Size	%				FINE	N/A	9322084			
Sieve - #200 (<0.075mm)	%				98	1	9322084			
Sieve - #200 (>0.075mm)	%				2	1	9322084			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your P.O. #: P103113CA001
Sampler Initials: LM

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		YTX641			YTX643			YTX643	
Sampling Date		2024/04/01 14:25			2024/04/01 14:40			2024/04/01 14:40	
COC Number		C#956778-01-01			C#956778-01-01			C#956778-01-01	
	UNITS	BH/MW2-24-0-2.5	RDL	QC Batch	BH/MW2-24-12.5-15	RDL	QC Batch	BH/MW2-24-12.5-15 Lab-Dup	QC Batch
Calculated Parameters									
Sodium Adsorption Ratio	N/A	0.30		9319621					
Inorganics									
Conductivity	mS/cm	0.14	0.002	9324588					
Moisture	%	15	1.0	9321160					
Available (CaCl2) pH	pH	7.78		9327128	7.89		9327128	7.92	9327128
Miscellaneous Parameters									
Grain Size	%				FINE	N/A	9322084		
Sieve - #200 (<0.075mm)	%				96	1	9322084		
Sieve - #200 (>0.075mm)	%				4	1	9322084		

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas ID		YTX645	YTX647			YTX648		
Sampling Date		2024/04/01 15:50	2024/04/01 16:05			2024/04/01 16:15		
COC Number		C#956778-01-01	C#956778-01-01			C#956778-01-01		
	UNITS	BH1-24-0-1.5	BH1-24-10-11.5	RDL	QC Batch	BH1-24-20-23.5	RDL	QC Batch
Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.25 (1)	0.35		9319621			
Inorganics								
Conductivity	mS/cm	0.18	0.19	0.002	9324588			
Moisture	%	18	18	1.0	9321160	14	1.0	9321168

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your P.O. #: P103113CA001
Sampler Initials: LM

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		YTX649	YTX653		
Sampling Date		2024/04/01	2024/04/01 14:55		
COC Number		C#956778-01-01	C#956778-01-01		
	UNITS	DUP-1	BH/MW2-24-15-16.5	RDL	QC Batch
Calculated Parameters					
Sodium Adsorption Ratio	N/A	0.36	0.29		9319621
Inorganics					
Conductivity	mS/cm	0.21	0.19	0.002	9324588
Moisture	%	23	14	1.0	9321160

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

MISCELLANEOUS (SOIL)

Bureau Veritas ID		YTX651	YTX652	
Sampling Date		2024/04/01 12:45	2024/04/01 16:00	
COC Number		C#956778-01-01	C#956778-01-01	
	UNITS	TCLP-01	TCLP-02	QC Batch
Inorganics				
Ignitability	N/A	NF/NI	NF/NI	9336319
QC Batch = Quality Control Batch				

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YTX632 **Collected:** 2024/04/01
Sample ID: BH/MW4-24-0-2.5 **Shipped:**
Matrix: Soil **Received:** 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9319992	N/A	2024/04/12	Automated Statchk
Conductivity	AT	9324588	2024/04/10	2024/04/10	Gurparteek KAUR
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9320900	N/A	2024/04/09	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9321709	2024/04/09	2024/04/09	Jeevaraj Jeevaratrnam
Moisture	BAL	9321160	N/A	2024/04/08	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9321707	2024/04/09	2024/04/09	Lingyun Feng
pH CaCl2 EXTRACT	AT	9327128	2024/04/11	2024/04/11	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9320783	N/A	2024/04/11	Automated Statchk

Bureau Veritas ID: YTX633 **Collected:** 2024/04/01
Sample ID: BH/MW4-24-7.5-10 **Shipped:**
Matrix: Soil **Received:** 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9319992	N/A	2024/04/12	Automated Statchk
Conductivity	AT	9324588	2024/04/10	2024/04/10	Gurparteek KAUR
Moisture	BAL	9321160	N/A	2024/04/08	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9321707	2024/04/09	2024/04/09	Lingyun Feng
pH CaCl2 EXTRACT	AT	9327108	2024/04/11	2024/04/11	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9320783	N/A	2024/04/11	Automated Statchk

Bureau Veritas ID: YTX634 **Collected:** 2024/04/01
Sample ID: BH/MW4-24-15-17.5 **Shipped:**
Matrix: Soil **Received:** 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9320900	N/A	2024/04/09	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9321709	2024/04/09	2024/04/10	Jeevaraj Jeevaratrnam
Moisture	BAL	9321160	N/A	2024/04/08	Muhammad Chhaidan

Bureau Veritas ID: YTX636 **Collected:** 2024/04/01
Sample ID: BH/MW3-24-0-2 **Shipped:**
Matrix: Soil **Received:** 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9319992	N/A	2024/04/12	Automated Statchk
Conductivity	AT	9324588	2024/04/10	2024/04/10	Gurparteek KAUR
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9320900	N/A	2024/04/09	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9321709	2024/04/09	2024/04/10	Jeevaraj Jeevaratrnam
Moisture	BAL	9321160	N/A	2024/04/08	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9321707	2024/04/09	2024/04/09	Lingyun Feng
Sodium Adsorption Ratio (SAR)	CALC/MET	9320783	N/A	2024/04/11	Automated Statchk

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YTX637 **Collected:** 2024/04/01
Sample ID: BH/MW3-24-2-5 **Shipped:**
Matrix: Soil **Received:** 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9319992	N/A	2024/04/12	Automated Statchk
Conductivity	AT	9324588	2024/04/10	2024/04/10	Gurparteek KAUR
Moisture	BAL	9321168	N/A	2024/04/08	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9321707	2024/04/09	2024/04/09	Lingyun Feng
Sieve, 75um	SIEV	9322084	N/A	2024/04/10	Joe Thomas
Sodium Adsorption Ratio (SAR)	CALC/MET	9319621	N/A	2024/04/11	Automated Statchk

Bureau Veritas ID: YTX639 **Collected:** 2024/04/01
Sample ID: BH/MW3-24-18.5-20 **Shipped:**
Matrix: Soil **Received:** 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9320900	N/A	2024/04/09	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9321709	2024/04/09	2024/04/10	Jeevaraj Jeevaratrnam
Moisture	BAL	9321160	N/A	2024/04/08	Muhammad Chhaidan

Bureau Veritas ID: YTX639 Dup **Collected:** 2024/04/01
Sample ID: BH/MW3-24-18.5-20 **Shipped:**
Matrix: Soil **Received:** 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9321709	2024/04/09	2024/04/10	Jeevaraj Jeevaratrnam

Bureau Veritas ID: YTX641 **Collected:** 2024/04/01
Sample ID: BH/MW2-24-0-2.5 **Shipped:**
Matrix: Soil **Received:** 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9319992	N/A	2024/04/12	Automated Statchk
Conductivity	AT	9324588	2024/04/10	2024/04/10	Gurparteek KAUR
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9320900	N/A	2024/04/09	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9321709	2024/04/09	2024/04/10	Jeevaraj Jeevaratrnam
Moisture	BAL	9321160	N/A	2024/04/08	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9321707	2024/04/09	2024/04/09	Lingyun Feng
pH CaCl2 EXTRACT	AT	9327128	2024/04/11	2024/04/11	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9319621	N/A	2024/04/11	Automated Statchk

Bureau Veritas ID: YTX643 **Collected:** 2024/04/01
Sample ID: BH/MW2-24-12.5-15 **Shipped:**
Matrix: Soil **Received:** 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	9327128	2024/04/11	2024/04/11	Kien Tran
Sieve, 75um	SIEV	9322084	N/A	2024/04/10	Joe Thomas

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TEST SUMMARY

Bureau Veritas ID: YTX643 Dup
Sample ID: BH/MW2-24-12.5-15
Matrix: Soil
Collected: 2024/04/01
Shipped:
Received: 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	9327128	2024/04/11	2024/04/11	Kien Tran

Bureau Veritas ID: YTX645
Sample ID: BH1-24-0-1.5
Matrix: Soil
Collected: 2024/04/01
Shipped:
Received: 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9319992	N/A	2024/04/12	Automated Statchk
Conductivity	AT	9324588	2024/04/10	2024/04/10	Gurparteek KAUR
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9320900	N/A	2024/04/09	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9321709	2024/04/09	2024/04/10	Jeevaraj Jeevaratrnam
Moisture	BAL	9321160	N/A	2024/04/08	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9321707	2024/04/09	2024/04/09	Lingyun Feng
Sodium Adsorption Ratio (SAR)	CALC/MET	9319621	N/A	2024/04/11	Automated Statchk

Bureau Veritas ID: YTX647
Sample ID: BH1-24-10-11.5
Matrix: Soil
Collected: 2024/04/01
Shipped:
Received: 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9319992	N/A	2024/04/12	Automated Statchk
Conductivity	AT	9324588	2024/04/10	2024/04/10	Gurparteek KAUR
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9320900	N/A	2024/04/09	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9321709	2024/04/09	2024/04/10	Jeevaraj Jeevaratrnam
Moisture	BAL	9321160	N/A	2024/04/08	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9321707	2024/04/09	2024/04/09	Lingyun Feng
Sodium Adsorption Ratio (SAR)	CALC/MET	9319621	N/A	2024/04/11	Automated Statchk

Bureau Veritas ID: YTX648
Sample ID: BH1-24-20-23.5
Matrix: Soil
Collected: 2024/04/01
Shipped:
Received: 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9319993	N/A	2024/04/11	Automated Statchk
Moisture	BAL	9321168	N/A	2024/04/08	Muhammad Chhaidan
Volatile Organic Compounds in Soil	GC/MS	9324921	N/A	2024/04/11	Mariia Biliaieva

Bureau Veritas ID: YTX648 Dup
Sample ID: BH1-24-20-23.5
Matrix: Soil
Collected: 2024/04/01
Shipped:
Received: 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds in Soil	GC/MS	9324921	N/A	2024/04/11	Mariia Biliaieva

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

TEST SUMMARY

Bureau Veritas ID: YTX649
Sample ID: DUP-1
Matrix: Soil

Collected: 2024/04/01
Shipped:
Received: 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9319992	N/A	2024/04/12	Automated Statchk
Conductivity	AT	9324588	2024/04/10	2024/04/10	Gurparteek KAUR
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9320900	N/A	2024/04/09	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9321709	2024/04/09	2024/04/10	Jeevaraj Jeevaratrnam
Moisture	BAL	9321160	N/A	2024/04/08	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9321707	2024/04/09	2024/04/09	Lingyun Feng
Sodium Adsorption Ratio (SAR)	CALC/MET	9319621	N/A	2024/04/11	Automated Statchk

Bureau Veritas ID: YTX651
Sample ID: TCLP-01
Matrix: Soil

Collected: 2024/04/01
Shipped:
Received: 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	9325449	N/A	2024/04/10	Prgya Panchal
Fluoride by ISE in Leachates	ISE	9325460	2024/04/10	2024/04/10	Nachiketa Gohil
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	9325025	2024/04/10	2024/04/10	Thuy Linh Nguyen
Ignitability of a Sample	BAL	9336319	2024/04/16	2024/04/16	Muhammad Chhaidan
Nitrate& Nitrite as Nitrogen in Leachate	LACH	9325463	N/A	2024/04/10	Jinal Chavda
PAH Compounds in Leachate by GC/MS (SIM)	GC/MS	9326991	2024/04/11	2024/04/11	Margaret Kulczyk-Stanko
Polychlorinated Biphenyl in Leachate	GC/ECD	9327074	2024/04/11	2024/04/11	Svitlana Shaula
TCLP - % Solids	BAL	9322519	2024/04/09	2024/04/10	Jian (Ken) Wang
TCLP - Extraction Fluid		9325452	N/A	2024/04/10	Jian (Ken) Wang
TCLP - Initial and final pH	PH	9325453	N/A	2024/04/10	Jian (Ken) Wang
TCLP Zero Headspace Extraction		9322189	2024/04/09	2024/04/10	Abdul Rahman Mohammed
VOCs in ZHE Leachates	GC/MS	9325100	2024/04/10	2024/04/10	Noel Ramos

Bureau Veritas ID: YTX652
Sample ID: TCLP-02
Matrix: Soil

Collected: 2024/04/01
Shipped:
Received: 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	9325449	N/A	2024/04/10	Prgya Panchal
Fluoride by ISE in Leachates	ISE	9325460	2024/04/10	2024/04/10	Nachiketa Gohil
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	9325025	2024/04/10	2024/04/10	Thuy Linh Nguyen
Ignitability of a Sample	BAL	9336319	2024/04/16	2024/04/16	Muhammad Chhaidan
Nitrate& Nitrite as Nitrogen in Leachate	LACH	9325463	N/A	2024/04/10	Jinal Chavda
PAH Compounds in Leachate by GC/MS (SIM)	GC/MS	9326991	2024/04/11	2024/04/11	Margaret Kulczyk-Stanko
Polychlorinated Biphenyl in Leachate	GC/ECD	9327074	2024/04/11	2024/04/11	Svitlana Shaula
TCLP - % Solids	BAL	9322519	2024/04/09	2024/04/10	Jian (Ken) Wang
TCLP - Extraction Fluid		9325452	N/A	2024/04/10	Jian (Ken) Wang
TCLP - Initial and final pH	PH	9325453	N/A	2024/04/10	Jian (Ken) Wang
TCLP Zero Headspace Extraction		9322189	2024/04/09	2024/04/10	Abdul Rahman Mohammed
VOCs in ZHE Leachates	GC/MS	9325100	2024/04/10	2024/04/10	Noel Ramos

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your P.O. #: P103113CA001
Sampler Initials: LM

TEST SUMMARY

Bureau Veritas ID: YTX652 Dup
Sample ID: TCLP-02
Matrix: Soil

Collected: 2024/04/01
Shipped:
Received: 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	9325449	N/A	2024/04/10	Prgya Panchal
Fluoride by ISE in Leachates	ISE	9325460	2024/04/10	2024/04/10	Nachiketa Gohil
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	9325025	2024/04/10	2024/04/10	Thuy Linh Nguyen
Nitrate& Nitrite as Nitrogen in Leachate	LACH	9325463	N/A	2024/04/10	Jinal Chavda
PAH Compounds in Leachate by GC/MS (SIM)	GC/MS	9326991	2024/04/11	2024/04/11	Margaret Kulczyk-Stanko
Polychlorinated Biphenyl in Leachate	GC/ECD	9327074	2024/04/11	2024/04/11	Svitlana Shaula

Bureau Veritas ID: YTX653
Sample ID: BH/MW2-24-15-16.5
Matrix: Soil

Collected: 2024/04/01
Shipped:
Received: 2024/04/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9319992	N/A	2024/04/12	Automated Statchk
Conductivity	AT	9324588	2024/04/10	2024/04/10	Gurparteek KAUR
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	9320900	N/A	2024/04/09	Georgeta Rusu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9321709	2024/04/09	2024/04/10	Jeevaraj Jeevaratrnam
Moisture	BAL	9321160	N/A	2024/04/08	Muhammad Chhaidan
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9321707	2024/04/09	2024/04/09	Lingyun Feng
Sodium Adsorption Ratio (SAR)	CALC/MET	9319621	N/A	2024/04/11	Automated Statchk

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.7°C
Package 2	3.7°C

Revised Report (2024/05/29): Additional parameter result has been included in the report for sample YTX634 as per request from R. Rodricks.

F2-F4 Analysis:The reported hydrocarbon resemblance was obtained by visual comparison of the sample chromatogram with a library of reference product chromatograms. Since variables such as multiple products, the degree and type of weathering and the presence of non petrogenic hydrocarbons cannot be duplicated in reference spectra, the resemblance information must be regarded as qualitative and as such, BV can assume no liability for any conclusions drawn from these data.

Sample YTX651 [TCLP-01] : NF/NI = Non-flammable and Non-ignitable

Sample YTX652 [TCLP-02] : NF/NI = Non-flammable and Non-ignitable

Sample YTX653 [BH/MW2-24-15-16.5] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS	% Recovery	QC Limits
9320900	1,4-Difluorobenzene	2024/04/08	105	60 - 140	99	60 - 140	100	%						
9320900	4-Bromofluorobenzene	2024/04/08	95	60 - 140	98	60 - 140	95	%						
9320900	D10-o-Xylene	2024/04/08	102	60 - 140	103	60 - 140	94	%						
9320900	D4-1,2-Dichloroethane	2024/04/08	97	60 - 140	105	60 - 140	103	%						
9321707	D10-Anthracene	2024/04/09	112	50 - 130	117	50 - 130	120	%						
9321707	D14-Terphenyl (FS)	2024/04/09	120	50 - 130	127	50 - 130	129	%						
9321707	D8-Acenaphthylene	2024/04/09	99	50 - 130	104	50 - 130	106	%						
9321709	o-Terphenyl	2024/04/09	102 (2)	60 - 130	91	60 - 130	97	%						
9324921	4-Bromofluorobenzene	2024/04/11	96	60 - 140	100	60 - 140	102	%						
9324921	D10-o-Xylene	2024/04/11	116	60 - 130	107	60 - 130	81	%						
9324921	D4-1,2-Dichloroethane	2024/04/11	79	60 - 140	85	60 - 140	85	%						
9324921	D8-Toluene	2024/04/11	109	60 - 140	106	60 - 140	94	%						
9325100	Leachable 4-Bromofluorobenzene	2024/04/10	104	70 - 130	106	70 - 130	105	%						
9325100	Leachable D4-1,2-Dichloroethane	2024/04/10	104	70 - 130	102	70 - 130	109	%						
9325100	Leachable D8-Toluene	2024/04/10	100	70 - 130	102	70 - 130	87	%						
9326991	Leachable D10-Anthracene	2024/04/11	113 (5)	50 - 130	112	50 - 130	115	%						
9326991	Leachable D14-Terphenyl (FS)	2024/04/11	109 (5)	50 - 130	109	50 - 130	112	%						
9326991	Leachable D8-Acenaphthylene	2024/04/11	110 (5)	50 - 130	110	50 - 130	111	%						
9327074	Leachable Decachlorobiphenyl	2024/04/11	97 (5)	30 - 130	93	30 - 130	95	%						
9320900	Benzene	2024/04/09	97	50 - 140	100	50 - 140	<0.020	ug/g	NC (1)	50				
9320900	Ethylbenzene	2024/04/09	107	50 - 140	102	50 - 140	<0.020	ug/g	NC (1)	50				
9320900	F1 (C6-C10) - BTEX	2024/04/09					<10	ug/g	NC (1)	30				
9320900	F1 (C6-C10)	2024/04/09	107	60 - 140	103	80 - 120	<10	ug/g	NC (1)	30				
9320900	o-Xylene	2024/04/09	102	50 - 140	100	50 - 140	<0.020	ug/g	NC (1)	50				
9320900	p+m-Xylene	2024/04/09	102	50 - 140	97	50 - 140	<0.040	ug/g	NC (1)	50				
9320900	Toluene	2024/04/09	96	50 - 140	95	50 - 140	<0.020	ug/g	NC (1)	50				
9320900	Total Xylenes	2024/04/09					<0.040	ug/g	NC (1)	50				
9321160	Moisture	2024/04/08							1.5 (1)	20				
9321168	Moisture	2024/04/08							1.9 (1)	20				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS	% Recovery	QC Limits
9321707	1-Methylnaphthalene	2024/04/09	93	50 - 130	103	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	2-Methylnaphthalene	2024/04/09	89	50 - 130	99	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Acenaphthene	2024/04/09	100	50 - 130	107	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Acenaphthylene	2024/04/09	99	50 - 130	104	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Anthracene	2024/04/09	112	50 - 130	119	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Benzo(a)anthracene	2024/04/09	103	50 - 130	108	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Benzo(a)pyrene	2024/04/09	102	50 - 130	109	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Benzo(b/j)fluoranthene	2024/04/09	94	50 - 130	107	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Benzo(g,h,i)perylene	2024/04/09	105	50 - 130	114	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Benzo(k)fluoranthene	2024/04/09	105	50 - 130	105	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Chrysene	2024/04/09	91	50 - 130	97	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Dibenzo(a,h)anthracene	2024/04/09	98	50 - 130	106	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Fluoranthene	2024/04/09	112	50 - 130	121	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Fluorene	2024/04/09	106	50 - 130	113	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Indeno(1,2,3-cd)pyrene	2024/04/09	106	50 - 130	115	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Naphthalene	2024/04/09	82	50 - 130	95	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Phenanthrene	2024/04/09	105	50 - 130	113	50 - 130	<0.0050	ug/g	NC (1)	40				
9321707	Pyrene	2024/04/09	111	50 - 130	118	50 - 130	<0.0050	ug/g	NC (1)	40				
9321709	F2 (C10-C16 Hydrocarbons)	2024/04/10	106 (2)	60 - 130	96	80 - 120	<10	ug/g	NC (3)	30				
9321709	F3 (C16-C34 Hydrocarbons)	2024/04/10	110 (2)	60 - 130	99	80 - 120	<50	ug/g	7.7 (3)	30				
9321709	F4 (C34-C50 Hydrocarbons)	2024/04/10	108 (2)	60 - 130	96	80 - 120	<50	ug/g	NC (3)	30				
9322084	Sieve - #200 (<0.075mm)	2024/04/10							0.26 (1)	20			55	53 - 58
9322084	Sieve - #200 (>0.075mm)	2024/04/10							0.022 (1)	20			45	42 - 47
9324588	Conductivity	2024/04/10			102	90 - 110	<0.002	mS/cm	2.0 (1)	10				
9324921	1,1,1,2-Tetrachloroethane	2024/04/11	91	60 - 140	101	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	1,1,1-Trichloroethane	2024/04/11	89	60 - 140	98	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	1,1,2,2-Tetrachloroethane	2024/04/11	84	60 - 140	97	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	1,1,2-Trichloroethane	2024/04/11	81	60 - 140	90	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	1,1-Dichloroethane	2024/04/11	88	60 - 140	96	60 - 130	<0.040	ug/g	NC (4)	50				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS	% Recovery	QC Limits
9324921	1,1-Dichloroethylene	2024/04/11	88	60 - 140	94	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	1,2-Dichlorobenzene	2024/04/11	94	60 - 140	101	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	1,2-Dichloroethane	2024/04/11	75	60 - 140	84	60 - 130	<0.049	ug/g	NC (4)	50				
9324921	1,2-Dichloropropane	2024/04/11	89	60 - 140	97	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	1,3-Dichlorobenzene	2024/04/11	101	60 - 140	106	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	1,4-Dichlorobenzene	2024/04/11	110	60 - 140	115	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	Acetone (2-Propanone)	2024/04/11	80	60 - 140	84	60 - 140	<0.49	ug/g	NC (4)	50				
9324921	Benzene	2024/04/11	88	60 - 140	93	60 - 130	<0.0060	ug/g	NC (4)	50				
9324921	Bromodichloromethane	2024/04/11	86	60 - 140	98	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	Bromoform	2024/04/11	71	60 - 140	84	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	Bromomethane	2024/04/11	92	60 - 140	94	60 - 140	<0.040	ug/g	NC (4)	50				
9324921	Carbon Tetrachloride	2024/04/11	86	60 - 140	94	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	Chlorobenzene	2024/04/11	101	60 - 140	109	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	Chloroform	2024/04/11	90	60 - 140	98	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	cis-1,2-Dichloroethylene	2024/04/11	95	60 - 140	102	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	cis-1,3-Dichloropropene	2024/04/11	89	60 - 140	98	60 - 130	<0.030	ug/g	NC (4)	50				
9324921	Dibromochloromethane	2024/04/11	82	60 - 140	93	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	Dichlorodifluoromethane (FREON 12)	2024/04/11	73	60 - 140	82	60 - 140	<0.040	ug/g	NC (4)	50				
9324921	Ethylbenzene	2024/04/11	95	60 - 140	100	60 - 130	<0.010	ug/g	NC (4)	50				
9324921	Ethylene Dibromide	2024/04/11	91	60 - 140	101	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	Hexane	2024/04/11	92	60 - 140	93	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	Methyl Ethyl Ketone (2-Butanone)	2024/04/11	76	60 - 140	83	60 - 140	<0.40	ug/g	NC (4)	50				
9324921	Methyl Isobutyl Ketone	2024/04/11	72	60 - 140	80	60 - 130	<0.40	ug/g	NC (4)	50				
9324921	Methyl t-butyl ether (MTBE)	2024/04/11	96	60 - 140	101	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	Methylene Chloride(Dichloromethane)	2024/04/11	93	60 - 140	99	60 - 130	<0.049	ug/g	NC (4)	50				
9324921	o-Xylene	2024/04/11	87	60 - 140	92	60 - 130	<0.020	ug/g	NC (4)	50				
9324921	p+m-Xylene	2024/04/11	103	60 - 140	108	60 - 130	<0.020	ug/g	NC (4)	50				
9324921	Styrene	2024/04/11	76	60 - 140	81	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	Tetrachloroethylene	2024/04/11	95	60 - 140	102	60 - 130	<0.040	ug/g	NC (4)	50				

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS	% Recovery	QC Limits
9324921	Toluene	2024/04/11	95	60 - 140	100	60 - 130	<0.020	ug/g	NC (4)	50				
9324921	Total Xylenes	2024/04/11					<0.020	ug/g	NC (4)	50				
9324921	trans-1,2-Dichloroethylene	2024/04/11	94	60 - 140	99	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	trans-1,3-Dichloropropene	2024/04/11	92	60 - 140	101	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	Trichloroethylene	2024/04/11	95	60 - 140	101	60 - 130	<0.010	ug/g	NC (4)	50				
9324921	Trichlorofluoromethane (FREON 11)	2024/04/11	88	60 - 140	94	60 - 130	<0.040	ug/g	NC (4)	50				
9324921	Vinyl Chloride	2024/04/11	85	60 - 140	93	60 - 130	<0.019	ug/g	NC (4)	50				
9325025	Leachable Arsenic (As)	2024/04/10	101 (5)	80 - 120	101	80 - 120	<0.2	mg/L	NC (6)	35	<0.2	mg/L		
9325025	Leachable Barium (Ba)	2024/04/10	NC (5)	80 - 120	100	80 - 120	<0.2	mg/L	2.5 (6)	35	<0.2	mg/L		
9325025	Leachable Boron (B)	2024/04/10	102 (5)	80 - 120	100	80 - 120	<0.1	mg/L	2.1 (6)	35	<0.1	mg/L		
9325025	Leachable Cadmium (Cd)	2024/04/10	102 (5)	80 - 120	98	80 - 120	<0.05	mg/L	NC (6)	35	<0.05	mg/L		
9325025	Leachable Chromium (Cr)	2024/04/10	99 (5)	80 - 120	98	80 - 120	<0.1	mg/L	NC (6)	35	<0.1	mg/L		
9325025	Leachable Lead (Pb)	2024/04/10	100 (5)	80 - 120	99	80 - 120	<0.1	mg/L	NC (6)	35	<0.1	mg/L		
9325025	Leachable Mercury (Hg)	2024/04/10	106 (5)	80 - 120	106	80 - 120	<0.001	mg/L	NC (6)	35	<0.001	mg/L		
9325025	Leachable Selenium (Se)	2024/04/10	101 (5)	80 - 120	100	80 - 120	<0.1	mg/L	NC (6)	35	<0.1	mg/L		
9325025	Leachable Silver (Ag)	2024/04/10	99 (5)	80 - 120	94	80 - 120	<0.01	mg/L	NC (6)	35	<0.01	mg/L		
9325025	Leachable Uranium (U)	2024/04/10	103 (5)	80 - 120	100	80 - 120	<0.01	mg/L	1.2 (6)	35	<0.01	mg/L		
9325100	Leachable 1,1-Dichloroethylene	2024/04/10	101	70 - 130	99	70 - 130	<0.020	mg/L	NC (1)	30				
9325100	Leachable 1,2-Dichlorobenzene	2024/04/10	93	70 - 130	91	70 - 130	<0.050	mg/L	NC (1)	30				
9325100	Leachable 1,2-Dichloroethane	2024/04/10	98	70 - 130	95	70 - 130	<0.050	mg/L	NC (1)	30				
9325100	Leachable 1,4-Dichlorobenzene	2024/04/10	104	70 - 130	102	70 - 130	<0.050	mg/L	NC (1)	30				
9325100	Leachable Benzene	2024/04/10	93	70 - 130	91	70 - 130	<0.020	mg/L	NC (1)	30				
9325100	Leachable Carbon Tetrachloride	2024/04/10	96	70 - 130	95	70 - 130	<0.020	mg/L	NC (1)	30				
9325100	Leachable Chlorobenzene	2024/04/10	99	70 - 130	97	70 - 130	<0.020	mg/L	NC (1)	30				
9325100	Leachable Chloroform	2024/04/10	104	70 - 130	102	70 - 130	<0.020	mg/L	NC (1)	30				
9325100	Leachable Methyl Ethyl Ketone (2-Butanone)	2024/04/10	121	60 - 140	118	60 - 140	<1.0	mg/L	NC (1)	30				
9325100	Leachable Methylene Chloride (Dichloromethane)	2024/04/10	103	70 - 130	100	70 - 130	<0.20	mg/L	NC (1)	30				

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS	% Recovery	QC Limits
9325100	Leachable Tetrachloroethylene	2024/04/10	96	70 - 130	96	70 - 130	<0.020	mg/L	NC (1)	30				
9325100	Leachable Trichloroethylene	2024/04/10	100	70 - 130	99	70 - 130	<0.020	mg/L	NC (1)	30				
9325100	Leachable Vinyl Chloride	2024/04/10	102	70 - 130	99	70 - 130	<0.020	mg/L	NC (1)	30				
9325449	Leachable WAD Cyanide (Free)	2024/04/10	94 (5)	80 - 120	105	80 - 120	<0.0020	mg/L	NC (6)	20	<0.010	mg/L		
9325460	Leachable Fluoride (F-)	2024/04/10	84 (5)	80 - 120	103	80 - 120	<0.10	mg/L	0.51 (6)	25	<0.10	mg/L		
9325463	Leachable Nitrate (N)	2024/04/10	93 (5)	80 - 120	95	80 - 120	<1.0	mg/L	NC (6)	20	<1.0	mg/L		
9325463	Leachable Nitrate + Nitrite (N)	2024/04/10	95 (5)	80 - 120	95	80 - 120	<1.0	mg/L	NC (6)	20	<1.0	mg/L		
9325463	Leachable Nitrite (N)	2024/04/10	102 (5)	80 - 120	95	80 - 120	<0.10	mg/L	NC (6)	20	<0.10	mg/L		
9326991	Leachable Benzo(a)pyrene	2024/04/11	100 (5)	50 - 130	104	50 - 130	<0.10	ug/L	NC (6)	40				
9327074	Leachable Total PCB	2024/04/11	96 (5)	30 - 130	90	30 - 130	<3.0	ug/L	NC (6)	40				
9327108	Available (CaCl2) pH	2024/04/11			100	97 - 103			0.57 (1)	N/A				

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Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank		QC Standard	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS	% Recovery	QC Limits
9327128	Available (CaCl2) pH	2024/04/11			100	97 - 103			0.43 (7)	N/A				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Leachate Blank: A blank matrix containing all reagents used in the leaching procedure. Used to determine any process contamination.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Duplicate Parent ID

(2) Matrix Spike Parent ID [YTX639-01]

(3) Duplicate Parent ID [YTX639-01]

(4) Duplicate Parent ID [YTX648-02]

(5) Matrix Spike Parent ID [YTX652-01]

(6) Duplicate Parent ID [YTX652-01]

(7) Duplicate Parent ID [YTX643-03]

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

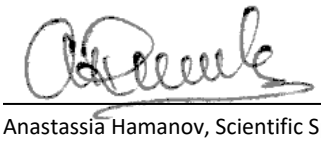
Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29

WSP Canada Inc.
Client Project #: CA0023482.2117
Site Location: 145 KING RD, BURLINGTON
Your P.O. #: P103113CA001
Sampler Initials: LM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Microbiology testing is conducted at 6660 Campobello Rd. Chemistry testing is conducted at 6740 Campobello Rd.

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

CAPayablesInvoice@usp.com ian.powell@usp.com

CHAIN OF CUSTODY RECORD

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: ~~#25044~~ WSP E & I Canada Limited	Company Name: ~~#25044~~ WSP E & I Canada Limited	Quotation #: ~~C26019~~	Bureau Veritas Job #:
Attention: ~~Jennifer Nicolas/AP~~ / Edwin Whitford	Attention: ~~Jennifer Nicolas~~ Edwin Whitford	P.O. #: ~~C026300270~~ P103113CA001	Bottle Order #: 956778
Address: ~~2020 Winston Park Drive Suite 600~~ 30 Vogell Rd Richmond Hill	Address: ~~2020 Winston Park Drive Suite 600~~ ~~Oakville ON L6H 6X7~~ edwin.whitford@usp.com	Project: ~~TPB189009-ENV001.2.1142.572000~~	COC #: C#956778-01-01
Tel: edwin.whitford@usp.com ~~(905) 829-5400~~ Fax: ~~(905) 568-1686~~	Tel: ~~(905) 568-2929~~ Fax:	Project Name: CA0023482.2117.	Project Manager: Gina Baybayan
Email: ~~jennifer.nicolas@woodplc.com; APInvoice.Canada@ws~~	Email: ~~jennifer.nicolas@woodplc.com; Wood.EQuIS@woodplc.~~	Site #: 1450 King Rd, Burlington	
		Sampled By: LM/KZ	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558. ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☒ For RSC	☐ MISA Municipality	
☐ Table ___	☐ PWQO ☐ Reg 406 Table	
	☐ Other	
Include Criteria on Certificate of Analysis (Y/N)?		

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Metals by ICPMS (Total Digestion Analysis by ICPMS)	Lab Filtered Metals by ICPMS	Chloride	Chromium (VI) in Water	Free (WAD) Cyanide	Mercury	O.Reg 153 VOCs by HS & F1-F4	Total Suspended Solids	PAH	Toronto Sanitary&Storm Sewer (100-2016)	# of Bottles	Comments
1		BH/MW4-24-0-2.5	1-Apr-2024	945	SW SOIL		X										3	Project manager to submit analyses request.
2		BH/MW4-24-7.5-10		1000													3	
3		BH/MW4-24-15-17.5		1045													3	
4		BH/MW4-24-20-22.5		1055													3	
5		BH/MW3-24-0-2		1150													3	
6		BH/MW3-24-2-5		1155													4	
7		BH/MW3-24-12.5-15		1215													3	
8		BH/MW3-24-18.5-20		1220													3	
9		BH/MW3-24-22.5-25		1230													3	
10		BH/MW2-24-0-2.5		1425													3	

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☐
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ ☐
Rush Confirmation Number: _____ *(call lab for #)*

NONT-2024-04-062

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
L Mawani Lmawani	24/04/01	1820	SUGAR SALVAN	2024/04/01	18:25	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	3/3/2 4/4/3	Present	✓	
		Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

ON ICE

Bureau Veritas Canada (2019) Inc.

PLEASE REFER TO PAGE #1

Bureau Veritas
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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#25844 WSP E & I Canada Limited	Company Name:	#12841 WSP E & I Canada Limited	Quotation #:	C26019	Bureau Veritas Job #:	Bottle Order #:
Attention:	Jennifer Nicolas/AP	Attention:	Jennifer Nicolas	P.O. #:	C026300270		956778
Address:	2020 Winston Park Drive Suite 600 Oakville ON L6H 6X7	Address:	2020 Winston Park Drive Suite 600 Oakville ON L6H 6X7	Project:	TPB189009.ENV001.2.1142.572000	COC #:	Project Manager:
Tel:	(905) 829-5400 Fax: (905) 568-1686	Tel:	(905) 568-2929 Fax:	Project Name:		C#956778-02-01	Gina Baybayan
Email:	jennifer.nicolas@woodplc.com; APInvoice.Canada@ws	Email:	jennifer.nicolas@woodplc.com; Wood.EQuIS@woodplc.	Site #:			
				Sampled By:			

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☒ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT:
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	3hr Metals Analysis by ICPMS HOLD	Lab Filtered Metals by ICPMS	Chloride	Chromium (VI) in Water	Free (WAD) Cyanide	Mercury	O.Reg 153 VOCs by HS & F1-F4	Total Suspended Solids	PAH	Toronto Sanitary&Storm Sewer (100-2016)	# of Bottles	Comments
1		BH/MW2-24-2.5-5	2 APR 2024	1435	SOIL		X										3	
2		BH/MW2-24-12.5-15		1440													4	Project manager
3		BH/MW2-24-20-21.5		1510													3	to submit
4		BH1-24-0-1.5		1550													3	analyses
5		BH1-24-1.5-5		1555													3	requested
6		BH1-24-10-11.5		1605													3	
7		BH1-24-20-23.5		1615													3	
8		DUP-1		—													3	
9		DUP-2		—													3	
10		TCLP-01	↓	1245	↓		↓										2	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
L marrone Lmarrone	24-04-01	1820	SEE PAGE 1						Present		
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

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6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD

ENV COC - 00014v5

Invoice Information	Invoice to (requires report) X	Report Information (if differs from invoice)		Project Information	
Company :	LSP	Company:	LSP	Quotation #:	
Contact Name:	Edwin Whitford / AP	Contact Name:	Edwin Whitford	P.O. #/ AFE#:	P103113CA001
Street Address:		Street Address:		Project #:	CA0023482.2117
City:	Prov: Postal Code:	City:	Prov: Postal Code:	Site #:	
Phone:		Phone:	edwin.whitford@lsp.	Site Location:	1450 King Rd, Burlington
Email:	edwin.whitford@lsp.com	Email:	ian.powell@lsp.com	Site Location Province:	ON
Copies:	CAPayables Invoice @ lsp.com	Copies:		Sampled By:	LM / KZ

LAB USE ONLY - PLACE STICKER HERE

Rush Confirmation #:

Regulatory Criteria

REG 153: ☐ Table 1 ☐ Table 2 ☐ Table 3 ☐ Table _____ ☐ Res/Park ☐ Ind/Comm ☐ Agri/other ☐ Med/Fine ☐ Coarse ☒ For RSC

OTHER: ☐ CCME ☐ Reg 558* ☐ *min 3 day TAT ☐ MISA ☐ PWQO ☐ Reg 406, Table: _____ ☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw Municipality _____ ☐ Other:

Include Criteria on Certificate of Analysis (check if yes): ☐

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Identification (Please print or Type)	Date Sampled YYYY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 BTEX/ F1	5 F2 - F4	6 VOCs	7 Reg 153 metals and inorganics	8 Reg 153 (CPMS metals	9 Reg 153 metals (Hg, Cr VI, ICPMS metals, HWS - B)	10	11	12	13	14	15	16	17	18	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE
1	TCLP-02	24	04	01	16	00	SOIL																					2	X
2	BH/MW2-24-15-16.5	"	"	"	14	55	"																					3	X
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Comments:
Project manager to provide analytes request.

Regular Turnaround Time (TAT)
☐ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply
☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YYYY MM DD

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

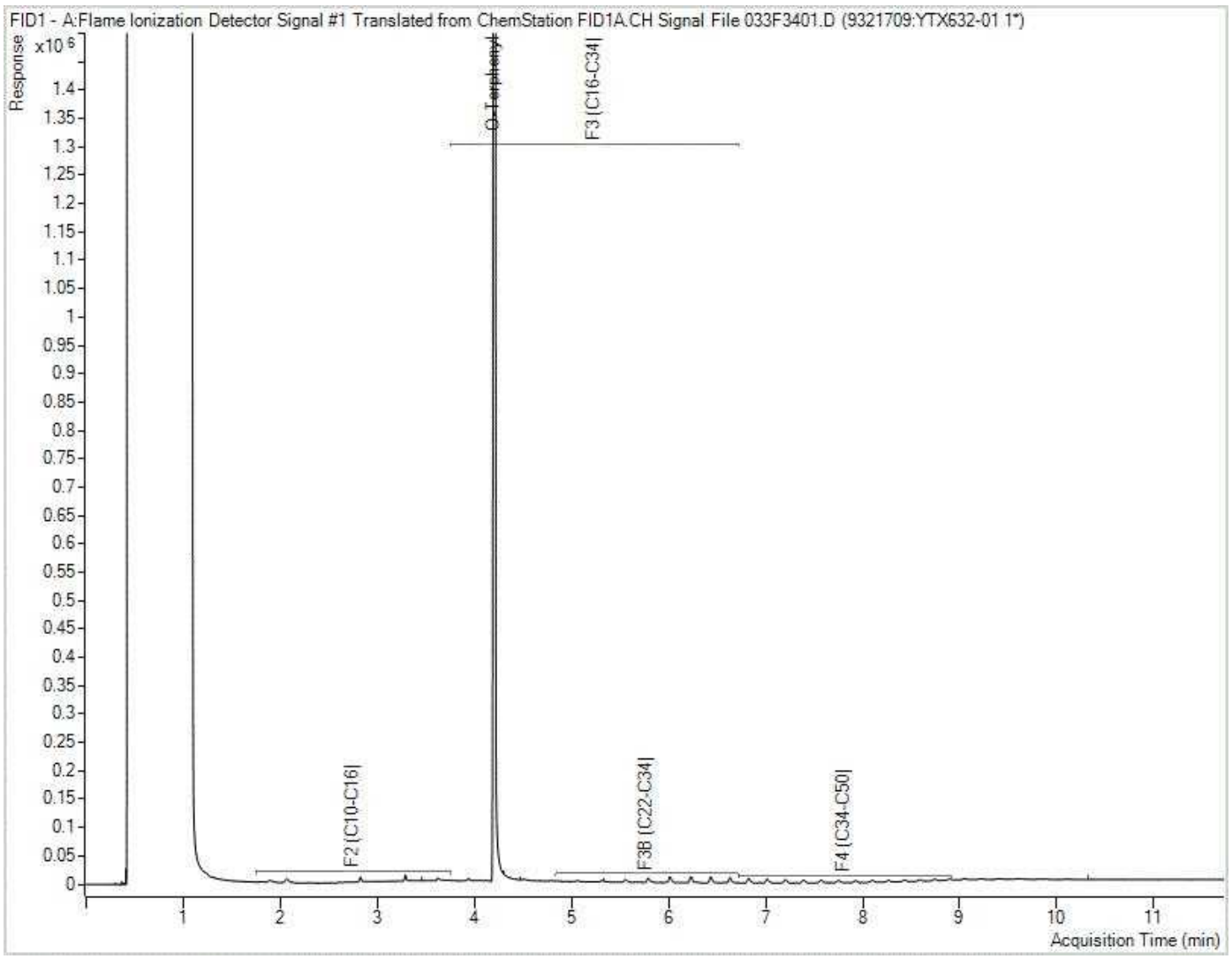
LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3	Temperature reading by:
Seal present							
Seal intact							
Cooling media present							

	Relinquished by: (Signature/ Print)	Date YYYY	MM	DD	Time HH	MM	Received by: (Signature/ Print)	Date YYYY	MM	DD	Time HH	MM	Special instructions
1	L Manore Lmanore	2024	04	01	18	20	SEE PAGE 1						
2													

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

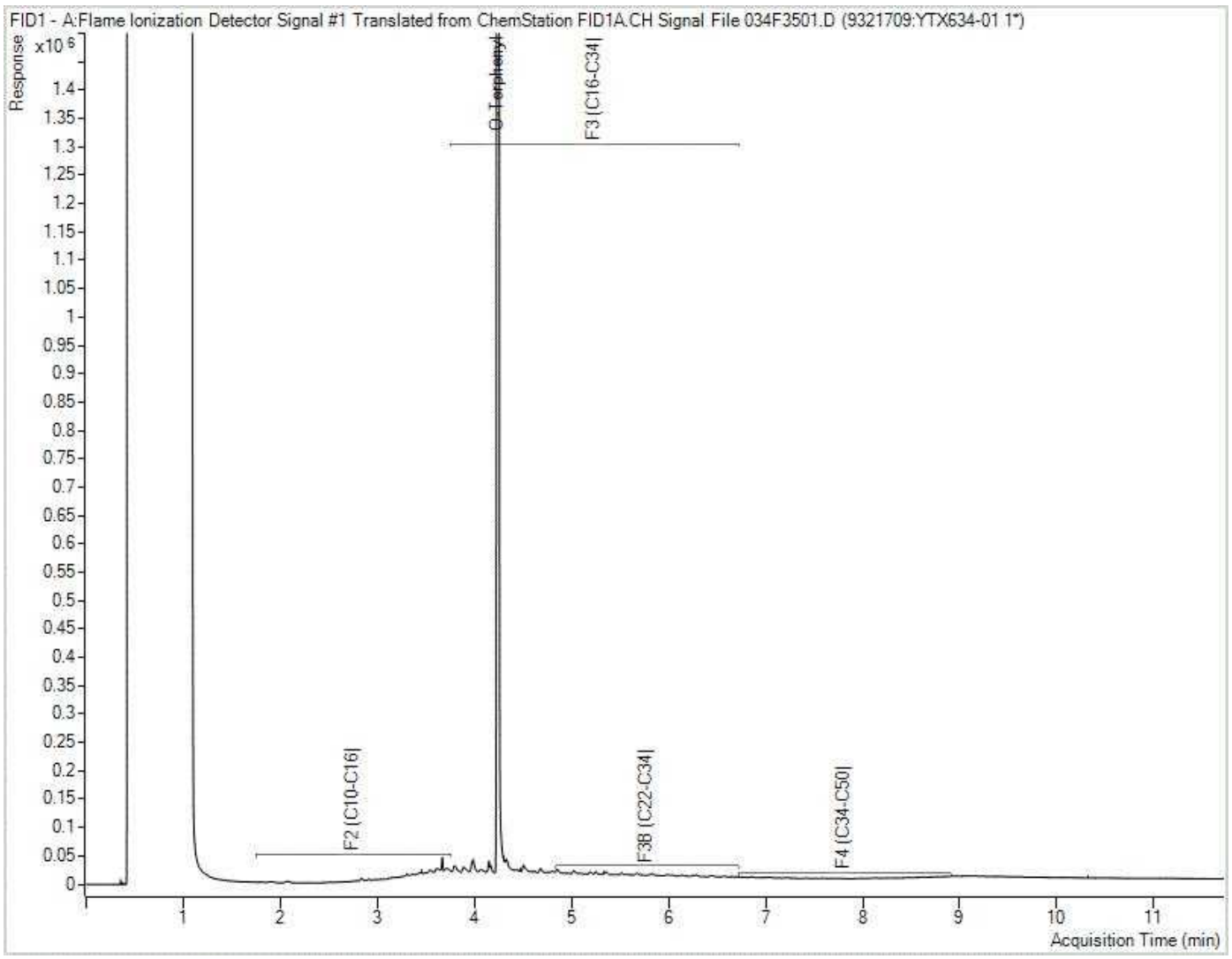


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29
Bureau Veritas Sample: YTX634

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 145 KING RD, BURLINGTON
Client ID: BH/MW4-24-15-17.5

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

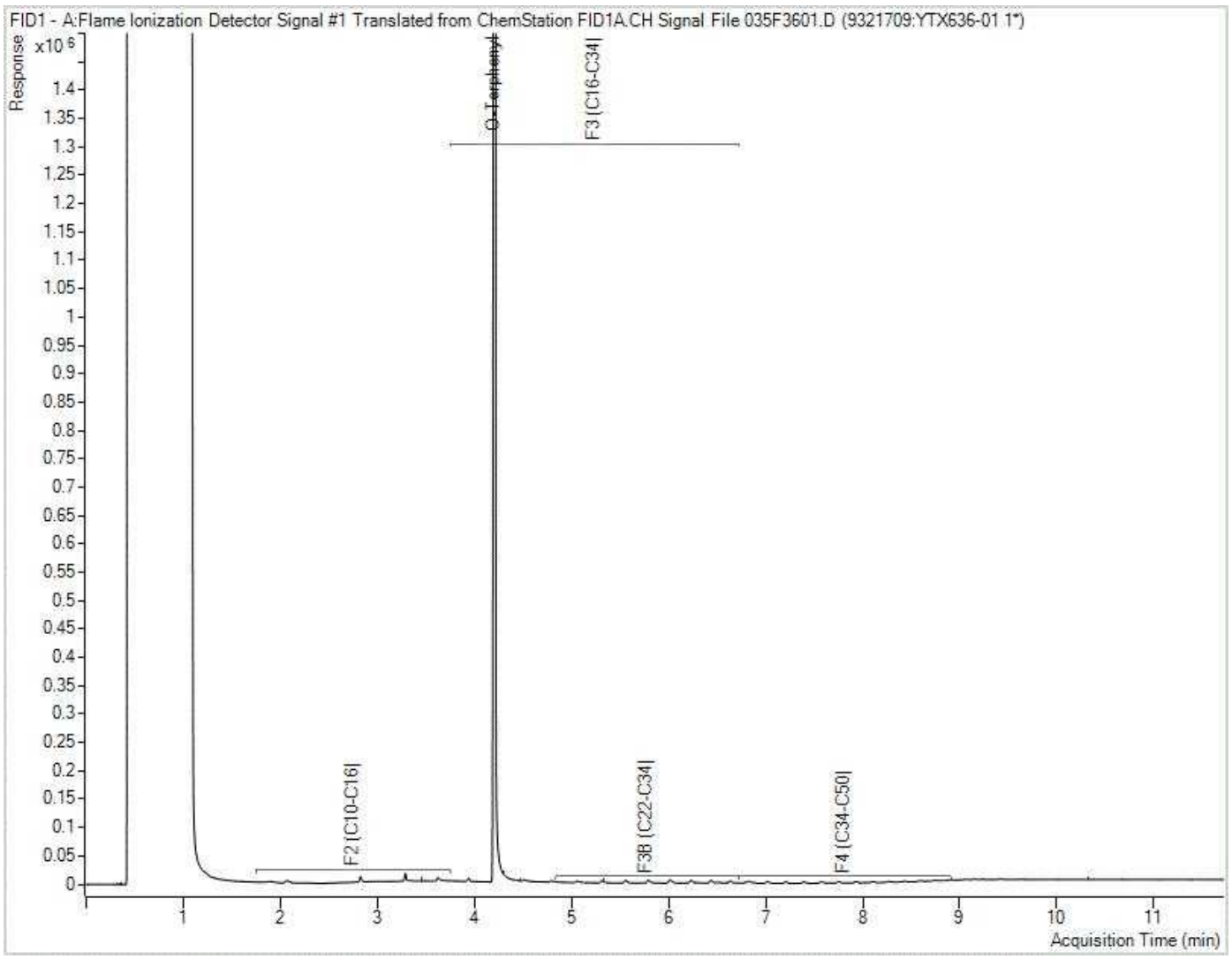


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29
Bureau Veritas Sample: YTX636

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 145 KING RD, BURLINGTON
Client ID: BH/MW3-24-0-2

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

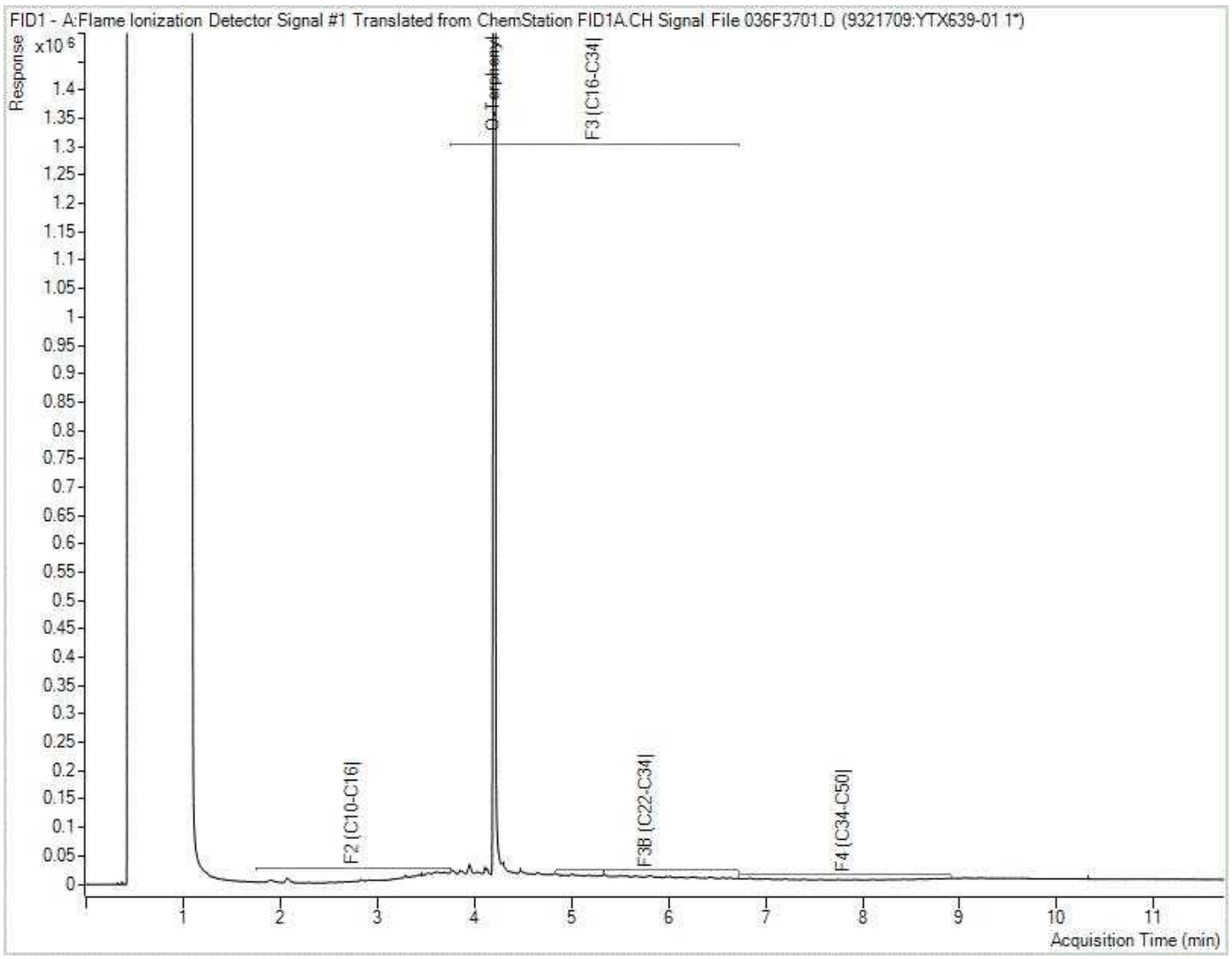


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29
Bureau Veritas Sample: YTX639

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 145 KING RD, BURLINGTON
Client ID: BH/MW3-24-18.5-20

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

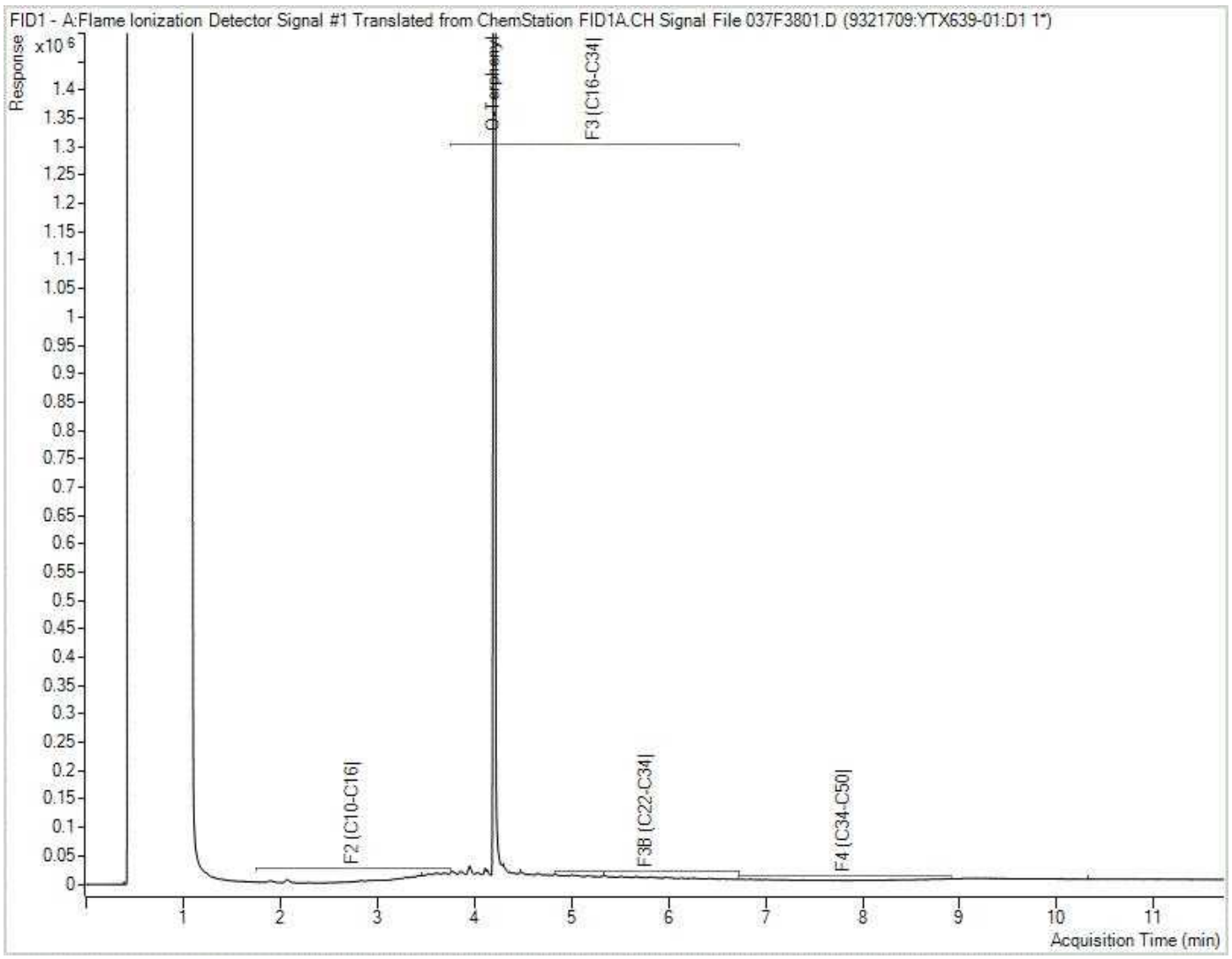


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29
Bureau Veritas Sample: YTX639 Lab-Dup

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 145 KING RD, BURLINGTON
Client ID: BH/MW3-24-18.5-20

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

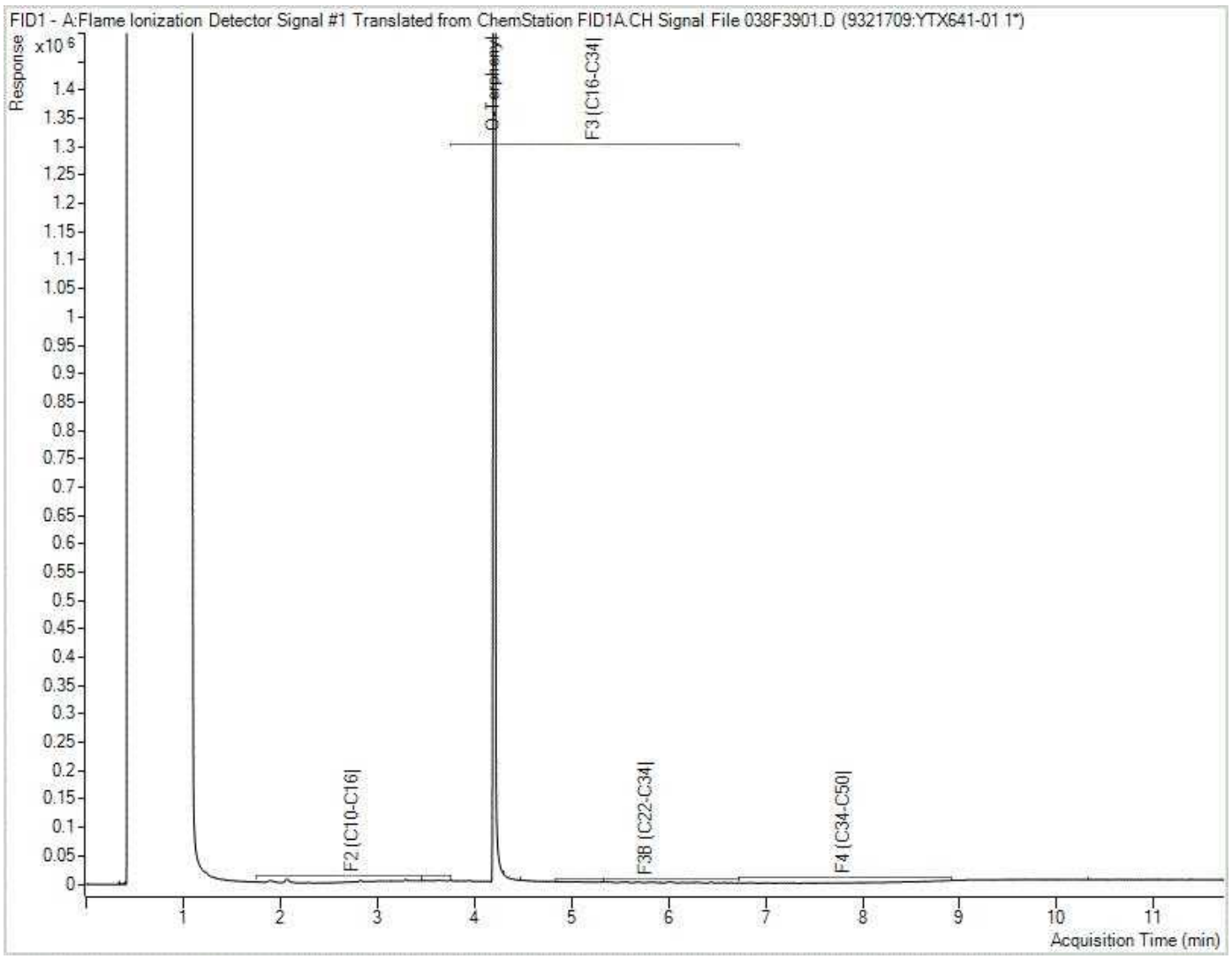


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29
Bureau Veritas Sample: YTX641

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 145 KING RD, BURLINGTON
Client ID: BH/MW2-24-0-2.5

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

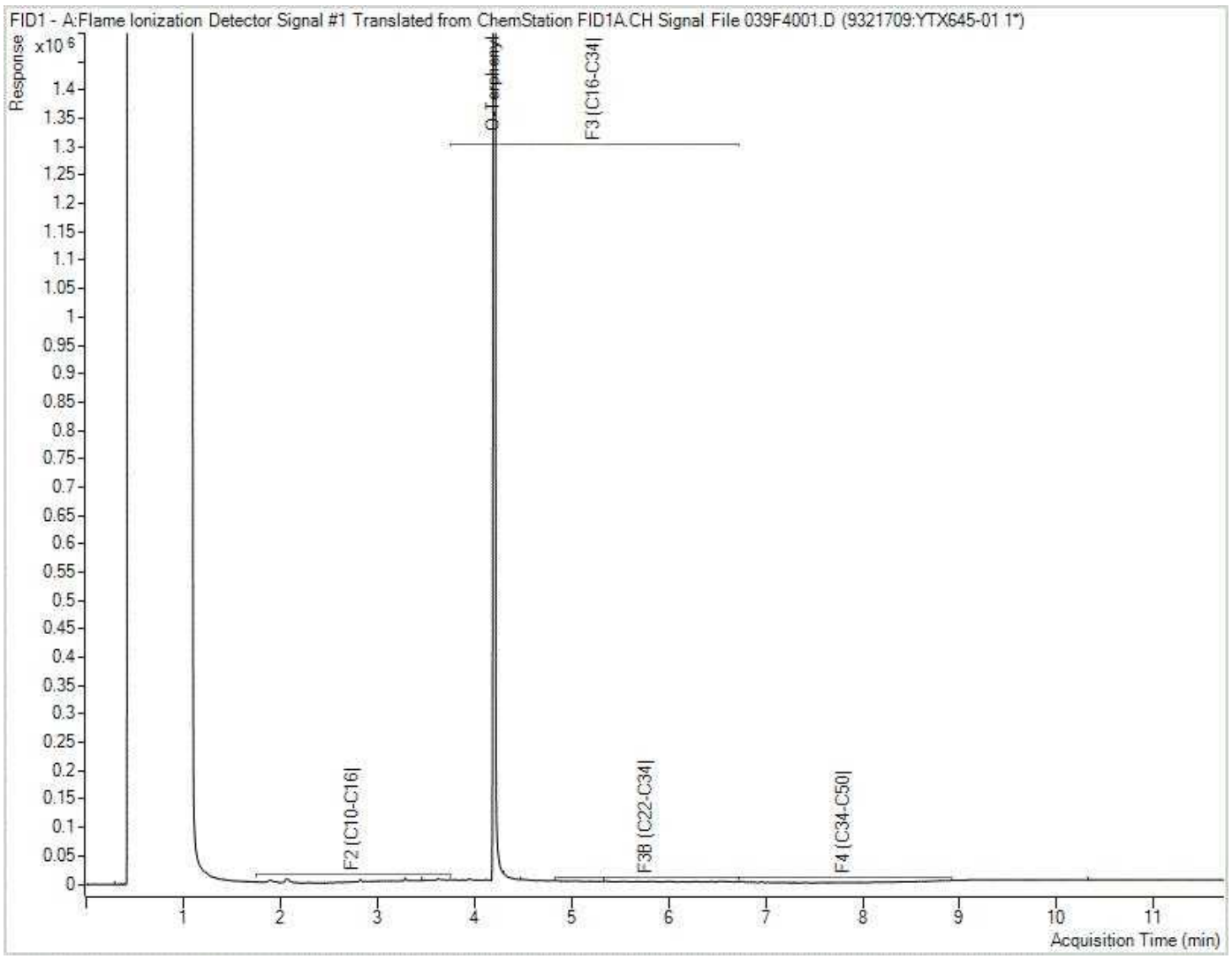


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29
Bureau Veritas Sample: YTX645

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 145 KING RD, BURLINGTON
Client ID: BH1-24-0-1.5

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

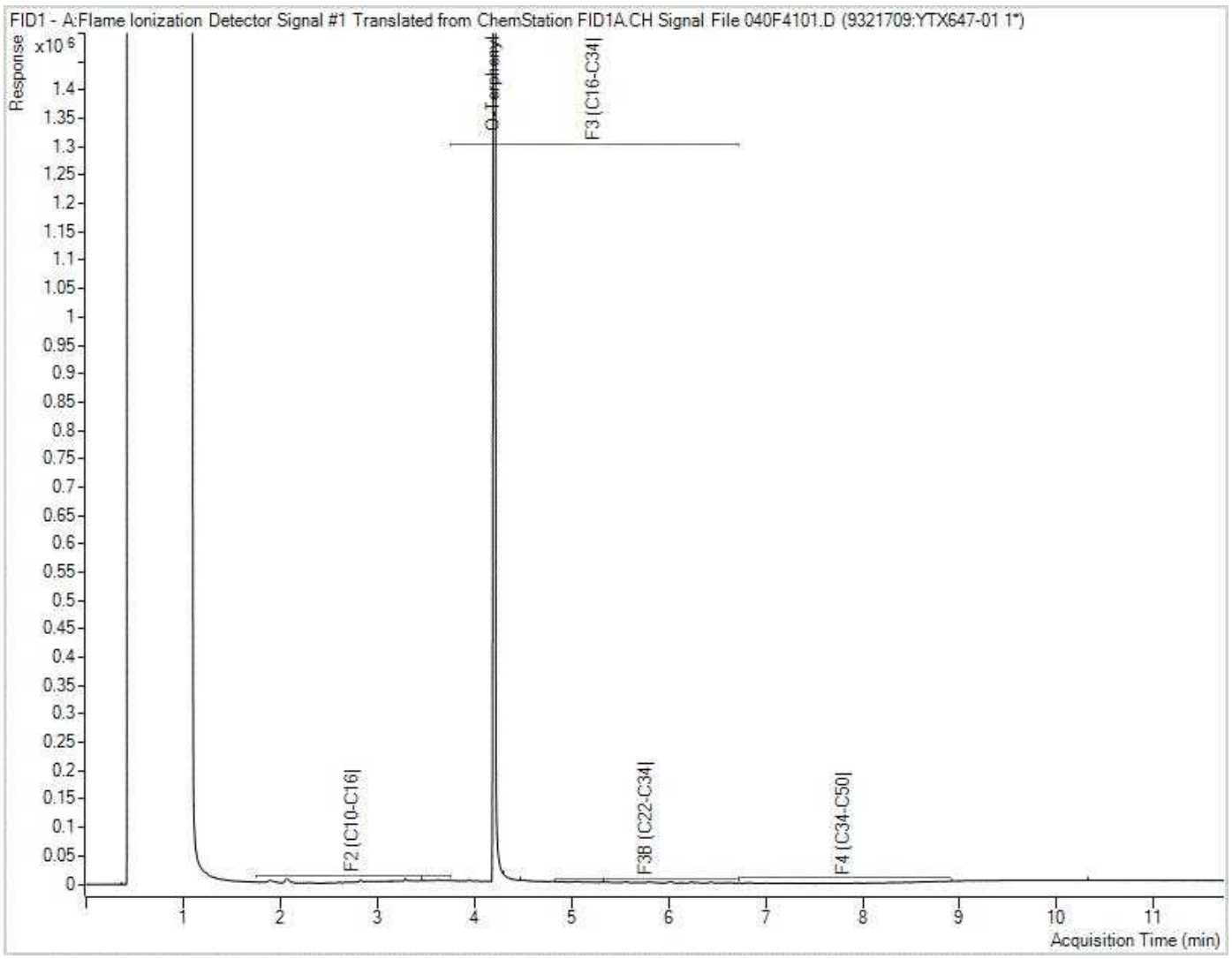


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29
Bureau Veritas Sample: YTX647

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 145 KING RD, BURLINGTON
Client ID: BH1-24-10-11.5

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

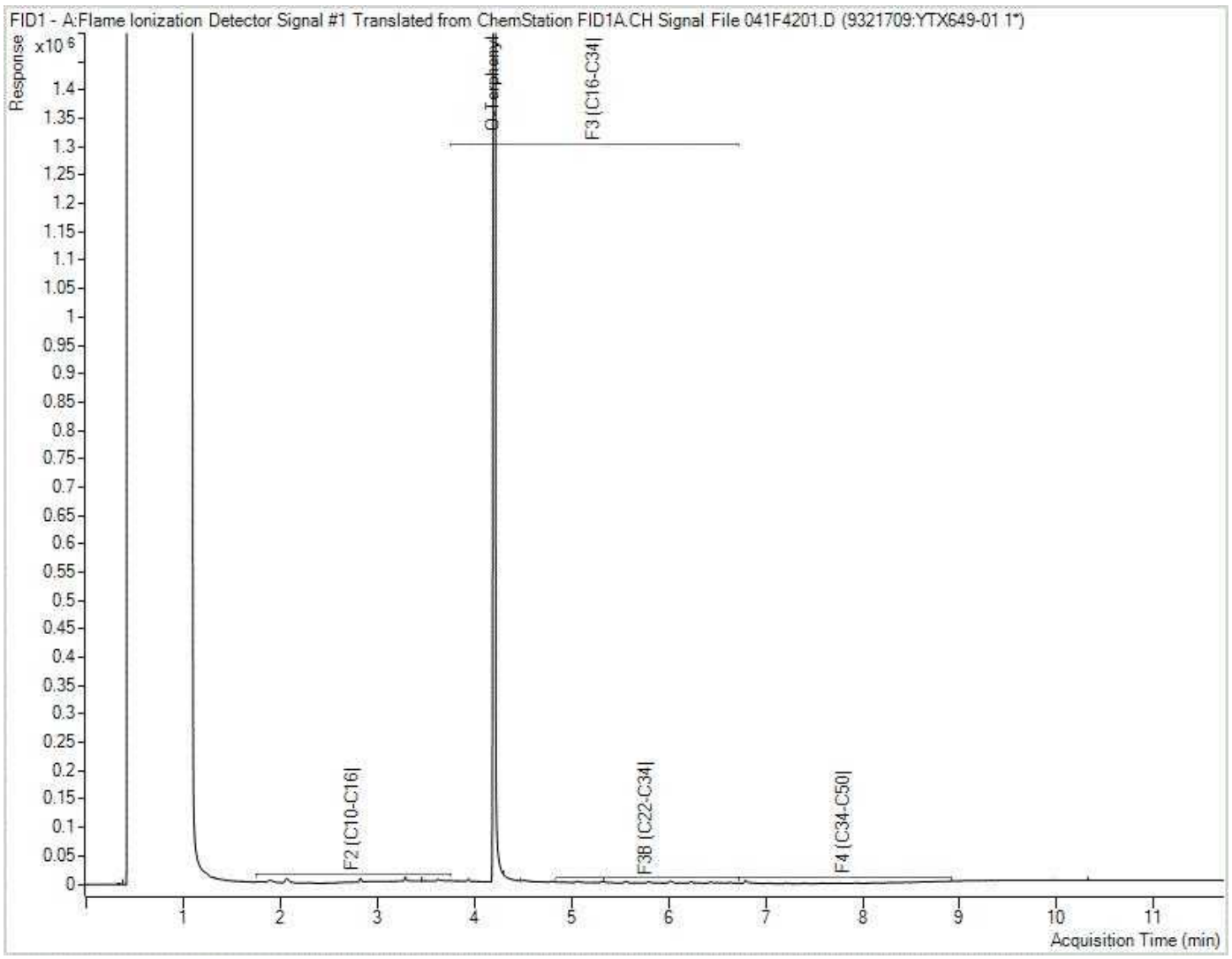


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29
Bureau Veritas Sample: YTX649

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 145 KING RD, BURLINGTON
Client ID: DUP-1

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram

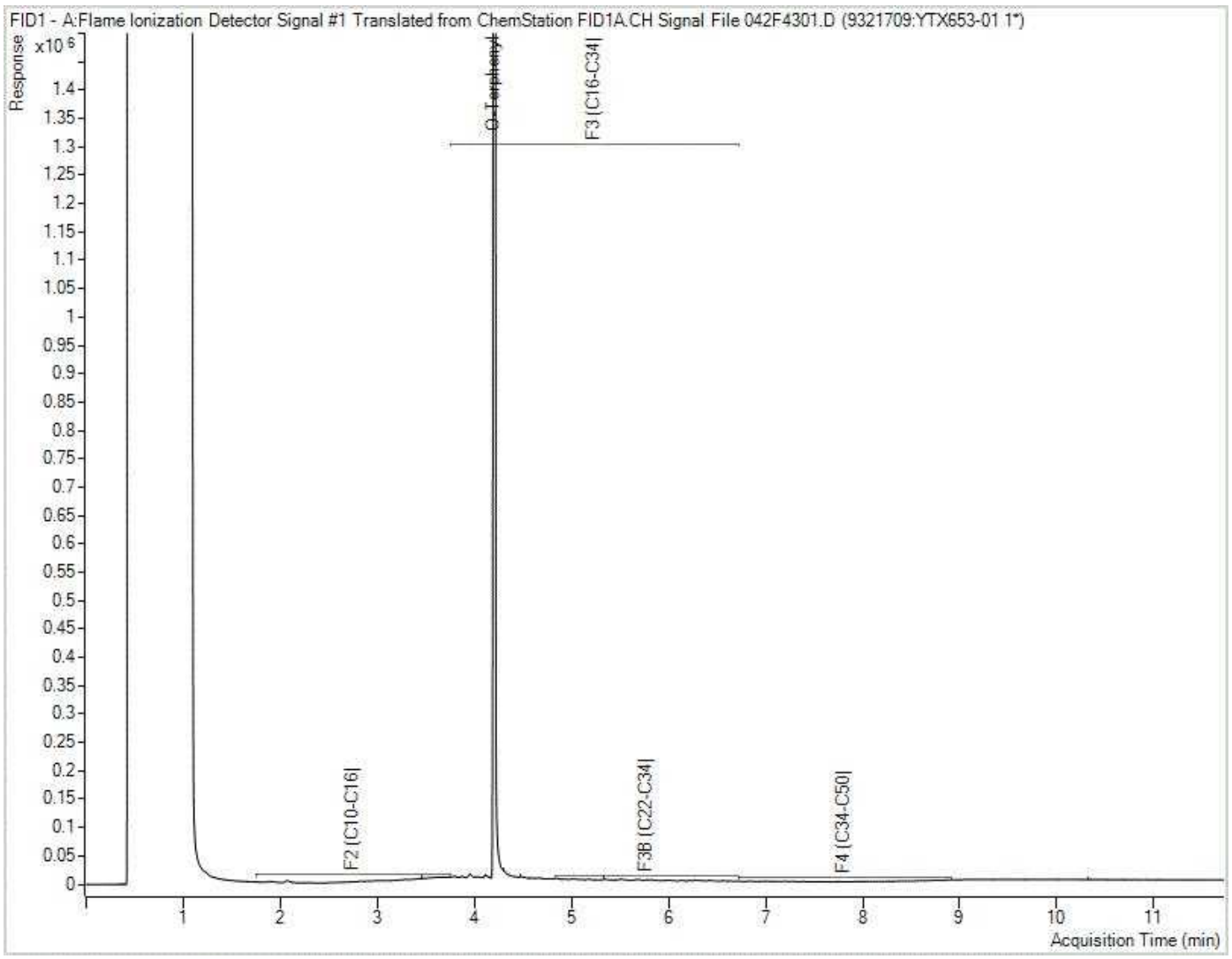


Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas Job #: C495702
Report Date: 2024/05/29
Bureau Veritas Sample: YTX653

WSP Canada Inc.
Client Project #: CA0023482.2117
Project name: 145 KING RD, BURLINGTON
Client ID: BH/MW2-24-15-16.5

Petroleum Hydrocarbons F2-F4 in Soil Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel (905) 817-5700 Toll-free 800-563-6266 Fax (905) 817-5777 www.bvna.com

CHAIN OF CUSTODY RECORD

Page 1 of 3

CAPayablesInvoice@wsp.com ian.powell@wsp.com

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: ~~#2584~~ WSP E & I Canada Limited	Company Name: ~~#2584~~ WSP E & I Canada Limited	Quotation #: ~~C26019~~	Bureau Veritas Job #:
Attention: ~~Jennifer Nicolas/AP~~ / Edwin Whitford	Attention: ~~Jennifer Nicolas~~ Edwin Whitford	P.O. #: ~~C026300270~~ P103113CA001	Bottle Order #: 956778
Address: ~~2020 Winston Park Drive Suite 600~~ 30 Vogell Rd	Address: ~~2020 Winston Park Drive Suite 600~~	Project: ~~TPB189009.ENV001.2.1142.572000~~	COC #:
~~Oakville ON L6H 6X7~~ Richmond Hill	~~Oakville ON L6H 6X7~~ edwin.whitford	Project Name: CA0023482.2117.	Project Manager:
Tel: edwin.whitford ~~(905) 829-5400~~ @wsp.com Fax: ~~(905) 568-1686~~	Tel: ~~(905) 568-2929~~ Fax: @wsp.com	Site #: 143 [illegible], Burlington	Gina Baybayan
Email: ~~jennifer.nicolas@woodplc.com~~; APInvoice-Canada@ws	Email: ~~jennifer.nicolas@woodplc.com; Wood.EQuIS@woodplc~~	Sampled By: LM	C#956778-01-01

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Turnaround Time (TAT) Required
Please provide advance notice for rush projects

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine; ☐ Table 2 ☐ Ind/Comm ☐ Coarse; ☐ Table 3 ☐ Agr/Other ☒ For RSC; ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw; ☐ Reg 558 ☐ Storm Sewer Bylaw; ☐ MISA Municipality ___; ☐ PWQO ☐ Reg 406 Table ___; ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Regular (Standard) TAT: ☐
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission) ☐
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

ANALYSIS REQUESTED (PLEASE B

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	HOLD	EC & SAR	PHC F1-F4	PAH	Grain Size Analysis	pH	TCLP M&I, Benzo(a)pyrene, VOC,	PAH	Toronto Sanitary&Storm Sewer (100-2016)	# of Bottles	Comments
1		BH/MW4-24-0.2.5	1-Apr-2024	945	SOIL			X	X	X		X				3	Project manager to submit analyses request.
2		BH/MW4-24-7.5-10		1000				X		X		X				3	
3		BH/MW4-24-15-17.5		1045					X							3	
4		BH/MW4-24-20-22.5		1055			X									3	
5		BH/MW3-24-0-2		1150				X	X	X						3	
6		BH/MW3-24-2-5		1155				X		X	X					4	
7		BH/MW3-24-12.5-15		1215			X									3	
8		BH/MW3-24-18.5-20		1220					X							3	
9		BH/MW3-24-22.5-25		1230			X									3	
10		BH/MW2-24-0-2.5		1475				X	X	X		X				3	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
L Mawani Thommee	24/04/01	1820							Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

PLEASE REFER TO PAGE #1

BUREAU VERITAS

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#25844 WSP E & I Canada Limited	Company Name:	#12841 WSP E & I Canada Limited	Quotation #:	C26019	Bureau Veritas Job #:	Bottle Order #:
Attention:	Jennifer Nicolas/AP	Attention:	Jennifer Nicolas	P.O. #:	C026300270		956778
Address:	2020 Winston Park Drive Suite 600 Oakville ON L6H 6X7	Address:	2020 Winston Park Drive Suite 600 Oakville ON L6H 6X7	Project:	TPB189009.ENV001.2.1142.572000	COC #:	Project Manager:
Tel:	(905) 829-5400 Fax: (905) 568-1686	Tel:	(905) 568-2929 Fax:	Project Name:		C#956778-02-01	Gina Baybayan
Email:	jennifer.nicolas@woodplc.com; APInvoice.Canada@ws	Email:	jennifer.nicolas@woodplc.com; Wood.EQuIS@woodplc.	Site #:			
				Sampled By:			

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regulation 153 (2011)
- [ ] Table 1 [ ] Res/Park [ ] Medium/Fine
- [ ] Table 2 [ ] Ind/Comm [ ] Coarse
- [ ] Table 3 [ ] Agri/Other [X] For RSC
- [ ] Table ___

Other Regulations
- [ ] CCME [ ] Sanitary Sewer Bylaw
- [ ] Reg 558 [ ] Storm Sewer Bylaw
- [ ] MISA Municipality ___
- [ ] PWQO [ ] Reg 406 Table ___
- [ ] Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Regular (Standard) TAT:
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

ANALYSIS REQUESTED (PLEASE

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	HOLD	EC & SAR	PHC F1-F4	PAH	Grain Size Analysis	pH	TCLP M&I, Benzo(a)pyrene, VOC, PCBs, Isotherm	VOCs	Toronto Sanitary&Storm Sewer (100-2016)	# of Bottles	Comments
1		BH/MW2-24-2.5-5	2 APR 2024	1435	SOIL		X									3	
2		BH/MW2-24-12.5-15		1440							X	X				4	
3		BH/MW2-24-20-21.5		1510			X									3	to submit
4		BH1-24-0-1.5		1550				X	X	X						3	analyses
5		BH1-24-1.5-5		1555			X									3	reques
6		BH1-24-10-11.5		1605				X	X	X						3	
7		BH1-24-20-23.5		1615			X							X		3	
8		DUP-1		/				X	X	X						3	
9		DUP-2		/			X									3	
10		TCLP-01		1245									X			2	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes	No
L marone Shannee	24-04-01	1820							Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/CHAIN-CUSTODY-FORMS-COCS.

SAMPLES MUST BE KEPT COOL (< 10° C.) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

www.BVNA.com

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266

CHAIN OF CUSTODY RECORD
ENV COC - 00014v5

Invoice Information	Invoice to (requires report) X	Report Information (if differs from invoice)		Project Information		LAB USE ONLY - PLACE STICKER HERE
Company:	WSP	Company:	WSP	Quotation #:		
Contact Name:	Edwin Whitfad / AP	Contact Name:	Edwin Whitfad	P.O. #/ AFE#:	P103113CA001	
Street Address:		Street Address:		Project #:	CA0023482.2117	
City:	Prov: Postal Code:	City:	Prov: Postal Code:	Site #:		
Phone:		Phone:	edwin.whitfad@wsp.com	Site Location:	1450 King Rd, Burlington	Rush Confirmation #:
Email:	edwin.whitfad@wsp.com	Email:	ian.powell@wsp.com	Site Location Province:	ON	
Copies:	CAPmailbox Invoice @ wsp.com	Copies:		Sampled By:	LM / KZ	

Regulatory Criteria

REG 153: ☐ Table 1 ☐ Table 2 ☐ Table 3 ☐ Table ____ ☐ Res/Park ☐ Ind/Comm ☐ Agri/other ☐ Med/Fine ☐ Coarse ☒ For RSC

OTHER: ☐ CCME ☐ Reg 558* ☐ *min 3 day TAT ☐ MISA ☐ PWQO ☐ Reg 406, Table: ____ ☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw ☐ Municipality ____ ☐ Other:

Include Criteria on Certificate of Analysis (check if yes): ☐

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Identification (Please print or Type)	Date Sampled YYYY	MM	DD	Time (24hr) HH	MM	Matrix	1 EC & SAR	2	3 PHC F1-F4	4	5 PAH	6	7 Grain Size Analysis	8	9 pH (WS - B)	10 TCLP M&I, Benzo(a)pyrene, VOC, PCBs, Ignitab.	14	15	16	17	18	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE
1	TCLP-02	24	04	01	16	00	SOIL										X								2	
2	BH/MW2-24-15-16.5	"	"	"	14	55	"	X		X		X													3	
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

Regular Turnaround Time (TAT)
☐ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply
☐ Same Day ☐ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YYYY MM DD

Comments: Project manager to provide analytes request

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3	Temperature reading by:
Seal present							
Seal intact							
Cooling media present							

	Relinquished by: (Signature/ Print)	Date YYYY	MM	DD	Time HH	MM	Received by: (Signature/ Print)	Date YYYY	MM	DD	Time HH	MM	Special Instructions
1	L. Monroe Lmonroe	2024	04	01	18	20	1						
2							2						



wsp.com