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Phase Two Environmental Site Assessment
101 Masonry Court
City of Burlington, Ontario

Prepared for:

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EXECUTIVE SUMMARY

Landtek Limited is pleased to submit the Phase Two Environmental Site Assessment (ESA) report for the property located at 101 Masonry Court in the City of Burlington, Ontario. The work was initiated following authorization to proceed from Mr. Tariq Adi of Adi Development Group Inc. in May, 2014. The location of the Site (also referred to as the Phase Two Property) is presented in Figure 1.

A Phase One ESA for the Site was previously completed by Landtek Limited[1] in May, 2014 updated in September 2015. The primary purpose of the Phase One ESA was to evaluate the existing environmental conditions at the Site with respect to potential impacts on the subsurface soils and/or groundwater.

The Phase Two ESA was completed in general accordance with CSA Standard Z769-00 as well as current guidelines described in Ontario Regulation 153/04 as amended by 511/09. The current soil and groundwater quality standards and regulations came into effect in 2011 (Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act, April 15, 2011). The Phase Two ESA covers physical sampling of soils and groundwater and chemical analyses where potential risks of environmental liability are evident from previous findings or past use of the property.

Summary of Findings

Based on the results of the subsurface investigation conducted at the Site, the following findings are presented:

1. The Phase Two ESA consisted of the advancement of a total of fifteen boreholes, thirteen of which were completed as monitoring wells, and the excavation of forty-one test pits.

2. The general stratigraphy of the Site consisted of variable sand, gravel and silt fill overlying sand, silty sand, silt and till.

3. The measured groundwater elevations within the shallow sand layer and upper silty clay/till layer vary from approximately 99.4 m to 102.1 masl. Based on the relative groundwater elevations, the groundwater below the Site was assessed to flow in a north/northwest direction. Regional groundwater flow is expected to generally flow to the south towards and Lake Ontario.

4. A total of thirty-three (33) soil samples were analyzed for metals and inorganics, eighteen (18) samples for VOCs, seven (7) samples for PCBs, seventeen (17) samples for PHC+BTEX, three (3) samples for organochlorine pesticides, and forty-one (41) samples for PAHs, were analyzed as part of the Phase Two ESA. In addition, fourteen (14) QA/QC field duplicate samples were also analyzed for parameters.

5. A total of eighteen (18) groundwater samples were analyzed for metals and inorganics, fourteen (14) samples for VOCs, ten (10) samples for PCBs, fourteen (14) samples for PHC+BTEX and ten (10) samples for PAH were analyzed as part of the delineation and remediation activities of the Phase Two ESA. In addition, six (6) QA/QC field duplicate samples and three (3) trip blank samples were also analyzed.

6. Soil exceedances for petroleum hydrocarbons, PAHs and metals were encountered during the Phase Two ESA. No soil exceedances were identified for inorganic parameters, PCBs, OC pesticides, or VOCs during the Phase Two ESA.

7. No groundwater exceedances were identified for metals, PHCs, PCBs, PAHs, or VOCs during the Phase Two ESA.

8. Remedial Activities

- A total of 20,865 tonnes (13,040 m^3) of soil impacted with various metals, inorganic

parameters, and PHC+BTEX parameters was excavated and transported off-Site to the Walker Industries Niagara Road 12 Landfill in West Lincoln, Ontario.

- A total of eleven (10) soil samples were analyzed for metals and inorganics, VOCs and for PHC+BTEX. Thirty-four (38) samples for PAHs, were analyzed as part of the Phase Two ESA. In addition, fourteen (14) QA/QC field duplicate samples were also analyzed for parameters.

- The concentrations of the confirmatory floor and wall soil samples for all parameters analyzed meet the applicable MOECC Table 3 Standards.

- A total of 17,187 m^3 (30,900 tonnes) of soil material was also imported to the Site and placed as engineered fill in the remedial excavation at the Site. The material sourced from a native silty clay deposit and appeared to be free of deleterious materials and odours.

The Phase Two ESA has been completed in accordance with Regulation 153/04 (as amended) and was used to support the filing of a Record of Site Condition (RSC) No. 222207. This report should be read in conjunction with the Phase One ESA completed by Landtek Limited.

It is the responsibility of the property owner to ensure that the groundwater monitoring wells are maintained in a safe and secure condition, and to arrange for proper decommissioning and abandonment in accordance with Regulation 903 of the Ontario Water Resources Act.

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1.0 INTRODUCTION

Landtek Limited is pleased to submit the Phase Two Environmental Site Assessment (ESA) report for the property located at 101 Masonry Court in the City of Burlington, Ontario. The work was initiated following authorization to proceed from Mr. Tariq Adi of Adi Development Group Inc. in May, 2014. The location of the Site (also referred to as the Phase Two Property) is presented in Figure 1.

A 'Draft' Phase One ESA for the Site was previously completed by Landtek Limited[1] in May, 2014. The Phase One ESA was finalized in September 2016.The primary purpose of the Phase One ESA was to evaluate the existing environmental conditions at the Site with respect to potential impacts on the subsurface soils and/or groundwater.

The current soil and groundwater quality standards and regulations came into effect in 2011 (Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act, April 15, 2011).

1.1 Site Description

The Phase Two Property is identified as 101 Masonry Court in the City of Burlington, Ontario. The Site is roughly rectangular in shape and covers an area of about 5.1 hectares (12.6 acres). The Site is located on the north side of Masonry Court and is bound by vacant land and GO Transit railway lines to the north, vacant industrial land to the east, and Waterdown Road to the west in the City of Burlington, Ontario. Figure 1 shows the general location of the Site.

Table 1: Phase Two Property Information

Description	Details
Legal Description	Parts 1 & 6, Concession 1 as in 20R17228; Burlington/East Flamborough Township
PIN	07114-0192 (LT)
Municipal Address	101 Masonry Court, Burlington, Ontario
Zoning	Commercial/Residential (Mixed Use Corridor – MXC-26)
Assessment Roll Number	24 02 010 106 01111
Property Owner Information	Adi Development Group Inc. 4190 South Service Road, Suite 200 Burlington, ON L7L 4X5 Contact: Mr. Tariq Adi Tel: 905-592-1140

1.2 Current and Proposed Future Uses

The Site is currently vacant but was historically in industrial use as a concrete brick manufacturing plant. The Site operated as a concrete brick manufacturing plant (J. Cooke Concrete Blocks Limited, Cooke Concrete Ltd., TCG Properties Limited, and Blue Circle Canada Inc.) from 1956 to 2001. From 2001 to 2012 the Site was owned by 2004181 Ontario Inc. and from 2002 to 2014 it was owned by P&L Livestock Limited. The property is currently being redeveloped for proposed residential land use.

1.3 Applicable Site Condition Standard

Based on the subsurface conditions and available site information, classification of the Site has been based on the following site characteristics in accordance with the current Regulation 153/04 (as amended):

- Site investigation has confirmed that more than 2 m of overburden is present above the bedrock; therefore, the site is not a shallow soil condition.
- The Site is not considered an environmentally sensitive site since: a) the Site is not or does not include part of an area of natural significance; b) the pH of the soils is within an acceptable range (between 5 and 9 for surface soils and between 5 and 11 for subsurface soils); and c) the property does not include or is not adjacent to a body of water and is not located within 30 m of any bodies of water.
- Potable water in the area is supplied by the municipal drinking water distribution system; therefore groundwater is not considered to be the source for drinking water.
- The land is not used for agricultural or 'other use' as defined by the applicable regulations.
- Coarse to medium sand with some gravel is present across the site.
- The proposed use of the Site is for residential uses.

Based on the above information, the analytical results for soil and ground water samples have been compared to Table 3 of the Ministry of Environment and Climate Change (MOE) *Soil, Groundwater and Sediment Standards for use under Part XV.1 of the Environmental Protection Act, April 15, 2011* for Residential/Parkland/Institutional (R/P/I) use and coarse textured soils in a non-potable groundwater setting.

As a requirement of Ontario Regulation 153/04 (as amended), written notification was provided to the Region of Halton to apply non-potable (Table 3) MOE Standards for the site assessment as well as for the purposes of filing a Record of Site Condition for the subject site. A response from the City dated February 29, 2016 confirming the notification was received is provided in **Appendix F**.

2.0 BACKGROUND INFORMATION

2.1 Physical Setting

The Phase Two Property is located in a developed area of the City of Burlington. The elevation of the site is approximately 90 m above sea level, and 16 m above the level of Lake Ontario. The majority of the south and west portions of the Site are relatively flat, with a gentle slope to the north toward Lake Ontario, numerous stockpiles of fill occupy the east portion of the site. The land in the area generally slopes to the north, towards Lake Ontario.

Surface runoff is directed by overland flow towards a drainage feature on the western portion of the Site. A surface drainage feature runs parallel to Masonry Court and then turns north along the fence on the central portion of the Site and drains to the swale along the CN Railway tracks. Local ground water is expected to flow in a northwest direction and regional ground water flow is expected to be in a southern direction, towards Lake Ontario. Locally, groundwater depth and flow direction may be influenced by underground structures such as basements, service trenches, etc.

Based on published geological information for the area the native subsurface soil conditions in the area of the Site consist of coarse-textured glaciolacustrine deposits of sand and gravel with minor silt and clay. The bedrock is found underlying the overburden at depths of between 1.0 m to 7.0 m[2]. The bedrock formation consists of shale of the Queenston Formation [3].

Geologic and Ontario Base Map data indicate that the regional groundwater flow is inferred to be south towards Lake Ontario. Locally and specific to the site, the grades slope down to the northwest towards a drainage swale and eventually to a tributary of Grindstone Creek. Nearby service/utility trenches and fill strata may distort the direction of groundwater movement in the immediate area.

Regional topography from Ontario Base Map (OBM) data was reviewed indicating the following:

- The Site contained a building.
- The elevation of the Site is approximately 103 meters above sea level (masl).
- Topography in the vicinity of the Site generally slopes northwest toward Grindstone Creek.
- The majority of the Study Area appears to be in commercial/residential use.

2.2 Past Investigations

It was confirmed through interviews with the current owner of the Site that previous environmental work had been completed on the Site. The environmental reports were not able to be released to any third parties.

A Phase One ESA was completed by Landtek Limited:

"*Phase One Environmental Site Assessment, 101 Masonry Court, City of Burlington, Ontario*" prepared by Landtek Limited, File No. 14090; dated September 2015.

Pertinent information from the Phase One ESA is summarized in the Phase One Conceptual Site model presented in **section 3.3**.

3.0 SCOPE OF THE INVESTIGATION

The Phase Two Environmental Site Assessment commenced within 18 months of the completion of the Phase One ESA and the Qualified Person (QP_{ESA}) has confirmed that there have been no significant changes in material or additional Areas of Potential Environmental Concern (APEC) identified. The Phase Two ESA applies to the entire property as stated in the Site description.

3.1 Overview of Site Investigation

Landtek conducted the following subsurface investigative work at the Site as part of the Phase Two ESA activities:

- Testing of stockpiles of fill soil as follows:
  - Three (3) soil samples from stockpiled material.
- Advancement of fifteen (15) boreholes as follows:
  - Fourteen (14) boreholes to depths of between 5.0 m (16.4 ft) and 9.9 (32.5 ft) below ground surface.
  - One (1) borehole to a depth of 11.2 m (37 ft) below ground surface.
- Excavation of forty-one (41) test pits as follows:
  - Forty-one (41) test pits to depths of between 1.2 m (3.0 ft) and 2.7 m (8.0 ft).
- Submission of soil samples to AGAT Laboratories Ltd. for chemical analysis of the following parameters:
  - Thirty-three (33) samples for metals and inorganic parameters
  - Three (3) samples for organochlorine pesticides (OC pesticides)
  - Twenty (20) samples for volatile organic compounds (VOCs)
  - Twenty (20) samples for petroleum hydrocarbon fractions 1 to 4 (PHC F1-F4)
  - Forty-five (45) samples for polycyclic aromatic hydrocarbons (PAHs)
  - Eight (8) samples for polychlorinated biphenyls (PCBs)
- Installation of thirteen (13) groundwater monitoring wells.
  - Sampling of thirteen (13) monitoring wells installed by Landtek.
- Submission of groundwater samples to AGAT Laboratories Ltd. for chemical analysis of the following parameters:
  - Eighteen (18) samples for metals and inorganic parameters
  - Fourteen (14) samples for VOCs
  - Fourteen (14) samples for PHC F1-F4 + BTEX
  - Ten (10) samples for PAHs
  - Ten (10) samples for (PCBs)

A total of 20,865 tonnes (13,040 m^3) of soil impacted with various metals, inorganic parameters, PAH and PHC parameters was excavated and transported off-Site to an MOECC licenced Walker Industries landfill.

- Sample locations to depths of between 0.0 m and 2.2 m of forty-nine (49) as follows, including QA/QC:
    - Forty-nine (49) samples for PAHs
    - Eleven (11) samples for metals & inorganic, VOCs (including BTEX) and PHC

3.2 Media Investigated

Sampling and analysis was conducted for soil and groundwater on the Site. No surface water or sediment was present on the Phase Two Property; therefore, sampling of these media's was not conducted.

3.3 Phase One Conceptual Site Model

The Phase One Conceptual Site Model was prepared in accordance with Regulation 153/04 (as amended) and is presented below.

The PCAs, APECs, existing buildings (if any), known utilities, adjacent property uses and roadways are identified in the APECs figure, provided in **Figure 2** in **Appendix G**.

The Site is located at 101 Masonry Court in the City of Burlington, Ontario. The Site is situated on the north side of Masonry Court east of Waterdown Road. The legal address of the Site is Parts 1 & 6, Concession 1 as in 20R17228; Burlington/East Flamborough Township. The Site is roughly rectangular in shape and covers an area of 5.41 hectares (13.37 acres). **Figure 1** shows the general location of the Site.

No structures were identified on the Site at the time of the site inspection. At the time of the visual site assessment the majority of the property was vacant. The Site was previously in industrial use as a concrete block and brick manufacturing plant.

The eastern portion of the Site was covered with gravel and crushed bricks while the western portion of the Site was grass-covered with some trees and brush. A drainage feature was identified on the western portion of the Site. A surface drainage feature runs parallel to Masonry Court and then turns north along the fence on the central portion of the Site and drains to the swale along the CN Railway tracks. The eastern portion of the Site is surrounded by a chain link fence with two gates and one gravel access ramp along Masonry Court. A large stockpile of crushed concrete, gravel, bricks, and soil is located on the northeast corner of the Site. Smaller stockpiles of fill soil with some gravel, bricks and asphalt are located on the south-central portion of the Site.

The visual site inspection included a walking tour of the entire Site and the compilation of written and photographic records. During the inspection potential environmental concerns of significance identified on the Site included fill of unknown quality in stockpiles on the northeast and south-central portions of the Site and surficial fill across the Site.

There is no indication that there are significant depths of fill on the property associated with old landforms such as ravines and watercourses.

The interview with the current Site owner, Mr. Paletta of P&L Livestock Inc., indicated that previous operations on the Site included concrete block and brick manufacturing and storage. The plant was decommissioned at the time the Site was purchased in 2002. Mr. Paletta confirmed that previous environmental work had been completed on the Site but was not able to release the environmental

reports because the work was completed for a prospective buyer and not for his company.

There are no known above or underground storage tanks of any kind on the Site. Historically, underground storage tanks were utilized on the Site and it is not currently known if any remain on the Site.

The ERIS report identified multiple industrial/commercial properties to the south of the Site that were listed for electrical and computer parts manufacturing and as waste generators.

Geologic and Ontario Base Map (see **Appendix F**) data indicate that the regional groundwater flow is inferred to be south towards Lake Ontario. Locally and specific to the site, the grades slope down to the northwest towards a drainage swale and eventually to a tributary of Grindstone Creek. Nearby service/utility trenches and fill strata may distort the direction of groundwater movement in the immediate area.

3.4 Deviations From Sampling and Analysis Plan

Deviations from the Sampling and Analysis Plan included the excavation and sampling of forty-one test pits. The test pits were used to delineate the metal and PHC impacted fill located on the east-central portion of the Site and to delineate the PAH impacted soil located on the southeast corner of the Site. Three additional shallow monitoring wells and four additional deep monitoring wells were also required to be installed at the Site in order to vertically and horizontally delineate the sodium and chloride impacted groundwater plume. There were no other deviations from the sampling and analysis plan.

3.5 Impediments

Landtek did not encounter any impediments within the course of the Phase Two ESA investigation.

4.0 INVESTIGATION METHOD

4.1 General

All field and laboratory procedures were conducted in accordance with MOE Guide for Completing a Phase Two Environmental Site Assessment Under Ontario Regulation 153/04 (as amended), the MOE Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, and generally accepted industry methods.

A site specific Health and Safety Plan (HASP) was developed in accordance with Landtek policy. The applicable HASP identifies items such as the site location, field activities, responsibilities of Landtek personnel as well as subcontractor personnel, possible hazards, protective equipment, and nearest emergency services. A copy of the HASP is on file with Landtek Limited.

Landtek also reviewed and implemented the corporate Standard Operating Procedures as they relate to items such as borehole drilling, field screening, soil and groundwater sampling, monitoring well installation and development, and equipment calibration

4.2 Drilling and Excavating

All Landtek Phase Two ESA borehole drilling and sampling was completed by Determination Drilling and Soil Investigations on May 8, 2014 using a track mounted CME55 drill rig equipped with solid stem continuous flight augers. A total of fifteen (15) boreholes were drilled to depths between 5.0 m (16.4 ft) and 11.9 (39.0 ft) and included installation of thirteen (13) groundwater monitoring wells.

Measures taken to minimize the potential for cross contamination include:

- Drilling augers were cleaned between boreholes according to the standard procedures in the drilling industry to avoid cross contamination.
- Decontamination of drilling and sampling equipment was completed using phosphate free detergent (soapy water) followed by a rinse and air drying period.
- Soil samples were collected from materials that had not been in direct contact with augers.
- Continuous sampling with standard 50 mm diameter split spoon methods.
- Stainless steel sampling spoons, drill cores, disposable soil syringes, and trowels were used to collect soil samples.
- The sampling technician utilized nitrile gloves, minimized touching samples, and switched to a new pair of gloves prior for handling each new sample.

The frequency of borehole samples was obtained at regular intervals as necessary to distinguish geologic strata and visual or olfactory impacted material. The screening and frequency of sample locations are available on the borehole logs in **Appendix B**.

All permanent monitoring wells were constructed with 50 mm diameter No. 10 slotted PVC screens and risers with protective metal casings. The drill contractor has filed the well information with the MOE in accordance with Regulation 903.

Excess drill cuttings remained on site following the drilling operations and were removed as part of the soil remediation activities.

4.3 Soil Sampling

Soil sample collection was taken according to field/laboratory screening results where there was visual, olfactory, or vapour detection of potential impact. Soil conditions were logged and soil samples were taken following protocols outlined in accordance with the MOE Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, and generally accepted industry methods.

Samples obtained for analyses of metals and inorganic parameters, polycyclic aromatic hydrocarbons, organochlorine pesticides, polychlorinated biphenyls, and petroleum hydrocarbons F2-F4 (PHC), were performed by removing a portion of the soil sample and placing it into a sealable container (ie. glass jar). Samples obtained for PHC Fraction 1, benzene, toluene, ethylbenzene, xylenes, and VOCs were sampled using a plastic syringe sampling device that allows the measurement of a precise amount of soil sample from the undisturbed soil to be placed and field preserved in a methanol vial. All samples were placed and stored in a cooler with an ice pack for transportation.

The general soil conditions on the Site consisted of variable depths of fill overlying sand, silty sand, silt, and till. The fill is a mixture of sand, silt and gravel.

4.4 Field Screening Measurements

Field screening tests included the following:

- Determining the textural classification of the sample and, where feasible, its geologic description based on visual and manual inspection.
- Visual observation for evidence of chemical staining or free product.
- Determination of olfactory evidence of impact.
- Measurement of the headspace Total Combustible Vapour (TCV) concentrations.

Screening for TCV was performed on all samples using a Thermo GasTech 1238ME analyzer and operated in methane elimination mode. The unit can detect a wide range of combustible organic and inorganic chemical vapours. The GasTech has a minimum detection limit of five parts per million by volume (ppmv) and provides a maximum reading of 100 percent of the Lower explosive Limit (% LEL). The precision of the instrument is to the nearest 5 ppmv and to the nearest 5 percent on the LEL scale. The accuracy is ± 5 percent.

A ‘bump’ test was performed each day by comparing the meter readings with known concentrations of n-hexane drawn from certified supply tanks. The calibration gases are 400 parts per million vapour (ppmv), and 44 percent lower explosive limit (LEL). The gas detector is recalibrated if the bump test reading differs from the known concentration by more than 10 percent.

The selection of samples for laboratory analysis was based on the sampling and analysis plan and field screening results as described above.

4.5 Groundwater Monitoring Well Installation

Thirteen (13) monitoring wells were installed by Determination Drilling and Soil Investigations under the full time supervision of an experienced Landtek field technician.

Each monitoring well consisted of new/sealed 50 mm polyvinyl chloride (PVC) screen with No.10

slots threaded onto a matching riser. The screens and riser were pre-threaded including o-ring seals such that no glues or solvents were used to connect the pipe sections. The anticipated saturated length of each screen did not exceed 3.1 m. Where impact was potentially present, the screen interval extended above and below the anticipated water table. The annular space between the PVC well and the borehole was backfilled to approximately 0.30 m above the top of the screen section with sand pack, and then with bentonite to approximately 0.1 metres below ground surface. A J-Plug lockable air-tight cap was installed on the riser. A monument steel casing or aluminum flush mount casing was then placed over the well and sealed with concrete. Table 2 presents the monitoring well installation details.

Table 2: Monitoring Well Installation Details

Monitoring Well	Installation Date	Ground Elevation (m)	Stick-Up (m)	Well Depth (m bgs)	Top of Screen (m bgs)	Bottom of Screen (m bgs)
MW1	May 9, 2014	102.64	1.10	5.0	1.9	5.0
MW3	May 8, 2014	102.28	1.08	9.1	6.1	9.1
MW3S	June 16, 2014	102.32	NA	4.6	1.6	4.6
MW5	May 8, 2014	1016.0	0.82	4.6	1.5	4.6
MW5D	June 16, 2014	101.60	NA	9.1	6.1	9.1
MW6	May 8, 2014	101.78	0.89	9.1	6.1	9.1
MW6S	June 16, 2014	101.81	NA	4.6	1.6	4.6
MW6D	July 17, 2014	101.78	NA	11.9	10.4	11.9
MW8	May 9, 2014	103.34	1.04	6.1	3.0	6.1
MW9	May 9, 2014	102.57	1.05	6.1	3.0	6.1
MW10S	June 16, 2014	102.42	NA	4.6	1.6	4.6
MW10D	June 16, 2014	102.42	NA	9.1	6.1	9.1
MW11D	June 16, 2014	101.21	1.09	9.1	6.1	9.1

4.6 Groundwater Field Measurements of Water Quality Parameters

Following installation of the monitoring wells, each well was purged/developed to remove particulate matter and improve the wells' efficiency, including the removal of any fluids (if present) from the drilling procedure. The wells were developed until the water was observed to be free of particulate matter after removing one to twenty bore volumes or the well was purged dry a minimum of three times (using a Waterra Plastic Mini-Typhoon® pump).

Purging continued until the pH, conductivity, dissolved solids, and temperature were within 10 percent over three consecutive readings. The field chemistry parameters were monitored using a Hanna Instruments pH, EC, and TDS, water quality meter. A Waterra foot valve pump was uniquely dedicated to each well. A dedicated Waterra EcoBailer was used to sample each well. The clear tube allows for sample inspection within the bailer and can connect directly to inline filters for easy filtration.

4.7 Groundwater Sampling

Six of the monitoring wells were developed on May 12, 2014 and were purged and sampled on May 16, 2014. Nine of the monitoring wells installed for delineation purposes were developed on June 24, 2014 and were purged and sampled on June 25, August 8, August 21, 2014.

Upon completion of the remediation program, seven of the monitoring wells were purged and sampled on October 15, 2015.

The sampling equipment, methodology, and measures to prevent cross contamination were as previously described. Prior to sampling, the subsurface combustible vapour concentrations were measured immediately after opening the well caps by inserting the Gastech sensor tip into the monitoring well and sealing the well with the technicians' gloved hand.

Representative groundwater was examined for visual and olfactory evidence of impact and placed in laboratory prepared/supplied bottles. The samples were sealed and stored in a cooler for transportation to the analytical laboratory. Groundwater samples analyzed for metals were field filtered at the time of sampling.

4.8 Sediment Sampling

No sediment sampling was required for this Phase Two Environmental Site Assessment.

4.9 Analytical Testing

Soil and groundwater samples were selected in accordance with the sampling and analysis plan and submitted for chemical analyses to AGAT Laboratories Ltd. of Mississauga, Ontario. AGAT Laboratories is accredited by the Canadian Association for Laboratory Accreditation (CALA).

Engineering characteristics of soils were determined at the Landtek Limited laboratory. Landtek is accredited by the Canadian Council of Independent Laboratories (CCIL) for the applicable soils and aggregate testing methods.

4.10 Residue Management Procedures

The cleaning fluids, and well development purge water from the boreholes are temporarily stored on site in sealed containers. The soil cuttings remained on site following the drilling operations. The materials will require proper disposal by the property owner at a later date. Prior to disposal, a composite sample should be submitted for laboratory analysis by the toxic characteristic leaching procedure (TCLP), with the leachate being analyzed for organic and inorganic parameters as a minimum. Thereafter, the cuttings should be transported off site by an MOE-licensed hauler for disposal at a licensed waste disposal facility, if required.

4.11 Elevation Surveying

The ground levels at boreholes and monitoring well locations were surveyed relative to a geodetic benchmark identified as City of Burlington Benchmark No. 001643678 as shown on Plan 20R-17228.

4.12 Quality Assurance and Quality Control Measures

The water and soil samples were placed in new clean containers provided/prepared by the analytical laboratory and included all required preservatives. Quality assurance and quality control (QA/QC) measures were maintained in the field through equipment decontamination and sampling procedures, as outlined in the MOE Guidance on Sampling and Analytical Methods, 1996.

The soil samples submitted for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), petroleum hydrocarbons F1 and volatile organic compounds, (VOCs) were each collected using a new disposable plastic syringe soil sampler then placing the sample in a 40 ml vial containing a

known volume of methanol. Soil samples for the remaining parameters such as metals and inorganics, OC pesticides, PCBs, and PAHs were collected in 120 mL amber glass jars with teflon lined lids. Field duplicates were obtained for soil samples.

Groundwater samples for analysis of BTEX, PHC F1 and VOCs were collected in 40 mL glass vials with zero headspace containing hydrochloric acid (HCL) as the preservative. Groundwater samples for analysis of PHC F2-F4 were collected in 500 mL amber glass bottles pre-charged with HCL preservative. Groundwater samples for analysis of polycyclic aromatic hydrocarbons (PAHs) were collected in 500 mL amber glass bottles with no preservatives. Groundwater samples for analysis of metals were field filtered using a 0.45 µm filters and were collected in 250 mL plastic bottles pre-charged with nitric acid. Mercury was sampled in a 250 mL amber jar preserved with hydrochloric acid. Hexavalent chromium was collected in a plastic 250 mL container and is preserved with a buffer solution. Inorganics were collected in a 250 ml plastic bottle with no preservative. Field duplicates were obtained for groundwater samples.

After sampling the containers were immediately placed in a cooler with frozen ice packs. Each container was labeled with a unique sample name, date, project number, and a chain of custody was filled out to identify the samples for submission of analyses. The cooler contents were maintained within the temperature range allowed by MOE protocol.

Upon receipt of the sample coolers, the analytical laboratory confirmed that the chain of custody was satisfactory, the integrity of the samples were in good condition, the sample temperatures were within the applicable range, and the holding times were satisfactorily met.

Analytical laboratory QA/QC measures included lab blanks, spikes, matrix blanks, and instrument tuning and performance assessment. Landtek Limited reviewed the percentage differences between the analyzed values for original and duplicate samples. Based on the review, the QP_{ESA} has determined that the field and lab protocols were generally satisfactory and the sample data is acceptable for review.

There were no deviations from the sampling and analysis plan with respect to the QA/QC program.

5.0 REVIEW AND EVALUATION

5.1 Geology

The detailed stratigraphy of each borehole location is presented in the borehole logs in **Appendix B**.
The general geological soil conditions encountered in the borehole samples on the Site consist of variable depths of fill overlying sand, silt, silty sand, and till.

Fill

The fill is a mixture of sand, gravel, silt and clay. The depth of fill encountered across the Site ranged from approximately 0.9 to 4.3 m below the existing ground surface.

Sand to Silty Sand

The fill materials were underlain by sand to silty sand at all boreholes with the exception of boreholes 4 and 9. The sand to silty sand layer was encountered across the majority of the Site at depths of between 0.8 and 1.5 m below existing grades and extended to depths of between 1.5 and 3.4 m below existing grades. The sand to silty sand layer is considered to represent a shallow unconfined aquifer.

Silt

Silt was encountered in borehole 8 at depths between 3.4 to 4.3 m below existing grades. The silt layer was found to be very moist with a compact relative density.

Clayey Silt

Clayey silt was encountered in borehole 5 at depths between 1.5 to 2.5 m below existing grades. The clayey silt layer was found to be very moist with a very loose to loose relative density.

Till

The till is a mixture of silt, some sand, gravel and clay with shale fragments. The till was encountered across the Site at depths of between 1.3 and 9.9 m below existing grade and extended beyond the depth investigated in the boreholes. The till is considered to represent a low permeable unit that would restrict the movement of contaminants and is considered to act as an aquitard.

5.2 Groundwater Elevations and Flow Directions

Groundwater level measurements were completed on May 12 and May 13, 2014. Additional rounds of groundwater level measurements were completed on June 24 and August 6, 2014. A final round of groundwater elevations were completed after the remedial activities. The details/locations of well screens are previously detailed in **Section 5.5** and are also provided on the borehole logs and **Figure 4**.

Monitoring wells were installed in areas of concern, as previously identified in the Phase One ESA. The wells were screened within the upper sand layer as well as the silty clay and till layers to confirm the shallow and deep groundwater table elevation and to allow for delineation of any contaminants identified within the groundwater.

Groundwater flow directions were determined from measurements of groundwater levels obtained from monitoring wells screened within the same soil/material type and at the same elevations. An interface probe was used to conduct the water level measurements and to check for any LNAPL or DNAPL products within the wells. None of the monitoring wells exhibited any evidence of free product.

The potentiometric surface elevations were determined by subtracting the measured depth to the water level from the surveyed elevation of the point of measurement; the point of measurement, unless otherwise noted, was the top of the metal well casing.

Table 3 provides the groundwater elevations as measured in the monitoring wells. The inferred potentiometric elevations, contours, and associated groundwater flow direction is provided in Figure 7. There was no evidence of free product in the wells during development or sampling operations. The interpreted information indicates that there is an unconfined water table within the shallow sand layer and a confined water table within the silty clay and till material.

The inferred groundwater flow direction in the area of the site appears to be generally to the north/northwest. Some variability in the water levels and flow direction is expected due to seasonal precipitation factors, as well as the possible influence of underground utilities, trenches, or excavations.

No underground utilities, including water, sewer, hydro and natural gas, were located on the Site. Utilities are located within the Masonry Court and Waterdown Road road allowances.

Table 3: Summary of Water Level Readings

		Date	May 12, 2014		May 13, 2014		Jun. 24, 2014		Aug. 6, 2014		Oct 15, 2015	
Well	Ground Elev. (m)	Well Depth (m)	Water Depth (m)	Water Elev. (m)	Water Depth (m)	Water Elev. (m)	Water Depth (m)	Water Elev. (m)	Water Depth (m)	Water Elev. (m)	Water Depth (m)	Water Elev. (m)
MW1	102.64	4.0	1.8	100.8	0.8	101.8	---	---	2.0	100.6	3.9	98.74
MW3	102.28	8.9	1.0	101.3	3.1	99.2	3.0	99.3	2.9	99.4	NA	NA
MW3S	102.32	3.8	NA	NA	NA	NA	1.3	100.0	1.5	100.8	NA	NA
MW5	101.60	4.6	2.3	99.3	2.1	99.5	2.3	99.3	2.2	99.4	NA	NA
MW5D	101.60	9.1	NA	NA	NA	NA	2.5	99.1	2.5	99.1	3.8	97.8
MW6	101.78	9.1	1.6	100.2	1.6	100.2	---	---	1.6	100.2	3.05	98.73
MW6S	101.81	4.5	NA	NA	NA	NA	1.3	100.5	1.5	100.3	2.10	99.7
MW6D	101.78	11.9	NA	NA	NA	NA	9.0	92.8	1.9	99.9	NA	NA
MW8	103.34	4.2	1.1	102.2	0.8	102.5	---	---	1.2	102.1	4.3	99.04
MW9	102.57	4.3	1.0	101.6	0.3	102.3	---	---	1.1	101.5	3.7	98.87
MW10S	102.42	4.5	NA	NA	NA	NA	1.6	100.8	1.6	100.8	NA	NA
MW10D	102.42	9.1	NA	NA	NA	NA	3.0	99.4	2.9	99.5	NA	NA
MW11D	101.21	9.0	NA	NA	NA	NA	1.0	100.2	0.9	100.3	2.6	98.61

Notes:
A. Water level measurements above are in metres below existing ground surface.
B. Light non-aqueous phase liquid (LNAPL) was not detected at the site during monitoring and groundwater sampling.

5.3 Groundwater Hydraulic Gradients

The measured groundwater elevations within the shallow sand layer and upper silty clay/till layer vary from approximately 99.4 m to 102.1 masl and the distance between the monitoring wells varies from about 80 m to 205 m. The average horizontal gradient has been determined to be 0.005 with a maximum of 0.010 and a minimum of 0.001.

The measured groundwater elevations within the deeper silty clay and/or till vary from approximately 99.1 m to 100.0 masl and the distance between the monitoring wells varies from about 800 m to 145 m. The horizontal gradient has been determined to be 0.007.

The average vertical hydraulic gradient has been determined to be 0.1596 downwards with a maximum of 0.2766 and a minimum of 0.0222.

5.4 Coarse-textured Soil Texture

Coarse-textured native soil consisting of sand to silty sand was identified on the Site. The sand to silty sand was determined to be composed of a sand or silty sand with trace to some gravel and trace silt and clay. The applicable soil texture for the Site was therefore determined to be a coarse soil texture. Grain size analyses on the native soils at varying depths and locations across the site were conducted, the findings of which are summarized as follows:

- BH8 SS5 (3.0 to 3.5 mbgs) approximately 9.0% gravel, 80.8% sand and 10.2% silt and clay indicating a coarse texture.
- TP38 SA2 (0.8 to 1.4 mbgs) approximately 4.1% gravel, 90.1% sand and 5.8% silt and 16.3% clay indicating a medium/fine texture.
- BH7 SS5 (3.0 to 3.5 mbgs) approximately 1.0% gravel, 14.0% sand, 56.9% silt and 25.4% clay indicating a medium/fine texture.
- BH8 SS7 (6.1 to 6.7 mbgs) approximately 2.7% gravel, 10.6% sand, 67.8% silt and 18.9% clay indicating a medium/fine texture.

5.5 Soil Field Screening

Total combustible vapour (TCV) concentrations measured in the soil samples recovered from the boreholes and are provided on the borehole logs in **Appendix D**. The maximum detected soil TCV concentration was 250 ppm a sample from borehole BH 4. Soil samples were also screened for visual and olfactory (odour) evidence of impact.

5.6 Soil Quality

The potential contaminants of concern identified by the Phase One ESA included the following:

- Metals and Inorganics
- Petroleum Hydrocarbons (PHC) F1-F4
- Benzene, Ethylbenzene, Toluene, Xylene (BTEX)
- Volatile Organic Compounds (VOC)
- Polychlorinate Biphenyls (PCB)
- Polycyclic Aromatic Hydrocarbons (PAH)
- Organochlorine pesticides (OC Pesticides)

A discussion of the analytical testing completed for this assessment is presented in the following sections. Laboratory certificates of analysis for the testing are provided in **Appendix C**.

A summary of the chemical analyses conducted for the soils from the Phase Two ESA, prior to remediation are provided in are provided in **Table 4** and location on **Figure 8** in **Appendix G**. A summary of sample locations collected post remediation are provided in **Table 5** and location on **Figure 12** in **Appendix G**.

A summary of soil exceedances from the Phase Two ESA, prior to remediation are provided in are provided in **Table 4** and location on **Figure 8** in **Appendix G**. No soil exceedances for PCBs or OC pesticides were identified within the investigation.

Additional Information

The impacts are considered to be associated and consistent with the contaminants of concern and historical uses of the Site. The soil impacts associated with petroleum hydrocarbons, select metals, inorganics, and PAH parameters have been attributed to unknown fill quality on the southeast and central portions of the Site. Electrical conductivity and boron (hot water soluble) deep soil impacts on the northern portion of the Site have been attributed to off-site uses and groundwater impacting soil.

There is no indication from the sample results that biological or chemical transformations have occurred in the soils. PAHs and heavy metals are generally not readily soluble in water within the pH ranges encountered at the Site and therefore do not represent a source of contamination to groundwater. The results of the soil sampling and analysis indicate that the soil could potentially serve as a source of contaminant mass contributing to groundwater contamination but it is unlikely to result in the formation of free product. The soil sampling did not indicate the presence of any dense non-aqueous phase liquids (DNAPLs).

5.7 Groundwater Quality

The potential contaminants of concern identified by the Phase One ESA included the following:

- Metals
- Petroleum Hydrocarbons (PHC) F1-F4
- Benzene, Ethylbenzene, Toluene, Xylene (BTEX)
- Volatile Organic Compounds (VOC)
- Polycyclic Aromatic Hydrocarbons (PAH)
- Polychlorinated Biphenyls

A discussion of the analytical testing completed for this assessment is presented in the following sections. **Table 4** presents a summary of the chemical analyses. Laboratory certificates of analyses for the testing are provided in **Appendix C**.

Table 4: Schedule of Groundwater Chemical Analyses

Location	Screen Interval (m bgs)	Metals and Inorganics	PHC + BTEX	VOC	PAH	PCB
MW1	1.9-5.0	✓	✓	✓		✓
MW3	6.1-9.1	✓	✓	✓		
MW3S	1.6-4.6	✓			✓	
MW5	1.5-4.6	✓	✓	✓		
MW5D	6.1-9.1	✓				
MW6	6.1-9.1	✓	✓	✓	✓	✓
MW6S	1.6-4.6	✓				
MW6D	10.4-11.9	✓				
MW8	3.0-6.1	✓	✓	✓	✓	✓
MW9	3.0-6.1	✓	✓	✓	✓	✓

Location	Screen Interval (m bgs)	Metals and Inorganics	PHC + BTEX	VOC	PAH	PCB
MW10S	1.6-4.6	✓	✓	✓	✓	✓
MW10D	6.1-9.1	✓				
MW11D	6.1-9.1	✓				

Exceedances for chloride and sodium were identified within MW6 on the northern portion of the Site. No other groundwater exceedances for the parameters analyzed were identified within the groundwater during the investigation.

Additional Information

Concentration of sodium and chloride exceeded the 2011 MOE Table 3 Standards in groundwater sample from monitoring well MW6 located adjacent to and downgradient from Highway 403 were determined by the QP to be attributable to the de-icing activities on the neighbouring public roadways, and pursuant to O.Reg. 153/04, Section 48(3), are deemed not to exceed the Standards for the purposes of Part XV.1 of the Environmental Protection Act. All other groundwater samples and parameters met the 2011 MOE Table 3 Standards.

An apparent exceedance for chloride was originally identified within MW6D which is screened within the bedrock in the vicinity of MW6. The original chloride exceedance is attributed to insufficient well development and residual groundwater from the upper contaminated zone. Due to the slow recharge of the groundwater within the bedrock at MW6D it was not until the monitoring well was repeatedly purged and sampled for a second time that the true chloride levels within the groundwater were obtained. The second and third round of analytical testing of the groundwater from MW6D did not identify any exceedances for any of the parameters analyzed, including chloride. The original chloride exceedance was therefore treated as a false positive as it was considered representative of the groundwater within the overlying sand aquifer than the groundwater within the bedrock.

Metal parameters were field filtered prior to analysis, as outlined in Section 5.7.

There is no indication from the sample results that biological or chemical transformations have occurred in the groundwater and there was no indication of free product in the monitoring wells. The groundwater sampling did not indicate the presence of dissolved phase light non-aqueous phase liquids (LNAPLs) or any dense non-aqueous phase liquids (DNAPLs).

5.8 Sediment Quality

No sediment sampling was required for this Phase Two ESA.

5.9 Quality Assurance and Quality Control Results

Laboratory quality control data and signed Certificates of Analysis for all soil and groundwater samples analyzed are shown in **Appendix C**. There were no deviations from the sampling and analysis plans with respect to holding time, temperatures, preservation method, storage requirements, or container type. No qualifiers were noted on the soil or groundwater data.

Duplicate soil and groundwater samples and respective analyses performed are presented in **Table 5** and **Table 6** below.

Table 5: Summary of Duplicate Soil Samples and Analyses

Duplicate Name	Location	Sampling Date	Analysis
Duplicate 1	BH4 SS3	May 9, 2014	Metals and Inorganics
Duplicate 2	BH3 SS2	May 8, 2014	PAHs
Duplicate 3	BH6 SS2	May 8, 2014	PCBs
Duplicate 4	BH1 SS2	May 8, 2014	PHC F1-F4+BTEX, VOCs
Duplicate 5	BH9 SS4	May 9, 2014	PHC F1-F4+BTEX, VOCs
TP Dup1	TP11 Sa1	June 16, 2014	Metals and Inorganics, PAHs
TP Dup2	TP7 Sa2	June 16, 2014	PCBs
TP Dup3	TP7 Sa3	June 16, 2014	Metals and Inorganics
TP Dup4	TP23 Sa2	June 16, 2014	PHC F1-F4+BTEX, VOCs
TP Dup5	TP5 Sa1	June 15, 2014	Metals and Inorganics
TP Dup6	TP16 Sa1	June 16, 2014	PAHs
BH Dup7	BH11D SS6	June 16, 2014	Metals and Inorganics
Dup1	TP32 Sa1	July 24, 2014	PAHs
Dup2	TP39 Sa1	July 24, 2014	PAHs

Table 6: Summary of Duplicate Groundwater Samples and Analyses

Duplicate Name	Location	Sampling Date	Analysis
Duplicate 1	MW6	May 13, 2014	Metals, Inorganics, PAH, PHC F1-F4+BTEX, PCBs, VOCs
Dup1	MW6	June 25, 2014	Metals and Inorganics
Dup2	MW10S	June 25, 2014	PAH, PHC F1-F4+BTEX, PCBs, VOCs
Dup1	MW3	August 8, 2014	Metals and Inorganics, PHC F1-F4+BTEX, VOCs
Dup2	MW6	August 8, 2014	Metals and Inorganics, PAH, PCBs
Dup1	MW6D	August 21, 2014	Metals and Inorganics

The duplicate results were similar to the initial sample results for all of the above-mentioned duplicates and parameters tested. Relative percent differences (RPD) between analytical results for the initial and duplicate samples were calculated. Where the concentrations of the analyzed representative soil sample and the duplicate were not both greater than five times the laboratory MDL, RPDs could not be calculated. The results of the analyses where the concentrations were at least five times the laboratory MDL were compared to the duplicate sample concentrations and were found to be within an acceptable degree of variance. The calculated results are as follows:

Maximum RPD values in soil: 176 %
Maximum RPD values in groundwater: 73 %

The maximum RPD value in the soil was 176 % for antimony in Duplicate 1, which far exceeds the ideal limit of less than 30 % for soils. The large variance in the analyzed antimony concentrations is attributed to the variable nature of the fill. Similarly, the maximum RPD value in the groundwater was 73% for vanadium in Dup2, which exceeds the ideal limit of less than 20% for groundwater. The high RPD was limited to the vanadium concentration within this sample and RPDs for the rest of the groundwater parameters and samples had RPDs of less than 22%. Based on the above, the majority of the RPD values meet the required limits of less than 30 percent for soils and less than 20 percent for groundwater.

The subcontracted laboratory used during this investigation, AGAT Laboratories, is accredited by the Standards Council of Canada/Canadian Association of Environmental Analytical Laboratories in

accordance with ISO/IEC 17025:1999 – "General Requirements for the Competence of Testing and Calibration Laboratories" for the analysis of all parameters for all samples in the scope of work for which SCS have been established under O.Reg. 153/04, as amended.

The laboratory quality assurance program included the analysis of laboratory duplicate (replicate) samples, method blanks, spikes samples, spiked blanks and samples of reference materials in accordance with the Analytical Protocol. These analytical results comprise portions of the Certificates of Analysis provided in **Appendix C**.

All certificates of analysis received pursuant to clause 47(2) (b) of the regulation comply with subsection 47(3) of the regulation. A certificate of analysis has been received for all samples submitted for analysis. Based on the overall data, the quality of the field data from the investigation was acceptable with respect to the data quality objectives. Decision making was not affected and the overall objective of the investigation and the assessment were met.

5.10 Phase Two Conceptual Site Model

Based on the selected applicable site condition standard (as outlined in **Section 2.4**), the analytical results for soil and groundwater samples have been compared to Table 3 standards for Residential/Parkland/Institutional (R/P/I) uses in a non-potable groundwater setting and coarse textured soils.

A Phase Two Conceptual Site Model was developed and is provided in full in **Appendix G**. This model provides details of the areas where potentially contaminating activities occurred, the areas of potential environmental concern, as well as subsurface structures and utilities that may affect the transport and distributions of contaminants that were identified in the Phase One Conceptual Site Model, as presented in **Section 4.3**.

6.0 SUMMARY AND CONCLUSIONS

Based on the results of the subsurface investigation conducted at the Site, the following findings are presented:

1. The Phase Two ESA consisted of the advancement of a total of fifteen boreholes, thirteen of which were completed as monitoring wells, and the excavation of forty-one test pits.

2. The general stratigraphy of the Site consisted of variable sand, gravel and silt fill overlying sand, silty sand, silt and till.

3. The measured groundwater elevations within the shallow sand layer and upper silty clay/till layer vary from approximately 99.4 m to 102.1 masl. Based on the relative groundwater elevations, the groundwater below the Site was assessed to flow in a north/northwest direction. Regional groundwater flow is expected to generally flow to the south towards and Lake Ontario.

4. A total of thirty-three (33) soil samples were analyzed for metals and inorganics, eighteen (18) samples for VOCs, seven (7) samples for PCBs, seventeen (17) samples for PHC+BTEX, three (3) samples for organochlorine pesticides, and forty-one (41) samples for PAHs, were analyzed as part of the Phase Two ESA. In addition, fourteen (14) QA/QC field duplicate samples were also analyzed for parameters.

5. A total of eighteen (18) groundwater samples were analyzed for metals and inorganics, fourteen (14) samples for VOCs, ten (10) samples for PCBs, fourteen (14) samples for PHC+BTEX and ten (10) samples for PAH were analyzed as part of the delineation and remediation activities of the Phase Two ESA. In addition, six (6) QA/QC field duplicate samples and three (3) trip blank samples were also analyzed.

6. Soil exceedances for petroleum hydrocarbons, PAHs and metals were encountered during the Phase Two ESA. No soil exceedances were identified for inorganic parameters, PCBs, OC pesticides, or VOCs during the Phase Two ESA.

7. No groundwater exceedances were identified for metals, PHCs, PCBs, PAHs, or VOCs during the Phase Two ESA.

8. Remedial Activities

- A total of 20,865 tonnes (13,040 m^3) of soil impacted with various metals, inorganic parameters, and PHC+BTEX parameters was excavated and transported off-Site to the Walker Industries Niagara Road 12 Landfill in West Lincoln, Ontario.

- A total of eleven (10) soil samples were analyzed for metals and inorganics, VOCs and for PHC+BTEX. Thirty-four (38) samples for PAHs, were analyzed as part of the Phase Two ESA. In addition, fourteen (14) QA/QC field duplicate samples were also analyzed for parameters.

- The concentrations of the confirmatory floor and wall soil samples for all parameters analyzed meet the applicable MOECC Table 3 Standards.

- A total of 17,187 m^3 (30,900 tonnes) of soil material was also imported to the Site and placed as engineered fill in the remedial excavation at the Site. The material sourced from a native silty clay deposit and appeared to be free of deleterious materials and odours.

The Phase Two ESA has been completed in accordance with Regulation 153/04 (as amended) and was used to support the filing of a Record of Site Condition (RSC) No. 222207. This report should be read in conjunction with the Phase One ESA completed by Landtek Limited.

6.1 Signatures

Qualifications

Senior review assessment work was conducted by Mr. Paul Blunt, P.Eng. who has conducted and supervised Environmental Site Assessments for more than 25 years. Mr. Blunt obtained a B.Sc. in Chemical Engineering from University of Windsor in 1987 and is a licensed Professional Engineer in the Province of Ontario. Mr. Blunt has conducted and supervised over 1500 environmental site assessments on a variety of agricultural, residential, industrial, commercial and industrial properties.

Review of the assessment was conducted by Mr. Ralph Di Cienzo, P.Eng., QP_{ESA} who has over 20 years of related environmental experience including completion of numerous Phase One and Two ESA's and Site Remediation activities. Mr. Di Cienzo holds a Bachelor of Applied Science degree in Civil Engineering.

Closure

The Limitations of the Report, as stated in Enclosure 1, are an integral part of this report.

We trust this report is satisfactory for you purposes. If you have any questions regarding our submission, please do not hesitate to contact this office.

Yours truly,

LANDTEK LIMITED

Paul Blunt, P.Eng., QP_{ESA}

Ralph Di Cienzo, P.Eng., QP_{ESA}

REFERENCES

[1] Phase One Environmental Site Assessment, 101 Masonry Court, City of Burlington, Ontario; report by Landtek Limited, dated May 6, 2014.

[2] Quaternary Geology of the Hamilton Area, Ministry of Northern Development and Mines, Map P2509, 1975.

[3] "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario", Ministry of the Environment of Ontario, December, 1996.

[4] Paleozoic Geology of Southern Ontario, Ontario Geological Survey, Miscellaneous release – Data 219, 2007.

[5] The Ontario Water Resources Act – R.R.O. 1990, Regulation 903 – Ammended to O. Reg. 128/03, August 2003.

[6] "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act," April 15, 2011.

[7] "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act," March 2004 (amended as of July 1, 2011).

[8] Ontario Regulation 153/04 (made under the Environmental Protection Act), May 2004 (as amended by O.Reg. 511/09 and O.Reg. 179/11).

[9] Environmental Protection Act, R.S.O. 1990, Chapter E.19, as amended, September 2004.

ENCLOSURE 1

LIMITATIONS OF THE REPORT

This report was prepared for the sole use of the Client and their legal counsel, and is intended to provide an evaluation of the current environmental conditions at the subject site. Any use that a third party makes of this report, or decisions made based on it, are the responsibility of the third party. Landtek Limited accepts no responsibility for damages of any type suffered by the third party as a result of actions or decisions made based on this report.

The conclusions and recommendations given in this report are based on information obtained from various sources noted, subsurface investigation, and a visual examination of the site. It is based on the conditions of the subject property at the time of the field investigation supplemented by a review of historical information to assess environmental conditions at the site reported. Landtek assumes that information provided by others is factual and accurate, and accepts no responsibility for any deficiency, misstatement, of inaccuracy in this report from information provided by others.

This assessment should not be considered a comprehensive audit that outlines all environmental liabilities or eliminates all risks of encountering environmental problems in some portions of the site. There is no warranty expressed or implied by this report concerning the status of the study site.

The report has been prepared in accordance with generally accepted environmental study and/or engineering practices. No other warranties, either expressed or implied, are made as to the professional services provided under the terms of our contract and included in this report.

The objective of this report was to assess the environmental conditions at the site, with respect to existing environmental regulations within the applicable jurisdiction. Compliance of past owners with applicable local, provincial and federal government laws and regulations was not included in our contract for services.

The site history performed herein relies on information supplied by others, such as local, provincial and federal agencies as other consultants. No attempt has been made to independently verify the accuracy of such information, unless specifically noted in our report.

Should the site conditions change or additional background data become available after this report has been issued, Landtek Limited should be made aware of the information and be given an opportunity to reassess the findings if it relates to environmental concerns.

ENCLOSURE 2
SYMBOLS AND TERMS USED IN THE REPORT



RELATIVE PROPORTIONS

Term	Range
Trace	0 - 5%
A Little	5 – 15%
Some	15 – 30%
With	30 – 50%

CLASSIFICATION BY PARTICLE SIZE

Boulder	> 200 mm
Cobble	80 mm – 200 mm
Gravel -	
Coarse	19 mm – 80 mm
Fine	4.75 mm – 19 mm
Sand -	
Coarse	4.75 mm – 2 mm
Medium	2 mm – 0.425 mm
Fine	0.425 mm – 0.75 mm
Silt	0.075 mm – 0.002 mm
Clay	< 0.002 mm

DENSITY OF NON-COHESIVE SOILS

Descriptive Term	Relative Density	Standard Penetration Test
Very Loose	0 – 15%	0 – 4 Blows Per 300 mm Penetration
Loose	15 – 35%	4 – 10 Blows Per 300 mm Penetration
Compact	35 – 65%	10 – 30 Blows Per 300 mm Penetration
Dense	65 – 85%	30 – 50 Blows Per 300 mm Penetration
Very Dense	85 – 100%	Over 50 Blows Per 300 mm Penetration

CONSISTENCY OF COHESIVE SOILS

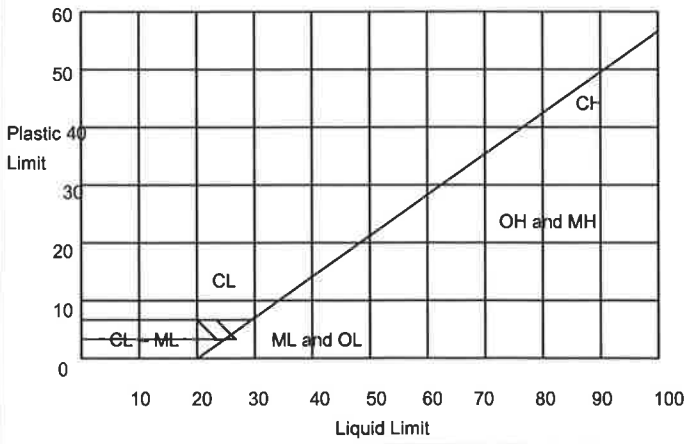
Descriptive Term	Undrained Shear Strength kPa (psf)	N Value Standard Penetration Test	Remarks
Very Soft	< 12 (< 250)	< 2	Can penetrate with fist
Soft	12 – 25 (250 – 500)	2 – 4	Can indent with fist
Firm	25 – 50 (500 –1000)	4 – 8	Can penetrate with thumb
Stiff	50 – 100 (1000 – 2000)	8 – 15	Can indent with thumb
Very Stiff	100 – 200 (2000 – 4000)	15 – 30	Can indent with thumb-nail
Hard	> 200 (> 4000)	> 30	Can indent with thumb-nail

Notes: 1. Relative density determined by standard laboratory tests.
2. N value – blows/300 mm penetration of a 623 N (140 Lb.) hammer falling 760 mm (30 in.) on a 50 mm O.D. split spoon soil Sampler. The split spoon Sampler is driven 450 mm (18 in.) or 610 mm (24 in.). The "N" value is the Standard Penetration Test (SPT) value and is normally taken as the number of blows to advance the Sampler the last 300 mm.

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ENCLOSURE 3
CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES
ASTM Designation: D 2487 - 69 AND D 2488 – 69
(Unified Soil Classification System)

Major Divisions			Group Symbols	Typical Names	Classification Criteria		
Coarse-grained soils More than 50% retained on No. 200 sieve *	Gravels 50% or more of coarse fraction retained on No. 4 sieve	Clean gravels	GW	Well-graded gravels and gravel-sand mixtures, little or no fines	Classification on basis of percentage of fines Less than 5% pass No. 200 sieve . . . . . GW, GP, SW, SP More than 12% pass No. 200 sieve . . . . . GM, GC, SM, SC 5 to 12% pass No.200 sieve . . . . . Borderline Classifications requiring use of dual symbols	C_u=D60/D10 greater than 4; $C_z = (D30)^2/(D10xD60)$ between 1 and 3	
			GP	Poorly graded gravels and gravel-sand mixtures, little or no fines		Not meeting both criteria for GW	
		Gravels with fines	GM	Silty gravels, gravel-Sand-silt mixtures		Atterberg limits below "A" line or P.I. less than 4	Atterberg limits plotting in hatched area are borderline Classifications requiring use of dual symbols
			GC	Clayey gravels, gravel-Sand-clay mixtures		Atterberg limits above "A" line with P.I. greater than 7	
	Sands More than 50% of coarse fraction passes No. 4 sieve	Clean Sands	SW	Well-graded sands and gravelly sands, little or no fines		C_u=D60/D10 greater than 6; $C_z = (D30)^2/(D10xD60)$ between 1 and 3	
			SP	Poorly graded sands and gravelly sands, little or no fines		Not meeting both criteria for SW	
		Sands with fines	SM	Silty sands, sand-silt mixtures		Atterberg limits below "A" line or P.I. less than 4	Atterberg limits plotting in hatched area are borderline Classifications requiring use of dual symbols
			SC	Clayey sands, sand-clay mixtures		Atterberg limits above "A" line with P.I. greater than 7	
Fine-grained soils 50% or more passes No. 200 sieve *	Silts and clays Liquid limit 50% or less		ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands	Plasticity Chart For Classification of fine-grained soils and fine fraction of coarse-grained soils. Atterberg limits plotting in hatched area are borderline Classifications requiring use of dual symbols. Equation of A-line: PI=0.73 (LL-20)		
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays			
			OL	Organic silts and organic silty clays of low plasticity			
	Silts and clays Liquid limit greater than 50%		MH	Inorganic silts, micaceous or diatomaceous fine sands or silts, elastic silts			
			CH	Inorganic clays of high plasticity, fat clays			
			OH	Organic clays of medium to high plasticity			
	Highly organic soils		Pt	Peat, much and other highly organic soils	* Based on the material passing the 3 in. (76mm) sieve.		



APPENDIX A

SAMPLING AND ANALYSIS PLAN

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1.0 SAMPLING AND ANALYSIS PLAN

1.1 Introduction

The Sampling and Analysis Plan (SAAP) was developed in support of the Phase Two ESA. The Phase Two ESA will be conducted to provide characterization of the subsurface conditions at the Site such that a Record of Site Condition (RSC) may be filed for the Site. The SAAP presents the procedures and measures that will be undertaken during field investigative activities to characterize the Site conditions and meet the data quality objectives of the Phase Two ESA.

The SAAP presents the sampling program used for the Site, the recommended procedures and protocols for sampling and related field activities, the data quality objectives and the quality assurance/ quality control (QA/QC) measures that will be undertaken to provide for the collection of accurate, reproducible and representative data. These components are described in further detail in the following sections.

1.2 Field Sampling Program

The field sampling program was developed to provide the collection of samples of the surficial and subsurface soil materials for chemical analysis of one or more of the following parameters: metals, inorganics, PCBs, PAHs, VOCs, and PHC+BTEX.

Vertical control of the boreholes and monitoring wells will be obtained through the completion of an elevation survey with reference to a local permanent and recoverable benchmark. Groundwater flow direction will be determined through groundwater level measurements and the relative groundwater elevations will be established in the Site elevation survey.

1.3 Field Sampling Methods

To meet the requirements of the field sampling program, the following field investigative methods will be undertaken:

- Boreholes
- Soil sampling
- Monitoring well installations
- Monitoring well development
- Residue management procedures
- Groundwater level measurements
- Elevation surveying
- Groundwater sampling

The field investigative methods will be performed as described below:

1.3.1 Boreholes

Nine (9) boreholes will be advanced at the Site to facilitate the collection of soil samples for chemical analysis and geologic characterization.

Prior to borehole drilling, utility clearances will be obtained from public and private locators, as required. If any uncertainty regarding the location of a buried utility at a borehole location is encountered or if a location is within 1 m of a buried utility, the borehole will be initiated by daylighting or hand augering to a sufficient depth to ensure clearance of utilities. Boreholes will be

advanced into the surficial fill and native overburden soils by a borehole contractor under the full time supervision of Landtek Limited staff.

1.3.2 Soil Sampling

Soil samples for geologic characterization and chemical analysis will be collected on a continuous basis in the overburden material. Geologic and sampling details of the recovered cores will be logged and the samples will be assessed for the potential presence of non-aqueous phase liquids. A portion of each soil core will be placed in a sealed plastic bag and allowed to reach ambient temperature prior to field screening with a combustible gas detector or photo-ionization detector (PID) that will be calibrated with an appropriate reference gas prior to use. The vapour measurements will be made by inserting the instrument's probe in to the plastic bag while manipulating the sample to ensure volatilization of the soil gases. These readings will provide a real-time indication of the relative concentration of volatile organic vapours encountered in the subsurface during drilling. Samples for chemical analysis will be selected on the basis of visual, combustible gas and olfactory evidence of impacts and at specific intervals to define the lateral and vertical extent of known impacts.

Recommended volumes of soil samples selected for chemical analysis will be collected into pre-cleaned, laboratory supplied, analytical test group specific containers. The samples will be placed into clean insulated coolers, chilled with ice for storage and transport. The samples will be assigned unique identification numbers and the date, time, location and requested analysis for each sample will be documented in a bound field note book. The samples will be submitted to the contractual laboratory within analytical test group holding times under Chain of Custody (COC) protocols. New disposable chemical resistant gloves will be used during the handling and sample collection for each soil core to prevent sample cross-contamination.

1.3.3 Monitoring Well Installation

A drilling contractor will be contracted to advance three (3) boreholes which will be equipped with monitoring wells to facilitate the collection of groundwater samples. The monitoring wells will be installed in general accordance with the Ontario Water Resources Act - R.R.O. 1990, Regulation 903 - Amended to O. Reg. 128/03 and will be installed by a licensed well contractor.

The monitoring wells will be constructed using 50 mm diameter, Schedule 40, PVC riser pipe and number 10 slot size (0.25 mm) well screens. The base of the well screens will be sealed with PVC end caps. All well pipe connections will be factory machined, treaded flush couplings. The pipe components will be pre-wrapped in plastic, which will be removed prior to insertion in the borehole to minimize the potential for contamination. No lubricants or adhesives will be used in the construction of the monitoring wells. The annular space around the well screens will be backfilled with silica sand to an average height of 0.3 m above the top of the screen. Granular bentonite will be placed in the borehole annulus from the top of the sand pack to approximately 0.3 m below grade. The monitoring wells will be completed with steel monument protective casings and cemented into place.

1.3.4 Monitoring Well Development

The newly installed monitoring wells will be developed to remove fine sediment particles potentially lodged in the sand pack and well screen to enhance hydraulic communication with the surrounding formation waters. The monitoring wells will be developed using a Waterra foot valve pump and sample tubing. Monitoring well development will be monitored by visual observations of turbidity, and by taking field measurements of pH, specific conductance and temperature for every standing well (i.e., wetted casing) volume removed. Standing water volumes will be determined by means of an

electronic water level meter. Water quality parameter measurements will be recorded using a multi meter instrument. The instrument probes will be calibrated prior to use following the manufacturer's procedures using analytical grade reagents, or if obtained from a field equipment supplier, the calibration checked. Approximately three to five wetted well volumes will be removed; and, well development will continue until the purged water has chemically stabilized as indicated by visual observation and field parameter measurements.

Well development details will be documented on a well development log sheet or in a bound hard cover notebook. All development waters will be collected and stored in labelled, sealed containers.

1.3.5 Residue Management Procedures

The residue materials produced during the borehole drilling, soil sampling programs and monitoring well sampling programs comprised of soil cuttings from drilling activities, decontamination fluids from equipment cleaning, and waters from well development and purging will be placed in labelled, sealed drums for off-Site disposal.

1.3.6 Groundwater Level Measurements

Groundwater level measurements will be recorded for the installed monitoring wells to determine groundwater flow direction in the bedrock aquifer beneath the Site. Water levels will be measured with respect to the top of the casing by means of an electronic water level meter. The water levels will be recorded on water level log sheets or in a bound field notebook. The water level meter probe will be decontaminated between monitoring well locations.

1.3.7 Elevation Surveying

An elevation survey will be conducted to obtain vertical control of the newly installed monitoring well locations. The top of casing and ground surface elevation of each monitoring well location will be surveyed against a known geodetic or permanently recoverable benchmark. Elevations measured against a geodetic benchmark will be recorded as meters above sea level (masl). The arbitrary temporary benchmark will be assigned an elevation of 100 m. The elevation survey will be accurate to within +- 0.3 cm.

1.3.8 Groundwater Sampling

Groundwater samples will be collected from the installed monitoring wells for chemical analysis. The monitoring wells will be purged first of three to five wetted well volumes of water to remove standing water and draw in fresh formation water. Wetted well volumes will be determined by measuring water levels with an electronic water level meter. Waterra foot valve pump and sample tubing or bailers will be used for well purging and sample collection. Wells, which are purged dry, are to recover to 75% of static levels before sampling.

Recommended groundwater sample volumes will be collected into pre-cleaned, laboratory-supplied vials or bottles with analytical test group specific preservatives, as required. The samples will be placed in an insulated cooler chilled with ice for storage and transport.

All groundwater samples will be assigned unique identification number, and the date, time, project number, company name, location and requested analyses for each sample will be documented in a bound hard cover notebook. The samples will be submitted to the contractual laboratory within analytical test group holding times under COC protocols. New disposable chemical resistant gloves will be used for each sampling location to prevent sample cross-contamination.

1.4 Field Quality Assurance/Quality Control Program

The objective of the field quality assurance/quality control (QA/QC) program is to obtain soil and groundwater samples and other field measurements that provide data of acceptable quality that meets the objectives of the Phase Two ESA. The objectives of the QA/QC program will be achieved through the implementation of procedures for the collection of unbiased (uncontaminated) samples, sample documentation to provide a measure of sample reproducibility and accuracy. The field QA/QC measures will comprise:

- Decontamination Protocols
- Equipment Calibration
- Sample Preservation
- Sample Documentation
- Field Duplicates and Blanks

Details of the field QA/QC measures are provided below.

1.4.1 Decontamination Protocols

Decontamination protocols will be followed during field sampling where non-dedicated sampling equipment is used to prevent sample cross-contamination. For soil sampling, sampling equipment will be cleaned/decontaminated between sampling intervals. For the monitoring well installations, well components will not be permitted to come into contact with the ground surface prior to insertion into the boreholes. Electronic water level meters will be decontaminated between monitoring well locations during well development, purging, and rising head tests. All decontamination fluids will be collected and stored in clearly labelled, sealed containers.

1.4.2 Equipment Calibration

All equipment requiring calibration will be calibrated in the field according to the manufacturer's requirements using analytical grade reagents, or if the equipment is rented, by the supplier prior to conducting the sampling activities. All calibration data will be documented in a hard cover, bound workbook or on a calibration log sheet.

1.4.3 Sample Preservation

All samples will be preserved using appropriate analytical test group specific reagents, as required, and upon collection will be placed in cooled, insulated containers for storage and transport.

1.4.4 Sample Documentation

All samples will be assigned a unique identification number which is to be recorded along with the date, project number, company name, location and requested analysis in a bound field notebook or on a sampling worksheet. All samples will be handled and transported following chain-of-custody protocols.

1.4.5 Field Duplicate and Blanks

Where groundwater samples are to be analyzed for volatile organic compounds, one trip blank shall be submitted for laboratory analysis with each submission. Field duplicates will be submitted and analysed at a ratio of one duplicate sample for every ten samples submitted for laboratory analysis.

APPENDIX B

FIELD LOGS

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LOG OF BOREHOLE NO. 1

Project No.:	14123	Drill Date:	May 9, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[ ] solid stem [x] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Samples No.	Samples Type	SPT "N" Value	Soil Moisture (%)	GWL	TCV Readings
Ground Surface		102.6						
±100 mm granular		0.0						
FILL mixture of sand, gravel, and silt, moist, brown (Very Loose)			1	SS	3	11.1		0 ppm bentonite backfill
			2	SS	40	14.8		10 ppm WL = 2.0 m August 6/2014
		101.5						
SAND coarse to medium, some gravel, trace silt, very moist, brown (Compact)		1.1	3	SS	26	11.0		0 ppm sand backfill to 1.6 m
		100.1	4	SS	3	23.6		2.0 m 0 ppm WL = 2.6 m May 9/2014
SILT fissured & fractured, fine sand, clayey with clay seams,very moist to wet & dilatant, reddish-brown, (Very Loose to Loose)		2.5	5	SS	6	20.5		0 ppm
		98.6						3.0 m of slotted 50 mm dia. PVC pipe
TILL clayey silt with sand and gravel, red shale fragments, very moist, reddish-brown (Compact)		4.0	6	SS	15	13.6		0 ppm
		97.6						
BOREHOLE TERMINATED		5.0						5.0 m

Scale (m): 0.0, -0.5, -1.0, -1.5, -2.0, -2.5, -3.0, -3.5, -4.0, -4.5, -5.0, -5.5, -6.0, -6.5, -7.0, -7.5, -8.0, -8.5, -9.0, -9.5, -10.0

SPT "N" Value: 0, 25, 50, 75, 100

Soil Moisture (%): 0, 25, 50

Notes:
1. On completion, borehole open to 5.0 m and water level at 2.6 m.
2. Water level measured at 2.0 mbg on Aug.6, 2014.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
PL = plastic limit LL = liquid limit PI = plasticity index FV = field vane LV = lab vane VS = vane sensitivity

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LOG OF BOREHOLE NO. 2

Project No.:	14123	Drill Date:	May 8, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[x] solid stem [ ] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Samples No.	Samples Type	SPT "N" Value	Soil Moisture (%)	GWL	TCV Readings
Ground Surface		101.8						
FILL mixture of black sand (possibly foundry sand), coarse gravel & silt, brown, moist, (Loose)		0.0 101.0	1	SS	71	7.6		5 ppm
SAND coarse to medium, some gravel and silt, wet, brown, (Compact)		0.8 100.1	2	SS	19	14.4		5 ppm
			3	SS	5	21.6		0 ppm
TILL clayey silt with sand and gravel, red shale fragments, very moist, reddish-brown, (Loose to Compact below ±3.0 m)		1.7	4	SS	6	21.0		0 ppm
			5	SS	11	16.9		0 ppm
			6	SS	13	16.6		0 ppm
			7	SS	14	20.9		0 ppm
		95.2						
BOREHOLE TERMINATED		6.6						

Scale (m): 0.0, -0.5, -1.0, -1.5, -2.0, -2.5, -3.0, -3.5, -4.0, -4.5, -5.0, -5.5, -6.0, -6.5, -7.0, -7.5, -8.0, -8.5, -9.0, -9.5, -10.0

SPT "N" Value: 0, 25, 50, 75, 100

Soil Moisture (%): 0, 25, 50

Notes: 1. On completion, borehole open to 6.1 m and water level at 1.0 m.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
PL = plastic limit LL = liquid limit PI = plasticity index FV = field vane LV = lab vane VS = vane sensitivity

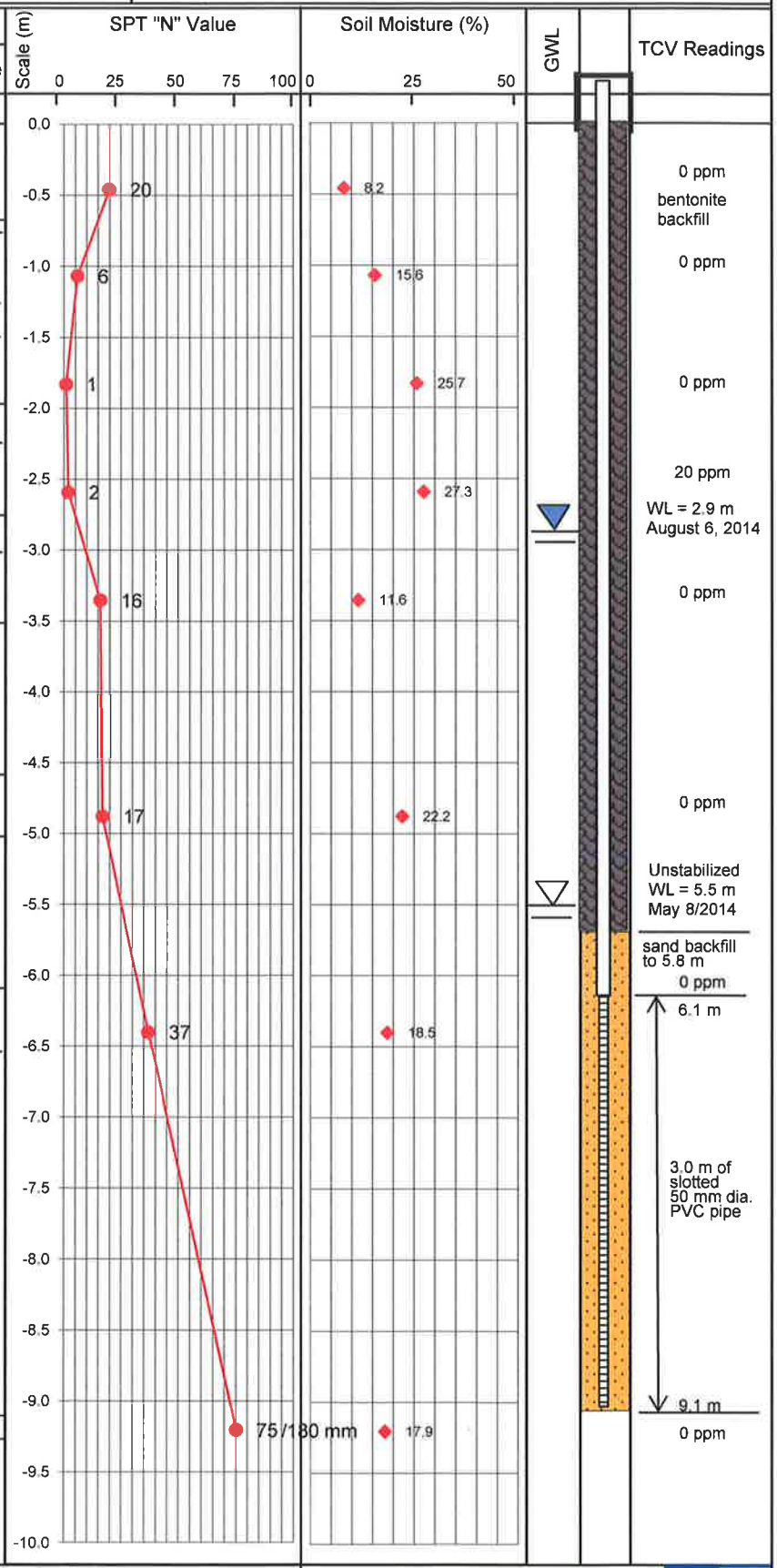
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LOG OF BOREHOLE NO. 3

Project No.:	14123	Drill Date:	May 8, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[x] solid stem [ ] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Sample No.	Sample Type	TCV Readings
Ground Surface		102.3			
FILL mixture of sand, gravel, some silt, moist, brown (Compact)		0.0	1	SS	0 ppm bentonite backfill
		101.5			
SILTY SAND (Possible Fill) medium to coarse, trace gravel, moist, brown (Very Loose to Loose)		0.8	2	SS	0 ppm
wet below ±1.5 m			3	SS	0 ppm
black to grey sand layer at ±2.2 m			4	SS	20 ppm WL = 2.9 m August 6, 2014
		99.3			
TILL clayey silt with sand and gravel, red shale fragments, very moist, reddish-brown, (Compact)		3.0	5	SS	0 ppm
coarse sand seam at ±4.5 m			6	SS	0 ppm
Dense clayey silt till with gravel sizes, red shale pieces, moist, unoxidized grey below ±6.0 m			7	SS	Unstabilized WL = 5.5 m May 8/2014 sand backfill to 5.8 m 0 ppm 6.1 m 3.0 m of slotted 50 mm dia. PVC pipe 9.1 m
		93.0	8	SS	
		9.3			0 ppm
BOREHOLE TERMINATED					



Notes:
1. On completion, borehole open to 9.3 m and water level at 5.5 m.
2. Water level measured at 2.9 mbg on Aug.6, 2014.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
PL = plastic limit LL = liquid limit PI = plasticity index FV = field vane LV = lab vane VS = vane sensitivity

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LOG OF BOREHOLE NO. 3S

Project No.:	14123	Drill Date:	June 16, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[x] solid stem [ ] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Sample No.	Sample Type	SPT "N" Value	Soil Moisture (%)	GWL	TCV Readings
Ground Surface		102.3						
FILL mixture of sand, gravel, some silt, moist, brown (Compact)		0.0 101.5	1	SS	20	8.2		0 ppm bentonite backfill
SILTY SAND (Possible Fill) medium to coarse, trace gravel, moist, brown (Very Loose to Loose)		0.8	2	SS	6	15.6		0 ppm sand backfill to 1.2 m
wet below ±1.5 m			3	SS	1	25.7		1.6 m 0 ppm
black to grey sand layer at ±2.2 m			4	SS	2	27.3		20 ppm
		99.3						
TILL mixture of silt, some sand, gravel and clay shale fragments, very moist, reddish-brown (Compact)		3.0	5	SS	16	11.6		0 ppm 3.0 m of slotted 50 mm dia. PVC pipe
coarse sand seam at ±4.5 m		97.7						
BOREHOLE TERMINATED		4.6						4.6 m

Scale (m): 0.0, -0.5, -1.0, -1.5, -2.0, -2.5, -3.0, -3.5, -4.0, -4.5, -5.0, -5.5, -6.0, -6.5, -7.0, -7.5, -8.0, -8.5, -9.0, -9.5, -10.0

SPT "N" Value: 0, 25, 50, 75, 100

Soil Moisture (%): 0, 25, 50

Notes:
1. On completion, borehole open to 4.6 m and dry.
2. Water level measured at 1.5 mbg on Aug.6, 2014.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
PL = plastic limit LL = liquid limit PI = plasticity index FV = field vane LV = lab vane VS = vane sensitivity

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LOG OF BOREHOLE NO. 4

Project No.:	14123	Drill Date:	May 8, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[x] solid stem [ ] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Samples No.	Samples Type	SPT "N" Value	Soil Moisture (%)	GWL	TCV Readings
Ground Surface		102.5						
FILL mixture of sand, gravel, some silt, coarse, rock, some concrete, moist, brown, (Compact) hydrocarbon odour at ±0.8 m		0.0	1	SS	50/75 mm	19.7		0 ppm
			2	SS	50 /125 mm	5.5		250 ppm
			3	SS	27	10.3		25 ppm
		100.4						
CLAYEY SILT very moist to wet,reddish brown, (Loose)		2.1	4	SS	6	23.9		0 ppm
		99.1	5	SS	9	18.6		0 ppm
TILL clayey silt with sand and gravel, red shale fragments, very moist, reddish-brown, (Compact) wet below ±4.5 m		3.4	6	SS	14	16.6		0 ppm
			7	SS	14	17.2		0 ppm
		96.0						
BOREHOLE TERMINATED		6.5						

Scale (m): 0.0, -0.5, -1.0, -1.5, -2.0, -2.5, -3.0, -3.5, -4.0, -4.5, -5.0, -5.5, -6.0, -6.5, -7.0, -7.5, -8.0, -8.5, -9.0, -9.5, -10.0

SPT "N" Value: 0, 25, 50, 75, 100

Soil Moisture (%): 0, 25, 50

Notes: 1. On completion, borehole open to 5.7 m and water level at 4.0 m.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
PL = plastic limit LL = liquid limit PI = plasticity index FV = field vane LV = lab vane VS = vane sensitivity

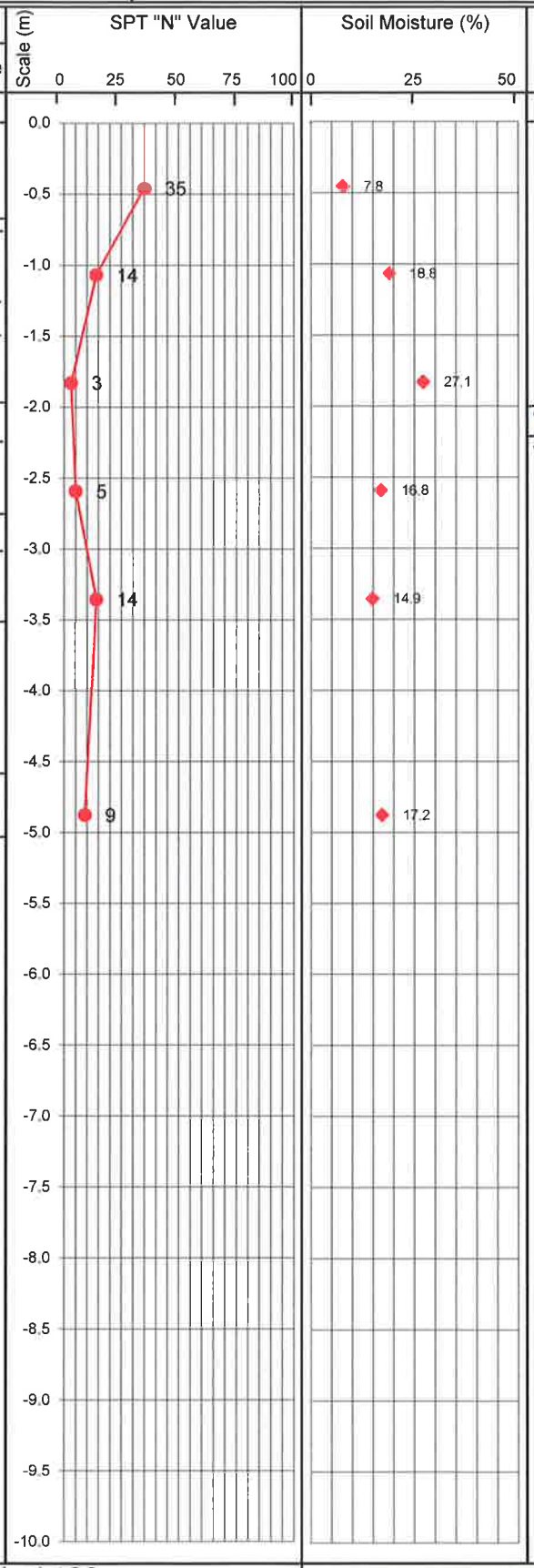
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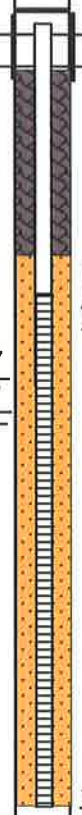
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LOG OF BOREHOLE NO. 5

Project No.:	14123	Drill Date:	May 8, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[x] solid stem [ ] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Samples No.	Samples Type
Ground Surface		101.6		
FILL mixture of sand, gravel, some silt, moist, brown (Compact)		0.0	1	SS
		100.8		
SAND fine to medium, well graded, moist, brown (Compact)		0.8	2	SS
		100.1		
CLAYEY SILT very moist, reddish brown (Very Loose)		1.5	3	SS
		99.1	4	SS
TILL clayey silt with sand and gravel, red shale fragments, very moist, reddish-brown (Compact)		2.5	5	SS
wet clayey silt below ±4.8 m		96.6	6	SS
BOREHOLE TERMINATED		5.0		





TCV Readings

0 ppm

bentonite backfill

0 ppm

sand backfill to 1.3 m

1.5 m

0 ppm

WL = 2.0 m May 9/2014 and 2.2 m Aug. 6, 2014

0 ppm

0 ppm

3.0 m of slotted 50 mm dia. PVC pipe

4.6 m

0 ppm

Notes:
1. On completion, borehole open to 4.6 m and water level at 2.0 m.
2. Water level measured at 2.2 mbg on Aug.6, 2014.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
PL = plastic limit LL = liquid limit PI = plasticity index FV = field vane LV = lab vane VS = vane sensitivity

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LOG OF BOREHOLE NO. 5D

Project No.:	14123	Drill Date:	June 16, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[x] solid stem [ ] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Sample No.	Sample Type	SPT "N" Value	Soil Moisture (%)	GWL	TCV Readings
Ground Surface		101.6						
FILL mixture of sand, gravel, some silt, moist, brown (Compact)		0.0 100.8	1	SS	35	7.8		0 ppm bentonite backfill
SAND fine to medium, well graded, moist, brown (Compact)		0.8 100.1	2	SS	14	18.8		0 ppm
CLAYEY SILT very moist, reddish brown (Very Loose)		1.5 99.1	3	SS	3	27.1		0 ppm WL = 2.5 m August 6/2014
TILL mixture of silt, some sand, gravel and clay shale fragments, very moist, reddish-brown (Stiff)		2.5	4	SS	5	16.8		0 ppm
			5	SS	14	14.9		0 ppm
			6	SS	9	17.2		0 ppm
			7	SS	14	18.3		sand backfill to 5.8 m 6.1 m
			8	SS	22	17.9		3.0 m of slotted 50 mm dia. PVC pipe
SHALE red, moist, layered, (Hard)		92.5 9.1	9	SS	50 /25 mm	7.8		
BOREHOLE TERMINATED		9.2						9.1 m

Scale (m): 0.0, -0.5, -1.0, -1.5, -2.0, -2.5, -3.0, -3.5, -4.0, -4.5, -5.0, -5.5, -6.0, -6.5, -7.0, -7.5, -8.0, -8.5, -9.0, -9.5, -10.0

SPT "N" Value: 0, 25, 50, 75, 100

Soil Moisture (%): 0, 25, 50

Notes:
1. On completion, borehole open to 9.1 m and dry.
2. Water level measured at 2.5 mbg on Aug.6, 2014.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
PL = plastic limit LL = liquid limit PI = plasticity index FV = field vane LV = lab vane VS = vane sensitivity

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LOG OF BOREHOLE NO. 6

Project No.:	14123	Drill Date:	May 8, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[x] solid stem [ ] hollow stem [ ] vibratory
Location:	101 Masonary Court, Burlington, Ontario	Datum:	

Material Description	Symbol	Elev. / Depth	Samples No.	Samples Type	SPT "N" Value	Soil Moisture (%)	GWL	TCV Readings
Ground Surface		101.8						
FILL mixture of sand, gravel, some silt, moist, brown (Compact)		0.0 101.1	1	SS	37	13.3		10 ppm
SAND fine to medium, well graded, moist, brown (Compact)		0.7 100.5	2	SS	10	22.5		bentonite backfill 0 ppm
TILL mixture of silt, some sand, gravel and clay shale fragments, very moist, reddish-brown (Very Stiff)		1.3	3	SS	6	19.3		WL = 1.6 m August 6/2014 0 ppm
			4	SS	20	13.7		0 ppm
			5	SS	17	13.6		0 ppm
Hard clayey silt, trace gravel sizes, unoxidized grey below ±4.9 m			6	SS	22	17.1		0 ppm
			7	SS	83 /200 mm	11.0		Unstabilized WL = 5.8 m May 9/2014 sand backfill to 5.8 m 6.1 m 0 ppm
SHALE (Queenston Formation) layered, brown/red, moist, (Hard)		92.5 9.1	8	SS	50 /75 mm	11.4		3.0 m of slotted 50 mm dia. PVC pipe 9.1 m
BOREHOLE TERMINATED		9.2						0 ppm

Scale (m): 0.0, -0.5, -1.0, -1.5, -2.0, -2.5, -3.0, -3.5, -4.0, -4.5, -5.0, -5.5, -6.0, -6.5, -7.0, -7.5, -8.0, -8.5, -9.0, -9.5, -10.0

SPT "N" Value: 0, 25, 50, 75, 100

Soil Moisture (%): 0, 25, 50

Notes:
1. On completion, borehole open to 9.2 m and water level at 5.8 m.
2. Water level measured at 1.6 mbg on Aug.6, 2014.

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LOG OF BOREHOLE NO. 6S

Project No.:	14123	Drill Date:	June 16, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[x] solid stem [ ] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Samples No.	Samples Type	SPT "N" Value	Soil Moisture (%)	GWL	TCV Readings
Ground Surface		101.8						
FILL mixture of sand, gravel, some silt, moist, brown (Compact)		0.0 101.1	1	SS	37	13.3		bentonite backfill 10 ppm
SAND fine to medium, well graded, moist, brown (Compact)		0.7 100.5	2	SS	10	22.5		WL = 1.5 m August 6/2014 0 ppm
TILL mix of clayey silt, sand, gravel, and shale fragments, very moist, reddish-brown (Loose to Compact)		1.3	3	SS	6	19.3		sand backfill to 1.2 m 1.6 m 0 ppm
			4	SS	20	13.7		0 ppm
			5	SS	17	13.6		0 ppm 3.0 m of slotted 50 mm dia. PVC pipe
Hard clayey silt, trace gravel sizes, unoxidized grey below ±4.9 m		97.2						
BOREHOLE TERMINATED		4.6						4.6 m

Scale (m): 0.0, -0.5, -1.0, -1.5, -2.0, -2.5, -3.0, -3.5, -4.0, -4.5, -5.0, -5.5, -6.0, -6.5, -7.0, -7.5, -8.0, -8.5, -9.0, -9.5, -10.0

SPT "N" Value: 0, 25, 50, 75, 100

Soil Moisture (%): 0, 25, 50

Notes:
1. On completion, borehole open to 4.6 m and dry.
2. Water level measured at 1.5 mbg on Aug.6, 2014.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
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LOG OF BOREHOLE NO. 6D

Project No.:	14123	Drill Date:	June 16, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[x] solid stem [ ] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Elev. Depth	Samples No.	Samples Type	SPT "N" Value	Soil Moisture (%)	TCV Readings
Ground Surface	101.8					
FILL mixture of sand, gravel, some silt, moist, brown (Compact)	0.0	1	SS	8	22.8	
	100.5					
TILL mixture of clayey silt, some sand and grave shale fragments, very moist, reddish-brown, (Loose to Compact below ±2.3 m)	1.3	2	SS	7	21.5	WL = 1.9 m August 6, 2014
		3	SS	23	12.3	bentonite backfill
		4	SS	17	13.6	
unoxidized grey below ±4.6 m		5	SS	19	9.7	
		6	SS	25	14.2	
very dense below ±6.0 m		7	SS	50/130 mm	9.6	
		8	SS	50 /100 mm	11.3	
	92.8					
SHALE (Queenston Formation) layered, green siltstone seams, red, moist, (Hard)	9.0	9	SS	50 /50 mm	9.5	
BOREHOLE ADVANCED FROM 9.9.m to 11.9 m by TRI CONE ON JULY 17, 2014						
	89.9					
BOREHOLE TERMINATED	11.9					

Scale (m): 0.0, -0.5, -1.0, -1.5, -2.0, -2.5, -3.0, -3.5, -4.0, -4.5, -5.0, -5.5, -6.0, -6.5, -7.0, -7.5, -8.0, -8.5, -9.0, -9.5, -10.0, -10.5, -11.0, -11.5, -12.0, -12.5, -13.0

SPT "N" Value: 0, 25, 50, 75, 100

Soil Moisture (%): 0, 25, 50

GWL

TCV Readings: sand backfill to 10.0 m; 10.4 m; 1.5 m of slotted 50 mm dia. PVC pipe; 11.9 m

Notes:
1. On completion, borehole open to 11.9 m .
2. Water level measured at 1.9 mbg on Aug.6, 2014.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
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LOG OF BOREHOLE NO. 7

Project No.:	14123	Drill Date:	May 9, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[ ] solid stem [x] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Samples No.	Samples Type	SPT "N" Value	Soil Moisture (%)	GWL	TCV Readings
Ground Surface		103.8						
±75 mm of topsoil		0.0						
FILL mixture of sand, gravel, some silt, moist, brown (Compact)		102.9	1	SS	13	12.8		5 ppm
SAND fine to medium, well graded, moist, brown (Compact)		0.9 101.7	2	SS	16	6.5		5 ppm
			3	SS	15	10.1		0 ppm
SILTY SAND AND GRAVEL coarse, trace rootlets, very moist, oxidized brown, (Compact)		2.1 100.8	4	SS	24	14.4		0 ppm
SILT fractured structure, clayey with clay seams, fine sand, very moist to wet, reddish-brown (Loose to Compact)		3.0 98.3	5	SS	11	18.0	▽	WL = 3.1 m May 9/2014 0 ppm
			6	SS	8	24.0		0 ppm
TILL clayey silt with gravel, red shale pieces, very moist, reddish-brown, (Compact)		5.5 97.2	7	SS	14	18.4		0 ppm
BOREHOLE TERMINATED		6.6						

Scale (m): 0.0, -0.5, -1.0, -1.5, -2.0, -2.5, -3.0, -3.5, -4.0, -4.5, -5.0, -5.5, -6.0, -6.5, -7.0, -7.5, -8.0, -8.5, -9.0, -9.5, -10.0

SPT "N" Value: 0, 25, 50, 75, 100

Soil Moisture (%): 0, 25, 50

Notes: 1. On completion, borehole open to 6.1 m and water level at 3.1 m.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
PL = plastic limit LL = liquid limit PI = plasticity index FV = field vane LV = lab vane VS = vane sensitivity

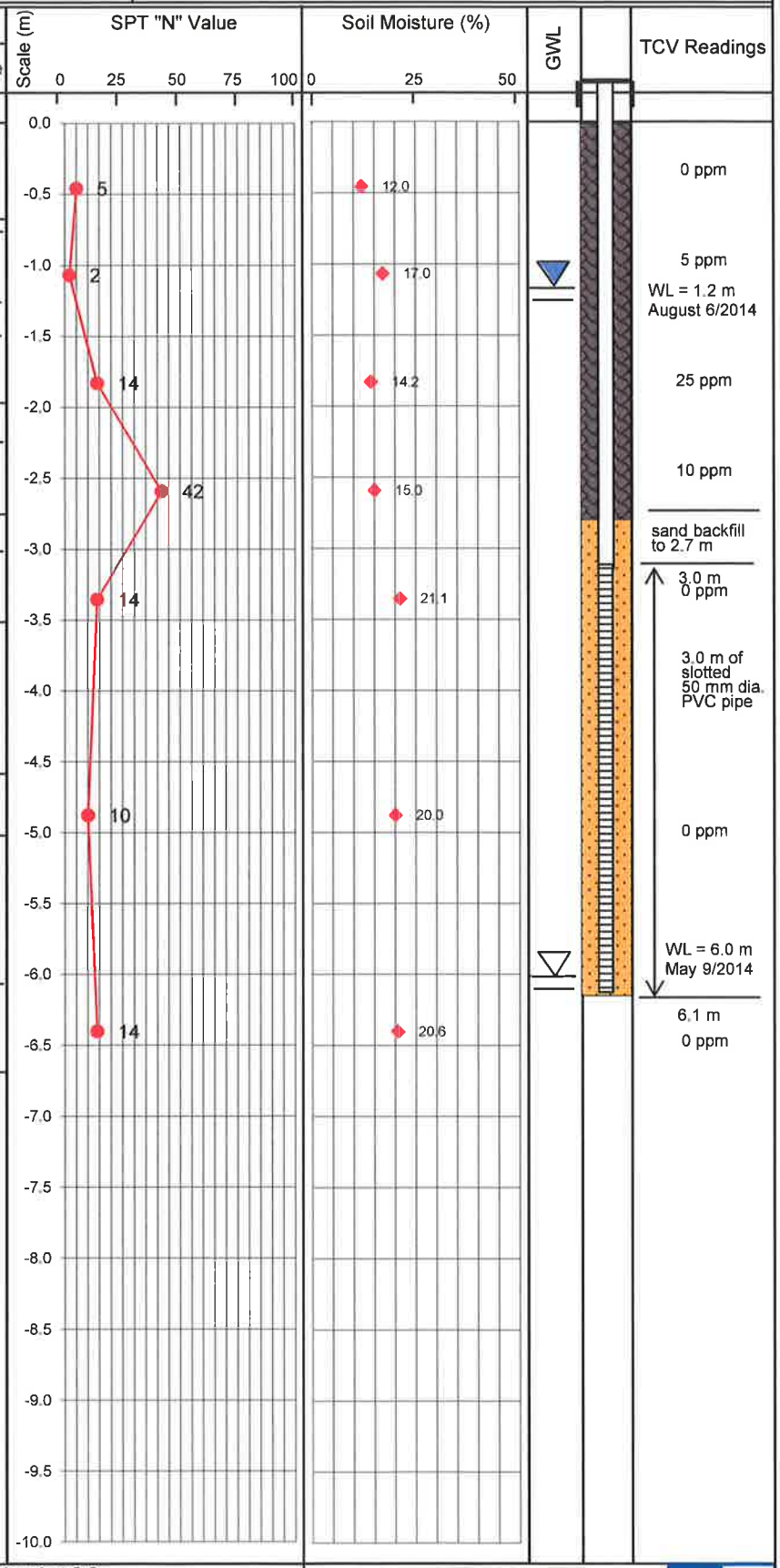
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LOG OF BOREHOLE NO. 8

Project No.:	14123	Drill Date:	May 9, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[ ] solid stem [x] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Sample No.	Sample Type
Ground Surface		103.3		
±75 mm of topsoil		0.0		
FILL mixture of sand, gravel, and silt, moist, brown (Loose to Very Loose)			1	SS
			2	SS
			3	SS
		101.2		
SAND medium to coarse, some silt and gravel sizes, very moist to wet, oxidized brown (Dense)		2.1	4	SS
		100.0	5	SS
SILT fractured, fine sand, very moist, reddish-brown, (Compact)		3.3 99.0		
TILL mixture of clay and silt, some gravel sizes, shale fragments, very moist to wet, reddish-brown (Compact)		4.3	6	SS
			7	SS
		96.7		
BOREHOLE TERMINATED		6.6		



Notes:
1. On completion, borehole open to 6.1 m and water level at 6.0 m.
2. Water level measured at 1.2 mbg on Aug.6, 2014.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
PL = plastic limit LL = liquid limit PI = plasticity index FV = field vane LV = lab vane VS = vane sensitivity

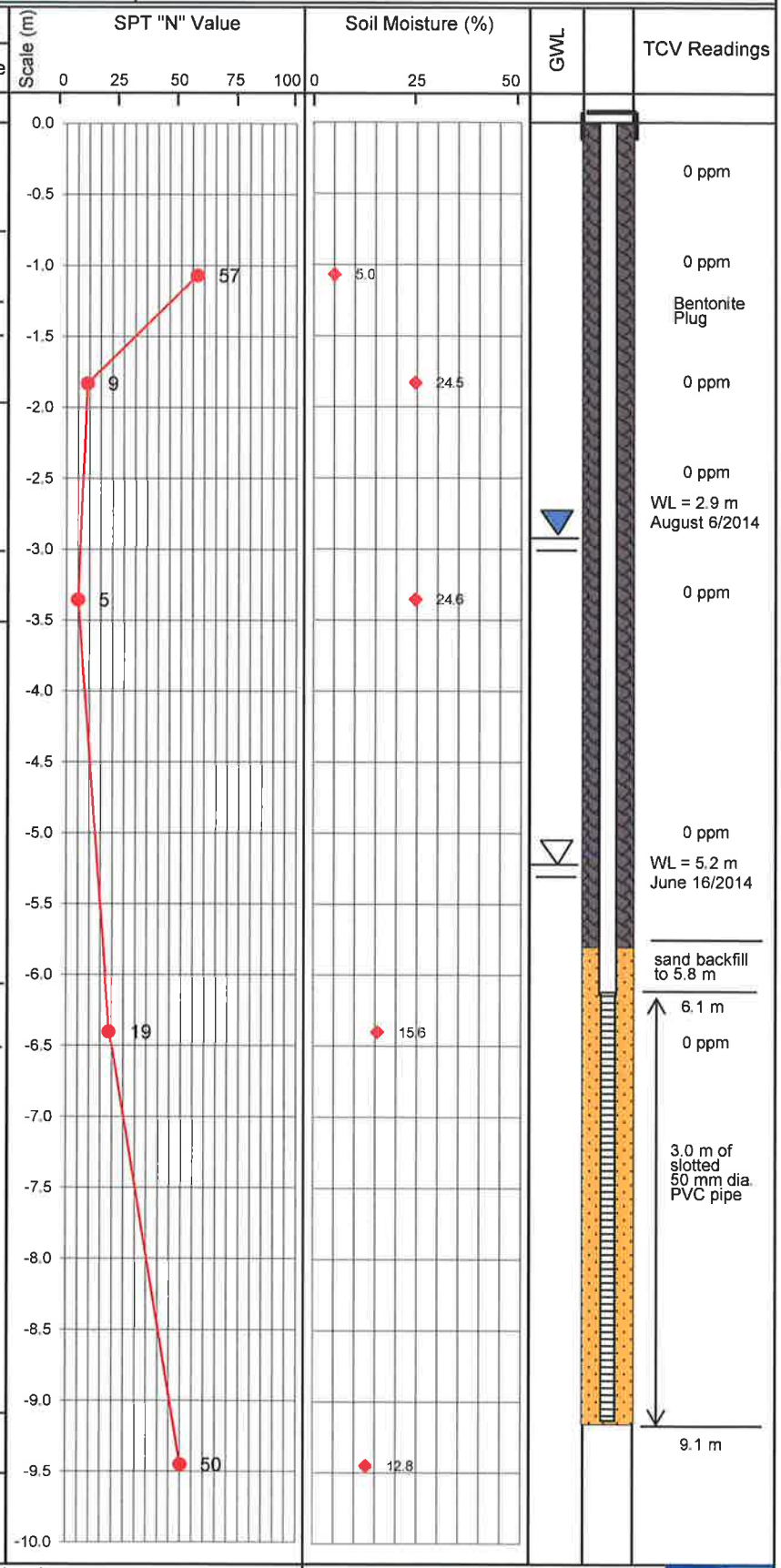
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LOG OF BOREHOLE NO. 10 D

Project No.:	14123	Drill Date:	June 16, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[ ] solid stem [x] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. Depth	Samples No.	Samples Type
Ground Surface		102.2		
FILL mixture of sand, gravel, concrete, and bituminous material, hydrocarbon odour, moist, (Loose)		0.0	1	SS
			2	SS
		100.3		
SILT sl. clayey with clay seams, gravel, reddish-brown, wet, dilatant, (Loose)		1.9	3	SS
		97.6		
TILL clayey silt with sand & gravel, red shale pieces, moist, reddish-brown, (Compact to Dense)		4.6	4	SS
unoxidized grey, & dense to very dense below ±9.0 m		92.7	5	SS
BOREHOLE TERMINATED		9.5		



Notes:
1. On completion, borehole open to 9.1 m and water level at 5.2 m.
2. Water level measured at 2.9 mbg on Aug.6, 2014.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
PL = plastic limit LL = liquid limit PI = plasticity index FV = field vane LV = lab vane VS = vane sensitivity

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LOG OF BOREHOLE NO. 10 S

Project No.:	14123	Drill Date:	June 17, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[ ] solid stem [x] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Samples No.	Samples Type	Scale (m)
Ground Surface		102.4			
FILL mixture of sand, gravel, concrete, and bituminous material, hydrocarbon odour, moist, (Loose)		0.0	1	SS	
			2	SS	
		100.5			
SILT sl. clayey with clay seams, gravel, reddish-brown, wet, dilatant, (Loose)		1.9	3	SS	
		97.8			
BOREHOLE TERMINATED		4.6			

SPT "N" Value: 0 25 50 75 100 — 57, 9, 5

Soil Moisture (%): 0 25 50 — 5.0, 24.5, 24.6

GWL

TCV Readings: 0 ppm; WL = 1.6 m August 6/2014; 0 ppm; sand backfill to 1.2 m; 1.6 m; 0 ppm; 0 ppm; 3.0 m of slotted 50 mm dia. PVC pipe; 0 ppm; 4.6 m

Notes:
1. On completion, borehole open to 4.6 m and dry.
2. Water level measured at 1.6 mbg on Aug.6, 2014.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
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LOG OF BOREHOLE NO. 11D

Project No.:	14123	Drill Date:	June 17, 2014
Project:	Phase Two Environmental Site Assessment	Drill Method:	[ ] solid stem [x] hollow stem [ ] vibratory
Location:	101 Masonry Court, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Samples No.	Samples Type	Scale (m)	SPT "N" Value	Soil Moisture (%)	GWL	TCV Readings
Ground Surface		101.2							
FILL mixture of sand, gravel, some silt, trace organics, moist, brown (Compact)		0.0	1	SS	0.0	20			0 ppm
					-0.5				WL = 0.9 m August 6/2014
			2	SS	-1.0	11			0 ppm
		99.9			-1.5				
SILTY SAND trace gravel, brown,wet, (Compact)		1.3 99.5	3	SS	-2.0	15			0 ppm
TILL mixture of silt and clay, trace gravel, red shale fragments, very moist, reddish-brown (Very Stiff to Hard)		1.7	4	SS	-2.5	18			20 ppm
unoxidized grey below ±2.5 m			5	SS	-3.0				0 ppm
					-3.5	27			
water seepage at ±3.6 m			6	SS	-4.0	33			bentonite backfill
					-4.5				
					-5.0				0 ppm
					-5.5				
					-6.0				sand backfill to 5.8 m
					-6.5				0 ppm 6.1 m
					-7.0				
					-7.5				3.0 m of slotted 50 mm dia. PVC pipe
					-8.0				
		92.7			-8.5				
SHALE queenston formation, red, weathered		8.5 92.1	7	SS	-9.0	50 /0 mm			9.1 m
BOREHOLE TERMINATED		9.1			-9.5				0 ppm
					-10.0				

Notes:
1. On completion, borehole open to 9.1 m and dry
2. Water level measured at 0.9 mbg on Aug.6, 2014.

PP = pocket penetrometer TCV = total combustible vapour BRD = bulk relative density
PL = plastic limit LL = liquid limit PI = plasticity index FV = field vane LV = lab vane VS = vane sensitivity

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Test Pit Logs

Test Pit ID	Stratigraphy	Water Level (mbg)	Depth of Cave (mbg)	TCV Reading
	Excavated June 15, 2014			
TP1	0.0-1.5 m – FILL: Sand and gravel, trace silt, trace wires, brown/grey, moist. 1.2-1.5 m – Black zone of bituminous sand and gravel. 1.5-1.8 m – Sand, trace to some silt, brown, very moist to wet. 1.8-2.2 m – Silt, some sand, trace clay, red/brown, moist to wet.	2.0	2.0	150 ppm 10 LEL 25 ppm 25 ppm
TP2	0.0-1.0 m – FILL: Sand and gravel, trace silt, trace wires, brown/grey, moist. 1.0-1.5 m – Black zone of bituminous sand and gravel. 1.5-2.1 m – Sand, trace to some silt, brown, very moist to wet. 2.1-2.3 m – Silt, some sand, trace clay, red/brown, moist to wet.	2.0	2.0	250 ppm 450 ppm 25 ppm 15 ppm
TP3	0.0-2.5 m – FILL: Sand and gravel, trace silt, concrete, wires, asphalt, brown/black, moist. 1.0-1.3 m – Black zone of bituminous sand and gravel. 2.5-2.7 m –Silt, some clay, trace sand, red/brown, moist to wet.	2.0	2.6	150 ppm 400 ppm 25 ppm
TP4	0.0-2.8 m – FILL: Sand and gravel, trace silt, concrete, metal, glass, asphalt, brown/black, moist. 0.9-1.3 m – Black zone of bituminous sand and gravel. 2.0-2.5 m – Concrete slab 2.8-3.0 m –Sandy silt, trace clay, red/brown, moist to wet.	2.8	2.8	250 ppm 20 LEL 15 ppm
TP5	0.0-2.0 m – FILL: Sand and gravel, trace silt, concrete, metal, glass, asphalt, brown/black, moist. 1.3-1.5 m – Black zone of bituminous sand and gravel, some asphalt. 2.0-2.3 m – Silt, some clay, trace sand, red/brown, moist to wet.	2.3	2.3	50 ppm 40 LEL 15 ppm
TP6	0.0-1.8 m – FILL: Sand and gravel, trace silt, concrete, metal, plastic, asphalt, brown/black, moist. 1.2-1.5 m – Black zone of bituminous sand and gravel, some asphalt. 1.8-2.0 m – Silt, some clay, trace sand, red/brown, moist to wet.	1.8	1.9	50 ppm 450 ppm Non-Detect
TP7	0.0-2.2 m – FILL: Sand and gravel, trace silt, concrete, metal, plastic, asphalt, brown/black, moist. 1.0-1.3 m – Black zone of bituminous sand and gravel, some asphalt. 1.5-1.8 m – Sand, trace silt, gravel, concrete, brown/black, moist. 2.2-2.4 m – Silt, some clay, trace sand, red/brown, moist to wet.	2.4	2.4	100 ppm 10 LEL 250 ppm Non-Detect

Test Pit ID	Stratigraphy	Water Level (mbg)	Depth of Cave (mbg)	TCV Reading
TP8	0.0-1.8 m – FILL: Sand and gravel, trace silt, concrete, asphalt, brown, moist. 1.2-1.6 m – Black zone of bituminous sand and gravel, some asphalt. 1.8-2.2 m – Sand, trace silt, gravel, brown, moist. 2.2-2.3 m – Silt, some sand, trace clay, red/brown, moist to wet.	2.1	2.1	100 ppm 10 LEL Non-Detect Non-Detect
TP9	0.0-1.3 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 0.6-0.7 m – Black sand seam. 1.3-1.6 m – Sand, some silt, trace gravel, brown, very moist.	1.6	1.2	Non-Detect Non-Detect
TP10	0.0-1.5 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 0.7-0.8 m – Black sand seam. 1.5-1.7 m – Sand, some silt, trace gravel, brown, very moist.	1.7	1.5	Non-Detect Non-Detect
TP11	0.0-0.9 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 0.9-1.5 m – Sand, trace silt, gravel, brown, very moist to wet.	1.5	1.2	Non-Detect Non-Detect
TP12	0.0-0.9 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 0.9-1.5 m – Silty sand, trace gravel, brown, wet.	1.5	1.2	Non-Detect Non-Detect
TP13	0.0-1.2 m – FILL: Sand and gravel, trace silt, concrete, wires, brown, moist. 1.2-1.5 m – Sand, trace silt, gravel, brown, very moist to wet.	1.2	1.2	Non-Detect Non-Detect
TP14	0.0-0.8 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 0.6-0.7 m – Black sand seam. 0.8-1.6 m – Sand, trace silt, gravel, brown, very moist to wet.	1.5	0.9	Non-Detect Non-Detect
TP15	0.0-0.9 m – FILL: Sand and gravel, trace silt, concrete, asphalt, brown, moist. 0.9-1.6 m – Sand, some silt, trace gravel, brown, wet.	1.5	1.0	Non-Detect Non-Detect
TP16	0.0-1.2 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 1.2-1.5 m – Silty sand, trace gravel, brown, very moist to wet.	1.5	1.3	Non-Detect Non-Detect
Excavated June 16, 2014				
TP17	0.0-2.3 m – FILL: Sand and gravel, trace silt, concrete, metal, asphalt, brown/grey, moist. 1.4-1.7 - Black to grey zone of bituminous sand and gravel, trace clay. 2.3-2.5 m – Silt, some clay, trace sand, red/brown, very moist to wet.	2.5	2.5	10 ppm 400 ppm Non-Detect
TP18	0.0-2.1 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 1.4-1.7 - Black to grey zone of bituminous sand and gravel, trace concrete. 2.1-2.4 m – Silt, trace clay, sand, red, very moist to wet.	1.5	2.4	20 ppm 10 LEL Non-Detect

Test Pit ID	Stratigraphy	Water Level (mbg)	Depth of Cave (mbg)	TCV Reading
TP19	0.0-1.8 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 1.8-2.0 m – Silt, some clay, trace sand, red, wet.	2.0	1.8	15 ppm Non-Detect
TP20	0.0-1.5 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 1.5-2.3 m – FILL: Sand, some gravel, trace silt, wood, metal, concrete, brown to black, moist. 2.3-2.5 m – Silt with some clay, trace sand, brown, very moist to wet.	2.0	2.1	10 ppm 5 ppm Non-Detect
TP21	0.0-2.0 m – FILL: Sand and gravel, trace silt, concrete, asphalt, wood, metal, brown/grey, moist. 2.0-2.3 m – Silt, some clay, trace sand, brown, very moist to wet.	2.0	2.3	20 ppm Non-Detect
TP22	0.0-2.3 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 1.0-1.4 m - Black to grey zone of bituminous sand and gravel, trace concrete. 1.6-1.8 m - Black to grey zone of bituminous sand and gravel, trace concrete. 2.1-2.4 m – Silt, trace clay, sand, red, very moist to wet.	1.5	2.4	25 ppm 100 ppm 50 ppm Non-Detect
TP23	0.0-1.8 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 1.8-2.0 m – Silty sand, trace gravel, brown, very moist to wet.	2.0	2.0	25 ppm Non-Detect
Excavated July 22, 2014				
TP24	0.0-1.2 m – FILL: Sand and gravel, trace silt, grey/black to brown, moist. 1.2-1.8 m –Sand, trace silt, brown, wet.	1.5	1.5	NA
TP25	0.0-1.2 m – FILL: Sand and gravel, trace silt, grey/black to brown, moist, moist. 1.2-1.8 m – Sand, some gravel, trace silt, brown, wet.	1.5	1.5	NA
TP26	0.0-1.8 m – FILL: Sand and gravel, trace silt, brick, concrete, brown, moist. 1.8-2.1 m – Sand, trace gravel, brown, wet.	1.8	None	NA
TP27	0.0-0.8 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 0.8-1.1 m – FILL: Silt, trace clay, gravel, concrete, wood, brown, moist. 1.1-2.0 m – Silty clay, trace gravel, red, moist.	Dry	None	NA
TP28	0.0-0.8 m – FILL: Concrete slab – unable to excavate further.	Dry	None	NA
TP29	0.0-0.6 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 0.6-1.2 m – Sand, trace gravel, brown, moist to wet. 1.2-1.8 m – Silt, some clay, trace gravel, sand, red, moist.	1.2	None	NA
TP30	0.0-3.0 m – FILL: Sand and gravel, some concrete, grey, moist to wet.	1.5	2.4	NA
TP31	0.0-0.3 m – FILL: Sand and gravel, trace silt, concrete, brown, moist. 0.3-1.2 m – Silt, some clay, trace gravel, sand, red, moist.	Dry	None	NA

Test Pit ID	Stratigraphy	Water Level (mbg)	Depth of Cave (mbg)	TCV Reading
TP32	0.0-0.5 m – FILL: Sand and gravel, trace silt, organics, brown, moist. 0.5-1.5 m – Sand, trace gravel, brown, moist to wet. 1.5-1.8 m – Silt, some clay, trace gravel, sand, red, moist.	1.5	None	NA
TP33	0.0-1.1 m – FILL: Silt, some clay, gravel, trace organics, brown, moist. 1.1-1.5 m – Silt, some clay, trace gravel, sand, red, moist.	Dry	None	NA
TP34	0.0-1.2 m – FILL: Sand and gravel, trace silt, organics, brown, moist. 1.2-1.8 m – Sand, trace gravel, brown, moist to wet. 1.8-2.1 m – Clayey silt, trace sand, red, moist.	1.5	1.8	NA
TP35	0.0-0.8 m – FILL: Sand and gravel, trace concrete, brown with some black staining, moist. 0.8-1.8 m – Sand, trace gravel, brown, moist to wet.	1.2	None	5 ppm
TP36	0.0-1.1 m – FILL: Sand and gravel, trace silt, brown, moist. 1.1-1.7 m – Sand, trace gravel, brown, moist to wet. 1.7-2.3 m – Clayey silt, trace sand, red, moist.	1.5	2.0	NA
TP37	0.0-1.1 m – FILL: Sand and gravel, trace silt, concrete, brick, brown, moist. 1.1-1.5 m – Sand, trace gravel, brown, moist to wet. 1.5-2.0 m – Clayey silt, trace sand, red, moist.	1.5	None	NA
TP38	0.0-0.8 m – FILL: Sand and gravel, trace silt, brown with some black staining, moist. 0.8-1.4 m – Sand, trace gravel, brown, moist to wet. 1.4-1.7 m – Clayey silt, trace sand, red, moist.	Dry	None	NA
TP39	0.0-0.8 m – FILL: Sand and gravel, trace silt, brown, moist. 0.8-1.4 m – Sand, trace gravel, brown, moist to wet. 1.4-1.5 m – Sandy silt, some clay, red, moist.	Dry	None	NA
TP40	0.0-0.9 m – FILL: Sand and gravel, trace silt, brown with some dark staining, moist. 0.9-1.8 m – Sand and gravel, trace silt, brown, wet. 1.8-2.0 m – Sandy silt, some clay, red, moist.	Dry	None	NA
TP41	0.0-0.6 m – FILL: Sand and gravel, trace silt, brown, moist. 0.6-1.2 m – Sand, trace silt, brown, wet. 1.2-1.8 m – Clayey silt, trace sand, red/brown, moist.	Dry	None	NA

APPENDIX C

CERTIFICATES OF ANALYSIS

BOREHOLES & TESPITS

AGAT Laboratories

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CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Freesia Waxman

PROJECT: 14123

AGAT WORK ORDER: 14H838514

SOIL ANALYSIS REVIEWED BY: Anthony Dapaah, PhD (Chem), Inorganic Lab Manager

TRACE ORGANICS REVIEWED BY: Inga Kuzmina, Trace Organics Lab Manager

DATE REPORTED: May 20, 2014

PAGES (INCLUDING COVER): 23

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Results relate only to the items tested and to all the items tested

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Certificate of Analysis

AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2014-05-12 **DATE REPORTED: 2014-05-20**

		SAMPLE DESCRIPTION:		BH1 SS1	BH2 SS1	BH3 SS1	BH4 SS3	Duplicate 1	BH5 SS1	BH6 SS1	BH7 SS1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014
Parameter	Unit	G / S	RDL	5358525	5358560	5358566	5358618	5358632	5358641	5358646	5358694
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	**12.6**	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	5	4	4	9	7	4	4	4
Barium	µg/g	390	2	79	157	44	106	94	38	129	46
Beryllium	µg/g	4	0.5	0.6	1.4	<0.5	0.6	0.5	<0.5	1.3	<0.5
Boron	µg/g	120	5	10	15	7	14	13	7	14	8
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.32	0.57	0.20	**3.39**	**2.53**	0.17	1.21	0.29
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	2	14	12	8	11	11	7	7	10
Cobalt	µg/g	22	0.5	7.3	3.4	3.6	6.6	5.7	3.1	2.4	5.2
Copper	µg/g	140	1	32	26	21	**205**	**205**	19	17	21
Lead	µg/g	120	1	24	65	32	26	87	33	33	19
Molybdenum	µg/g	6.9	0.5	0.8	0.9	0.5	1.0	1.1	0.5	0.6	0.6
Nickel	µg/g	100	1	14	9	5	12	11	4	2	10
Selenium	µg/g	2.4	0.4	0.5	0.7	<0.4	0.7	0.6	<0.4	1.0	0.5
Silver	µg/g	20	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	µg/g	1	0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Uranium	µg/g	23	0.5	<0.5	1.3	<0.5	0.6	0.5	<0.5	1.0	<0.5
Vanadium	µg/g	86	1	21	13	12	19	18	12	10	16
Zinc	µg/g	340	5	133	95	210	56	45	88	106	54
Chromium VI	µg/g	8	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	0.13	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.143	0.356	0.123	0.271	0.222	0.110	0.450	0.201
Sodium Adsorption Ratio (2:1)	NA	5	NA	0.120	0.170	0.137	0.376	0.396	0.134	0.302	0.118
pH, 2:1 CaCl2 Extraction	pH Units			8.08	10.2	8.53	9.16	8.68	8.38	10.5	8.38

Certified By: Tony Nash

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2014-05-12

DATE REPORTED: 2014-05-20

		SAMPLE DESCRIPTION:		BH8 SS1	BH9 SS1	SA1W	SA1N	SA1E	Duplicate SP 1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014
Parameter	Unit	G / S	RDL	5358709	5358769	5359012	5359016	5359019	5360866
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	6	4	5	6	6	6
Barium	µg/g	390	2	73	43	106	96	87	102
Beryllium	µg/g	4	0.5	0.5	<0.5	0.6	0.7	0.6	0.7
Boron	µg/g	120	5	9	8	8	10	10	9
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.28	0.34	0.13	0.29	0.19	0.15
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	2	14	10	18	18	15	19
Cobalt	µg/g	22	0.5	7.1	5.7	10.9	10.4	7.3	10.9
Copper	µg/g	140	1	29	19	35	36	40	38
Lead	µg/g	120	1	74	9	18	15	38	17
Molybdenum	µg/g	6.9	0.5	0.8	<0.5	0.6	0.6	0.8	0.5
Nickel	µg/g	100	1	18	11	21	21	13	22
Selenium	µg/g	2.4	0.4	0.4	0.4	<0.4	0.5	<0.4	<0.4
Silver	µg/g	20	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	µg/g	1	0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Uranium	µg/g	23	0.5	<0.5	<0.5	<0.5	0.6	0.5	0.6
Vanadium	µg/g	86	1	21	18	27	27	22	28
Zinc	µg/g	340	5	133	36	68	77	139	74
Chromium VI	µg/g	8	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.144	0.153	0.148	0.147	0.116	0.147
Sodium Adsorption Ratio (2:1)	NA	5	NA	0.071	0.119	0.246	0.236	0.096	0.129
pH, 2:1 CaCl2 Extraction	pH Units			8.13	7.73	7.95	8.02	7.95	7.87

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5358525-5358566 EC & SAR were determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio.

5358618-5358632 EC & SAR were determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio.

Please note that the antimony and lead values were confirmed by re-analysis.

5358641-5360866 EC & SAR were determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio.

Certified By: Tony Trach

Results relate only to the items tested and to all the items tested

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AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - OC Pesticides (Soil)

DATE RECEIVED: 2014-05-12

DATE REPORTED: 2014-05-20

		SAMPLE DESCRIPTION:		SA3W	SA3N	SA3E	Duplicate SP3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		5/8/2014	5/8/2014	5/8/2014	5/8/2014
Parameter	Unit	G / S	RDL	5359014	5359018	5359031	5360881
Gamma-Hexachlorocyclohexane	µg/g	0.056	0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor	µg/g	0.15	0.005	<0.005	<0.005	<0.005	<0.005
Aldrin	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor Epoxide	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan	µg/g	0.04	0.005	<0.005	<0.005	<0.005	<0.005
Chlordane	µg/g	0.05	0.007	<0.007	<0.007	<0.007	<0.007
DDE	µg/g	0.26	0.007	<0.007	<0.007	<0.007	<0.007
DDD	µg/g	3.3	0.007	<0.007	<0.007	<0.007	<0.007
DDT	µg/g	1.4	0.007	<0.007	<0.007	<0.007	<0.007
Dieldrin	µg/g	0.05	0.005	<0.005	<0.005	<0.005	<0.005
Endrin	µg/g	0.04	0.005	<0.005	<0.005	<0.005	<0.005
Methoxychlor	µg/g	0.13	0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobenzene	µg/g	0.52	0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobutadiene	µg/g	0.012	0.01	<0.01	<0.01	<0.01	<0.01
Hexachloroethane	µg/g	0.089	0.01	<0.01	<0.01	<0.01	<0.01
Moisture Content	%		0.1	3.8	8.5	13.0	10.4
Surrogate	**Unit**	**Acceptable Limits**					
TCMX	%	50-140		89	65	99	70
Decachlorobiphenyl	%	60-130		98	81	84	77

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5359014-5360881 Results are based on the dry weight of the soil.
Note: DDT applies to the total of op'DDT and pp'DDT, DDD applies to the total of op'DDD and pp'DDD and DDE applies to the total of op'DDE and pp'DDE. Endosulfan applies to the total of Endosulfan I and Endosulfan II.
Chlordane applies to the total of Alpha-Chlordane and Gamma-Chlordane.

Certified By:

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AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2014-05-12 **DATE REPORTED: 2014-05-20**

		SAMPLE DESCRIPTION:		BH1 SS1	BH2 SS1	BH3 SS2	Duplicate 2	BH4 SS2	BH5 SS1	BH6 SS1	BH7 SS1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014
Parameter	**Unit**	**G / S**	**RDL**	**5358525**	**5358560**	**5358567**	**5358568**	**5358603**	**5358641**	**5358646**	**5358694**
Naphthalene	µg/g	0.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	7.9	0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	6.2	0.05	0.05	0.73	<0.05	<0.05	<0.05	<0.05	<0.05	0.05
Anthracene	µg/g	0.67	0.05	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	0.12	**1.2**	<0.05	<0.05	<0.05	<0.05	<0.05	0.12
Pyrene	µg/g	78	0.05	0.10	1.0	<0.05	<0.05	<0.05	<0.05	<0.05	0.10
Benz(a)anthracene	µg/g	0.5	0.05	0.05	0.49	<0.05	<0.05	<0.05	<0.05	<0.05	0.06
Chrysene	µg/g	7	0.05	0.07	0.49	<0.05	<0.05	<0.05	<0.05	<0.05	0.07
Benzo(b)fluoranthene	µg/g	0.78	0.05	0.05	0.53	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	0.06	0.65	<0.05	<0.05	<0.05	<0.05	<0.05	0.07
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	**0.40**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	<0.05	0.13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	6.6	0.05	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	0.99	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	13.3	9.1	15.4	15.8	6.0	7.3	12.7	13.0
Surrogate	**Unit**	**Acceptable Limits**									
Chrysene-d12	%	50-140		101	68	126	89	83	88	101	94

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2014-05-12

DATE REPORTED: 2014-05-20

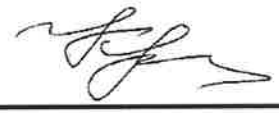
		SAMPLE DESCRIPTION:		BH8 SS1	BH9 SS3	SA2W	SA2N	SA2E	Duplicate SP2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014
Parameter	**Unit**	**G / S**	**RDL**	**5358709**	**5358778**	**5359013**	**5359017**	**5359021**	**5360882**
Naphthalene	µg/g	0.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	7.9	0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05	0.07	<0.05
Phenanthrene	µg/g	6.2	0.05	0.08	<0.05	0.06	0.60	1.1	0.09
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05	0.12	0.23	<0.05
Fluoranthene	µg/g	0.69	0.05	0.18	<0.05	0.12	**1.3**	**2.1**	0.20
Pyrene	µg/g	78	0.05	0.17	<0.05	0.09	1.0	1.6	0.16
Benz(a)anthracene	µg/g	0.5	0.05	0.12	<0.05	0.05	**0.62**	**0.97**	0.09
Chrysene	µg/g	7	0.05	0.14	<0.05	0.06	0.64	0.98	0.10
Benzo(b)fluoranthene	µg/g	0.78	0.05	0.11	<0.05	<0.05	0.39	0.71	0.07
Benzo(k)fluoranthene	µg/g	0.78	0.05	0.14	<0.05	0.06	0.56	**0.87**	0.10
Benzo(a)pyrene	µg/g	0.3	0.05	0.10	<0.05	<0.05	**0.44**	**0.74**	0.07
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	<0.05	<0.05	<0.05	0.16	0.27	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	6.6	0.05	<0.05	<0.05	<0.05	0.15	0.27	<0.05
2-and 1-methyl Naphthalene	µg/g	0.99	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	11.7	15.0	9.4	10.8	11.4	9.7
Surrogate	**Unit**	**Acceptable Limits**							
Chrysene-d12	%	50-140		88	91	90	84	80	108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5358525-5360882 Results are based on the dry weight of the soil.

Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

Certified By:



Results relate only to the items tested and to all the items tested

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AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - PCBs (Soil)

DATE RECEIVED: 2014-05-12

DATE REPORTED: 2014-05-20

		SAMPLE DESCRIPTION:		BH1 SS4	BH6 SS2	Duplicate 3	BH7 SS1	BH9 SS1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014
Parameter	**Unit**	**G / S**	**RDL**	**5358558**	**5358651**	**5358688**	**5358694**	**5358769**
Aroclor 1242	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	µg/g		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polychlorinated Biphenyls	µg/g	0.35	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Moisture Content	%		0.1	4.1	4.5	4.4	13.0	4.7
Surrogate	**Unit**	**Acceptable Limits**						
Decachlorobiphenyl	%	60-140		112	124	120	121	111

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current
5358558-5358769 Results are based on the dry weight of soil extracted.

Certified By:



Results relate only to the items tested and to all the items tested

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AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)

DATE RECEIVED: 2014-05-12

DATE REPORTED: 2014-05-20

		SAMPLE DESCRIPTION:		BH1 SS2	Duplicate 4	BH2 SS2	BH3 SS4	BH5 SS2	BH6 SS3	BH7 SS2	BH8 SS3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014
Parameter	**Unit**	**G / S**	**RDL**	5358549	5358555	5358562	5358599	5358644	5358654	5358705	5358720
F1 (C6 to C10)	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	98	10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	300	50	160	150	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	2800	50	<50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	2800	50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	8.6	10.6	14.2	16.6	14.7	15.3	8.1	11.4
Surrogate	**Unit**	**Acceptable Limits**									
Terphenyl	%	60-140		94	63	99	102	99	103	96	120

		SAMPLE DESCRIPTION:		BH8 SS4	Duplicate 5	BH9 SS4
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		5/8/2014	5/8/2014	5/8/2014
Parameter	**Unit**	**G / S**	**RDL**	5358736	5358758	5358783
F1 (C6 to C10)	µg/g		5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5	<5	<5	<5
F2 (C10 to C16)	µg/g	98	10	<10	<10	<10
F3 (C16 to C34)	µg/g	300	50	<50	<50	<50
F4 (C34 to C50)	µg/g	2800	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	2800	50	NA	NA	NA
Moisture Content	%		0.1	11.8	10.9	16.5
Surrogate	**Unit**	**Acceptable Limits**				
Terphenyl	%	60-140		87	77	81

Certified By:

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AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)

DATE RECEIVED: 2014-05-12

DATE REPORTED: 2014-05-20

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5358549-5358783 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
Total C6 - C50 results are corrected for BTEX contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Certified By:

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)

DATE RECEIVED: 2014-05-12 **DATE REPORTED: 2014-05-20**

		SAMPLE DESCRIPTION:		BH4 SS2
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		5/8/2014
Parameter	Unit	G / S	RDL	5358603
F1 (C6 to C10)	µg/g		5	130
F1 (C6 to C10) minus BTEX	µg/g	55	5	**130**
F2 (C10 to C16)	µg/g	98	10	<10
F2 (C10 to C16) minus Naphthalene	µg/g	98	10	<10
F3 (C16 to C34)	µg/g	300	50	<50
F3 (C16 to C34) minus PAHs	µg/g	300	50	<50
F4 (C34 to C50)	µg/g	2800	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	2800	50	NA
Moisture Content	%		0.1	6.0
Surrogate	**Unit**	**Acceptable Limits**		
Terphenyl	%	60-140		92

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5358603 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Certified By:

Results relate only to the items tested and to all the items tested

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AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2014-05-12 **DATE REPORTED: 2014-05-20**

		SAMPLE DESCRIPTION:		BH1 SS2	Duplicate 4	BH2 SS2	BH3 SS4	BH4 SS2	BH5 SS2	BH6 SS3	BH7 SS2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014
Parameter	Unit	G / S	RDL	5358549	5358555	5358562	5358599	5358603	5358644	5358654	5358705
Dichlorodifluoromethane	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	16	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.084	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	3.5	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	16	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	3.4	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	0.38	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.21	0.02	<0.02	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.061	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	1.7	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	0.16	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	0.28	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.058	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	2	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	2.5	<0.05	<0.05	<0.05
Bromoform	ug/g	0.27	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By:

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AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2014-05-12

DATE REPORTED: 2014-05-20

		SAMPLE DESCRIPTION:		BH1 SS2	Duplicate 4	BH2 SS2	BH3 SS4	BH4 SS2	BH5 SS2	BH6 SS3	BH7 SS2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014	5/8/2014
Parameter	**Unit**	**G / S**	**RDL**	**5358549**	**5358555**	**5358562**	**5358599**	**5358603**	**5358644**	**5358654**	**5358705**
Styrene	ug/g	0.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	4.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.083	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	3.1	0.05	<0.05	<0.05	<0.05	<0.05	2.6	<0.05	<0.05	<0.05
1,3-Dichloropropene	µg/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	2.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	50-140		102	104	108	102	98	101	103	103
4-Bromofluorobenzene	% Recovery	50-140		87	85	87	90	97	88	87	87

Certified By:



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AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2014-05-12

DATE REPORTED: 2014-05-20

		SAMPLE DESCRIPTION:		BH8 SS3	BH8 SS4	Duplicate 5	BH9 SS4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		5/8/2014	5/8/2014	5/8/2014	5/8/2014
Parameter	Unit	G / S	RDL	5358720	5358736	5358758	5358783
Dichlorodifluoromethane	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4	0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	16	0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.084	0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	3.5	0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	16	0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	3.4	0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	0.38	0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.21	0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.061	0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	1.7	0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	0.28	0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.058	0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.4	0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	2	0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	0.27	0.05	<0.05	<0.05	<0.05	<0.05

Certified By:



Results relate only to the items tested and to all the items tested

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Certificate of Analysis

AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2014-05-12

DATE REPORTED: 2014-05-20

		SAMPLE DESCRIPTION:		BH8 SS3	BH8 SS4	Duplicate 5	BH9 SS4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		5/8/2014	5/8/2014	5/8/2014	5/8/2014
Parameter	Unit	G / S	RDL	5358720	5358736	5358758	5358783
Styrene	ug/g	0.7	0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	4.8	0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.083	0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	3.1	0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene	µg/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	2.8	0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**					
Toluene-d8	% Recovery	50-140		102	106	104	104
4-Bromofluorobenzene	% Recovery	50-140		84	87	86	84

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5358549-5358783 The sample was analysed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.

Certified By:



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Guideline Violation

AGAT WORK ORDER: 14H838514

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
5358560	BH2 SS1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	0.40
5358560	BH2 SS1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	1.2
5358603	BH4 SS2	T3(RPI) - Current	O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)	F1 (C6 to C10) minus BTEX	55	130
5358618	BH4 SS3	T3(RPI) - Current	O. Reg. 153(511) - Metals & Inorganics (Soil)	Boron (Hot Water Soluble)	1.5	3.39
5358618	BH4 SS3	T3(RPI) - Current	O. Reg. 153(511) - Metals & Inorganics (Soil)	Copper	140	205
5358632	Duplicate 1	T3(RPI) - Current	O. Reg. 153(511) - Metals & Inorganics (Soil)	Antimony	7.5	12.6
5358632	Duplicate 1	T3(RPI) - Current	O. Reg. 153(511) - Metals & Inorganics (Soil)	Boron (Hot Water Soluble)	1.5	2.53
5358632	Duplicate 1	T3(RPI) - Current	O. Reg. 153(511) - Metals & Inorganics (Soil)	Copper	140	205
5359017	SA2N	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benz(a)anthracene	0.5	0.62
5359017	SA2N	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	0.44
5359017	SA2N	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	1.3
5359021	SA2E	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benz(a)anthracene	0.5	0.97
5359021	SA2E	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	0.74
5359021	SA2E	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(k)fluoranthene	0.78	0.87
5359021	SA2E	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	2.1

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123

AGAT WORK ORDER: 14H838514

ATTENTION TO: Freesia Waxman

Soil Analysis

RPT Date: May 20, 2014			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	1	5358525	< 0.8	< 0.8	0.0%	< 0.8	130%	70%	130%	108%	80%	120%	113%	70%	130%
Arsenic	1	5358525	5	5	0.0%	< 1	106%	70%	130%	100%	80%	120%	103%	70%	130%
Barium	1	5358525	79	78	1.3%	< 2	106%	70%	130%	107%	80%	120%	113%	70%	130%
Beryllium	1	5358525	0.6	0.6	0.0%	< 0.5	108%	70%	130%	99%	80%	120%	106%	70%	130%
Boron	1	5358525	10	10	0.0%	< 5	83%	70%	130%	90%	80%	120%	89%	70%	130%
Boron (Hot Water Soluble)	5357164		0.56	0.58	4.2%	< 0.10	87%	60%	140%	101%	70%	130%	96%	60%	140%
Cadmium	1	5358525	< 0.5	< 0.5	0.0%	< 0.5	94%	70%	130%	110%	80%	120%	109%	70%	130%
Chromium	1	5358525	14	14	0.0%	< 2	100%	70%	130%	103%	80%	120%	104%	70%	130%
Cobalt	1	5358525	7.3	7.2	1.4%	< 0.5	98%	70%	130%	102%	80%	120%	101%	70%	130%
Copper	1	5358525	32	31	3.2%	< 1	96%	70%	130%	105%	80%	120%	99%	70%	130%
Lead	1	5358525	24	24	0.0%	< 1	104%	70%	130%	103%	80%	120%	102%	70%	130%
Molybdenum	1	5358525	0.8	0.7	13.3%	< 0.5	107%	70%	130%	102%	80%	120%	112%	70%	130%
Nickel	1	5358525	14	14	0.0%	< 1	101%	70%	130%	103%	80%	120%	102%	70%	130%
Selenium	1	5358525	0.5	0.6	18.2%	< 0.4	123%	70%	130%	100%	80%	120%	102%	70%	130%
Silver	1	5358525	< 0.2	< 0.2	0.0%	< 0.2	100%	70%	130%	102%	80%	120%	104%	70%	130%
Thallium	1	5358525	< 0.4	< 0.4	0.0%	< 0.4	103%	70%	130%	101%	80%	120%	104%	70%	130%
Uranium	1	5358525	< 0.5	< 0.5	0.0%	< 0.5	106%	70%	130%	88%	80%	120%	94%	70%	130%
Vanadium	1	5358525	21	21	0.0%	< 1	99%	70%	130%	104%	80%	120%	106%	70%	130%
Zinc	1	5358525	133	145	8.6%	< 5	99%	70%	130%	112%	80%	120%	111%	70%	130%
Chromium VI	1	5358694	< 0.2	< 0.2	0.0%	< 0.2	100%	70%	130%	102%	80%	120%	101%	70%	130%
Cyanide	1	5358525	< 0.040	< 0.040	0.0%	< 0.040	102%	70%	130%	105%	80%	120%	96%	70%	130%
Mercury	1	5358525	< 0.10	< 0.10	0.0%	< 0.10	108%	70%	130%	100%	80%	120%	94%	70%	130%
Electrical Conductivity (2:1)	1	5358646	0.450	0.452	0.4%	< 0.005	102%	90%	110%	NA			NA		
Sodium Adsorption Ratio (2:1)	5358646	5358646	0.302	0.300	0.7%	NA	NA			NA			NA		
pH, 2:1 CaCl2 Extraction	1	5358566	8.53	8.49	0.5%	NA	103%	80%	120%	NA			NA		

Comments: NA signifies Not Applicable.

Certified By: Tony Nash

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H838514

PROJECT: 14123

ATTENTION TO: Freesia Waxman

Trace Organics Analysis

RPT Date: May 20, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	1		< 0.05	< 0.05	0.0%	< 0.05	111%	50%	140%	70%	50%	140%	62%	50%	140%
Acenaphthylene	1		< 0.05	< 0.05	0.0%	< 0.05	89%	50%	140%	69%	50%	140%	68%	50%	140%
Acenaphthene	1		< 0.05	< 0.05	0.0%	< 0.05	90%	50%	140%	67%	50%	140%	72%	50%	140%
Fluorene	1		< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	70%	50%	140%	68%	50%	140%
Phenanthrene	1		< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	78%	50%	140%	69%	50%	140%
Anthracene	1		< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	84%	50%	140%	79%	50%	140%
Fluoranthene	1		< 0.05	< 0.05	0.0%	< 0.05	93%	50%	140%	91%	50%	140%	83%	50%	140%
Pyrene	1		< 0.05	< 0.05	0.0%	< 0.05	90%	50%	140%	91%	50%	140%	86%	50%	140%
Benz(a)anthracene	1		< 0.05	< 0.05	0.0%	< 0.05	75%	50%	140%	105%	50%	140%	68%	50%	140%
Chrysene	1		< 0.05	< 0.05	0.0%	< 0.05	107%	50%	140%	105%	50%	140%	74%	50%	140%
Benzo(b)fluoranthene	1		< 0.05	< 0.05	0.0%	< 0.05	73%	50%	140%	75%	50%	140%	63%	50%	140%
Benzo(k)fluoranthene	1		< 0.05	< 0.05	0.0%	< 0.05	131%	50%	140%	83%	50%	140%	75%	50%	140%
Benzo(a)pyrene	1		< 0.05	< 0.05	0.0%	< 0.05	71%	50%	140%	81%	50%	140%	71%	50%	140%
Indeno(1,2,3-cd)pyrene	1		< 0.05	< 0.05	0.0%	< 0.05	92%	50%	140%	71%	50%	140%	67%	50%	140%
Dibenz(a,h)anthracene	1		< 0.05	< 0.05	0.0%	< 0.05	90%	50%	140%	71%	50%	140%	65%	50%	140%
Benzo(g,h,i)perylene	1		< 0.05	< 0.05	0.0%	< 0.05	102%	50%	140%	64%	50%	140%	64%	50%	140%
2-and 1-methyl Naphthalene	1		< 0.05	< 0.05	0.0%	< 0.05	99%	50%	140%	66%	50%	140%	66%	50%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	108%	50%	140%	78%	50%	140%	70%	50%	140%
Vinyl Chloride	1	5358738	< 0.02	< 0.02	0.0%	< 0.02	98%	50%	140%	102%	50%	140%	90%	50%	140%
Bromomethane	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	82%	50%	140%	94%	50%	140%	86%	50%	140%
Trichlorofluoromethane	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	93%	50%	140%	103%	50%	140%	89%	50%	140%
Acetone	1	5358738	< 0.50	< 0.50	0.0%	< 0.50	85%	50%	140%	107%	50%	140%	115%	50%	140%
1,1-Dichloroethylene	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	100%	50%	140%	86%	60%	130%	88%	50%	140%
Methylene Chloride	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	105%	50%	140%	111%	60%	130%	107%	50%	140%
Trans- 1,2-Dichloroethylene	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	106%	50%	140%	92%	60%	130%	91%	50%	140%
Methyl tert-butyl Ether	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	83%	50%	140%	114%	60%	130%	108%	50%	140%
1,1-Dichloroethane	1	5358738	< 0.02	< 0.02	0.0%	< 0.02	107%	50%	140%	112%	60%	130%	104%	50%	140%
Methyl Ethyl Ketone	1	5358738	< 0.50	< 0.50	0.0%	< 0.50	82%	50%	140%	105%	50%	140%	106%	50%	140%
Cis- 1,2-Dichloroethylene	1	5358738	< 0.02	< 0.02	0.0%	< 0.02	111%	50%	140%	107%	60%	130%	92%	50%	140%
Chloroform	1	5358738	< 0.04	< 0.04	0.0%	< 0.04	112%	50%	140%	120%	60%	130%	106%	50%	140%
1,2-Dichloroethane	1	5358738	< 0.03	< 0.03	0.0%	< 0.03	102%	50%	140%	116%	60%	130%	88%	50%	140%
1,1,1-Trichloroethane	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	105%	50%	140%	88%	60%	130%	98%	50%	140%
Carbon Tetrachloride	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	106%	50%	140%	93%	60%	130%	91%	50%	140%
Benzene	1	5358738	< 0.02	< 0.02	0.0%	< 0.02	118%	50%	140%	92%	60%	130%	100%	50%	140%
1,2-Dichloropropane	1	5358738	< 0.03	< 0.03	0.0%	< 0.03	105%	50%	140%	92%	60%	130%	94%	50%	140%
Trichloroethylene	1	5358738	< 0.03	< 0.03	0.0%	< 0.03	105%	50%	140%	101%	60%	130%	92%	50%	140%
Bromodichloromethane	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	101%	50%	140%	96%	60%	130%	95%	50%	140%

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H838514

PROJECT: 14123

ATTENTION TO: Freesia Waxman

Trace Organics Analysis (Continued)

RPT Date: May 20, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Methyl Isobutyl Ketone	1	5358738	< 0.50	< 0.50	0.0%	< 0.50	73%	50%	140%	91%	50%	140%	97%	50%	140%
1,1,2-Trichloroethane	1	5358738	< 0.04	< 0.04	0.0%	< 0.04	101%	50%	140%	99%	60%	130%	97%	50%	140%
Toluene	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	99%	50%	140%	94%	60%	130%	92%	50%	140%
Dibromochloromethane	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	85%	50%	140%	85%	60%	130%	84%	50%	140%
Ethylene Dibromide	1	5358738	< 0.04	< 0.04	0.0%	< 0.04	94%	50%	140%	95%	60%	130%	92%	50%	140%
Tetrachloroethylene	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	105%	50%	140%	100%	60%	130%	99%	50%	140%
1,1,1,2-Tetrachloroethane	1	5358738	< 0.04	< 0.04	0.0%	< 0.04	99%	50%	140%	88%	60%	130%	85%	50%	140%
Chlorobenzene	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	93%	50%	140%	93%	60%	130%	89%	50%	140%
Ethylbenzene	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	86%	50%	140%	86%	60%	130%	86%	50%	140%
m & p-Xylene	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	93%	50%	140%	92%	60%	130%	89%	50%	140%
Bromoform	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	80%	50%	140%	79%	60%	130%	81%	50%	140%
Styrene	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	83%	50%	140%	76%	60%	130%	79%	50%	140%
1,1,2,2-Tetrachloroethane	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	102%	50%	140%	100%	60%	130%	100%	50%	140%
o-Xylene	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	93%	50%	140%	93%	60%	130%	89%	50%	140%
1,3-Dichlorobenzene	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	92%	50%	140%	89%	60%	130%	88%	50%	140%
1,4-Dichlorobenzene	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	95%	50%	140%	93%	60%	130%	91%	50%	140%
1,2-Dichlorobenzene	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	92%	50%	140%	86%	60%	130%	86%	50%	140%
1,3-Dichloropropene	1	5358738	< 0.04	< 0.04	0.0%	< 0.04	99%	50%	140%	114%	60%	130%	111%	50%	140%
n-Hexane	1	5358738	< 0.05	< 0.05	0.0%	< 0.05	NA	50%	140%	84%	60%	130%	82%	50%	140%
Comments: NA Signifies Not Applicable															
O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)															
F1 (C6 to C10)	1	5358758	< 5	< 5	0.0%	< 5	80%	60%	140%	84%	80%	120%	69%	60%	140%
F2 (C10 to C16)	1	5358549	< 10	< 10	0.0%	< 10	86%	60%	140%	100%	80%	120%	84%	60%	140%
F3 (C16 to C34)	1	5358549	160	130	20.7%	< 50	86%	60%	140%	103%	80%	120%	84%	60%	140%
F4 (C34 to C50)	1	5358549	< 50	< 50	0.0%	< 50	82%	60%	140%	99%	80%	120%	89%	60%	140%
O. Reg. 153(511) - PCBs (Soil)															
Aroclor 1242	1	5358651	< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1248	1	5358651	< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1254	1	5358651	< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1260	1	5358651	< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Polychlorinated Biphenyls	1	5358651	< 0.1	< 0.1	0.0%	< 0.1	107%	60%	140%	104%	60%	140%	88%	60%	140%
O. Reg. 153(511) - OC Pesticides (Soil)															
Gamma-Hexachlorocyclohexane	1		< 0.005	< 0.005	0.0%	< 0.005	84%	50%	140%	97%	50%	140%	110%	50%	140%
Heptachlor	1		< 0.005	< 0.005	0.0%	< 0.005	111%	50%	140%	108%	50%	140%	102%	50%	140%
Aldrin	1		< 0.005	< 0.005	0.0%	< 0.005	83%	50%	140%	84%	50%	140%	83%	50%	140%
Heptachlor Epoxide	1		< 0.005	< 0.005	0.0%	< 0.005	81%	50%	140%	86%	50%	140%	84%	50%	140%
Endosulfan	1		< 0.005	< 0.005	0.0%	< 0.005	88%	50%	140%	85%	50%	140%	80%	50%	140%
Chlordane	1		< 0.007	< 0.007	0.0%	< 0.007	82%	50%	140%	83%	50%	140%	85%	50%	140%
DDE	1		< 0.007	< 0.007	0.0%	< 0.007	102%	50%	140%	104%	50%	140%	95%	50%	140%

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
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http://www.agatlabs.com

Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H838514

PROJECT: 14123

ATTENTION TO: Freesia Waxman

Trace Organics Analysis (Continued)

RPT Date: May 20, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
DDD	1		< 0.007	< 0.007	0.0%	< 0.007	108%	50%	140%	103%	50%	140%	93%	50%	140%
DDT	1		< 0.007	< 0.007	0.0%	< 0.007	78%	50%	140%	85%	50%	140%	64%	50%	140%
Dieldrin	1		< 0.005	< 0.005	0.0%	< 0.005	79%	50%	140%	83%	50%	140%	78%	50%	140%
Endrin	1		< 0.005	< 0.005	0.0%	< 0.005	102%	50%	140%	106%	50%	140%	91%	50%	140%
Methoxychlor	1		< 0.005	< 0.005	0.0%	< 0.005	72%	50%	140%	105%	50%	140%	69%	50%	140%
Hexachlorobenzene	1		< 0.005	< 0.005	0.0%	< 0.005	98%	50%	140%	74%	50%	140%	73%	50%	140%
Hexachlorobutadiene	1		< 0.01	< 0.01	0.0%	< 0.01	94%	50%	140%	71%	50%	140%	71%	50%	140%
Hexachloroethane	1		< 0.01	< 0.01	0.0%	< 0.01	100%	50%	140%	58%	50%	140%	56%	50%	140%

Certified By:

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H838514

PROJECT: 14123

ATTENTION TO: Freesia Waxman

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Barium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	EPA SW 846 6010C; MSA, Part 3, Ch.21	ICP/OES
Cadmium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Copper	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Lead	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Nickel	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Selenium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Silver	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Thallium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Uranium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Zinc	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium VI	INOR-93-6029	SM 3500 B; MSA Part 3, Ch. 25	SPECTROPHOTOMETER
Cyanide	INOR-93-6052	MOE CN-3015 & E 3009 A;SM 4500 CN	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6036	McKeague 4.12, SM 2510 B	EC METER
Sodium Adsorption Ratio (2:1)	INOR-93-6007	McKeague 4.12 & 3.26 & EPA SW-846 6010B	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	MSA part 3 & SM 4500-H+ B	PH METER

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H838514

PROJECT: 14123

ATTENTION TO: Freesia Waxman

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Gamma-Hexachlorocyclohexane	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
Heptachlor	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
Aldrin	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
Heptachlor Epoxide	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
Endosulfan	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
Chlordane	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
DDE	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
DDD	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
DDT	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
Dieldrin	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
Endrin	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
Methoxychlor	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
Hexachlorobenzene	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
Hexachlorobutadiene	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
Hexachloroethane	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
TCMX	ORG-91-5112	EPA SW-846 3541,3620 & 8081	GC/ECD
Decachlorobiphenyl	ORG-91-5113	EPA SW-846 3541,3620 & 8081	GC/ECD
Moisture Content		MOE E3139	BALANCE
Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluorene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Phenanthrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benz(a)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Chrysene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(a)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Moisture Content	Org 5506	EPA SW-846 3540 & 8270	BALANCE
Chrysene-d12	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Aroclor 1242	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD
Aroclor 1248	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD
Aroclor 1254	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD
Aroclor 1260	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD
Polychlorinated Biphenyls	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD
Decachlorobiphenyl	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD
Moisture Content		MOE E3139	BALANCE
F1 (C6 to C10)	VOL-91-5009	CCME Tier 1 Method, SW846 5035	P &T GC / FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method, SW846 5035	P & T GC / FID
F2 (C10 to C16)	VOL-91-5009	CCME Tier 1 Method	GC / FID
F3 (C16 to C34)	VOL-91-5009	CCME Tier 1 Method	GC / FID
F4 (C34 to C50)	VOL-91-5009	CCME Tier 1 Method	GC / FID

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H838514

PROJECT: 14123

ATTENTION TO: Freesia Waxman

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Gravimetric Heavy Hydrocarbons	VOL-91-5009	CCME Tier 1 Method	GRAVIMETRIC ANALYSIS
Moisture Content	VOL-91-5009	CCME Tier 1 Method, SW846 5035,8015	BALANCE
Terphenyl	VOL-91-5009		GC/FID
F1 (C6 to C10)	VOL-91-5009	CCME Tier 1 Method	GC / FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	GC / FID
F2 (C10 to C16)	VOL-91-5009	CCME Tier 1 Method	GC / FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	CCME Tier 1 Method	GC / FID
F3 (C16 to C34)	VOL-91-5009	CCME Tier 1 Method	GC / FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	CCME Tier 1 Method	GC / FID
F4 (C34 to C50)	VOL-91-5009	CCME Tier 1 Method	GC / FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	CCME Tier 1 Method	GRAVIMETRIC ANALYSIS
Moisture Content	VOL-91-5009	CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009		GC/FID
Dichlorodifluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromomethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Acetone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Chloroform	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Benzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Toluene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromoform	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Styrene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
o-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H838514

PROJECT: 14123

ATTENTION TO: Freesia Waxman

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Xylene Mixture	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
n-Hexane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Toluene-d8	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS

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+1 cooler

AGAT Laboratories

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Chain of Custody Record

Laboratory Use Only
Arrival Temperature: 10.1, 10.2, 9.8
AGAT WO #: 14H 838514
Lab Temperature: 4.1 · 3.7 · 3.5
Notes:

Client Information
Company: Landtek Limited
Contact: Freesia Waxman
Address:
Phone: Fax:
Project: 14123 PO: ~~14123~~
AGAT Quotation #:
Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements
☑ Regulation 153/04 (reg. 511 Amend.)
Table 3 (Indicate one)
☐ Ind./Com ☑ Res./Park ☐ Agriculture
Soil Texture (check one): ☑ Coarse ☐ Fine
☐ Sewer Use
Region (Indicate one)
☐ Sanitary ☐ Storm
☐ Regulation 558
☐ CCME
☐ Other (specify)
☐ Prov. Water Quality Objectives (PWQO)
☐ None

Turnaround Time Required (TAT) Required*
Regular TAT
☑ 5 to 7 Working Days
Rush TAT (please provide prior notification)
Rush Surcharges Apply
☐ 3 Working Days
☐ 2 Working Days
☐ 1 Working Day
OR
Date Required (Rush surcharges may apply):
*TAT is exclusive of weekends and statutory holidays

Invoice To
Same: Yes ☑ No ☐
Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) ☐ Yes ☐ No
If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a **Record of Site Condition?** ☑ Yes ☐ No

Legend Matrix
GW Ground Water · O Oil
SW Surface Water · P Paint
SD Sediment · S Soil

Report Information – reports to be sent to:
1. Name: freesia@landteklimited.com
   Email: Freesia Waxman
2. Name:
   Email:

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl- ☐ CN- ☐ EC ☐ FOC ☐ Cr+6 ☐ SAR ☐ N- Total ☐ Hg ☐ pH ☐ NO_3/NO_2	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	VOC: ☑ VOC ☐ THM ☐ BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
BH1 SS1	May 8/14		S			✓								✓						
BH1 SS2												✓	✓							
Duplicate 4												✓	✓							
BH1 SS4																✓				
BH2 SS1						✓									✓					
BH2 SS2												✓	✓							
BH3 SS1						✓														
BH3 SS2															✓					
Duplicate 2															✓					
BH3 SS4												✓	✓							
BH4 SS2												✓	✓		✓					
BH4 SS3						✓														

Samples Relinquished By (Print Name and Sign): [signature]
Date/Time: May 12 3:00 pm
Samples Received By (Print Name and Sign): Julia Angnil [signature]
Date/Time: May 12/14 @3
Samples Relinquished By (Print Name and Sign): [signature]
Date/Time: May 13/14 4:20
Samples Received By (Print Name and Sign): [signature]
Date/Time:

Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT

Page 1 of 1
N°: 36935

AGAT Laboratories

5835 Coopers Avenue
Mississauga, ON
L4Z 1Y2
www.agatlabs.com · webearth.agatlabs.com
P: 905.712.5100 · F: 905.712.5122

Chain of Custody Record

Laboratory Use Only
Arrival Temperature: 10.1 10.2 9.8
AGAT WO #:
Lab Temperature: 4.1 - 3.7 SS
Notes:

Client Information

Company: Landtek Limited
Contact: Freesia Waxman
Address:
Phone: Fax:
Project: 14123 PO:
AGAT Quotation #:
Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements

- [x] Regulation 153/04 (reg. 511 Amend.)
  - Table 3 (Indicate one)
  - [ ] Ind/Com
  - [x] Res/Park
  - [ ] Agriculture
  - Soil Texture (check one): [x] Coarse [ ] Fine
- [ ] Sewer Use
  - Region (Indicate one)
  - [ ] Sanitary
  - [ ] Storm
- [ ] Regulation 558
- [ ] CCME
- [ ] Other (specify)
- [ ] Prov. Water Quality Objectives (PWQO)
- [ ] None

Turnaround Time Required (TAT) Required*

Regular TAT
[x] 5 to 7 Working Days
Rush TAT (please provide prior notification)
Rush Surcharges Apply
[ ] 3 Working Days
[ ] 2 Working Days
[ ] 1 Working Day
OR
Date Required (Rush surcharges may apply):
*TAT is exclusive of weekends and statutory holidays

Invoice To

Same: Yes [x] No [ ]
Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) [ ] Yes [ ] No
If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a **Record of Site Condition?** [x] Yes [ ] No

Legend Matrix

GW Ground Water · O Oil
SW Surface Water · P Paint
SD Sediment · S Soil

Report Information – reports to be sent to:

1. Name: Freesia Waxman
   Email: freesia@landtek limited.com
2. Name:
   Email:

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl- ☐ CN- ☐ EC ☐ FOC ☐ Cr+6- ☐ SAR ☐ N- Total ☐ Hg ☐ pH ☐ NO_3/NO_2	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	VOC: ☐ VOC ☐ THM ☐ BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
Duplicate 1	May 8/14		S			✓	✓								✓				
BH5 SS1	↓		↓		only run for MSI, PAH	✓						X	X		✓				
BH5 SS2												✓	✓						
BH6 SS1						✓									✓				
BH6 SS2																✓			
BH6 SS3												✓	✓						
Duplicate 3																✓			
BH7 SS1						✓									✓	✓			
BH7 SS2												✓	✓						
BH8 SS1						✓									✓				
BH8 SS3												✓	✓						
BH8 SS4	↓		↓									✓	✓						

Samples Relinquished By (Print Name and Sign): [signature]
Date/Time: 3 pm May 12
Samples Received By (Print Name and Sign): Julia Amonin
Date/Time: May 12/14 @ 3
Samples Relinquished By (Print Name and Sign):
Date/Time:
Samples Received By (Print Name and Sign): [signature]
Date/Time: May 13/14 4:20

Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT

N°: 39579

AGAT Laboratories

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Chain of Custody Record

Laboratory Use Only
Arrival Temperature: 16.1, 10.2, 9.8
AGAT WO #:
Lab Temperature: 4.1 - 3.7 - 3.5
Notes:

Client Information
Company: Landtek Limited
Contact: Freesia
Address:
Phone: Fax:
Project: PO:
AGAT Quotation #:
Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements
- [x] Regulation 153/04 (reg 511 Amend.) — Table 3 (Indicate one) — [ ] Ind/Com [x] Res/Park [ ] Agriculture — Soil Texture (check one): [x] Coarse [ ] Fine
- [ ] Sewer Use — Region (Indicate one) — [ ] Sanitary [ ] Storm
- [ ] Regulation 558
- [ ] CCME
- [ ] Other (specify)
- [ ] Prov. Water Quality Objectives (PWQO)
- [ ] None

Turnaround Time Required (TAT) Required*
Regular TAT
- [x] 5 to 7 Working Days

Rush TAT (please provide prior notification)
Rush Surcharges Apply
- [ ] 3 Working Days
- [ ] 2 Working Days
- [ ] 1 Working Day

OR
Date Required (Rush surcharges may apply):
*TAT is exclusive of weekends and statutory holidays

Invoice To
Same: Yes [x] No [ ]
Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) [ ] Yes [ ] No
If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a **Record of Site Condition?** [x] Yes [ ] No

Legend Matrix
GW Ground Water · O Oil
SW Surface Water · P Paint
SD Sediment · S Soil

Report Information – reports to be sent to:
1. Name: Freesia Waxman
   Email:
2. Name:
   Email:

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl- ☐ CN- ☐ EC ☐ FOC ☐ Cr+6- ☐ SAR ☐ N- Total ☐ Hg ☐ pH ☐ NO_3/NO_2	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	VOC: ☐ VOC ☐ THM ☐ BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
Duplicate 5						✓											✓			
BH9 SS1															✓					
BH9 SS3												✓	✓							
BH9 SS4						✓														
SA1W															✓					
~~SA~~ SA2W																	✓			
SA3W						✓														
SA1N															✓					
SA2N																	✓			
SA3N						✓														
SA1E															✓					
SA2E																				

Samples Relinquished By (Print Name and Sign): [illegible] Date/Time: 3pm May 12
Samples Relinquished By (Print Name and Sign): Date/Time:
Samples Received By (Print Name and Sign): Julia Angnil Date/Time: May 12/14 @3
Samples Received By (Print Name and Sign): [illegible] May 13/14 Date/Time: 1:20

Pink Copy - Client
Yellow Copy - AGAT
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Page 3 of 3
N°: 39676

AGAT Laboratories

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Chain of Custody Record

Laboratory Use Only
Arrival Temperature: 10.1, 10.2, 9.8
AGAT WO #:
Lab Temperature: 4.1 - 3.7 - 3.5
Notes:

Client Information
Company: Landtek
Contact:
Address:
Phone: Fax:
Project: PO:
AGAT Quotation #:
Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements
- [x] Regulation 153/04 (reg. 511 Amend.)
  - Table 3 (Indicate one)
  - [ ] Ind/Com
  - [x] Res/Park
  - [ ] Agriculture
  - Soil Texture (check one): [x] Coarse [ ] Fine
- [ ] Sewer Use
  - Region (Indicate one)
  - [ ] Sanitary
  - [ ] Storm
- [ ] Regulation 558
- [ ] CCME
- [ ] Other (specify)
- [ ] Prov. Water Quality Objectives (PWQO)
- [ ] None

Turnaround Time Required (TAT) Required*
Regular TAT
- [x] 5 to 7 Working Days

Rush TAT (please provide prior notification)
Rush Surcharges Apply
- [ ] 3 Working Days
- [ ] 2 Working Days
- [ ] 1 Working Day

OR
Date Required (Rush surcharges may apply):

*TAT is exclusive of weekends and statutory holidays

Invoice To
Same: Yes [x] No [ ]
Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) [ ] Yes [ ] No
If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a Record of Site Condition? [x] Yes [ ] No

Legend Matrix
GW Ground Water · O Oil
SW Surface Water · P Paint
SD Sediment · S Soil

Report Information – reports to be sent to:
1. Name: Freesia Waxman
   Email:
2. Name:
   Email:

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl- ☐ CN- ☐ EC ☐ FOC ☐ Cr+6- ☐ SAR ☐ NO_2/NO_3 ☐ N- Total ☐ Hg ☐ pH	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	VOC: ☐ VOC ☐ THM ☐ BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
SA3E															✓			✓		
Duplicate SP2															✓					
Duplicate SP1						✓														
Duplicate SP3																		✓		

Samples Relinquished By (Print Name and Sign): J. [signature] — Date/Time: May 12/3pm
Samples Relinquished By (Print Name and Sign): — Date/Time:
Samples Received By (Print Name and Sign): Julia Angrilli — Date/Time: May 12/14 @ 23:20
Samples Received By (Print Name and Sign): [signature] May 13/14 — Date/Time: 4:20

Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT

Page 4 of 4
N°: 22529

AGAT Laboratories

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CANADA L4Z 1Y2
TEL (905)712-5100
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http://www.agatlabs.com

CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Freesia Waxman

PROJECT: 14123

AGAT WORK ORDER: 14H839445

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

WATER ANALYSIS REVIEWED BY: Anthony Dapaah, PhD (Chem), Inorganic Lab Manager

DATE REPORTED: May 23, 2014

PAGES (INCLUDING COVER): 17

VERSION*: 2

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

NOTES
VERSION 2: Revised report sent on May 30, 2014.

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

Member of: Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 14H839445

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2014-05-14

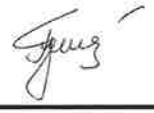
DATE REPORTED: 2014-05-23

		SAMPLE DESCRIPTION:		MW6	Duplicate - 1	MW8	MW9
		SAMPLE TYPE:		Water	Water	Water	Water
		DATE SAMPLED:		5/13/2014	5/13/2014	5/20/2014	5/13/2014
Parameter	Unit	G / S	RDL	5364755	5364777	5364788	5364797
Naphthalene	µg/L	1400	0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthylene	µg/L	1.8	0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthene	µg/L	600	0.20	<0.20	<0.20	<0.20	<0.20
Fluorene	µg/L	400	0.20	<0.20	<0.20	<0.20	<0.20
Phenanthrene	µg/L	580	0.10	<0.10	<0.10	<0.10	<0.10
Anthracene	µg/L	2.4	0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	µg/L	130	0.20	<0.20	<0.20	<0.20	<0.20
Pyrene	µg/L	68	0.20	<0.20	<0.20	<0.20	<0.20
Benz(a)anthracene	µg/L	4.7	0.20	<0.20	<0.20	<0.20	<0.20
Chrysene	µg/L	1	0.10	<0.10	<0.10	<0.10	<0.10
Benzo(b)fluoranthene	µg/L	0.75	0.10	<0.10	<0.10	<0.10	<0.10
Benzo(k)fluoranthene	µg/L	0.4	0.10	<0.10	<0.10	<0.10	<0.10
Benzo(a)pyrene	µg/L	0.81	0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20
Dibenz(a,h)anthracene	µg/L	0.52	0.20	<0.20	<0.20	<0.20	<0.20
Benzo(g,h,i)perylene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20
2-and 1-methyl Naphthalene	µg/L	1800	0.20	<0.20	<0.20	<0.20	<0.20
Surrogate	**Unit**	**Acceptable Limits**					
Chrysene-d12	%	50-140		60	62	85	73

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW) - Current

5364755-5364797 Note: The result for Benzo(b)Flouranthene is the total of the Benzo(b)&(j)Flouranthene isomers because the isomers co-elute on the GC column.

Certified By:



Results relate only to the items tested and to all the items tested

AGAT Laboratories
5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 14H839445

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - PCBs (Water)

DATE RECEIVED: 2014-05-14 **DATE REPORTED: 2014-05-23**

		SAMPLE DESCRIPTION:		MW1	MW6	Duplicate - 1	MW8	MW9
		SAMPLE TYPE:		Water	Water	Water	Water	Water
		DATE SAMPLED:		5/13/2014	5/13/2014	5/13/2014	5/20/2014	5/13/2014
Parameter	Unit	G / S	RDL	5364639	5364755	5364777	5364788	5364797
Aroclor 1242	µg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	µg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	µg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	µg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polychlorinated Biphenyls	µg/L	7.8	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	**Unit**	**Acceptable Limits**						
Decachlorobiphenyl	%	60-140		118	87	77	111	127

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW) - Current

Certified By:

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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CANADA L4Z 1Y2
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FAX (905)712-5122
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Certificate of Analysis

AGAT WORK ORDER: 14H839445

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water)

DATE RECEIVED: 2014-05-14

DATE REPORTED: 2014-05-23

		SAMPLE DESCRIPTION:		MW1	MW3	MW5
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		5/13/2014	5/20/2014	5/13/2014
Parameter	Unit	G / S	RDL	5364639	5364707	5364727
F1 (C6 to C10)	µg/L		25	<25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	750	25	<25	<25	<25
F2 (C10 to C16)	µg/L	150	100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L	500	500	NA	NA	NA
Surrogate	**Unit**	**Acceptable Limits**				
Terphenyl	%	60-140		112	108	114

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW) - Current

5364639-5364727 The C6-C10 fraction is calculated using Toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.
Total C6-C50 results are corrected for BTEX and PAH contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Certified By:

Results relate only to the items tested and to all the items tested

AGAT Laboratories
5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 14H839445

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Water)

DATE RECEIVED: 2014-05-14

DATE REPORTED: 2014-05-23

		SAMPLE DESCRIPTION:		MW6	Duplicate - 1	MW8	MW9
		SAMPLE TYPE:		Water	Water	Water	Water
		DATE SAMPLED:		5/13/2014	5/13/2014	5/20/2014	5/13/2014
Parameter	Unit	G / S	RDL	5364755	5364777	5364788	5364797
F1 (C6 to C10)	µg/L		25	<25	<25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	750	25	<25	<25	<25	<25
F2 (C10 to C16)	µg/L	150	100	<100	<100	<100	<100
F2 (C10 to C16) minus Naphthalene	µg/L	150	100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	100	<100	<100	<100	<100
F3 (C16 to C34) minus PAHs	µg/L	500	100	<100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100	<100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L	500	500	NA	NA	NA	NA
Surrogate	**Unit**	**Acceptable Limits**					
Terphenyl	%	60-140		128	127	116	110

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW) - Current

5364755-5364797 The C6-C10 fraction is calculated using Toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.
Total C6-C50 results are corrected for BTEX and PAH contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Certified By:

Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 14H839445

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2014-05-14

DATE REPORTED: 2014-05-23

		SAMPLE DESCRIPTION:		Trip Blank	MW1	MW3	MW5	MW6	Duplicate - 1	MW8	MW9
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		5/16/2014	5/13/2014	5/20/2014	5/13/2014	5/13/2014	5/13/2014	5/20/2014	5/13/2014
Parameter	Unit	G / S	RDL	5364612	5364639	5364707	5364727	5364755	5364777	5364788	5364797
Dichlorodifluoromethane	µg/L	4400	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Chloride	µg/L	0.5	0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Bromomethane	µg/L	5.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	2500	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Acetone	µg/L	130000	1.0	<1.0	<1.0	47	26	<1.0	<1.0	20	<1.0
1,1-Dichloroethylene	µg/L	1.6	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methylene Chloride	µg/L	610	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl tert-butyl ether	µg/L	190	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	320	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	470000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	2.4	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	640	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	0.79	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	44	0.20	<0.20	0.26	0.21	0.43	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	16	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	85000	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	140000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	4.7	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	18000	0.20	<0.20	0.41	0.21	0.50	<0.20	<0.20	0.25	0.32
Dibromochloromethane	µg/L	82000	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.25	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	3.3	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	µg/L	630	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylbenzene	µg/L	2300	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	380	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 14H839445

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2014-05-14 **DATE REPORTED: 2014-05-23**

		SAMPLE DESCRIPTION:		Trip Blank	MW1	MW3	MW5	MW6	Duplicate - 1	MW8	MW9
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		5/16/2014	5/13/2014	5/20/2014	5/13/2014	5/13/2014	5/13/2014	5/20/2014	5/13/2014
Parameter	Unit	G / S	RDL	5364612	5364639	5364707	5364727	5364755	5364777	5364788	5364797
Styrene	µg/L	1300	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	3.2	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
o-Xylene	µg/L		0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichlorobenzene	µg/L	9600	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	4600	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	5.2	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Xylene Mixture	µg/L	4200	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
n-Hexane	µg/L	51	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	50-140		106	101	98	98	107	124	106	108
4-Bromofluorobenzene	% Recovery	50-140		94	103	97	101	93	82	94	96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW) - Current

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 14H839445

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2014-05-14

DATE REPORTED: 2014-05-23

		SAMPLE DESCRIPTION:		MW1		MW3	MW5		MW6	Duplicate - 1
		SAMPLE TYPE:		Water		Water	Water		Water	Water
		DATE SAMPLED:		5/13/2014		5/20/2014	5/13/2014		5/13/2014	5/13/2014
Parameter	Unit	G / S	RDL	5364639	RDL	5364707	5364727	RDL	5364755	5364777
Antimony	µg/L	20000	0.5	<0.5	0.5	0.9	<0.5	0.5	<0.5	<0.5
Arsenic	µg/L	1900	1.0	<1.0	1.0	4.5	<1.0	1.0	29.5	32.4
Barium	µg/L	29000	2.0	35.7	2.0	92.4	27.1	2.0	1220	1040
Beryllium	µg/L	67	0.5	<0.5	0.5	<0.5	<0.5	0.5	<0.5	<0.5
Boron	µg/L	45000	10.0	53.0	10.0	496	42.7	10.0	1780	1730
Cadmium	µg/L	2.7	0.2	<0.2	0.2	<0.2	<0.2	0.2	0.3	0.4
Chromium	µg/L	810	2.0	3.2	2.0	4.5	<2.0	2.0	4.3	5.8
Cobalt	µg/L	66	0.5	<0.5	0.5	2.9	<0.5	0.5	15.1	13.2
Copper	µg/L	87	1.0	2.4	1.0	11.7	2.0	1.0	15.4	11.7
Lead	µg/L	25	0.5	<0.5	0.5	4.4	<0.5	0.5	<0.5	<0.5
Molybdenum	µg/L	9200	0.5	4.4	0.5	27.3	2.4	0.5	10.5	13.9
Nickel	µg/L	490	1.0	<1.0	1.0	11.6	2.2	1.0	5.5	8.9
Selenium	µg/L	63	1.0	<1.0	1.0	3.7	<1.0	1.0	6.5	27.4
Silver	µg/L	1.5	0.2	<0.2	0.2	0.3	<0.2	0.2	0.9	0.4
Thallium	µg/L	510	0.3	<0.3	0.3	<0.3	<0.3	0.3	<0.3	<0.3
Uranium	µg/L	420	0.5	0.6	0.5	<0.5	1.6	0.5	13.6	11.6
Vanadium	µg/L	250	0.4	1.2	0.4	4.4	1.4	0.4	<0.4	<0.4
Zinc	µg/L	1100	5.0	<5.0	5.0	10.2	<5.0	5.0	7.2	10.5
Mercury	µg/L	0.29	0.02	<0.02	0.02	<0.02	<0.02	0.02	<0.02	<0.02
Chromium VI	µg/L	140	5	<5	5	<5	<5	5	<5	<5
Cyanide	µg/L	66	2	<2	2	<2	<2	2	<2	<2
Sodium	µg/L	2300000	500	4160	500	200000	119000	25000	**2390000**	2200000
Chloride	µg/L	2300000	100	3730	500	151000	7020	10000	**7130000**	**6650000**
Nitrate as N	µg/L		50	578	250	<250	<250	5000	<5000	<5000
Nitrite as N	µg/L		50	<50	250	<250	<250	5000	<5000	<5000
Electrical Conductivity	uS/cm		2	269	2	958	571	2	19400	18500
pH	pH Units		NA	8.22	NA	8.60	8.39	NA	7.79	7.88

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 14H839445

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2014-05-14

DATE REPORTED: 2014-05-23

		SAMPLE DESCRIPTION:		MW8		MW9
		SAMPLE TYPE:		Water		Water
		DATE SAMPLED:		5/20/2014		5/13/2014
Parameter	Unit	G / S	RDL	5364788	RDL	5364797
Antimony	µg/L	20000	0.5	<0.5	0.5	<0.5
Arsenic	µg/L	1900	1.0	6.8	1.0	4.2
Barium	µg/L	29000	2.0	31.8	2.0	104
Beryllium	µg/L	67	0.5	<0.5	0.5	<0.5
Boron	µg/L	45000	10.0	119	10.0	174
Cadmium	µg/L	2.7	0.2	<0.2	0.2	<0.2
Chromium	µg/L	810	2.0	<2.0	2.0	<2.0
Cobalt	µg/L	66	0.5	0.6	0.5	0.7
Copper	µg/L	87	1.0	3.1	1.0	5.3
Lead	µg/L	25	0.5	<0.5	0.5	<0.5
Molybdenum	µg/L	9200	0.5	6.6	0.5	5.9
Nickel	µg/L	490	1.0	<1.0	1.0	<1.0
Selenium	µg/L	63	1.0	<1.0	1.0	<1.0
Silver	µg/L	1.5	0.2	<0.2	0.2	<0.2
Thallium	µg/L	510	0.3	<0.3	0.3	<0.3
Uranium	µg/L	420	0.5	1.3	0.5	4.7
Vanadium	µg/L	250	0.4	1.7	0.4	<0.4
Zinc	µg/L	1100	5.0	6.1	5.0	7.1
Mercury	µg/L	0.29	0.02	<0.02	0.02	<0.02
Chromium VI	µg/L	140	5	<5	5	<5
Cyanide	µg/L	66	2	<2	2	<2
Sodium	µg/L	2300000	500	21000	500	8970
Chloride	µg/L	2300000	500	34400	200	6650
Nitrate as N	µg/L		250	<250	100	<100
Nitrite as N	µg/L		250	<250	100	<100
Electrical Conductivity	uS/cm		2	511	2	548
pH	pH Units		NA	8.43	NA	8.18

Certified By: Tony Yeash

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Certificate of Analysis

AGAT WORK ORDER: 14H839445

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2014-05-14

DATE REPORTED: 2014-05-23

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW) - Current

5364755 Metals Analysis: Please note the selenium value was confirmed by re-analysis.

5364777 May 29, 2014: This report replaces the Certificate of Analysis issued on May 20, 2014.

The certificate of analysis has been revised to include correct the erroneous selenuim value reported previously.

Certified By: Tony Trash

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Guideline Violation

AGAT WORK ORDER: 14H839445

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
5364755	MW6	T3(NPGW) - Current	O. Reg. 153(511) - Metals & Inorganics (Water)	Chloride	2300000	7130000
5364755	MW6	T3(NPGW) - Current	O. Reg. 153(511) - Metals & Inorganics (Water)	Sodium	2300000	2390000
5364777	Duplicate - 1	T3(NPGW) - Current	O. Reg. 153(511) - Metals & Inorganics (Water)	Chloride	2300000	6650000

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H839445

PROJECT: 14123

ATTENTION TO: Freesia Waxman

Trace Organics Analysis

RPT Date: May 23, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - VOCs (Water)															
Dichlorodifluoromethane	1		< 0.20	< 0.20	0.0%	< 0.20	110%	50%	140%	83%	50%	140%	118%	50%	140%
Vinyl Chloride	1		< 0.17	< 0.17	0.0%	< 0.17	106%	50%	140%	118%	50%	140%	113%	50%	140%
Bromomethane	1		< 0.20	< 0.20	0.0%	< 0.20	64%	50%	140%	74%	50%	140%	71%	50%	140%
Trichlorofluoromethane	1		< 0.40	< 0.40	0.0%	< 0.40	103%	50%	140%	100%	50%	140%	110%	50%	140%
Acetone	1		< 1.0	< 1.0	0.0%	< 1.0	114%	50%	140%	117%	50%	140%	125%	50%	140%
1,1-Dichloroethylene	1		< 0.30	< 0.30	0.0%	< 0.30	84%	50%	140%	117%	60%	130%	119%	50%	140%
Methylene Chloride	1		< 0.30	< 0.30	0.0%	< 0.30	111%	50%	140%	124%	60%	130%	118%	50%	140%
trans- 1,2-Dichloroethylene	1		< 0.20	< 0.20	0.0%	< 0.20	97%	50%	140%	111%	60%	130%	112%	50%	140%
Methyl tert-butyl ether	1		< 0.20	< 0.20	0.0%	< 0.20	93%	50%	140%	110%	60%	130%	115%	50%	140%
1,1-Dichloroethane	1		< 0.30	< 0.30	0.0%	< 0.30	106%	50%	140%	114%	60%	130%	115%	50%	140%
Methyl Ethyl Ketone	1		< 1.0	< 1.0	0.0%	< 1.0	90%	50%	140%	96%	50%	140%	119%	50%	140%
cis- 1,2-Dichloroethylene	1		< 0.20	< 0.20	0.0%	< 0.20	91%	50%	140%	99%	60%	130%	94%	50%	140%
Chloroform	1		< 0.20	< 0.20	0.0%	< 0.20	96%	50%	140%	102%	60%	130%	101%	50%	140%
1,2-Dichloroethane	1		< 0.20	< 0.20	0.0%	< 0.20	103%	50%	140%	106%	60%	130%	113%	50%	140%
1,1,1-Trichloroethane	1		< 0.30	< 0.30	0.0%	< 0.30	100%	50%	140%	99%	60%	130%	104%	50%	140%
Carbon Tetrachloride	1		< 0.20	< 0.20	0.0%	< 0.20	101%	50%	140%	98%	60%	130%	94%	50%	140%
Benzene	1		< 0.20	< 0.20	0.0%	< 0.20	91%	50%	140%	102%	60%	130%	107%	50%	140%
1,2-Dichloropropane	1		< 0.20	< 0.20	0.0%	< 0.20	84%	50%	140%	98%	60%	130%	100%	50%	140%
Trichloroethylene	1		< 0.20	< 0.20	0.0%	< 0.20	92%	50%	140%	103%	60%	130%	95%	50%	140%
Bromodichloromethane	1		< 0.20	< 0.20	0.0%	< 0.20	95%	50%	140%	103%	60%	130%	104%	50%	140%
Methyl Isobutyl Ketone	1		< 1.0	< 1.0	0.0%	< 1.0	97%	50%	140%	98%	50%	140%	85%	50%	140%
1,1,2-Trichloroethane	1		< 0.20	< 0.20	0.0%	< 0.20	93%	50%	140%	91%	60%	130%	79%	50%	140%
Toluene	1		< 0.20	< 0.20	0.0%	< 0.20	98%	50%	140%	105%	60%	130%	84%	50%	140%
Dibromochloromethane	1		< 0.10	< 0.10	0.0%	< 0.10	87%	50%	140%	90%	60%	130%	73%	50%	140%
Ethylene Dibromide	1		< 0.10	< 0.10	0.0%	< 0.10	84%	50%	140%	91%	60%	130%	74%	50%	140%
Tetrachloroethylene	1		< 0.20	< 0.20	0.0%	< 0.20	91%	50%	140%	91%	60%	130%	73%	50%	140%
1,1,1,2-Tetrachloroethane	1		< 0.10	< 0.10	0.0%	< 0.10	91%	50%	140%	92%	60%	130%	73%	50%	140%
Chlorobenzene	1		< 0.10	< 0.10	0.0%	< 0.10	95%	50%	140%	101%	60%	130%	81%	50%	140%
Ethylbenzene	1		< 0.10	< 0.10	0.0%	< 0.10	93%	50%	140%	99%	60%	130%	79%	50%	140%
m & p-Xylene	1		< 0.20	< 0.20	0.0%	< 0.20	102%	50%	140%	107%	60%	130%	89%	50%	140%
Bromoform	1		< 0.10	< 0.10	0.0%	< 0.10	86%	50%	140%	92%	60%	130%	65%	50%	140%
Styrene	1		< 0.10	< 0.10	0.0%	< 0.10	77%	50%	140%	94%	60%	130%	73%	50%	140%
1,1,2,2-Tetrachloroethane	1		< 0.10	< 0.10	0.0%	< 0.10	95%	50%	140%	117%	60%	130%	97%	50%	140%
o-Xylene	1		< 0.10	< 0.10	0.0%	< 0.10	101%	50%	140%	107%	60%	130%	86%	50%	140%
1,3-Dichlorobenzene	1		< 0.10	< 0.10	0.0%	< 0.10	73%	50%	140%	88%	60%	130%	75%	50%	140%
1,4-Dichlorobenzene	1		< 0.10	< 0.10	0.0%	< 0.10	97%	50%	140%	99%	60%	130%	82%	50%	140%
1,2-Dichlorobenzene	1		< 0.10	< 0.10	0.0%	< 0.10	87%	50%	140%	89%	60%	130%	74%	50%	140%
1,3-Dichloropropene	1		< 0.30	< 0.30	0.0%	< 0.30	89%	50%	140%	75%	60%	130%	72%	50%	140%
n-Hexane	1		< 0.20	< 0.20	0.0%	< 0.20	80%	50%	140%	73%	60%	130%	110%	50%	140%

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Quality Assurance

CLIENT NAME: LANDTEK LTD. **AGAT WORK ORDER: 14H839445**

PROJECT: 14123 **ATTENTION TO: Freesia Waxman**

Trace Organics Analysis (Continued)

RPT Date: May 23, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Comments: NA Signifies Not Applicable															
O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water)															
F1 (C6 to C10)	1		< 25	< 25	0.0%	< 25	95%	60%	140%	106%	60%	140%	82%	60%	140%
F2 (C10 to C16)	1		< 100	< 100	0.0%	< 100	100%	60%	140%	60%	60%	140%	65%	60%	140%
F3 (C16 to C34)	1		< 100	< 100	0.0%	< 100	107%	60%	140%	113%	60%	140%	63%	60%	140%
F4 (C34 to C50)	1		< 100	< 100	0.0%	< 100	101%	60%	140%	113%	60%	140%	82%	60%	140%
O. Reg. 153(511) - PCBs (Water)															
Aroclor 1242	1		< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1248	1		< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1254	1		< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1260	1		< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Polychlorinated Biphenyls	1		< 0.1	< 0.1	0.0%	< 0.1	80%	60%	140%	116%	60%	140%	124%	60%	140%
O. Reg. 153(511) - PAHs (Water)															
Naphthalene	1	5304755	< 0.20	< 0.20	0.0%	< 0.20	88%	50%	140%	68%	50%	140%	94%	50%	140%
Acenaphthylene	1	5304755	< 0.20	< 0.20	0.0%	< 0.20	85%	50%	140%	67%	50%	140%	93%	50%	140%
Acenaphthene	1	5304755	< 0.20	< 0.20	0.0%	< 0.20	89%	50%	140%	66%	50%	140%	91%	50%	140%
Fluorene	1	5304755	< 0.20	< 0.20	0.0%	< 0.20	89%	50%	140%	72%	50%	140%	71%	50%	140%
Phenanthrene	1	5304755	< 0.10	< 0.10	0.0%	< 0.10	88%	50%	140%	79%	50%	140%	102%	50%	140%
Anthracene	1	5304755	< 0.10	< 0.10	0.0%	< 0.10	94%	50%	140%	82%	50%	140%	113%	50%	140%
Fluoranthene	1	5304755	< 0.20	< 0.20	0.0%	< 0.20	86%	50%	140%	69%	50%	140%	96%	50%	140%
Pyrene	1	5304755	< 0.20	< 0.20	0.0%	< 0.20	87%	50%	140%	75%	50%	140%	98%	50%	140%
Benz(a)anthracene	1	5304755	< 0.20	< 0.20	0.0%	< 0.20	68%	50%	140%	65%	50%	140%	84%	50%	140%
Chrysene	1	5304755	< 0.10	< 0.10	0.0%	< 0.10	89%	50%	140%	70%	50%	140%	96%	50%	140%
Benzo(b)fluoranthene	1	5304755	< 0.10	< 0.10	0.0%	< 0.10	105%	50%	140%	70%	50%	140%	83%	50%	140%
Benzo(k)fluoranthene	1	5304755	< 0.10	< 0.10	0.0%	< 0.10	130%	50%	140%	84%	50%	140%	98%	50%	140%
Benzo(a)pyrene	1	5304755	< 0.01	< 0.01	0.0%	< 0.01	115%	50%	140%	73%	50%	140%	90%	50%	140%
Indeno(1,2,3-cd)pyrene	1	5304755	< 0.20	< 0.20	0.0%	< 0.20	135%	50%	140%	96%	50%	140%	123%	50%	140%
Dibenz(a,h)anthracene	1	5304755	< 0.20	< 0.20	0.0%	< 0.20	101%	50%	140%	74%	50%	140%	90%	50%	140%
Benzo(g,h,i)perylene	1	5304755	< 0.20	< 0.20	0.0%	< 0.20	113%	50%	140%	76%	50%	140%	91%	50%	140%
2-and 1-methyl Naphthalene	1	5304755	< 0.20	< 0.20	0.0%	< 0.20	93%	50%	140%	63%	50%	140%	91%	50%	140%

Certified By:

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H839445

PROJECT: 14123

ATTENTION TO: Freesia Waxman

Water Analysis

RPT Date: May 23, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water)															
Antimony	1	5364639	< 0.5	< 0.5	0.0%	< 0.5	99%	70%	130%	93%	80%	120%	99%	70%	130%
Arsenic	1	5364639	1.0	1.1	9.5%	< 1.0	100%	70%	130%	101%	80%	120%	101%	70%	130%
Barium	1	5364639	35.7	33.5	6.4%	< 2.0	100%	70%	130%	99%	80%	120%	100%	70%	130%
Beryllium	1	5364639	< 0.5	< 0.5	0.0%	< 0.5	95%	70%	130%	94%	80%	120%	100%	70%	130%
Boron	1	5364639	53.0	57.2	7.6%	< 10.0	97%	70%	130%	91%	80%	120%	98%	70%	130%
Cadmium	1	5364639	< 0.2	< 0.2	0.0%	< 0.2	99%	70%	130%	108%	80%	120%	116%	70%	130%
Chromium	1	5364639	3.2	3.4	6.1%	< 2.0	100%	70%	130%	105%	80%	120%	107%	70%	130%
Cobalt	1	5364639	< 0.5	< 0.5	0.0%	< 0.5	99%	70%	130%	104%	80%	120%	101%	70%	130%
Copper	1	5364639	2.4	2.3	4.3%	< 1.0	99%	70%	130%	107%	80%	120%	101%	70%	130%
Lead	1	5364639	< 0.5	< 0.5	0.0%	< 0.5	104%	70%	130%	108%	80%	120%	104%	70%	130%
Molybdenum	1	5364639	4.4	4.8	8.7%	< 0.5	97%	70%	130%	98%	80%	120%	100%	70%	130%
Nickel	1	5364639	< 1.0	< 1.0	0.0%	< 1.0	102%	70%	130%	105%	80%	120%	103%	70%	130%
Selenium	1	5364639	< 1.0	< 1.0	0.0%	< 1.0	98%	70%	130%	101%	80%	120%	100%	70%	130%
Silver	1	5364639	< 0.2	< 0.2	0.0%	< 0.2	101%	70%	130%	100%	80%	120%	101%	70%	130%
Thallium	1	5364639	< 0.3	< 0.3	0.0%	< 0.3	100%	70%	130%	104%	80%	120%	102%	70%	130%
Uranium	1	5364639	0.6	0.6	0.0%	< 0.5	101%	70%	130%	106%	80%	120%	107%	70%	130%
Vanadium	1	5364639	1.2	1.1	8.7%	< 0.4	98%	70%	130%	101%	80%	120%	102%	70%	130%
Zinc	1	5364639	< 5.0	< 5.0	0.0%	< 5.0	100%	70%	130%	110%	80%	120%	104%	70%	130%
Mercury	1	5364639	< 0.02	< 0.02	0.0%	< 0.02	103%	70%	130%	96%	80%	120%	94%	70%	130%
Chromium VI	1		< 5	< 5	0.0%	< 5	101%	70%	130%	104%	80%	120%	104%	70%	130%
Cyanide	1		< 2	< 2	0.0%	< 2	99%	70%	130%	108%	80%	120%	81%	70%	130%
Sodium	5364797	5364797	8970	8950	0.3%	< 500	101%	70%	130%	100%	80%	120%	101%	70%	130%
Chloride	5364797	5364797	6650	6600	0.9%	< 100	93%	70%	130%	91%	70%	130%	99%	70%	130%
Nitrate as N	5364797	5364797	<100	<100	0.0%	< 50	97%	70%	130%	95%	70%	130%	101%	70%	130%
Nitrite as N	5364797	5364797	<100	<100	0.0%	< 50	NA	70%	130%	95%	70%	130%	119%	70%	130%
Electrical Conductivity	1		2990	2990	0.0%	< 2	102%	90%	110%	NA			NA		
pH	1		8.10	8.17	0.9%	NA	103%	90%	110%	NA			NA		

Comments: NA Signifies Not Applicable.

Certified By: Tony Tpach

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Method Summary

CLIENT NAME: LANDTEK LTD. **AGAT WORK ORDER: 14H839445**

PROJECT: 14123 **ATTENTION TO: Freesia Waxman**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Acenaphthylene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Acenaphthene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Fluorene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Phenanthrene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Anthracene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Fluoranthene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Pyrene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Benz(a)anthracene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Chrysene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Benzo(a)pyrene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Chrysene-d12	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Aroclor 1242	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Aroclor 1248	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Aroclor 1254	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Aroclor 1260	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Polychlorinated Biphenyls	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Decachlorobiphenyl	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
F1 (C6 to C10)	VOL-91-5010	MOE PHC E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	MOE PHC E3421	(P&T)GC/FID
F2 (C10 to C16)	VOL-91-5010	MOE PHC E3421	GC / FID
F3 (C16 to C34)	VOL-91-5010	MOE PHC E3421	GC / FID
F4 (C34 to C50)	VOL-91-5010	MOE PHC E3421	GC / FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	MOE PHC E3421	BALANCE
Terphenyl	VOL-91-5010		GC/FID
F1 (C6 to C10)	VOL-91-5010	MOE PHC E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	MOE PHC E3421	(P&T)GC/FID
F2 (C10 to C16)	VOL-91-5010	MOE PHC E3421	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5010	MOE PHC E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	MOE PHC E3421	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5010	MOE PHC E3421	GC/FID
F4 (C34 to C50)	VOL -91- 5010	MOE PHC- E3421	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	MOE PHC E3421	BALANCE
Terphenyl	VOL-91-5010		GC/FID
Dichlorodifluoromethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Vinyl Chloride	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Bromomethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Acetone	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS

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Method Summary

CLIENT NAME: LANDTEK LTD. **AGAT WORK ORDER: 14H839445**

PROJECT: 14123 **ATTENTION TO: Freesia Waxman**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,1-Dichloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Chloroform	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Benzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Toluene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Chlorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Ethylbenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
m & p-Xylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Bromoform	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Styrene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
o-Xylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Xylene Mixture	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
n-Hexane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Toluene-d8	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS

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Method Summary

CLIENT NAME: LANDTEK LTD. **AGAT WORK ORDER: 14H839445**

PROJECT: 14123 **ATTENTION TO: Freesia Waxman**

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Antimony	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Barium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Boron	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Cadmium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Chromium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Copper	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Lead	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Nickel	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Selenium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Silver	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Thallium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Uranium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Zinc	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Mercury	MET-93-6100	EPA SW-846 7470 & 245.1	CVAAS
Chromium VI	INOR-93-6034	SM 3500-Cr B	SPECTROPHOTOMETER
Cyanide	INOR-93-6052	MOE METHOD CN- 3015 & SM 4500 CN- I	TECHNICON AUTO ANALYZER
Sodium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Chloride	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Nitrate as N	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Nitrite as N	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Electrical Conductivity	INOR-93-6000	SM 2510 B	PC TITRATE
pH	INOR-93-6000	SM 4500-H+ B	PC TITRATE

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Mississauga, ON
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(1) 42.46 - 4-6 29.4.58
(3) 35.31-28
#3 coolers 7.1, 8.2, 7.4

Chain of Custody Record

P: 905.712.5100 · F: 905.712.5122

Laboratory Use Only

Arrival Temperature: 6.5, 8.1, 7.4 / 6.6, 5.8, 6.3
AGAT WO #: 1411839445
Lab Temperature:
Notes: on ice

Client Information

Company: Landtek Limited.
Contact: Freesia Workman
Address: 205 Nebo Rd
Hamilton, Ontario
Phone: 9053875803 Fax:
Project: PO:
AGAT Quotation #:

Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements

- [x] Regulation 153/04 (reg. 511 Amend.) — Table 3 (Indicate one)
  - [ ] Ind/Com
  - [x] Res/Park
  - [ ] Agriculture
- Soil Texture (check one): [x] Coarse [ ] Fine
- [ ] Sewer Use — Region (Indicate one)
  - [ ] Sanitary
  - [ ] Storm
- [ ] Regulation 558
- [ ] CCME
- [ ] Other (specify)
- [ ] Prov. Water Quality Objectives (PWQO)
- [ ] None

Turnaround Time Required (TAT) Required*

Regular TAT

- [x] 5 to 7 Working Days

Rush TAT (please provide prior notification)
Rush Surcharges Apply

- [ ] 3 Working Days
- [ ] 2 Working Days
- [ ] 1 Working Day

OR

Date Required (Rush surcharges may apply):

*TAT is exclusive of weekends and statutory holidays

Invoice To

Same: Yes [x] No [ ]

Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) [ ] Yes [x] No

If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a **Record of Site Condition?** [x] Yes [ ] No

Legend Matrix

GW Ground Water · O Oil
SW Surface Water · P Paint
SD Sediment · S Soil

Report Information – reports to be sent to:

1. Name: Freesia@landteklimited.com
   Email: Freesia Workman
2. Name:
   Email:

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: B-HWS, Cl-, CN-, EC, FOC, Cr+6-, SAR, N-Total, Hg, pH	Nutrients: TP, NH_3, TKN, NO_3, NO_2, NO_3/NO_2	VOC: VOC, THM, BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
Trip Blank	May 13	AM	Water	3								✓								
MW 1	↓	↓	↓	13		✓						✓	✓				✓			
3				12		✓						✓	✓							
5				12		✓						✓	✓							
6				14		✓						✓	✓		✓		✓			
Duplicate-1				14		✓						✓	✓		✓		✓			
MW 8				14		✓						✓	✓		✓		✓			
9	↓	↓	↓	14		✓						✓	✓		✓		✓			
Lab QC				2									✓							
Lab QC	↓	↓	↓	2											✓		✓			

Samples Relinquished By (Print Name and Sign): [signature]
Date/Time: May 14/14 2:40
Samples Received By (Print Name and Sign): Julia Fiorelli
Date/Time: May 14/14 @ 2:38
Samples Relinquished By (Print Name and Sign):
Date/Time:
Samples Received By (Print Name and Sign): [signature] May 14/14
Date/Time:

Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT

Page 1 of 1
N°: 39741

AGAT Laboratories

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CANADA L4Z 1Y2
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FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Freesia Waxman

PROJECT: 14123

AGAT WORK ORDER: 14T853931

SOIL ANALYSIS REVIEWED BY: Anthony Dapaah, PhD (Chem), Inorganic Lab Manager

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Jun 30, 2014

PAGES (INCLUDING COVER): 21

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

Member of: Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Certificate of Analysis

AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2014-06-19

DATE REPORTED: 2014-06-30

		SAMPLE DESCRIPTION:		TP13 Sa1	TP15 Sa1	TP2 Sa1	TP2 Sa3	TP5 Sa1	TP5 Sa3	TP7 Sa2	TP7 Sa1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		6/15/2014	6/15/2014	6/15/2014	6/15/2014	6/15/2014	6/15/2014	6/15/2014	6/15/2014
Parameter	Unit	G / S	RDL	5492659	5492687	5492690	5492706	5492712	5492739	5492759	5492769
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	4	4	4	3	4	4	5	6
Barium	µg/g	390	2	77	85	37	28	90	60	44	65
Beryllium	µg/g	4	0.5	0.7	0.7	<0.5	<0.5	0.7	0.8	<0.5	0.7
Boron	µg/g	120	5	9	10	6	<5	10	24	7	10
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.41	0.48	0.27	0.28	0.48	0.37	0.40	0.42
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	2	14	9	7	6	9	20	7	10
Cobalt	µg/g	22	0.5	4.1	3.6	3.0	2.9	3.3	13.8	3.6	4.1
Copper	µg/g	140	1	22	32	20	18	27	14	28	25
Lead	µg/g	120	1	41	53	19	6	72	8	14	23
Molybdenum	µg/g	6.9	0.5	0.7	0.7	<0.5	<0.5	0.8	0.5	0.5	0.7
Nickel	µg/g	100	1	11	10	7	6	10	31	10	10
Selenium	µg/g	2.4	0.4	<0.4	0.6	<0.4	<0.4	<0.4	<0.4	0.4	<0.4
Silver	µg/g	20	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	µg/g	1	0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Uranium	µg/g	23	0.5	0.6	0.7	<0.5	<0.5	0.7	0.6	<0.5	0.7
Vanadium	µg/g	86	1	15	13	10	10	13	28	16	14
Zinc	µg/g	340	5	184	114	85	20	129	65	41	92
Chromium VI	µg/g	8	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.116	0.119	0.418	0.093	0.130	0.120	0.331	0.456
Sodium Adsorption Ratio (2:1)	NA	5	NA	0.060	0.132	0.062	0.252	0.142	0.392	0.198	0.092
pH, 2:1 CaCl2 Extraction	pH Units			8.19	8.18	11.2	8.68	8.33	8.03	8.11	10.1

Certified By: Tony Nash

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2014-06-19

DATE REPORTED: 2014-06-30

		SAMPLE DESCRIPTION:		TP7 Sa3	TP Dup3	TP8 Sa1	TP17 Sa1	TP19 Sa2	TP20 Sa2	TP21 Sa2	TP23 Sa2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		6/15/2014	6/15/2014	6/15/2014	6/16/2014	6/16/2014	6/16/2014	6/16/2014	6/16/2014
Parameter	Unit	G / S	RDL	5492770	5492771	5492772	5492774	5492779	5492787	5492791	5492794
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	10	10	4	5	5	6	4	4
Barium	µg/g	390	2	120	115	36	90	47	83	73	69
Beryllium	µg/g	4	0.5	1.0	1.0	<0.5	<0.5	<0.5	0.7	0.5	0.8
Boron	µg/g	120	5	23	23	7	9	7	12	10	9
Boron (Hot Water Soluble)	µg/g	1.5	0.10	**3.36**	**3.48**	0.38	0.78	0.17	0.27	0.51	0.25
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	2	14	13	10	10	8	11	11	8
Cobalt	µg/g	22	0.5	7.2	6.9	2.6	5.5	5.1	6.8	3.0	3.0
Copper	µg/g	140	1	44	44	17	39	32	39	23	19
Lead	µg/g	120	1	32	29	36	14	9	22	29	34
Molybdenum	µg/g	6.9	0.5	1.3	1.3	<0.5	<0.5	<0.5	2.2	0.7	<0.5
Nickel	µg/g	100	1	20	18	6	13	11	18	8	9
Selenium	µg/g	2.4	0.4	0.7	0.6	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Silver	µg/g	20	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	µg/g	1	0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Uranium	µg/g	23	0.5	0.8	0.8	0.6	0.6	<0.5	0.6	0.7	0.8
Vanadium	µg/g	86	1	23	24	13	18	15	18	12	11
Zinc	µg/g	340	5	74	84	103	43	39	58	129	120
Chromium VI	µg/g	8	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.13	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.264	0.250	0.396	0.130	0.083	0.118	0.172	0.084
Sodium Adsorption Ratio (2:1)	NA	5	NA	0.396	0.363	0.033	0.217	0.088	0.179	0.052	0.075
pH, 2:1 CaCl2 Extraction	pH Units			8.65	9.14	11.1	8.44	8.36	8.16	8.99	8.33

Certified By: Tony Tpach

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Certificate of Analysis

AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2014-06-19

DATE REPORTED: 2014-06-30

		SAMPLE DESCRIPTION:		TP Dup5	BH 6D SS7
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		6/15/2014	6/16/2014
Parameter	Unit	G / S	RDL	5492803	5492804
Antimony	µg/g	7.5	0.8	<0.8	<0.8
Arsenic	µg/g	18	1	4	8
Barium	µg/g	390	2	30	124
Beryllium	µg/g	4	0.5	<0.5	0.7
Boron	µg/g	120	5	<5	17
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.27	**2.06**
Cadmium	µg/g	1.2	0.5	<0.5	<0.5
Chromium	µg/g	160	2	6	24
Cobalt	µg/g	22	0.5	2.7	12.1
Copper	µg/g	140	1	19	32
Lead	µg/g	120	1	19	11
Molybdenum	µg/g	6.9	0.5	<0.5	1.0
Nickel	µg/g	100	1	6	28
Selenium	µg/g	2.4	0.4	<0.4	<0.4
Silver	µg/g	20	0.2	<0.2	<0.2
Thallium	µg/g	1	0.4	<0.4	<0.4
Uranium	µg/g	23	0.5	<0.5	0.7
Vanadium	µg/g	86	1	10	30
Zinc	µg/g	340	5	69	64
Chromium VI	µg/g	8	0.2	<0.2	<0.2
Cyanide	µg/g	0.051	0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.237	**0.984**
Sodium Adsorption Ratio (2:1)	NA	5	NA	0.052	3.39
pH, 2:1 CaCl2 Extraction	pH Units			10.4	8.27

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5492659-5492804 EC & SAR were determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio.

Certified By: Tony Nash

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Certificate of Analysis

AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2014-06-19

DATE REPORTED: 2014-06-30

		SAMPLE DESCRIPTION:		TP9 Sa1	TP9 Sa2	TP10 Sa1	TP10 Sa2	TP11 Sa1	TP12 Sa1	TP14 Sa1	TP14 Sa2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		6/15/2014	6/15/2014	6/15/2014	6/15/2014	6/15/2014	6/15/2014	6/15/2014	6/15/2014
Parameter	**Unit**	**G / S**	**RDL**	**5492625**	**5492649**	**5492652**	**5492655**	**5492657**	**5492658**	**5492684**	**5492686**
Naphthalene	µg/g	0.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	7.9	0.05	<0.05	<0.05	<0.05	<0.05	0.13	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05	0.13	<0.05	<0.05	<0.05
Phenanthrene	µg/g	6.2	0.05	0.49	<0.05	0.10	<0.05	1.6	0.29	0.28	<0.05
Anthracene	µg/g	0.67	0.05	0.13	<0.05	<0.05	<0.05	0.51	0.07	0.06	<0.05
Fluoranthene	µg/g	0.69	0.05	**1.1**	0.07	0.25	<0.05	**3.6**	**0.73**	0.67	<0.05
Pyrene	µg/g	78	0.05	0.88	0.06	0.21	<0.05	3.0	0.67	0.57	<0.05
Benz(a)anthracene	µg/g	0.5	0.05	**0.63**	<0.05	0.12	<0.05	**2.1**	0.33	0.37	<0.05
Chrysene	µg/g	7	0.05	0.56	<0.05	0.14	<0.05	1.8	0.32	0.38	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	0.51	<0.05	0.15	<0.05	**1.6**	0.37	0.43	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	0.20	<0.05	0.06	<0.05	0.60	0.13	0.15	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	**0.34**	<0.05	0.09	<0.05	**1.2**	0.25	0.26	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	0.15	<0.05	0.05	<0.05	**0.47**	0.12	0.13	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	**0.12**	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	6.6	0.05	0.15	<0.05	0.05	<0.05	0.45	0.13	0.13	<0.05
2-and 1-methyl Naphthalene	µg/g	0.99	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
Moisture Content	%		0.1	7.7	18.0	10.8	20.4	7.1	7.1	7.3	10.8
wet weight	g		NA	10.64	10.90	10.88	10.44	10.16	10.47	10.19	10.85
Surrogate	**Unit**	**Acceptable Limits**									
Chrysene-d12	%	50-140		72	86	68	68	75	65	71	59

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2014-06-19

DATE REPORTED: 2014-06-30

		SAMPLE DESCRIPTION:		TP15 Sa1	TP Dup1
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		6/15/2014	6/15/2014
Parameter	Unit	G / S	RDL	5492687	5492688
Naphthalene	µg/g	0.6	0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05
Acenaphthene	µg/g	7.9	0.05	<0.05	0.5
Fluorene	µg/g	62	0.05	<0.05	<0.05
Phenanthrene	µg/g	6.2	0.05	0.11	0.58
Anthracene	µg/g	0.67	0.05	<0.05	0.16
Fluoranthene	µg/g	0.69	0.05	0.44	**1.8**
Pyrene	µg/g	78	0.05	0.41	1.6
Benz(a)anthracene	µg/g	0.5	0.05	0.23	**1.0**
Chrysene	µg/g	7	0.05	0.28	0.96
Benzo(b)fluoranthene	µg/g	0.78	0.05	0.27	**0.88**
Benzo(k)fluoranthene	µg/g	0.78	0.05	0.19	0.34
Benzo(a)pyrene	µg/g	0.3	0.05	0.17	**0.62**
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	0.10	0.28
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	0.07
Benzo(g,h,i)perylene	µg/g	6.6	0.05	0.15	0.28
2-and 1-methyl Naphthalene	µg/g	0.99	0.05	<0.05	<0.05
Moisture Content	%		0.1	3.7	7.9
wet weight	g		NA	10.14	10.54
Surrogate	**Unit**	**Acceptable Limits**			
Chrysene-d12	%	50-140		96	76

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5492625-5492688 Results are based on the dry weight of the soil.

Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PCBs (Soil)

DATE RECEIVED: 2014-06-19

DATE REPORTED: 2014-06-30

		SAMPLE DESCRIPTION:		TP2 Sa2	TP5 Sa2	TP Dup2	TP7 Sa2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		6/15/2014	6/15/2014	6/15/2014	6/15/2014
Parameter	**Unit**	**G / S**	**RDL**	**5492701**	**5492734**	**5492744**	**5492759**
Aroclor 1242	µg/g		0.3	<0.3	<0.3	<0.3	<0.3
Aroclor 1248	µg/g		0.3	<0.3	<0.3	<0.3	<0.3
Aroclor 1254	µg/g		0.3	<0.3	<0.3	<0.3	<0.3
Aroclor 1260	µg/g		0.3	<0.3	<0.3	<0.3	<0.3
Polychlorinated Biphenyls	µg/g	0.35	0.3	<0.3	<0.3	<0.3	<0.3
Moisture Content	%		0.1	4.7	7.6	5.7	5.6
Surrogate	**Unit**	**Acceptable Limits**					
Decachlorobiphenyl	%	60-140		60	102	68	121

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5492701-5492759 Results are based on the dry weight of soil extracted.
Due to the presence of a GC chromatographic interference the sample extract was diluted and the Reporting Detection Limit adjusted.

Certified By: N Popowkoff

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AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)

DATE RECEIVED: 2014-06-19

DATE REPORTED: 2014-06-30

		SAMPLE DESCRIPTION:		TP2 Sa2	TP2 Sa3	TP5 Sa2	TP5 Sa3	TP19 Sa2	TP20 Sa2	TP21 Sa2	TP23 Sa2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		6/15/2014	6/15/2014	6/15/2014	6/15/2014	6/16/2014	6/16/2014	6/16/2014	6/16/2014
Parameter	**Unit**	**G / S**	**RDL**	**5492701**	**5492706**	**5492734**	**5492739**	**5492779**	**5492787**	**5492791**	**5492794**
F1 (C6 to C10)	µg/g		5	530	<5	280	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5	**520**	<5	**280**	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	98	10	**160**	<10	**99**	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	300	50	**630**	<50	**450**	<50	<50	<50	88	82
F4 (C34 to C50)	µg/g	2800	50	320	<50	200	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	2800	50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	11.4	10.7	6.6	18.6	11.1	11.0	4.3	4.1
Surrogate	**Unit**	**Acceptable Limits**									
Terphenyl	%	60-140		140	60	100	65	68	77	86	97

		SAMPLE DESCRIPTION:		TP Dup4
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		6/16/2014
Parameter	**Unit**	**G / S**	**RDL**	**5492797**
F1 (C6 to C10)	µg/g		5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5	<5
F2 (C10 to C16)	µg/g	98	10	<10
F3 (C16 to C34)	µg/g	300	50	<50
F4 (C34 to C50)	µg/g	2800	50	<50
Gravimetric Heavy Hydrocarbons	µg/g	2800	50	NA
Moisture Content	%		0.1	5.9
Surrogate	**Unit**	**Acceptable Limits**		
Terphenyl	%	60-140		84

Certified By: N Popowich

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Certificate of Analysis

AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)

DATE RECEIVED: 2014-06-19

DATE REPORTED: 2014-06-30

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5492701-5492797 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
Total C6 - C50 results are corrected for BTEX contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Certified By: N Popowich

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Certificate of Analysis

AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2014-06-19

DATE REPORTED: 2014-06-30

		SAMPLE DESCRIPTION:		TP2 Sa2	TP2 Sa3	TP5 Sa2	TP5 Sa3	TP19 Sa2	TP20 Sa2	TP21 Sa2	TP23 Sa2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		6/15/2014	6/15/2014	6/15/2014	6/15/2014	6/16/2014	6/16/2014	6/16/2014	6/16/2014
Parameter	Unit	G / S	RDL	5492701	5492706	5492734	5492739	5492779	5492787	5492791	5492794
Dichlorodifluoromethane	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	16	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.084	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	0.75	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	3.5	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	16	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	3.4	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	0.38	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.21	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.061	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	1.7	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	2.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	0.28	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.058	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	2	0.05	0.52	<0.05	0.45	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	7.0	<0.05	2.2	<0.05	<0.05	<0.05	<0.05	0.14

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2014-06-19

DATE REPORTED: 2014-06-30

		SAMPLE DESCRIPTION:		TP2 Sa2	TP2 Sa3	TP5 Sa2	TP5 Sa3	TP19 Sa2	TP20 Sa2	TP21 Sa2	TP23 Sa2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		6/15/2014	6/15/2014	6/15/2014	6/15/2014	6/16/2014	6/16/2014	6/16/2014	6/16/2014
Parameter	**Unit**	**G / S**	**RDL**	**5492701**	**5492706**	**5492734**	**5492739**	**5492779**	**5492787**	**5492791**	**5492794**
Bromoform	ug/g	0.27	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	0.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	0.33	<0.05	0.38	<0.05	<0.05	<0.05	<0.05	0.12
1,3-Dichlorobenzene	ug/g	4.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.083	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	3.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	3.1	0.05	**7.3**	<0.05	2.6	<0.05	<0.05	<0.05	<0.05	0.26
1,3-Dichloropropene	µg/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	2.8	0.05	2.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	50-140		100	98	100	101	101	97	97	97
4-Bromofluorobenzene	% Recovery	50-140		111	103	110	101	100	102	103	103

Certified By:

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AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2014-06-19

DATE REPORTED: 2014-06-30

		SAMPLE DESCRIPTION:		TP Dup4
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		6/16/2014
Parameter	Unit	G / S	RDL	5492797
Dichlorodifluoromethane	µg/g	16	0.05	<0.05
Vinyl Chloride	ug/g	0.02	0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05
Trichlorofluoromethane	ug/g	4	0.05	<0.05
Acetone	ug/g	16	0.50	<0.50
1,1-Dichloroethylene	ug/g	0.05	0.05	<0.05
Methylene Chloride	ug/g	0.1	0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	0.084	0.05	<0.05
Methyl tert-butyl Ether	ug/g	0.75	0.05	<0.05
1,1-Dichloroethane	ug/g	3.5	0.02	<0.02
Methyl Ethyl Ketone	ug/g	16	0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	3.4	0.02	<0.02
Chloroform	ug/g	0.05	0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03
1,1,1-Trichloroethane	ug/g	0.38	0.05	<0.05
Carbon Tetrachloride	ug/g	0.05	0.05	<0.05
Benzene	ug/g	0.21	0.02	<0.02
1,2-Dichloropropane	ug/g	0.05	0.03	<0.03
Trichloroethylene	ug/g	0.061	0.03	<0.03
Bromodichloromethane	ug/g	13	0.05	<0.05
Methyl Isobutyl Ketone	ug/g	1.7	0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04
Toluene	ug/g	2.3	0.05	<0.05
Dibromochloromethane	ug/g	9.4	0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04
Tetrachloroethylene	ug/g	0.28	0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.058	0.04	<0.04
Chlorobenzene	ug/g	2.4	0.05	<0.05
Ethylbenzene	ug/g	2	0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05

Certified By: N Popnikolof

Results relate only to the items tested and to all the items tested

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Certificate of Analysis

AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2014-06-19

DATE REPORTED: 2014-06-30

		SAMPLE DESCRIPTION:		TP Dup4
		SAMPLE TYPE:		Soil
		DATE SAMPLED:		6/16/2014
Parameter	Unit	G / S	RDL	5492797
Bromoform	ug/g	0.27	0.05	<0.05
Styrene	ug/g	0.7	0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05
o-Xylene	ug/g		0.05	<0.05
1,3-Dichlorobenzene	ug/g	4.8	0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.083	0.05	<0.05
1,2-Dichlorobenzene	ug/g	3.4	0.05	<0.05
Xylene Mixture	ug/g	3.1	0.05	<0.05
1,3-Dichloropropene	µg/g	0.05	0.04	<0.04
n-Hexane	µg/g	2.8	0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	% Recovery	50-140		92
4-Bromofluorobenzene	% Recovery	50-140		86

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5492701-5492797 The sample was analysed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.

Certified By: N Popowich

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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Guideline Violation

AGAT WORK ORDER: 14T853931

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
5492625	TP9 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benz(a)anthracene	0.5	0.63
5492625	TP9 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	0.34
5492625	TP9 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	1.1
5492657	TP11 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benz(a)anthracene	0.5	2.1
5492657	TP11 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	1.2
5492657	TP11 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	0.78	1.6
5492657	TP11 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Dibenz(a,h)anthracene	0.1	0.12
5492657	TP11 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	3.6
5492657	TP11 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Indeno(1,2,3-cd)pyrene	0.38	0.47
5492658	TP12 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	0.73
5492688	TP Dup1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benz(a)anthracene	0.5	1.0
5492688	TP Dup1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	0.62
5492688	TP Dup1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	0.78	0.88
5492688	TP Dup1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	1.8
5492701	TP2 Sa2	T3(RPI) - Current	O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)	F1 (C6 to C10) minus BTEX	55	520
5492701	TP2 Sa2	T3(RPI) - Current	O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)	F2 (C10 to C16)	98	160
5492701	TP2 Sa2	T3(RPI) - Current	O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)	F3 (C16 to C34)	300	630
5492701	TP2 Sa2	T3(RPI) - Current	O. Reg. 153(511) - VOCs (Soil)	Xylene Mixture	3.1	7.3
5492734	TP5 Sa2	T3(RPI) - Current	O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)	F1 (C6 to C10) minus BTEX	55	280
5492734	TP5 Sa2	T3(RPI) - Current	O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)	F2 (C10 to C16)	98	99
5492734	TP5 Sa2	T3(RPI) - Current	O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)	F3 (C16 to C34)	300	450
5492770	TP7 Sa3	T3(RPI) - Current	O. Reg. 153(511) - Metals & Inorganics (Soil)	Boron (Hot Water Soluble)	1.5	3.36
5492771	TP Dup3	T3(RPI) - Current	O. Reg. 153(511) - Metals & Inorganics (Soil)	Boron (Hot Water Soluble)	1.5	3.48
5492804	BH 6D SS7	T3(RPI) - Current	O. Reg. 153(511) - Metals & Inorganics (Soil)	Boron (Hot Water Soluble)	1.5	2.06
5492804	BH 6D SS7	T3(RPI) - Current	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	0.7	0.984

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123

SAMPLING SITE:

AGAT WORK ORDER: 14T853931

ATTENTION TO: Freesia Waxman

SAMPLED BY:

Soil Analysis

RPT Date: Jun 30, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	1	5492659	< 0.8	< 0.8	0.0%	< 0.8	99%	70%	130%	102%	80%	120%	92%	70%	130%
Arsenic	1	5492659	4	4	0.0%	< 1	112%	70%	130%	109%	80%	120%	98%	70%	130%
Barium	1	5492659	77	90	15.6%	< 2	95%	70%	130%	103%	80%	120%	90%	70%	130%
Beryllium	1	5492659	0.7	0.7	0.0%	< 0.5	95%	70%	130%	94%	80%	120%	96%	70%	130%
Boron	1	5492659	9	9	0.0%	< 5	78%	70%	130%	84%	80%	120%	93%	70%	130%
Boron (Hot Water Soluble)	5492659	5492659	0.41	0.54	0.0%	< 0.10	104%	60%	140%	106%	70%	130%	108%	60%	140%
Cadmium	1	5492659	< 0.5	< 0.5	0.0%	< 0.5	102%	70%	130%	107%	80%	120%	94%	70%	130%
Chromium	1	5492659	14	14	0.0%	< 2	102%	70%	130%	99%	80%	120%	87%	70%	130%
Cobalt	1	5492659	4.2	4.5	6.9%	< 0.5	101%	70%	130%	87%	80%	120%	101%	70%	130%
Copper	1	5492659	22	22	0.0%	< 1	97%	70%	130%	106%	80%	120%	87%	70%	130%
Lead	1	5492659	41	45	9.3%	< 1	99%	70%	130%	102%	80%	120%	91%	70%	130%
Molybdenum	1	5492659	0.7	0.8	13.3%	< 0.5	97%	70%	130%	101%	80%	120%	95%	70%	130%
Nickel	1	5492659	11	13	16.7%	< 1	106%	70%	130%	99%	80%	120%	102%	70%	130%
Selenium	1	5492659	< 0.4	< 0.4	0.0%	< 0.4	110%	70%	130%	113%	80%	120%	88%	70%	130%
Silver	1	5492659	< 0.2	< 0.2	0.0%	< 0.2	100%	70%	130%	109%	80%	120%	93%	70%	130%
Thallium	1	5492659	< 0.4	< 0.4	0.0%	< 0.4	104%	70%	130%	103%	80%	120%	85%	70%	130%
Uranium	1	5492659	0.6	0.7	15.4%	< 0.5	105%	70%	130%	106%	80%	120%	89%	70%	130%
Vanadium	1	5492659	15	15	0.0%	< 1	94%	70%	130%	90%	80%	120%	98%	70%	130%
Zinc	1	5492659	184	137	29.3%	< 5	101%	70%	130%	108%	80%	120%	101%	70%	130%
Chromium VI	1	5492739	< 0.2	< 0.2	0.0%	< 0.2	99%	70%	130%	100%	80%	120%	103%	70%	130%
Cyanide	5492659	5492659	<0.040	<0.040	0.0%	< 0.040	98%	70%	130%	108%	80%	120%	116%	70%	130%
Mercury	1	5492659	< 0.10	< 0.10	0.0%	< 0.10	116%	70%	130%	107%	80%	120%	86%	70%	130%
Electrical Conductivity (2:1)	1	5492659	0.116	0.115	0.9%	< 0.005	99%	90%	110%	NA			NA		
Sodium Adsorption Ratio (2:1)	5492659	5492659	0.060	0.064	7.5%	NA	NA			NA			NA		
pH, 2:1 CaCl2 Extraction	1	5492659	8.19	8.20	0.1%	NA	100%	80%	120%	NA			NA		

Comments: NA signifies Not Applicable.

Certified By: Tony Nash

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123

SAMPLING SITE:

AGAT WORK ORDER: 14T853931

ATTENTION TO: Freesia Waxman

SAMPLED BY:

Trace Organics Analysis

RPT Date: Jun 30, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	82%	50%	140%	58%	50%	140%	52%	50%	140%
Acenaphthylene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	86%	50%	140%	63%	50%	140%	56%	50%	140%
Acenaphthene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	87%	50%	140%	65%	50%	140%	57%	50%	140%
Fluorene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	88%	50%	140%	70%	50%	140%	58%	50%	140%
Phenanthrene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	86%	50%	140%	76%	50%	140%	62%	50%	140%
Anthracene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	101%	50%	140%	75%	50%	140%	60%	50%	140%
Fluoranthene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	87%	50%	140%	75%	50%	140%
Pyrene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	97%	50%	140%	89%	50%	140%	76%	50%	140%
Benz(a)anthracene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	85%	50%	140%	75%	50%	140%	66%	50%	140%
Chrysene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	96%	50%	140%	82%	50%	140%	73%	50%	140%
Benzo(b)fluoranthene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	99%	50%	140%	104%	50%	140%	72%	50%	140%
Benzo(k)fluoranthene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	119%	50%	140%	120%	50%	140%	86%	50%	140%
Benzo(a)pyrene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	95%	50%	140%	99%	50%	140%	78%	50%	140%
Indeno(1,2,3-cd)pyrene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	73%	50%	140%	53%	50%	140%	60%	50%	140%
Dibenz(a,h)anthracene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	72%	50%	140%	57%	50%	140%	64%	50%	140%
Benzo(g,h,i)perylene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	53%	50%	140%	60%	50%	140%
2-and 1-methyl Naphthalene	1	5492655	< 0.05	< 0.05	0.0%	< 0.05	84%	50%	140%	69%	50%	140%	53%	50%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	1	5492687	< 0.05	< 0.05	0.0%	< 0.05	72%	50%	140%	75%	50%	140%	57%	50%	140%
Acenaphthylene	1	5492687	< 0.05	< 0.05	0.0%	< 0.05	75%	50%	140%	73%	50%	140%	63%	50%	140%
Acenaphthene	1	5492687	< 0.05	< 0.05	0.0%	< 0.05	79%	50%	140%	80%	50%	140%	65%	50%	140%
Fluorene	1	5492687	< 0.05	< 0.05	0.0%	< 0.05	81%	50%	140%	81%	50%	140%	64%	50%	140%
Phenanthrene	1	5492687	0.11	0.13	16.7%	< 0.05	84%	50%	140%	87%	50%	140%	71%	50%	140%
Anthracene	1	5492687	< 0.05	0.05	0.0%	< 0.05	92%	50%	140%	77%	50%	140%	66%	50%	140%
Fluoranthene	1	5492687	0.44	0.57	25.7%	< 0.05	99%	50%	140%	94%	50%	140%	81%	50%	140%
Pyrene	1	5492687	0.41	0.54	27.4%	< 0.05	98%	50%	140%	95%	50%	140%	82%	50%	140%
Benz(a)anthracene	1	5492687	0.23	0.28	19.6%	< 0.05	92%	50%	140%	75%	50%	140%	77%	50%	140%
Chrysene	1	5492687	0.28	0.31	10.2%	< 0.05	93%	50%	140%	90%	50%	140%	85%	50%	140%
Benzo(b)fluoranthene	1	5492687	0.27	0.33	20.0%	< 0.05	115%	50%	140%	102%	50%	140%	69%	50%	140%
Benzo(k)fluoranthene	1	5492687	0.19	0.23	19.0%	< 0.05	124%	50%	140%	111%	50%	140%	80%	50%	140%
Benzo(a)pyrene	1	5492687	0.17	0.21	21.1%	< 0.05	103%	50%	140%	95%	50%	140%	76%	50%	140%
Indeno(1,2,3-cd)pyrene	1	5492687	0.10	0.13	26.1%	< 0.05	110%	50%	140%	87%	50%	140%	68%	50%	140%
Dibenz(a,h)anthracene	1	5492687	< 0.05	< 0.05	0.0%	< 0.05	108%	50%	140%	87%	50%	140%	67%	50%	140%
Benzo(g,h,i)perylene	1	5492687	0.15	0.15	0.0%	< 0.05	132%	50%	140%	90%	50%	140%	72%	50%	140%
2-and 1-methyl Naphthalene	1	5492687	< 0.05	< 0.05	0.0%	< 0.05	79%	50%	140%	75%	50%	140%	59%	50%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	1	5492688	< 0.05	< 0.05	0.0%	< 0.05	72%	50%	140%	75%	50%	140%	57%	50%	140%
Acenaphthylene	1	5492688	< 0.05	< 0.05	0.0%	< 0.05	75%	50%	140%	73%	50%	140%	63%	50%	140%

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14T853931

PROJECT: 14123

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Jun 30, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Acenaphthene	1	5492688	0.05	0.06	18.2%	< 0.05	79%	50%	140%	80%	50%	140%	65%	50%	140%
Fluorene	1	5492688	< 0.05	< 0.05	0.0%	< 0.05	81%	50%	140%	81%	50%	140%	64%	50%	140%
Phenanthrene	1	5492688	0.58	0.58	0.0%	< 0.05	84%	50%	140%	87%	50%	140%	71%	50%	140%
Anthracene	1	5492688	0.16	0.15	6.5%	< 0.05	92%	50%	140%	77%	50%	140%	66%	50%	140%
Fluoranthene	1	5492688	1.8	1.4	25.0%	< 0.05	99%	50%	140%	94%	50%	140%	81%	50%	140%
Pyrene	1	5492688	1.6	1.4	13.3%	< 0.05	98%	50%	140%	95%	50%	140%	82%	50%	140%
Benz(a)anthracene	1	5492688	1.0	0.80	22.2%	< 0.05	92%	50%	140%	75%	50%	140%	77%	50%	140%
Chrysene	1	5492688	0.96	0.76	23.3%	< 0.05	93%	50%	140%	90%	50%	140%	85%	50%	140%
Benzo(b)fluoranthene	1	5492688	0.88	0.77	13.3%	< 0.05	115%	50%	140%	102%	50%	140%	69%	50%	140%
Benzo(k)fluoranthene	1	5492688	0.34	0.35	2.9%	< 0.05	124%	50%	140%	111%	50%	140%	80%	50%	140%
Benzo(a)pyrene	1	5492688	0.62	0.53	15.7%	< 0.05	103%	50%	140%	95%	50%	140%	76%	50%	140%
Indeno(1,2,3-cd)pyrene	1	5492688	0.28	0.30	6.9%	< 0.05	110%	50%	140%	87%	50%	140%	68%	50%	140%
Dibenz(a,h)anthracene	1	5492688	0.07	0.08	13.3%	< 0.05	108%	50%	140%	87%	50%	140%	67%	50%	140%
Benzo(g,h,i)perylene	1	5492688	0.28	0.29	3.5%	< 0.05	132%	50%	140%	90%	50%	140%	72%	50%	140%
2-and 1-methyl Naphthalene	1	5492688	< 0.05	< 0.05	0.0%	< 0.05	79%	50%	140%	75%	50%	140%	59%	50%	140%
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	1		< 0.05	< 0.05	0.0%	< 0.05	76%	50%	140%	76%	50%	140%	103%	50%	140%
Vinyl Chloride	1		< 0.02	< 0.02	0.0%	< 0.02	73%	50%	140%	112%	50%	140%	67%	50%	140%
Bromomethane	1		< 0.05	< 0.05	0.0%	< 0.05	73%	50%	140%	106%	50%	140%	82%	50%	140%
Trichlorofluoromethane	1		< 0.05	< 0.05	0.0%	< 0.05	64%	50%	140%	116%	50%	140%	73%	50%	140%
Acetone	1		< 0.50	< 0.50	0.0%	< 0.50	108%	50%	140%	90%	50%	140%	128%	50%	140%
1,1-Dichloroethylene	1		< 0.05	< 0.05	0.0%	< 0.05	108%	50%	140%	114%	60%	130%	110%	50%	140%
Methylene Chloride	1		< 0.05	< 0.05	0.0%	< 0.05	103%	50%	140%	104%	60%	130%	113%	50%	140%
Trans- 1,2-Dichloroethylene	1		< 0.05	< 0.05	0.0%	< 0.05	111%	50%	140%	99%	60%	130%	104%	50%	140%
Methyl tert-butyl Ether	1		< 0.05	< 0.05	0.0%	< 0.05	108%	50%	140%	102%	60%	130%	110%	50%	140%
1,1-Dichloroethane	1		< 0.02	< 0.02	0.0%	< 0.02	108%	50%	140%	101%	60%	130%	87%	50%	140%
Methyl Ethyl Ketone	1		< 0.50	< 0.50	0.0%	< 0.50	90%	50%	140%	127%	50%	140%	113%	50%	140%
Cis- 1,2-Dichloroethylene	1		< 0.02	< 0.02	0.0%	< 0.02	112%	50%	140%	111%	60%	130%	83%	50%	140%
Chloroform	1		< 0.04	< 0.04	0.0%	< 0.04	104%	50%	140%	116%	60%	130%	72%	50%	140%
1,2-Dichloroethane	1		< 0.03	< 0.03	0.0%	< 0.03	95%	50%	140%	101%	60%	130%	93%	50%	140%
1,1,1-Trichloroethane	1		< 0.05	< 0.05	0.0%	< 0.05	108%	50%	140%	105%	60%	130%	85%	50%	140%
Carbon Tetrachloride	1		< 0.05	< 0.05	0.0%	< 0.05	100%	50%	140%	102%	60%	130%	81%	50%	140%
Benzene	1		< 0.02	< 0.02	0.0%	< 0.02	110%	50%	140%	102%	60%	130%	106%	50%	140%
1,2-Dichloropropane	1		< 0.03	< 0.03	0.0%	< 0.03	102%	50%	140%	116%	60%	130%	101%	50%	140%
Trichloroethylene	1		< 0.03	< 0.03	0.0%	< 0.03	91%	50%	140%	117%	60%	130%	81%	50%	140%
Bromodichloromethane	1		< 0.05	< 0.05	0.0%	< 0.05	97%	50%	140%	99%	60%	130%	82%	50%	140%
Methyl Isobutyl Ketone	1		< 0.50	< 0.50	0.0%	< 0.50	77%	50%	140%	125%	50%	140%	100%	50%	140%
1,1,2-Trichloroethane	1		< 0.04	< 0.04	0.0%	< 0.04	91%	50%	140%	117%	60%	130%	105%	50%	140%
Toluene	1		< 0.05	< 0.05	0.0%	< 0.05	96%	50%	140%	96%	60%	130%	100%	50%	140%

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Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123

SAMPLING SITE:

AGAT WORK ORDER: 14T853931

ATTENTION TO: Freesia Waxman

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Jun 30, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Dibromochloromethane	1		< 0.05	< 0.05	0.0%	< 0.05	108%	50%	140%	97%	60%	130%	79%	50%	140%
Ethylene Dibromide	1		< 0.04	< 0.04	0.0%	< 0.04	83%	50%	140%	113%	60%	130%	100%	50%	140%
Tetrachloroethylene	1		< 0.05	< 0.05	0.0%	< 0.05	118%	50%	140%	106%	60%	130%	85%	50%	140%
1,1,1,2-Tetrachloroethane	1		< 0.04	< 0.04	0.0%	< 0.04	84%	50%	140%	103%	60%	130%	74%	50%	140%
Chlorobenzene	1		< 0.05	< 0.05	0.0%	< 0.05	116%	50%	140%	103%	60%	130%	75%	50%	140%
Ethylbenzene	1		< 0.05	< 0.05	0.0%	< 0.05	102%	50%	140%	89%	60%	130%	62%	50%	140%
m & p-Xylene	1		< 0.05	< 0.05	0.0%	< 0.05	112%	50%	140%	98%	60%	130%	69%	50%	140%
Bromoform	1		< 0.05	< 0.05	0.0%	< 0.05	103%	50%	140%	94%	60%	130%	74%	50%	140%
Styrene	1		< 0.05	< 0.05	0.0%	< 0.05	111%	50%	140%	106%	60%	130%	77%	50%	140%
1,1,2,2-Tetrachloroethane	1		< 0.05	< 0.05	0.0%	< 0.05	100%	50%	140%	102%	60%	130%	96%	50%	140%
o-Xylene	1		< 0.05	< 0.05	0.0%	< 0.05	111%	50%	140%	96%	60%	130%	74%	50%	140%
1,3-Dichlorobenzene	1		< 0.05	< 0.05	0.0%	< 0.05	88%	50%	140%	87%	60%	130%	99%	50%	140%
1,4-Dichlorobenzene	1		< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	83%	60%	130%	76%	50%	140%
1,2-Dichlorobenzene	1		< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	81%	60%	130%	84%	50%	140%
1,3-Dichloropropene	1		< 0.04	< 0.04	0.0%	< 0.04	90%	50%	140%	108%	60%	130%	109%	50%	140%
n-Hexane	1		< 0.05	< 0.05	0.0%	< 0.05	114%	50%	140%	111%	60%	130%	109%	50%	140%
Comments: NA Signifies Not Applicable															
O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)															
F1 (C6 to C10)	1		< 5	< 5	0.0%	< 5	97%	60%	140%	100%	80%	120%	85%	60%	140%
F2 (C10 to C16)	1		< 10	< 10	0.0%	< 10	101%	60%	140%	98%	80%	120%	110%	60%	140%
F3 (C16 to C34)	1		< 50	< 50	0.0%	< 50	109%	60%	140%	98%	80%	120%	116%	60%	140%
F4 (C34 to C50)	1		< 50	< 50	0.0%	< 50	91%	60%	140%	110%	80%	120%	89%	60%	140%
O. Reg. 153(511) - PCBs (Soil)															
Aroclor 1242	1		< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1248	1		< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1254	1		< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1260	1		< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Polychlorinated Biphenyls	1		< 0.1	< 0.1	0.0%	< 0.1	117%	60%	140%	102%	60%	140%	95%	60%	140%

Certified By: N Popnikoloff

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AGAT Laboratories

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FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14T853931

PROJECT: 14123

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Barium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	EPA SW 846 6010C; MSA, Part 3, Ch.21	ICP/OES
Cadmium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Copper	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Lead	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Nickel	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Selenium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Silver	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Thallium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Uranium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Zinc	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium VI	INOR-93-6029	SM 3500 B; MSA Part 3, Ch. 25	SPECTROPHOTOMETER
Cyanide	INOR-93-6052	MOE CN-3015 & E 3009 A;SM 4500 CN	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6036	McKeague 4.12, SM 2510 B	EC METER
Sodium Adsorption Ratio (2:1)	INOR-93-6007	McKeague 4.12 & 3.26 & EPA SW-846 6010B	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	MSA part 3 & SM 4500-H+ B	PH METER

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14T853931

PROJECT: 14123

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluorene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Phenanthrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benz(a)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Chrysene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(a)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Moisture Content	ORG-91-5106	EPA SW-846 3541 & 8270	BALANCE
Chrysene-d12	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
wet weight	ORG-91-5106	EPA SW-846 3541 & 8270	BALANCE
Aroclor 1242	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD
Aroclor 1248	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD
Aroclor 1254	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD
Aroclor 1260	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD
Polychlorinated Biphenyls	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD
Decachlorobiphenyl	ORG-91-5113	EPA SW-846 3541 & 8082	GC/ECD
Moisture Content		MOE E3139	BALANCE
F1 (C6 to C10)	VOL-91-5009	CCME Tier 1 Method, SW846 5035	P &T GC / FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method, SW846 5035	P & T GC / FID
F2 (C10 to C16)	VOL-91-5009	CCME Tier 1 Method	GC / FID
F3 (C16 to C34)	VOL-91-5009	CCME Tier 1 Method	GC / FID
F4 (C34 to C50)	VOL-91-5009	CCME Tier 1 Method	GC / FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	CCME Tier 1 Method	GRAVIMETRIC ANALYSIS
Moisture Content	VOL-91-5009	CCME Tier 1 Method, SW846 5035,8015	BALANCE
Terphenyl	VOL-91-5009		GC/FID
Dichlorodifluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromomethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Acetone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Chloroform	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14T853931

PROJECT: 14123

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,2-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Benzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Toluene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromoform	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Styrene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
o-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Xylene Mixture	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
n-Hexane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Toluene-d8	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS

Results relate only to the items tested and to all the items tested

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L4Z 1Y2
www.agatlabs.com · webearth.agatlabs.com
P: 905.712.5100 · F: 905.712.5122

Chain of Custody Record

Laboratory Use Only

Arrival Temperature: 4 4 4 0 3 9
AGAT WO #:
Lab Temperature: 3.1 3.0 2.8
Notes: 14T853931

Client Information

Company: Landtek Limited
Contact: Freesia Waxman
Address: 205 Nebo Rd.

Phone: Fax:
Project: 19123 PO:
AGAT Quotation #:

Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements

- [x] Regulation 153/04 (reg. 511 Amend.)
  - Table: 3 (Indicate one)
  - [ ] Ind/Com
  - [x] Res/Park
  - [ ] Agriculture
  - Soil Texture (check one): [x] Coarse [ ] Fine
- [ ] Sewer Use
  - Region: (Indicate one)
  - [ ] Sanitary
  - [ ] Storm
- [ ] Regulation 558
- [ ] CCME
- [ ] Other (specify)
- [ ] Prov. Water Quality Objectives (PWQO)
- [ ] None

Turnaround Time Required (TAT) Required*

Regular TAT

[x] 5 to 7 Working Days

Rush TAT (please provide prior notification)

Rush Surcharges Apply

- [ ] 3 Working Days
- [ ] 2 Working Days
- [ ] 1 Working Day

OR

Date Required (Rush surcharges may apply):

*TAT is exclusive of weekends and statutory holidays

Invoice To

Same: Yes [x] No [ ]

Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) [ ] Yes [ ] No

If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a Record of Site Condition? [x] Yes [ ] No

Legend Matrix

GW	Ground Water	O	Oil
SW	Surface Water	P	Paint
SD	Sediment	S	Soil

Report Information – reports to be sent to:

1. Name: Freesia Waxman
   Email: freesia@landteklimited.com
2. Name:
   Email:

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl- ☐ CN- ☐ EC ☐ FOC ☐ Cr+6- ☐ SAR ☐ NO_3/NO_2 ☐ N- Total ☐ Hg ☐ pH	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	VOC: ☐ VOC ☐ THM ☐ BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
TP9 Sa1	June 5/19		S												✓				
TP9 Sa2															✓				
TP10 Sa1															✓				
TP10 Sa2															✓				
TP11 Sa1															✓				
TP12 Sa1															✓				
TP13 Sa1						✓													
TP14 Sa1															✓				
TP14 Sa2															✓				
TP15 Sa1						✓									✓				
TP Dup1															✓				
TP2 Sa1						✓													

Samples Relinquished By (Print Name and Sign): Kaitlyn Mitz
Date/Time: June 19/19
Samples Received By (Print Name and Sign): 12:20 pm
Date/Time: 2
Samples Relinquished By (Print Name and Sign):
Date/Time:
Samples Received By (Print Name and Sign):
Date/Time:

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

Nº: 24973

AGAT Laboratories

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Chain of Custody Record

Laboratory Use Only
Arrival Temperature: 4 4 4.0 3.9
AGAT WO #:
Lab Temperature: 3.7 3.0 2.8
Notes:

Client Information
Company: Landtek Limited
Contact: Freesia Wexman
Address:
Phone: Fax:
Project: 14123 PO:
AGAT Quotation #:
Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements
☑ Regulation 153/04 (reg 511 Amend.) Table 3 (Indicate one)
☐ Ind/Com ☑ Res/Park ☐ Agriculture
Soil Texture (check one): ☑ Coarse ☐ Fine
☐ Sewer Use — Region (Indicate one) ☐ Sanitary ☐ Storm
☐ Regulation 558 ☐ CCME ☐ Other (specify) ☐ Prov. Water Quality Objectives (PWQO) ☐ None

Turnaround Time Required (TAT) Required*
Regular TAT
☑ 5 to 7 Working Days
Rush TAT (please provide prior notification)
Rush Surcharges Apply
☐ 3 Working Days ☐ 2 Working Days ☐ 1 Working Day
OR
Date Required (Rush surcharges may apply):
*TAT is exclusive of weekends and statutory holidays

Invoice To
Same: Yes ☑ No ☐
Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) ☐ Yes ☐ No
If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a **Record of Site Condition?** ☑ Yes ☐ No

Legend Matrix
GW Ground Water · O Oil
SW Surface Water · P Paint
SD Sediment · S Soil

Report Information – reports to be sent to:
1. Name: Freesia Wexman
Email: freesia@landteklimited.com
2. Name:
Email:

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl- ☐ CN- ☐ EC ☐ FOC ☐ Cr+6 ☐ SAR ☐ NO_3/NO_2 ☐ N-Total ☐ Hg ☐ pH	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	VOC: ☐ VOC ☐ THM ☐ BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
TP2 Sa2	June 15/14		S									✓	✓			✓			
TP2 Sa3						✓						✓	✓						
TP5 Sa1						✓													
TP5 Sa2												✓	✓			✓			
TP5 Sa3						✓						✓	✓						
TP Dup 2																✓			
TP7 Sa2						✓										✓			
TP7 Sa1						✓													
TP7 Sa3					– no PAH sample	✓									✓				
TP Dup 3						✓													
TP8 Sa1						✓													
TP17 Sa1	June 16/14		S			✓													

Samples Relinquished By (Print Name and Sign): Kathy Crabtree — Date/Time: June 19/14 1:20pm
Samples Received By (Print Name and Sign): H Emmanuel — Date/Time: 2 —
Samples Relinquished By (Print Name and Sign): — Date/Time:
Samples Received By (Print Name and Sign): — Date/Time: 2-25

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

N°: 39982

AGAT Laboratories

5835 Coopers Avenue
Mississauga, ON
L4Z 1Y2
www.agatlabs.com · webearth.agatlabs.com
P: 905.712.5100 · F: 905.712.5122

Chain of Custody Record

Laboratory Use Only
Arrival Temperature: 4 / 4.8 3.9
AGAT WO #:
Lab Temperature: 3.30 2.8
Notes:

Client Information
Company: Landtek Limited
Contact: Freesia Waxman
Address:
Phone: Fax:
Project: 14123 PO:
AGAT Quotation #:
Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements
- [x] Regulation 153/04 (reg. 511 Amend.) — Table 3 (indicate one)
  - [ ] Ind/Com
  - [x] Res/Park
  - [ ] Agriculture
- Soil Texture (check one): [x] Coarse [ ] Fine
- [ ] Sewer Use — Region (indicate one)
  - [ ] Sanitary
  - [ ] Storm
- [ ] Regulation 558
- [ ] CCME
- [ ] Other (specify)
- [ ] Prov. Water Quality Objectives (PWQO)
- [ ] None

Turnaround Time Required (TAT) Required*
Regular TAT
- [x] 5 to 7 Working Days

Rush TAT (please provide prior notification)
Rush Surcharges Apply
- [ ] 3 Working Days
- [ ] 2 Working Days
- [ ] 1 Working Day

OR
Date Required (Rush surcharges may apply):
*TAT is exclusive of weekends and statutory holidays

Invoice To
Same: Yes [x] No [ ]
Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) [ ] Yes [ ] No
If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a **Record of Site Condition?** [x] Yes [ ] No

Legend Matrix
GW Ground Water · O Oil · SW Surface Water · P Paint · SD Sediment · S Soil

Report Information – reports to be sent to:
1. Name: F. Waxman
   Email: freesia@landteklimited.com
2. Name:
   Email:

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: B-HWS, Cl-, CN-, EC, FOC, Cr+6-, SAR, N- Total, Hg, pH	Nutrients: TP, NH_3, TKN, NO_3, NO_2, NO_3/NO_2	VOC: VOC, THM, BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
TP19 Sa 2	June 16/14		S			✓						✓	✓							
TP20 Sa2	↓		↓			✓						✓	✓							
TP21 Sa1						✓						✓	✓							
TP23 Sa 1						✓						✓	✓							
TP Dup4												✓	✓							
TP Dup 5	June 5/14		S			✓														
BH 6D SS7	June 6/14		S			✓														

Samples Relinquished By (Print Name and Sign): Kathy Craig — Date/Time: June 19/14 1:2[illegible]
Samples Received By (Print Name and Sign): — Date/Time: 2
Samples Received By (Print Name and Sign): — Date/Time: 4 45

Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT

N°: 23452

AGAT Laboratories

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CANADA L4Z 1Y2
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FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Freesia Waxman

PROJECT: 14123

AGAT WORK ORDER: 14T858047

SOIL ANALYSIS REVIEWED BY: Anthony Dapaah, PhD (Chem), Inorganic Lab Manager

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Jul 08, 2014

PAGES (INCLUDING COVER): 7

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

Results relate only to the items tested and to all the items tested

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Certificate of Analysis

AGAT WORK ORDER: 14T858047

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2014-06-30

DATE REPORTED: 2014-07-08

		SAMPLE DESCRIPTION:		BH 11D SS6	BH 10D SS4	BH 6D SS8	BH 5D SS3	BH Dup 7
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		6/17/2014	6/16/2014	6/16/2014	6/16/2014	6/16/2014
Parameter	Unit	G / S	RDL	5530836	5530837	5530842	5530848	5530850
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	6	4	4	3	5
Barium	µg/g	390	2	123	219	110	62	122
Beryllium	µg/g	4	0.5	0.9	0.9	<0.5	0.9	0.8
Boron	µg/g	120	5	16	30	19	23	15
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.41	0.32	**2.22**	0.42	0.37
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	2	25	22	14	21	25
Cobalt	µg/g	22	0.5	16.0	15.5	7.4	13.8	15.3
Copper	µg/g	140	1	36	16	12	13	33
Lead	µg/g	120	1	11	8	7	7	11
Molybdenum	µg/g	6.9	0.5	0.8	1.0	0.6	0.5	0.7
Nickel	µg/g	100	1	35	32	15	28	35
Selenium	µg/g	2.4	0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Silver	µg/g	20	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	µg/g	1	0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Uranium	µg/g	23	0.5	0.9	0.6	0.6	0.6	0.7
Vanadium	µg/g	86	1	34	28	16	25	34
Zinc	µg/g	340	5	72	65	34	60	67
Chromium VI	µg/g	8	0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	0.7	0.005	0.242	0.120	**1.45**	0.174	0.270
Sodium Adsorption Ratio (2:1)	NA	5	NA	0.212	1.38	4.73	3.24	0.197
pH, 2:1 CaCl2 Extraction	pH Units		NA	8.04	8.01	8.11	7.89	8.12

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5530836-5530850 EC & SAR were determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio.

Certified By:

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 14T858047

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2014-06-30

DATE REPORTED: 2014-07-08

		SAMPLE DESCRIPTION:		TP16 Sa1	TP13 Sa1	TP20 Sa1	TP20 Sa2	TP21 Sa1	TP Dup6
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		6/16/2014	6/16/2014	6/16/2014	6/16/2014	6/16/2014	6/16/2014
Parameter	**Unit**	**G / S**	**RDL**	**5530776**	**5530802**	**5530809**	**5530820**	**5530822**	**5530823**
Naphthalene	µg/g	0.6	0.05	0.10	<0.05	<0.05	<0.05	<0.05	0.08
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	7.9	0.05	0.98	0.10	0.17	<0.05	0.18	0.78
Fluorene	µg/g	62	0.05	0.72	0.08	0.13	<0.05	0.12	0.73
Phenanthrene	µg/g	6.2	0.05	**8.7**	1.2	1.9	0.46	1.7	**6.8**
Anthracene	µg/g	0.67	0.05	**2.0**	0.24	0.39	0.15	0.36	**1.6**
Fluoranthene	µg/g	0.69	0.05	**11**	**1.9**	**2.9**	**0.78**	**2.6**	**11**
Pyrene	µg/g	78	0.05	9.4	2.0	2.5	0.61	2.1	9.9
Benz(a)anthracene	µg/g	0.5	0.05	**4.2**	0.14	**1.4**	0.37	**1.4**	**4.6**
Chrysene	µg/g	7	0.05	4.0	1.1	1.4	0.34	1.4	4.6
Benzo(b)fluoranthene	µg/g	0.78	0.05	**4.0**	**1.4**	**1.9**	0.39	**1.5**	**4.7**
Benzo(k)fluoranthene	µg/g	0.78	0.05	**2.0**	0.54	0.69	0.15	0.61	**1.9**
Benzo(a)pyrene	µg/g	0.3	0.05	**2.9**	**1.0**	**1.4**	0.28	**1.1**	**3.6**
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	**1.7**	**0.52**	**0.71**	0.13	**0.57**	**1.7**
Dibenz(a,h)anthracene	µg/g	0.1	0.05	**0.41**	**0.11**	**0.15**	<0.05	**0.13**	**0.41**
Benzo(g,h,i)perylene	µg/g	6.6	0.05	1.7	0.58	0.77	0.14	0.61	1.8
2-and 1-methyl Naphthalene	µg/g	0.99	0.05	0.10	<0.05	<0.05	<0.05	<0.05	0.11
Moisture Content	%		0.1	10.2	7.1	5.7	14.0	5.9	10.0
wet weight	g		NA	10.53	10.05	10.48	10.72	10.16	10.42
Surrogate	**Unit**	**Acceptable Limits**							
Chrysene-d12	%	50-140		63	69	66	72	71	65

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5530776-5530823 Results are based on the dry weight of the soil.

Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

Certified By: N Popnikolof

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Guideline Violation

AGAT WORK ORDER: 14T858047

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Freesia Waxman

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
5530776	TP16 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Anthracene	0.67	2.0
5530776	TP16 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benz(a)anthracene	0.5	4.2
5530776	TP16 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	2.9
5530776	TP16 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	0.78	4.0
5530776	TP16 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(k)fluoranthene	0.78	2.0
5530776	TP16 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Dibenz(a,h)anthracene	0.1	0.41
5530776	TP16 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	11
5530776	TP16 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Indeno(1,2,3-cd)pyrene	0.38	1.7
5530776	TP16 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Phenanthrene	6.2	8.7
5530802	TP13 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	1.0
5530802	TP13 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	0.78	1.4
5530802	TP13 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Dibenz(a,h)anthracene	0.1	0.11
5530802	TP13 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	1.9
5530802	TP13 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Indeno(1,2,3-cd)pyrene	0.38	0.52
5530809	TP20 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benz(a)anthracene	0.5	1.4
5530809	TP20 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	1.4
5530809	TP20 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	0.78	1.9
5530809	TP20 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Dibenz(a,h)anthracene	0.1	0.15
5530809	TP20 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	2.9
5530809	TP20 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Indeno(1,2,3-cd)pyrene	0.38	0.71
5530820	TP20 Sa2	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	0.78
5530822	TP21 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benz(a)anthracene	0.5	1.4
5530822	TP21 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	1.1
5530822	TP21 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	0.78	1.5
5530822	TP21 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Dibenz(a,h)anthracene	0.1	0.13
5530822	TP21 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	2.6
5530822	TP21 Sa1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Indeno(1,2,3-cd)pyrene	0.38	0.57
5530823	TP Dup6	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Anthracene	0.67	1.6
5530823	TP Dup6	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benz(a)anthracene	0.5	4.6
5530823	TP Dup6	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	3.6
5530823	TP Dup6	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	0.78	4.7
5530823	TP Dup6	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(k)fluoranthene	0.78	1.9
5530823	TP Dup6	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Dibenz(a,h)anthracene	0.1	0.41
5530823	TP Dup6	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	11
5530823	TP Dup6	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Indeno(1,2,3-cd)pyrene	0.38	1.7
5530823	TP Dup6	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Phenanthrene	6.2	6.8
5530842	BH 6D SS8	T3(RPI) - Current	O. Reg. 153(511) - Metals & Inorganics (Soil)	Boron (Hot Water Soluble)	1.5	2.22
5530842	BH 6D SS8	T3(RPI) - Current	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	0.7	1.45

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14T858047

PROJECT: 14123

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

Soil Analysis

RPT Date: Jul 08, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	1		< 0.8	< 0.8	0.0%	< 0.8	106%	70%	130%	91%	80%	120%	95%	70%	130%
Arsenic	1		3	3	0.0%	< 1	116%	70%	130%	104%	80%	120%	99%	70%	130%
Barium	1		81	88	8.3%	< 2	106%	70%	130%	106%	80%	120%	100%	70%	130%
Beryllium	1		0.5	0.5	0.0%	< 0.5	110%	70%	130%	105%	80%	120%	102%	70%	130%
Boron	1		8	9	11.8%	< 5	100%	70%	130%	109%	80%	120%	96%	70%	130%
Boron (Hot Water Soluble)	5538337		<0.10	<0.10	NR	< 0.10	127%	60%	140%	105%	70%	130%	105%	60%	140%
Cadmium	1		< 0.5	< 0.5	0.0%	< 0.5	113%	70%	130%	114%	80%	120%	103%	70%	130%
Chromium	1		19	19	0.0%	< 2	108%	70%	130%	116%	80%	120%	97%	70%	130%
Cobalt	1		5.4	6.3	15.4%	< 0.5	106%	70%	130%	109%	80%	120%	96%	70%	130%
Copper	1		16	15	6.5%	< 1	100%	70%	130%	117%	80%	120%	108%	70%	130%
Lead	1		28	24	15.4%	< 1	105%	70%	130%	116%	80%	120%	102%	70%	130%
Molybdenum	1		< 0.5	< 0.5	0.0%	< 0.5	113%	70%	130%	106%	80%	120%	107%	70%	130%
Nickel	1		12	13	8.0%	< 1	97%	70%	130%	120%	80%	120%	92%	70%	130%
Selenium	1		< 0.4	< 0.4	0.0%	< 0.4	85%	70%	130%	110%	80%	120%	108%	70%	130%
Silver	1		< 0.2	< 0.2	0.0%	< 0.2	94%	70%	130%	99%	80%	120%	103%	70%	130%
Thallium	1		< 0.4	< 0.4	0.0%	< 0.4	103%	70%	130%	108%	80%	120%	109%	70%	130%
Uranium	1		0.7	0.6	15.4%	< 0.5	125%	70%	130%	120%	80%	120%	127%	70%	130%
Vanadium	1		24	24	0.0%	< 1	93%	70%	130%	107%	80%	120%	89%	70%	130%
Zinc	1		44	51	14.7%	< 5	97%	70%	130%	105%	80%	120%	71%	70%	130%
Chromium VI	1		< 0.2	< 0.2	0.0%	< 0.2	97%	70%	130%	97%	80%	120%	96%	70%	130%
Cyanide	5530836	5530836	<0.040	<0.040	0.0%	< 0.040	96%	70%	130%	101%	80%	120%	106%	70%	130%
Mercury	1		< 0.10	< 0.10	0.0%	< 0.10	100%	70%	130%	100%	80%	120%	103%	70%	130%
Electrical Conductivity (2:1)	1		0.165	0.165	0.0%	< 0.005	102%	90%	110%	NA			NA		
Sodium Adsorption Ratio (2:1)	5530919		0.209	0.204	2.4%	NA	NA			NA			NA		
pH, 2:1 CaCl2 Extraction	1		7.61	7.61	0.0%	NA	99%	80%	120%	NA			NA		

Comments: NA signifies Not Applicable.

Certified By:

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

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AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
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TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14T858047

PROJECT: 14123

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

Trace Organics Analysis

RPT Date: Jul 08, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	1		< 0.05	< 0.05	0.0%	< 0.05	85%	50%	140%	92%	50%	140%	64%	50%	140%
Acenaphthylene	1		< 0.05	< 0.05	0.0%	< 0.05	94%	50%	140%	98%	50%	140%	68%	50%	140%
Acenaphthene	1		< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	97%	50%	140%	71%	50%	140%
Fluorene	1		< 0.05	< 0.05	0.0%	< 0.05	93%	50%	140%	101%	50%	140%	72%	50%	140%
Phenanthrene	1		< 0.05	< 0.05	0.0%	< 0.05	90%	50%	140%	101%	50%	140%	72%	50%	140%
Anthracene	1		< 0.05	< 0.05	0.0%	< 0.05	101%	50%	140%	94%	50%	140%	70%	50%	140%
Fluoranthene	1		< 0.05	< 0.05	0.0%	< 0.05	97%	50%	140%	101%	50%	140%	93%	50%	140%
Pyrene	1		< 0.05	< 0.05	0.0%	< 0.05	99%	50%	140%	101%	50%	140%	92%	50%	140%
Benz(a)anthracene	1		< 0.05	< 0.05	0.0%	< 0.05	88%	50%	140%	78%	50%	140%	98%	50%	140%
Chrysene	1		< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	93%	50%	140%	99%	50%	140%
Benzo(b)fluoranthene	1		< 0.05	< 0.05	0.0%	< 0.05	93%	50%	140%	93%	50%	140%	86%	50%	140%
Benzo(k)fluoranthene	1		< 0.05	< 0.05	0.0%	< 0.05	106%	50%	140%	106%	50%	140%	89%	50%	140%
Benzo(a)pyrene	1		< 0.05	< 0.05	0.0%	< 0.05	102%	50%	140%	95%	50%	140%	90%	50%	140%
Indeno(1,2,3-cd)pyrene	1		< 0.05	< 0.05	0.0%	< 0.05	87%	50%	140%	85%	50%	140%	53%	50%	140%
Dibenz(a,h)anthracene	1		< 0.05	< 0.05	0.0%	< 0.05	90%	50%	140%	81%	50%	140%	57%	50%	140%
Benzo(g,h,i)perylene	1		< 0.05	< 0.05	0.0%	< 0.05	92%	50%	140%	83%	50%	140%	53%	50%	140%
2-and 1-methyl Naphthalene	1		< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	91%	50%	140%	63%	50%	140%

Certified By: N Popnikolof

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14T858047

PROJECT: 14123

ATTENTION TO: Freesia Waxman

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Barium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	EPA SW 846 6010C; MSA, Part 3, Ch.21	ICP/OES
Cadmium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Copper	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Lead	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Nickel	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Selenium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Silver	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Thallium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Uranium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Zinc	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium VI	INOR-93-6029	SM 3500 B; MSA Part 3, Ch. 25	SPECTROPHOTOMETER
Cyanide	INOR-93-6052	MOE CN-3015 & E 3009 A;SM 4500 CN	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6036	McKeague 4.12, SM 2510 B	EC METER
Sodium Adsorption Ratio (2:1)	INOR-93-6007	McKeague 4.12 & 3.26 & EPA SW-846 6010B	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	MSA part 3 & SM 4500-H+ B	PH METER
Trace Organics Analysis			
Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluorene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Phenanthrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benz(a)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Chrysene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(a)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Moisture Content	ORG-91-5106	EPA SW-846 3541 & 8270	BALANCE
Chrysene-d12	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
wet weight	ORG-91-5106	EPA SW-846 3541 & 8270	BALANCE

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AGAT Laboratories

ON ICE

5835 Coopers Avenue
Mississauga, ON
L4Z 1Y2
www.agatlabs.com · webearth.agatlabs.com
P: 905.712.5100 · F: 905.712.5122

Chain of Custody Record

Laboratory Use Only

Arrival Temperature: 14.1 14.2 12.7
AGAT WO #:
Lab Temperature: 7.1 7.5 5.1
Notes: 14TS58047

Client Information

Company: Landtek Limited
Contact: Freesia Waxman
Address: 205 Nebo Rd.
Phone: Fax:
Project: 14123 PO:
AGAT Quotation #:

Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements

- [x] Regulation 153/04 (reg. 511 Amend.)
  - Table 3 (indicate one)
  - [ ] Ind/Com
  - [x] Res/Park
  - [ ] Agriculture
  - Soil Texture (check one): [x] Coarse [ ] Fine
- [ ] Sewer Use
  - Region (indicate one)
  - [ ] Sanitary
  - [ ] Storm
- [ ] Regulation 558
- [ ] CCME
- [ ] Other (specify)
- [ ] Prov. Water Quality Objectives (PWQO)
- [ ] None

Turnaround Time Required (TAT) Required*

Regular TAT

[x] 5 to 7 Working Days

Rush TAT (please provide prior notification)

Rush Surcharges Apply

- [ ] 3 Working Days
- [ ] 2 Working Days
- [ ] 1 Working Day

OR

Date Required (Rush surcharges may apply):

*TAT is exclusive of weekends and statutory holidays

Invoice To

Same: Yes [x] No [ ]

Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) [ ] Yes [ ] No

If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a **Record of Site Condition?** [x] Yes [ ] No

Legend Matrix

GW Ground Water | O Oil
SW Surface Water | P Paint
SD Sediment | S Soil

Report Information – reports to be sent to:

1. Name: Freesia Waxman
   Email: freesia@landteklimited.com
2. Name:
   Email:

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl- ☐ CN- ☐ EC ☐ FOC ☐ Cr+6- ☐ SAR ☐ Hg ☐ pH ☐ NO_3/NO_2 ☐ N- Total	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	VOC: ☐ VOC ☐ THM ☐ BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
TP16 Sa1	June 16/14		S	1											✓				
TP13 Sa1	↓		↓	↓											✓				
TP20 Sa1															✓				
TP20 Sa2															✓				
TP21 Sa1															✓				
TP Dup6															✓				
BH 11D SS6	June 11/14		S			✓													
BH 10D SS4	June 16/14					✓													
BH 6D SS8	↓					✓													
BH 5D SS3						✓													
BH Dup 7						✓													

Samples Relinquished By (Print Name and Sign)	Date/Time	Samples Received By (Print Name and Sign)	Date/Time
	June 30/14	6 30-14	4:30
Samples Relinquished By (Print Name and Sign)	Date/Time	Sample Received By (Print Name and Sign)	Date/Time

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

Page 1 of 1

N°: 21300

AGAT Laboratories

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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Kevin Roberts

PROJECT: 14123

AGAT WORK ORDER: 14H867478

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

DATE REPORTED: Jul 31, 2014

PAGES (INCLUDING COVER): 7

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

Member of: Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Certificate of Analysis

AGAT WORK ORDER: 14H867478

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Kevin Roberts

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2014-07-24

DATE REPORTED: 2014-07-31

		SAMPLE DESCRIPTION:		TP23	TP24 SA1	TP25 SA1	TP26 SA1	TP27 SA1	TP29 SA1	TP30 SA1	TP31 SA1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		7/16/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014
Parameter	**Unit**	**G / S**	**RDL**	**5615742**	**5615743**	**5615744**	**5615745**	**5615746**	**5615747**	**5615748**	**5615749**
Naphthalene	µg/g	0.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	7.9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	6.2	0.05	0.12	0.05	0.06	<0.05	<0.05	0.13	<0.05	<0.05
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	0.33	0.18	0.08	<0.05	<0.05	0.20	<0.05	<0.05
Pyrene	µg/g	78	0.05	0.28	0.17	0.07	<0.05	<0.05	0.16	<0.05	<0.05
Benz(a)anthracene	µg/g	0.5	0.05	0.13	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	7	0.05	0.13	0.10	<0.05	<0.05	<0.05	0.06	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	0.22	0.13	<0.05	<0.05	<0.05	0.08	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	0.12	0.08	<0.05	<0.05	<0.05	0.06	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	0.13	0.08	<0.05	<0.05	<0.05	0.06	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	6.6	0.05	0.09	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	0.99	0.05	<0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	5.5	9.5	15.2	13.3	11.0	10.4	17.8	6.2
wet weight	g		NA	10.76	10.60	10.41	10.31	10.86	10.61	10.64	10.58
Surrogate	**Unit**	**Acceptable Limits**									
Chrysene-d12	%	50-140		61	59	55	52	64	52	69	52

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 14H867478

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Kevin Roberts

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2014-07-24

DATE REPORTED: 2014-07-31

		SAMPLE DESCRIPTION:		TP32 SA1	TP33 SA1	TP34 SA1	TP35 SA1	TP36 SA1	TP37 SA1	TP38 SA1	TP39 SA1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014	7/24/2014
Parameter	**Unit**	**G / S**	**RDL**	**5615750**	**5615751**	**5615752**	**5615754**	**5615755**	**5615756**	**5615757**	**5615758**
Naphthalene	µg/g	0.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05
Acenaphthene	µg/g	7.9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	6.2	0.05	<0.05	<0.05	<0.05	0.13	0.57	0.40	0.23	0.05
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05	<0.05	0.21	0.12	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05	<0.05	<0.05	0.22	**1.3**	**0.72**	0.07	0.10
Pyrene	µg/g	78	0.05	<0.05	<0.05	0.07	0.19	0.99	0.59	0.11	0.08
Benz(a)anthracene	µg/g	0.5	0.05	<0.05	<0.05	<0.05	0.10	**0.54**	0.26	<0.05	<0.05
Chrysene	µg/g	7	0.05	<0.05	<0.05	<0.05	0.12	0.48	0.26	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	0.18	0.69	0.38	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	0.08	0.36	0.21	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	0.11	**0.45**	0.25	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	<0.05	<0.05	<0.05	0.06	0.19	0.12	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	6.6	0.05	<0.05	<0.05	<0.05	0.08	0.22	0.16	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	0.99	0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05	0.22	<0.05
Moisture Content	%		0.1	8.6	9.0	7.4	8.7	10.7	7.8	7.1	3.8
wet weight	g		NA	10.03	10.07	10.24	10.50	10.42	10.21	10.36	10.66
Surrogate	**Unit**	**Acceptable Limits**									
Chrysene-d12	%	50-140		68	64	63	63	59	67	61	69

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 14H867478

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Kevin Roberts

SAMPLING SITE:

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2014-07-24

DATE REPORTED: 2014-07-31

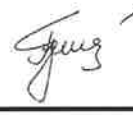
		SAMPLE DESCRIPTION:		TP40 SA1	TP41 SA1	Dup1	Dup2
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		7/24/2014	7/24/2014	7/24/2014	7/24/2014
Parameter	Unit	G / S	RDL	5615759	5615761	5615762	5615763
Naphthalene	µg/g	0.6	0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	7.9	0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	6.2	0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	0.06	<0.05	<0.05	<0.05
Pyrene	µg/g	78	0.05	0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.5	0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	7	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	6.6	0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	0.99	0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	6.4	7.7	8.7	3.9
wet weight	g		NA	10.28	10.41	10.87	10.60
Surrogate	**Unit**	**Acceptable Limits**					
Chrysene-d12	%	50-140		64	74	56	65

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(RPI) - Current

5615742-5615763 Results are based on the dry weight of the soil.

Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

Certified By:



Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Guideline Violation

AGAT WORK ORDER: 14H867478

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Kevin Roberts

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
5615755	TP36 SA1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benz(a)anthracene	0.5	0.54
5615755	TP36 SA1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	0.45
5615755	TP36 SA1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	1.3
5615756	TP37 SA1	T3(RPI) - Current	O. Reg. 153(511) - PAHs (Soil)	Fluoranthene	0.69	0.72

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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http://www.agatlabs.com

Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123

SAMPLING SITE:

AGAT WORK ORDER: 14H867478

ATTENTION TO: Kevin Roberts

SAMPLED BY:

Trace Organics Analysis

RPT Date: Jul 31, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	94%	50%	140%	86%	50%	140%	88%	50%	140%
Acenaphthylene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	92%	50%	140%	85%	50%	140%	90%	50%	140%
Acenaphthene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	100%	50%	140%	89%	50%	140%	92%	50%	140%
Fluorene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	84%	50%	140%	78%	50%	140%	94%	50%	140%
Phenanthrene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	78%	50%	140%	75%	50%	140%	89%	50%	140%
Anthracene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	104%	50%	140%	72%	50%	140%	84%	50%	140%
Fluoranthene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	84%	50%	140%	105%	50%	140%
Pyrene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	93%	50%	140%	86%	50%	140%	105%	50%	140%
Benz(a)anthracene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	80%	50%	140%	74%	50%	140%	93%	50%	140%
Chrysene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	104%	50%	140%	97%	50%	140%	107%	50%	140%
Benzo(b)fluoranthene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	82%	50%	140%	71%	50%	140%	84%	50%	140%
Benzo(k)fluoranthene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	116%	50%	140%	107%	50%	140%	104%	50%	140%
Benzo(a)pyrene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	102%	50%	140%	92%	50%	140%	88%	50%	140%
Indeno(1,2,3-cd)pyrene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	112%	50%	140%	91%	50%	140%	62%	50%	140%
Dibenz(a,h)anthracene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	103%	50%	140%	85%	50%	140%	62%	50%	140%
Benzo(g,h,i)perylene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	123%	50%	140%	102%	50%	140%	59%	50%	140%
2-and 1-methyl Naphthalene	1	5615748	< 0.05	< 0.05	0.0%	< 0.05	96%	50%	140%	84%	50%	140%	88%	50%	140%

Certified By:

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H867478

PROJECT: 14123

ATTENTION TO: Kevin Roberts

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluorene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Phenanthrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benz(a)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Chrysene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(a)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Moisture Content	ORG-91-5106	EPA SW-846 3541 & 8270	BALANCE
Chrysene-d12	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
wet weight	ORG-91-5106	EPA SW-846 3541 & 8270	BALANCE

Results relate only to the items tested and to all the items tested

#Cooler

Blue Bag

AGAT Laboratories

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Mississauga, ON
L4Z 1Y2
www.agatlabs.com · webearth.agatlabs.com
P: 905.712.5100 · F: 905.712.5122

Chain of Custody Record

Laboratory Use Only
Arrival Temperature: 10.9 8.9 9
AGAT WO #: 14H 967478
Lab Temperature: 9° 9° 9°
Notes:

Client Information

Company: LANDTEK LIMITED
Contact: KEVIN ROBERTS
Address: 205 NEBO RD
HAMILTON, ONT
Phone: (905) 383-3735 Fax:
Project: 14123 PO:
AGAT Quotation #:

Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements

☑ Regulation 153/04 (reg. 511 Amend.)
Table 3 *Indicate one*
☐ Ind/Com
☑ Res/Park
☐ Agriculture
Soil Texture *(check one)*
☑ Coarse ☐ Fine

☐ Sewer Use
Region *Indicate one*
☐ Sanitary
☐ Storm

☐ Regulation 558
☐ CCME
☐ Other *(specify)*
☐ Prov. Water Quality Objectives (PWQO)
☐ None

Turnaround Time Required (TAT) Required*

Regular TAT
☑ 5 to 7 Working Days
Rush TAT (please provide prior notification)
Rush Surcharges Apply
☐ 3 Working Days
☐ 2 Working Days
☐ 1 Working Day
OR
Date Required (Rush surcharges may apply):
*TAT is exclusive of weekends and statutory holidays

Invoice To

Same: Yes ☒ No ☐
Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) ☐ Yes ☐ No
If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a **Record of Site Condition?** ☑ Yes ☐ No

Legend Matrix

GW Ground Water
SW Surface Water
SD Sediment
O Oil
P Paint
S Soil

Report Information – reports to be sent to:

1. Name: KEVIN ROBERTS
Email: kevin@landtek limited.com
2. Name:
Email:

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information
TP23	June 16/14	Pm	Soil	1	
TP24 SA1	7/24/14	Pm	1	1	
TP25 SA1	1	1			
TP26 SA1	1	1			
TP27 SA1					
TP29 SA1					
TP30 SA1					
TP31 SA1					
TP32 SA1					
TP33 SA1					
TP34 SA1					
TP36 SA1	↓	↓	↓	↓	

Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl- ☐ CN- ☐ EC ☐ FOC ☐ Cr+6- ☐ SAR ☐ N- Total ☐ Hg ☐ pH ☐ NO_3/NO_2	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	VOC: ☐ VOC ☐ THM ☐ BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
									✓					
									✓					
									✓					
									✓					
									✓					
									✓					
									✓					
									✓					
									✓					
									✓					
									✓					
									✓					

Samples Relinquished By (Print Name and Sign): Date/Time: July 24 11:50
Samples Received By (Print Name and Sign): Julia Arsenault Date/Time: July 24 11:50
Samples Relinquished By (Print Name and Sign): Date/Time:
Samples Received By (Print Name and Sign): Date/Time: 3:30

Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT

Page 1 of 2
N°: 45690

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L4Z 1Y2
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Chain of Custody Record

Laboratory Use Only

Arrival Temperature: 10.9 8.9 9.9
AGAT WO #: 1411 867478
Lab Temperature: 40939
Notes:

Client Information

Company: LANDTEK
Contact: KEVIN ROBERTS
Address:
Phone: Fax:
Project: PO:
AGAT Quotation #:

Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements

☐ Regulation 153/04 (reg. 511 Amend.)
Table ____ Indicate one
☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (check one) ☐ Coarse ☐ Fine

☐ Sewer Use
Region ____ Indicate one
☐ Sanitary ☐ Storm

☐ Regulation 558
☐ CCME
☐ Other (specify)
☐ Prov. Water Quality Objectives (PWQO)
☐ None

Turnaround Time Required (TAT) Required*

Regular TAT
☑ 5 to 7 Working Days

Rush TAT (please provide prior notification)
Rush Surcharges Apply
☐ 3 Working Days
☐ 2 Working Days
☐ 1 Working Day

OR
Date Required (Rush surcharges may apply):

*TAT is exclusive of weekends and statutory holidays

Invoice To

Same: Yes ☒ No ☐
Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) ☐ Yes ☐ No
If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a **Record of Site Condition?** ☑ Yes ☐ No

Legend Matrix

GW Ground Water **O** Oil
SW Surface Water **P** Paint
SD Sediment **S** Soil

Report Information – reports to be sent to:

1. Name: Kevin Roberts
   Email: Kevin@landtek limited.com
2. Name:
   Email: Jessica@landtek limited.com

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl- ☐ CN- ☐ EC ☐ FOC ☐ Cr+6- ☐ SAR ☐ NO_3/NO_2 ☐ N- Total ☐ Hg ☐ pH	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	VOC: ☐ VOC ☐ THM ☐ BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
TP37 SA1	7/22/14		Soil	1												✓			
TP38 SA1																✓			
TP39 SA1																✓			
TP40 SA1																✓			
TP41 SA1																✓			
Dup1																✓			
Dup2																			

Samples Relinquished By (Print Name and Sign): Date/Time: July 24 @ 11:50
Samples Relinquished By (Print Name and Sign): Date/Time:
Samples Received By (Print Name and Sign): Simon July 24/14 Date/Time: July 24 @ 3:30

Pink Copy - Client
Yellow Copy - AGAT
White Copy- AGAT

N°: 40007

AGAT Laboratories

5835 COOPERS AVENUE
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CANADA L4Z 1Y2
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FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Kevin Roberts

PROJECT: 14123

AGAT WORK ORDER: 14H873784

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

WATER ANALYSIS REVIEWED BY: Anthony Dapaah, PhD (Chem), Inorganic Lab Manager

DATE REPORTED: Aug 15, 2014

PAGES (INCLUDING COVER): 20

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Results relate only to the items tested and to all the items tested

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FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - PAHs (Water)

DATE RECEIVED: 2014-08-08

DATE REPORTED: 2014-08-15

		SAMPLE DESCRIPTION:		MW 1	MW 3S	MW 6	MW 8	MW 9	MW 10S	DUP 2
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014
Parameter	Unit	G / S	RDL	5671296	5671351	5671420	5671471	5671491	5671520	5671559
Naphthalene	µg/L	1400	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthylene	µg/L	1.8	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Acenaphthene	µg/L	600	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Fluorene	µg/L	400	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Phenanthrene	µg/L	580	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Anthracene	µg/L	2.4	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	µg/L	130	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Pyrene	µg/L	68	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benz(a)anthracene	µg/L	4.7	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chrysene	µg/L	1	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(b)fluoranthene	µg/L	0.75	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(k)fluoranthene	µg/L	0.4	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo(a)pyrene	µg/L	0.81	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibenz(a,h)anthracene	µg/L	0.52	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo(g,h,i)perylene	µg/L	0.2	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
2-and 1-methyl Naphthalene	µg/L	1800	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate	**Unit**	**Acceptable Limits**								
Chrysene-d12	%	50-140		102	100	104	90	96	83	92

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW) - Current

5671296-5671559 Note: The result for Benzo(b)Flouranthene is the total of the Benzo(b)&(j)Flouranthene isomers because the isomers co-elute on the GC column.

Certified By: NPopowkolof

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - PCBs (Water)

DATE RECEIVED: 2014-08-08

DATE REPORTED: 2014-08-15

		SAMPLE DESCRIPTION:		MW 1	MW 6	MW 8	MW 9	MW 10S	DUP 2
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014
Parameter	**Unit**	**G / S**	**RDL**	**5671296**	**5671420**	**5671471**	**5671491**	**5671520**	**5671559**
Aroclor 1242	µg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1248	µg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1254	µg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aroclor 1260	µg/L		0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Polychlorinated Biphenyls	µg/L	7.8	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Surrogate	**Unit**	**Acceptable Limits**							
Decachlorobiphenyl	%	60-140		125	118	115	127	121	119

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW) - Current

Certified By: N Popnikolof

Results relate only to the items tested and to all the items tested

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Certificate of Analysis

AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Water)

DATE RECEIVED: 2014-08-08

DATE REPORTED: 2014-08-15

		SAMPLE DESCRIPTION:		MW 3D	MW 5	DUP 1
		SAMPLE TYPE:		Water	Water	Water
		DATE SAMPLED:		8/8/2014	8/8/2014	8/8/2014
Parameter	Unit	G / S	RDL	5671328	5671371	5671546
F1 (C6 to C10)	µg/L		25	<25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	750	25	<25	<25	<25
F2 (C10 to C16)	µg/L	150	100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L	500	500	NA	NA	NA
Surrogate	**Unit**	**Acceptable Limits**				
Terphenyl	%	60-140		103	95	112

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW) - Current

5671328-5671546 The C6-C10 fraction is calculated using Toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.
Total C6-C50 results are corrected for BTEX contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Certified By: NPopnikolof

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Certificate of Analysis

AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Water)

DATE RECEIVED: 2014-08-08

DATE REPORTED: 2014-08-15

		SAMPLE DESCRIPTION:		MW 1	MW 6	MW 8	MW 9	MW 10S
		SAMPLE TYPE:		Water	Water	Water	Water	Water
		DATE SAMPLED:		8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014
Parameter	Unit	G / S	RDL	5671296	5671420	5671471	5671491	5671520
F1 (C6 to C10)	µg/L		25	<25	<25	<25	<25	33
F1 (C6 to C10) minus BTEX	µg/L	750	25	<25	<25	<25	<25	32
F2 (C10 to C16)	µg/L	150	100	<100	<100	<100	<100	<100
F2 (C10 to C16) minus Naphthalene	µg/L	150	100	<100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	100	<100	<100	<100	<100	<100
F3 (C16 to C34) minus PAHs	µg/L	500	100	<100	<100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100	<100	<100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L	500	500	NA	NA	NA	NA	NA
Surrogate	**Unit**	**Acceptable Limits**						
Terphenyl	%	60-140		99	72	115	120	120

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW) - Current

5671296-5671520 The C6-C10 fraction is calculated using Toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.
Total C6-C50 results are corrected for BTEX and PAH contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2014-08-08

DATE REPORTED: 2014-08-15

		SAMPLE DESCRIPTION:		MW 1	MW 3D	MW 5	MW 6	MW 8	MW 9	MW 10S	DUP 1
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014
Parameter	Unit	G / S	RDL	5671296	5671328	5671371	5671420	5671471	5671491	5671520	5671546
Dichlorodifluoromethane	µg/L	4400	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Vinyl Chloride	µg/L	0.5	0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Bromomethane	µg/L	5.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	2500	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Acetone	µg/L	130000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	1.6	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methylene Chloride	µg/L	610	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl tert-butyl ether	µg/L	190	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	320	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	470000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	2.4	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	640	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	0.79	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	44	0.20	<0.20	<0.20	0.26	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	16	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	85000	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	140000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	4.7	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	18000	0.20	<0.20	<0.20	0.38	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	82000	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.25	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	µg/L	1.6	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	3.3	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	µg/L	630	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylbenzene	µg/L	2300	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.81	<0.20

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2014-08-08

DATE REPORTED: 2014-08-15

		SAMPLE DESCRIPTION:		MW 1	MW 3D	MW 5	MW 6	MW 8	MW 9	MW 10S	DUP 1
		SAMPLE TYPE:		Water	Water	Water	Water	Water	Water	Water	Water
		DATE SAMPLED:		8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014	8/8/2014
Parameter	**Unit**	**G / S**	**RDL**	**5671296**	**5671328**	**5671371**	**5671420**	**5671471**	**5671491**	**5671520**	**5671546**
Bromoform	µg/L	380	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Styrene	µg/L	1300	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	3.2	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
o-Xylene	µg/L		0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.14	<0.10
1,3-Dichlorobenzene	µg/L	9600	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	8	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	4600	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	5.2	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Xylene Mixture	µg/L	4200	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.95	<0.20
n-Hexane	µg/L	51	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	50-140		92	95	97	86	93	91	94	91
4-Bromofluorobenzene	% Recovery	50-140		92	91	94	86	91	87	104	93

Certified By: NPopmihaf

Results relate only to the items tested and to all the items tested

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AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2014-08-08

DATE REPORTED: 2014-08-15

		SAMPLE DESCRIPTION:		Trip Blank
		SAMPLE TYPE:		Water
		DATE SAMPLED:		8/5/2014
Parameter	Unit	G / S	RDL	5671572
Dichlorodifluoromethane	µg/L	4400	0.20	<0.20
Vinyl Chloride	µg/L	0.5	0.17	<0.17
Bromomethane	µg/L	5.6	0.20	<0.20
Trichlorofluoromethane	µg/L	2500	0.40	<0.40
Acetone	µg/L	130000	1.0	<1.0
1,1-Dichloroethylene	µg/L	1.6	0.30	<0.30
Methylene Chloride	µg/L	610	0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20
Methyl tert-butyl ether	µg/L	190	0.20	<0.20
1,1-Dichloroethane	µg/L	320	0.30	<0.30
Methyl Ethyl Ketone	µg/L	470000	1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	1.6	0.20	<0.20
Chloroform	µg/L	2.4	0.20	<0.20
1,2-Dichloroethane	µg/L	1.6	0.20	<0.20
1,1,1-Trichloroethane	µg/L	640	0.30	<0.30
Carbon Tetrachloride	µg/L	0.79	0.20	<0.20
Benzene	µg/L	44	0.20	<0.20
1,2-Dichloropropane	µg/L	16	0.20	<0.20
Trichloroethylene	µg/L	1.6	0.20	<0.20
Bromodichloromethane	µg/L	85000	0.20	<0.20
Methyl Isobutyl Ketone	µg/L	140000	1.0	<1.0
1,1,2-Trichloroethane	µg/L	4.7	0.20	<0.20
Toluene	µg/L	18000	0.20	<0.20
Dibromochloromethane	µg/L	82000	0.10	<0.10
Ethylene Dibromide	µg/L	0.25	0.10	<0.10
Tetrachloroethylene	µg/L	1.6	0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	3.3	0.10	<0.10
Chlorobenzene	µg/L	630	0.10	<0.10
Ethylbenzene	µg/L	2300	0.10	<0.10
m & p-Xylene	µg/L		0.20	<0.20

Certified By: N Popnikolof

Results relate only to the items tested and to all the items tested

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Certificate of Analysis

AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - VOCs (Water)

DATE RECEIVED: 2014-08-08

DATE REPORTED: 2014-08-15

		SAMPLE DESCRIPTION:		Trip Blank
		SAMPLE TYPE:		Water
		DATE SAMPLED:		8/5/2014
Parameter	Unit	G / S	RDL	5671572
Bromoform	µg/L	380	0.10	<0.10
Styrene	µg/L	1300	0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	3.2	0.10	<0.10
o-Xylene	µg/L		0.10	<0.10
1,3-Dichlorobenzene	µg/L	9600	0.10	<0.10
1,4-Dichlorobenzene	µg/L	8	0.10	<0.10
1,2-Dichlorobenzene	µg/L	4600	0.10	<0.10
1,3-Dichloropropene	µg/L	5.2	0.30	<0.30
Xylene Mixture	µg/L	4200	0.20	<0.20
n-Hexane	µg/L	51	0.20	<0.20
Surrogate	**Unit**	**Acceptable Limits**		
Toluene-d8	% Recovery	50-140		96
4-Bromofluorobenzene	% Recovery	50-140		85

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW) - Current

Certified By: N Popovkaf

Results relate only to the items tested and to all the items tested

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Certificate of Analysis

AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2014-08-08

DATE REPORTED: 2014-08-15

		SAMPLE DESCRIPTION:		MW 1		MW 3D		MW 3S		MW 5
		SAMPLE TYPE:		Water		Water		Water		Water
		DATE SAMPLED:		8/8/2014		8/8/2014		8/8/2014		8/8/2014
Parameter	Unit	G / S	RDL	5671296	RDL	5671328	RDL	5671351	RDL	5671371
Antimony	µg/L	20000	0.5	0.7	0.5	1.2	0.5	0.7	0.5	0.7
Arsenic	µg/L	1900	1.0	<1.0	1.0	4.0	1.0	<1.0	1.0	2.1
Barium	µg/L	29000	2.0	40.4	2.0	74.1	2.0	34.3	2.0	14.8
Beryllium	µg/L	67	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5
Boron	µg/L	45000	10.0	79.3	10.0	536	10.0	155	10.0	72.8
Cadmium	µg/L	2.7	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2
Chromium	µg/L	810	2.0	3.6	2.0	<2.0	2.0	3.4	2.0	2.1
Cobalt	µg/L	66	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5
Copper	µg/L	87	1.0	2.0	1.0	<1.0	1.0	1.1	1.0	1.4
Lead	µg/L	25	0.5	<0.5	0.5	<0.5	0.5	<0.5	0.5	<0.5
Molybdenum	µg/L	9200	0.5	5.9	0.5	21.9	0.5	1.4	0.5	1.3
Nickel	µg/L	490	1.0	<1.0	1.0	3.1	1.0	<1.0	1.0	<1.0
Selenium	µg/L	63	1.0	<1.0	1.0	10.9	1.0	<1.0	1.0	<1.0
Silver	µg/L	1.5	0.2	<0.2	0.2	<0.2	0.2	<0.2	0.2	<0.2
Thallium	µg/L	510	0.3	<0.3	0.3	<0.3	0.3	<0.3	0.3	<0.3
Uranium	µg/L	420	0.5	0.9	0.5	<0.5	0.5	0.6	0.5	1.1
Vanadium	µg/L	250	0.4	1.3	0.4	<0.4	0.4	0.7	0.4	2.5
Zinc	µg/L	1100	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0
Mercury	µg/L	0.29	0.02	<0.02	0.02	<0.02	0.02	<0.02	0.02	<0.02
Chromium VI	µg/L	140	5	<5	5	<5	5	<5	5	<5
Cyanide	µg/L	66	2	<2	2	<2	2	<2	2	<2
Sodium	µg/L	2300000	500	5450	1000	211000	500	21300	500	124000
Chloride	µg/L	2300000	100	13000	500	355000	100	4070	200	4280
Nitrate as N	µg/L		50	119	250	<250	50	331	100	298
Nitrite as N	µg/L		50	<50	250	<250	50	<50	100	<100
Electrical Conductivity	uS/cm		2	436	2	1620	2	497	2	596
pH	pH Units		NA	8.11	NA	8.19	NA	8.22	NA	8.66

Certified By:

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AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2014-08-08

DATE REPORTED: 2014-08-15

SAMPLE DESCRIPTION:				MW 5D		MW 6		MW 6S	MW 6D		MW 8
SAMPLE TYPE:				Water		Water		Water	Water		Water
DATE SAMPLED:				8/8/2014		8/8/2014		8/8/2014	8/8/2014		8/8/2014
Parameter	Unit	G / S	RDL	5671410	RDL	5671420	RDL	5671438	5671461	RDL	5671471
Antimony	µg/L	20000	0.5	<0.5	0.5	1.3	0.5	0.5	0.7	0.5	<0.5
Arsenic	µg/L	1900	1.0	<1.0	1.0	27.1	1.0	2.7	2.7	1.0	2.1
Barium	µg/L	29000	2.0	33.9	2.0	591	2.0	38.4	21.3	2.0	20.1
Beryllium	µg/L	67	0.5	<0.5	0.5	<0.5	0.5	<0.5	<0.5	0.5	<0.5
Boron	µg/L	45000	10.0	33.2	10.0	1490	10.0	168	184	10.0	114
Cadmium	µg/L	2.7	0.2	<0.2	0.2	<0.2	0.2	<0.2	<0.2	0.2	<0.2
Chromium	µg/L	810	2.0	<2.0	2.0	2.1	2.0	19.0	<2.0	2.0	<2.0
Cobalt	µg/L	66	0.5	0.5	0.5	12.9	0.5	1.2	<0.5	0.5	<0.5
Copper	µg/L	87	1.0	1.0	1.0	7.0	1.0	1.9	2.7	1.0	<1.0
Lead	µg/L	25	0.5	<0.5	0.5	<0.5	0.5	<0.5	<0.5	0.5	0.5
Molybdenum	µg/L	9200	0.5	1.0	0.5	5.7	0.5	4.7	11.6	0.5	4.7
Nickel	µg/L	490	1.0	1.7	1.0	15.0	1.0	<1.0	1.2	1.0	1.1
Selenium	µg/L	63	1.0	<1.0	1.0	35.3	1.0	2.3	6.2	1.0	<1.0
Silver	µg/L	1.5	0.2	<0.2	0.2	<0.2	0.2	<0.2	<0.2	0.2	<0.2
Thallium	µg/L	510	0.3	<0.3	0.3	0.4	0.3	<0.3	<0.3	0.3	<0.3
Uranium	µg/L	420	0.5	0.8	0.5	12.6	0.5	0.7	<0.5	0.5	0.6
Vanadium	µg/L	250	0.4	0.6	0.4	17.3	0.4	6.5	4.4	0.4	3.4
Zinc	µg/L	1100	5.0	<5.0	5.0	14.4	5.0	<5.0	8.5	5.0	<5.0
Mercury	µg/L	0.29	0.02	<0.02	0.02	<0.02	0.02	<0.02	<0.02	0.02	<0.02
Chromium VI	µg/L	140	5	<5	5	<5	5	20	<5	5	<5
Cyanide	µg/L	66	2	<2	2	<2	2	<2	<2	2	<2
Sodium	µg/L	2300000	500	101000	10000	**2480000**	500	59200	106000	500	19900
Chloride	µg/L	2300000	500	43100	20000	**7740000**	500	61400	198000	100	38600
Nitrate as N	µg/L		250	<250	10000	<10000	250	3270	408	50	<50
Nitrite as N	µg/L		250	<250	10000	<10000	250	<250	<250	50	<50
Electrical Conductivity	uS/cm		2	812	2	21500	2	900	1170	2	445
pH	pH Units		NA	8.17	NA	7.74	NA	8.19	7.86	NA	8.25

Certified By:

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Certificate of Analysis

AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2014-08-08

DATE REPORTED: 2014-08-15

SAMPLE DESCRIPTION:				MW 9		MW 10D		MW 10S	MW 11D		DUP 1
SAMPLE TYPE:				Water		Water		Water	Water		Water
DATE SAMPLED:				8/8/2014		8/8/2014		8/8/2014	8/8/2014		8/8/2014
Parameter	Unit	G / S	RDL	5671491	RDL	5671511	RDL	5671520	5671537	RDL	5671546
Antimony	µg/L	20000	0.5	<0.5	0.5	0.8	0.5	0.8	0.7	0.5	0.9
Arsenic	µg/L	1900	1.0	1.8	1.0	1.2	1.0	<1.0	3.0	1.0	4.0
Barium	µg/L	29000	2.0	68.6	2.0	39.9	2.0	49.5	98.8	2.0	70.9
Beryllium	µg/L	67	0.5	<0.5	0.5	<0.5	0.5	<0.5	<0.5	0.5	<0.5
Boron	µg/L	45000	10.0	226	10.0	65.4	10.0	107	271	10.0	625
Cadmium	µg/L	2.7	0.2	<0.2	0.2	<0.2	0.2	<0.2	<0.2	0.2	<0.2
Chromium	µg/L	810	2.0	<2.0	2.0	<2.0	2.0	<2.0	<2.0	2.0	<2.0
Cobalt	µg/L	66	0.5	0.8	0.5	<0.5	0.5	<0.5	<0.5	0.5	<0.5
Copper	µg/L	87	1.0	1.0	1.0	<1.0	1.0	1.7	2.4	1.0	<1.0
Lead	µg/L	25	0.5	<0.5	0.5	<0.5	0.5	<0.5	<0.5	0.5	<0.5
Molybdenum	µg/L	9200	0.5	8.6	0.5	4.8	0.5	12.4	7.1	0.5	20.7
Nickel	µg/L	490	1.0	1.1	1.0	1.4	1.0	<1.0	1.2	1.0	2.8
Selenium	µg/L	63	1.0	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	10.9
Silver	µg/L	1.5	0.2	<0.2	0.2	<0.2	0.2	<0.2	<0.2	0.2	<0.2
Thallium	µg/L	510	0.3	<0.3	0.3	<0.3	0.3	0.3	<0.3	0.3	<0.3
Uranium	µg/L	420	0.5	4.2	0.5	2.5	0.5	0.5	2.7	0.5	<0.5
Vanadium	µg/L	250	0.4	2.5	0.4	2.1	0.4	3.9	1.2	0.4	<0.4
Zinc	µg/L	1100	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.6	5.0	<5.0
Mercury	µg/L	0.29	0.02	<0.02	0.02	<0.02	0.02	<0.02	<0.02	0.02	<0.02
Chromium VI	µg/L	140	5	<5	5	<5	5	<5	<5	5	<5
Cyanide	µg/L	66	2	<2	2	<2	2	<2	<2	2	<2
Sodium	µg/L	2300000	500	9920	500	131000	500	23000	26800	1000	218000
Chloride	µg/L	2300000	100	12500	500	50900	100	5180	33500	1000	420000
Nitrate as N	µg/L		50	<50	250	<250	50	95	<50	250	<250
Nitrite as N	µg/L		50	<50	250	<250	50	<50	<50	250	<250
Electrical Conductivity	uS/cm		2	539	2	882	2	486	559	2	1720
pH	pH Units		NA	8.19	NA	8.35	NA	8.19	8.23	NA	8.21

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Certificate of Analysis

AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2014-08-08

DATE REPORTED: 2014-08-15

		SAMPLE DESCRIPTION:		DUP 2
		SAMPLE TYPE:		Water
		DATE SAMPLED:		8/8/2014
Parameter	Unit	G / S	RDL	5671559
Antimony	µg/L	20000	0.5	0.8
Arsenic	µg/L	1900	1.0	26.7
Barium	µg/L	29000	2.0	599
Beryllium	µg/L	67	0.5	<0.5
Boron	µg/L	45000	10.0	1460
Cadmium	µg/L	2.7	0.2	<0.2
Chromium	µg/L	810	2.0	2.9
Cobalt	µg/L	66	0.5	12.3
Copper	µg/L	87	1.0	7.7
Lead	µg/L	25	0.5	<0.5
Molybdenum	µg/L	9200	0.5	5.5
Nickel	µg/L	490	1.0	18.3
Selenium	µg/L	63	1.0	32.9
Silver	µg/L	1.5	0.2	<0.2
Thallium	µg/L	510	0.3	<0.3
Uranium	µg/L	420	0.5	12.9
Vanadium	µg/L	250	0.4	8.0
Zinc	µg/L	1100	5.0	13.1
Mercury	µg/L	0.29	0.02	<0.02
Chromium VI	µg/L	140	5	<5
Cyanide	µg/L	66	2	<2
Sodium	µg/L	2300000	10000	**2560000**
Chloride	µg/L	2300000	20000	**9700000**
Nitrate as N	µg/L		10000	<10000
Nitrite as N	µg/L		10000	<10000
Electrical Conductivity	uS/cm		2	21600
pH	pH Units		NA	7.74

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW) - Current

5671296-5671559 Elevated RDLs indicate the degree of sample dilutions prior to analyses to keep analytes within the calibration range, reduce matrix interference and/or to avoid contaminating the instruments.

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Guideline Violation

AGAT WORK ORDER: 14H873784

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Kevin Roberts

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
5671420	MW 6	T3(NPGW) - Current	O. Reg. 153(511) - Metals & Inorganics (Water)	Chloride	2300000	7740000
5671420	MW 6	T3(NPGW) - Current	O. Reg. 153(511) - Metals & Inorganics (Water)	Sodium	2300000	2480000
5671559	DUP 2	T3(NPGW) - Current	O. Reg. 153(511) - Metals & Inorganics (Water)	Chloride	2300000	9700000
5671559	DUP 2	T3(NPGW) - Current	O. Reg. 153(511) - Metals & Inorganics (Water)	Sodium	2300000	2560000

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123

SAMPLING SITE:

AGAT WORK ORDER: 14H873784

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

Trace Organics Analysis

RPT Date: Aug 15, 2014			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Water)															
F1 (C6 to C10)	1		< 25	< 25	0.0%	< 25	95%	60%	140%	98%	60%	140%	86%	60%	140%
F2 (C10 to C16)	1		< 100	< 100	0.0%	< 100	95%	60%	140%	68%	60%	140%	84%	60%	140%
F3 (C16 to C34)	1		< 100	< 100	0.0%	< 100	87%	60%	140%	88%	60%	140%	97%	60%	140%
F4 (C34 to C50)	1		< 100	< 100	0.0%	< 100	76%	60%	140%	76%	60%	140%	84%	60%	140%
O. Reg. 153(511) - PAHs (Water)															
Naphthalene	1		< 0.20	< 0.20	0.0%	< 0.20	85%	50%	140%	87%	50%	140%	107%	50%	140%
Acenaphthylene	1		< 0.20	< 0.20	0.0%	< 0.20	80%	50%	140%	84%	50%	140%	89%	50%	140%
Acenaphthene	1		< 0.20	< 0.20	0.0%	< 0.20	82%	50%	140%	90%	50%	140%	90%	50%	140%
Fluorene	1		< 0.20	< 0.20	0.0%	< 0.20	80%	50%	140%	88%	50%	140%	92%	50%	140%
Phenanthrene	1		< 0.10	< 0.10	0.0%	< 0.10	77%	50%	140%	84%	50%	140%	71%	50%	140%
Anthracene	1		< 0.10	< 0.10	0.0%	< 0.10	94%	50%	140%	80%	50%	140%	83%	50%	140%
Fluoranthene	1		< 0.20	< 0.20	0.0%	< 0.20	93%	50%	140%	101%	50%	140%	85%	50%	140%
Pyrene	1		< 0.20	< 0.20	0.0%	< 0.20	88%	50%	140%	106%	50%	140%	83%	50%	140%
Benz(a)anthracene	1		< 0.20	< 0.20	0.0%	< 0.20	64%	50%	140%	115%	50%	140%	52%	50%	140%
Chrysene	1		< 0.10	< 0.10	0.0%	< 0.10	87%	50%	140%	116%	50%	140%	80%	50%	140%
Benzo(b)fluoranthene	1		< 0.10	< 0.10	0.0%	< 0.10	65%	50%	140%	91%	50%	140%	66%	50%	140%
Benzo(k)fluoranthene	1		< 0.10	< 0.10	0.0%	< 0.10	126%	50%	140%	118%	50%	140%	106%	50%	140%
Benzo(a)pyrene	1		< 0.01	< 0.01	0.0%	< 0.01	99%	50%	140%	110%	50%	140%	82%	50%	140%
Indeno(1,2,3-cd)pyrene	1		< 0.20	< 0.20	0.0%	< 0.20	65%	50%	140%	84%	50%	140%	72%	50%	140%
Dibenz(a,h)anthracene	1		< 0.20	< 0.20	0.0%	< 0.20	61%	50%	140%	87%	50%	140%	68%	50%	140%
Benzo(g,h,i)perylene	1		< 0.20	< 0.20	0.0%	< 0.20	86%	50%	140%	91%	50%	140%	79%	50%	140%
2-and 1-methyl Naphthalene	1		< 0.20	< 0.20	0.0%	< 0.20	83%	50%	140%	85%	50%	140%	87%	50%	140%
O. Reg. 153(511) - PCBs (Water)															
Aroclor 1242	1		< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1248	1		< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1254	1		< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Aroclor 1260	1		< 0.1	< 0.1	0.0%	< 0.1	NA	60%	140%	NA	60%	140%	NA	60%	140%
Polychlorinated Biphenyls	1		< 0.1	< 0.1	0.0%	< 0.1	112%	60%	140%	114%	60%	140%	110%	60%	140%
O. Reg. 153(511) - VOCs (Water)															
Dichlorodifluoromethane	1		< 0.20	< 0.20	0.0%	< 0.20	120%	50%	140%	106%	50%	140%	90%	50%	140%
Vinyl Chloride	1		< 0.17	< 0.17	0.0%	< 0.17	117%	50%	140%	118%	50%	140%	123%	50%	140%
Bromomethane	1		< 0.20	< 0.20	0.0%	< 0.20	118%	50%	140%	85%	50%	140%	128%	50%	140%
Trichlorofluoromethane	1		< 0.40	< 0.40	0.0%	< 0.40	114%	50%	140%	113%	50%	140%	85%	50%	140%
Acetone	1		< 1.0	< 1.0	0.0%	< 1.0	121%	50%	140%	115%	50%	140%	122%	50%	140%
1,1-Dichloroethylene	1		< 0.30	< 0.30	0.0%	< 0.30	122%	50%	140%	99%	60%	130%	89%	50%	140%
Methylene Chloride	1		< 0.30	< 0.30	0.0%	< 0.30	124%	50%	140%	130%	60%	130%	79%	50%	140%
trans- 1,2-Dichloroethylene	1		< 0.20	< 0.20	0.0%	< 0.20	108%	50%	140%	118%	60%	130%	85%	50%	140%
Methyl tert-butyl ether	1		< 0.20	< 0.20	0.0%	< 0.20	92%	50%	140%	129%	60%	130%	82%	50%	140%

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H873784

PROJECT: 14123

ATTENTION TO: Kevin Roberts

SAMPLING SITE:

SAMPLED BY:Kevin Roberts

Trace Organics Analysis (Continued)

RPT Date: Aug 15, 2014			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,1-Dichloroethane	1		< 0.30	< 0.30	0.0%	< 0.30	114%	50%	140%	116%	60%	130%	86%	50%	140%
Methyl Ethyl Ketone	1		< 1.0	< 1.0	0.0%	< 1.0	100%	50%	140%	101%	50%	140%	79%	50%	140%
cis- 1,2-Dichloroethylene	1		< 0.20	< 0.20	0.0%	< 0.20	69%	50%	140%	117%	60%	130%	71%	50%	140%
Chloroform	1		< 0.20	< 0.20	0.0%	< 0.20	126%	50%	140%	110%	60%	130%	82%	50%	140%
1,2-Dichloroethane	1		< 0.20	< 0.20	0.0%	< 0.20	100%	50%	140%	87%	60%	130%	69%	50%	140%
1,1,1-Trichloroethane	1		< 0.30	< 0.30	0.0%	< 0.30	85%	50%	140%	88%	60%	130%	66%	50%	140%
Carbon Tetrachloride	1		< 0.20	< 0.20	0.0%	< 0.20	82%	50%	140%	94%	60%	130%	76%	50%	140%
Benzene	1		< 0.20	< 0.20	0.0%	< 0.20	96%	50%	140%	69%	60%	130%	80%	50%	140%
1,2-Dichloropropane	1		< 0.20	< 0.20	0.0%	< 0.20	122%	50%	140%	84%	60%	130%	62%	50%	140%
Trichloroethylene	1		< 0.20	< 0.20	0.0%	< 0.20	102%	50%	140%	95%	60%	130%	73%	50%	140%
Bromodichloromethane	1		< 0.20	< 0.20	0.0%	< 0.20	114%	50%	140%	99%	60%	130%	73%	50%	140%
Methyl Isobutyl Ketone	1		< 1.0	< 1.0	0.0%	< 1.0	107%	50%	140%	78%	50%	140%	64%	50%	140%
1,1,2-Trichloroethane	1		< 0.20	< 0.20	0.0%	< 0.20	115%	50%	140%	90%	60%	130%	70%	50%	140%
Toluene	1		< 0.20	< 0.20	0.0%	< 0.20	105%	50%	140%	90%	60%	130%	80%	50%	140%
Dibromochloromethane	1		< 0.10	< 0.10	0.0%	< 0.10	104%	50%	140%	93%	60%	130%	72%	50%	140%
Ethylene Dibromide	1		< 0.10	< 0.10	0.0%	< 0.10	104%	50%	140%	91%	60%	130%	73%	50%	140%
Tetrachloroethylene	1		< 0.20	< 0.20	0.0%	< 0.20	101%	50%	140%	91%	60%	130%	75%	50%	140%
1,1,1,2-Tetrachloroethane	1		< 0.10	< 0.10	0.0%	< 0.10	115%	50%	140%	90%	60%	130%	71%	50%	140%
Chlorobenzene	1		< 0.10	< 0.10	0.0%	< 0.10	107%	50%	140%	89%	60%	130%	72%	50%	140%
Ethylbenzene	1		< 0.10	< 0.10	0.0%	< 0.10	104%	50%	140%	88%	60%	130%	74%	50%	140%
m & p-Xylene	1		< 0.20	< 0.20	0.0%	< 0.20	108%	50%	140%	88%	60%	130%	80%	50%	140%
Bromoform	1		< 0.10	< 0.10	0.0%	< 0.10	100%	50%	140%	92%	60%	130%	73%	50%	140%
Styrene	1		< 0.10	< 0.10	0.0%	< 0.10	90%	50%	140%	82%	60%	130%	64%	50%	140%
1,1,2,2-Tetrachloroethane	1		< 0.10	< 0.10	0.0%	< 0.10	128%	50%	140%	94%	60%	130%	86%	50%	140%
o-Xylene	1		< 0.10	< 0.10	0.0%	< 0.10	111%	50%	140%	90%	60%	130%	79%	50%	140%
1,3-Dichlorobenzene	1		< 0.10	< 0.10	0.0%	< 0.10	101%	50%	140%	79%	60%	130%	67%	50%	140%
1,4-Dichlorobenzene	1		< 0.10	< 0.10	0.0%	< 0.10	111%	50%	140%	87%	60%	130%	73%	50%	140%
1,2-Dichlorobenzene	1		< 0.10	< 0.10	0.0%	< 0.10	108%	50%	140%	84%	60%	130%	72%	50%	140%
1,3-Dichloropropene	1		< 0.30	< 0.30	0.0%	< 0.30	109%	50%	140%	89%	60%	130%	72%	50%	140%
n-Hexane	1		< 0.20	< 0.20	0.0%	< 0.20	88%	50%	140%	105%	60%	130%	86%	50%	140%

Certified By: N Popowich

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http://www.agatlabs.com

Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123

SAMPLING SITE:

AGAT WORK ORDER: 14H873784

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

Water Analysis

RPT Date: Aug 15, 2014			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water)															
Antimony	1	5671296	0.7	0.7	0.0%	< 0.5	99%	70%	130%	81%	80%	120%	92%	70%	130%
Arsenic	1	5671296	1.0	1.0	0.0%	< 1.0	92%	70%	130%	104%	80%	120%	97%	70%	130%
Barium	1	5671296	40.4	41.3	2.2%	< 2.0	109%	70%	130%	93%	80%	120%	83%	70%	130%
Beryllium	1	5671296	< 0.5	< 0.5	0.0%	< 0.5	99%	70%	130%	102%	80%	120%	99%	70%	130%
Boron	1	5671296	79.3	84.7	6.6%	< 10.0	100%	70%	130%	111%	80%	120%	89%	70%	130%
Cadmium	1	5671296	< 0.2	< 0.2	0.0%	< 0.2	98%	70%	130%	102%	80%	120%	103%	70%	130%
Chromium	1	5671296	3.6	3.4	5.7%	< 2.0	102%	70%	130%	99%	80%	120%	103%	70%	130%
Cobalt	1	5671296	< 0.5	< 0.5	0.0%	< 0.5	105%	70%	130%	95%	80%	120%	90%	70%	130%
Copper	1	5671296	2.0	2.0	0.0%	< 1.0	101%	70%	130%	103%	80%	120%	106%	70%	130%
Lead	1	5671296	< 0.5	< 0.5	0.0%	< 0.5	94%	70%	130%	99%	80%	120%	81%	70%	130%
Molybdenum	1	5671296	5.9	6.0	1.7%	< 0.5	97%	70%	130%	101%	80%	120%	91%	70%	130%
Nickel	1	5671296	< 1.0	< 1.0	0.0%	< 1.0	107%	70%	130%	100%	80%	120%	96%	70%	130%
Selenium	1	5671296	< 1.0	< 1.0	0.0%	< 1.0	98%	70%	130%	100%	80%	120%	101%	70%	130%
Silver	1	5671296	< 0.2	< 0.2	0.0%	< 0.2	94%	70%	130%	106%	80%	120%	100%	70%	130%
Thallium	1	5671296	< 0.3	< 0.3	0.0%	< 0.3	102%	70%	130%	98%	80%	120%	124%	70%	130%
Uranium	1	5671296	0.9	0.9	0.0%	< 0.5	105%	70%	130%	101%	80%	120%	92%	70%	130%
Vanadium	1	5671296	1.3	1.3	0.0%	< 0.4	93%	70%	130%	93%	80%	120%	91%	70%	130%
Zinc	1	5671296	< 5.0	< 5.0	0.0%	< 5.0	105%	70%	130%	101%	80%	120%	107%	70%	130%
Mercury	1	5671296	< 0.02	< 0.02	0.0%	< 0.02	103%	70%	130%	100%	80%	120%	92%	70%	130%
Chromium VI	5679359		<5	<5	0.0%	< 5	95%	70%	130%	106%	80%	120%	104%	70%	130%
Cyanide	5671296	5671296	<2	<2	0.0%	< 2	100%	70%	130%	107%	80%	120%	101%	70%	130%
Sodium	5671296	5671296	5450	5480	0.6%	< 500	99%	70%	130%	99%	80%	120%	101%	70%	130%
Chloride	5672308		69400	67800	2.3%	< 100	90%	70%	130%	93%	70%	130%	102%	70%	130%
Nitrate as N	5672308		<250	<250	0.0%	< 50	94%	70%	130%	97%	70%	130%	98%	70%	130%
Nitrite as N	5672308		<250	<250	0.0%	< 50	NA	70%	130%	104%	70%	130%	107%	70%	130%
Electrical Conductivity	5668414		39	38	4.7%	< 2	100%	90%	110%	NA			NA		
pH	5668414		6.08	6.10	0.3%	NA	102%	90%	110%	NA			NA		

Comments: NA signifies Not Applicable

Certified By:

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H873784

PROJECT: 14123

ATTENTION TO: Kevin Roberts

SAMPLING SITE:

SAMPLED BY:Kevin Roberts

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Acenaphthylene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Acenaphthene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Fluorene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Phenanthrene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Anthracene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Fluoranthene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Pyrene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Benz(a)anthracene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Chrysene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Benzo(b)fluoranthene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Benzo(k)fluoranthene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Benzo(a)pyrene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Dibenz(a,h)anthracene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Benzo(g,h,i)perylene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Chrysene-d12	ORG-91-5105	EPA SW-846 3510 & 8270	GC/MS
Aroclor 1242	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Aroclor 1248	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Aroclor 1254	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Aroclor 1260	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Polychlorinated Biphenyls	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
Decachlorobiphenyl	ORG-91-5112	EPA SW-846 3510 & 8082	GC/ECD
F1 (C6 to C10)	VOL-91-5010	MOE PHC E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	MOE PHC E3421	(P&T)GC/FID
F2 (C10 to C16)	VOL-91-5010	MOE PHC E3421	GC / FID
F3 (C16 to C34)	VOL-91-5010	MOE PHC E3421	GC / FID
F4 (C34 to C50)	VOL-91-5010	MOE PHC E3421	GC / FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	MOE PHC E3421	BALANCE
Terphenyl	VOL-91-5010		GC/FID
F1 (C6 to C10)	VOL-91-5010	MOE PHC E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	MOE PHC E3421	(P&T)GC/FID
F2 (C10 to C16)	VOL-91-5010	MOE PHC E3421	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5010	MOE PHC E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	MOE PHC E3421	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5010	MOE PHC E3421	GC/FID
F4 (C34 to C50)	VOL -91- 5010	MOE PHC- E3421	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	MOE PHC E3421	BALANCE
Terphenyl	VOL-91-5010		GC/FID
Dichlorodifluoromethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Vinyl Chloride	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Bromomethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Acetone	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H873784

PROJECT: 14123

ATTENTION TO: Kevin Roberts

SAMPLING SITE:

SAMPLED BY:Kevin Roberts

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,1-Dichloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Chloroform	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Benzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Toluene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Chlorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Ethylbenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
m & p-Xylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Bromoform	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Styrene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
o-Xylene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Xylene Mixture	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
n-Hexane	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
Toluene-d8	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5001	EPA SW-846 5030 & 8260	(P&T)GC/MS

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AGAT WORK ORDER: 14H873784

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PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Antimony	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Barium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Boron	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Cadmium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Chromium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Copper	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Lead	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Nickel	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Selenium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Silver	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Thallium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Uranium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Zinc	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Mercury	MET-93-6100	EPA SW-846 7470 & 245.1	CVAAS
Chromium VI	INOR-93-6034	SM 3500-Cr B	SPECTROPHOTOMETER
Cyanide	INOR-93-6052	MOE METHOD CN- 3015 & SM 4500 CN- I	TECHNICON AUTO ANALYZER
Sodium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Chloride	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Nitrate as N	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Nitrite as N	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Electrical Conductivity	INOR-93-6000	SM 2510 B	PC TITRATE
pH	INOR-93-6000	SM 4500-H+ B	PC TITRATE

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*3 coolers C

AGAT Laboratories

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Mississauga, ON
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Laboratory Use Only
Arrival Temperatures: 7.4, 6.7, 7.2
AGAT WO #: 14H873784
Lab Temperatures: 2.2 6.4 6.1
Notes: on ice

Chain of Custody Record

Client Information
Company: LANDTEK LIMITED
Contact: KEVIN ROBERTS
Address: 206 NEBO RD
HAMILTON ONT
Phone: (25)383-3733 Fax:
Project: 14123 PO:
AGAT Quotation #:
Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements
☑ Regulation 153/04 (reg. 511 Amend.) Table 3 (Indicate one)
☐ Ind/Com ☑ Res/Park ☐ Agriculture
Soil Texture (check one): ☑ Coarse ☐ Fine
☐ Sewer Use — Region (Indicate one) ☐ Sanitary ☐ Storm
☐ Regulation 558 ☐ CCME ☐ Other (specify) ☐ Prov. Water Quality Objectives (PWQO) ☐ None

Turnaround Time Required (TAT) Required*
Regular TAT: ☑ 5 to 7 Working Days
Rush TAT (please provide prior notification)
Rush Surcharges Apply: ☐ 3 Working Days ☐ 2 Working Days ☐ 1 Working Day
OR
Date Required (Rush surcharges may apply):
*TAT is exclusive of weekends and statutory holidays

Invoice To
Same: Yes ☐ No ☐
Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) ☐ Yes ☐ No
If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a Record of Site Condition? ☑ Yes ☐ No

Legend Matrix
GW Ground Water · O Oil · SW Surface Water · P Paint · SD Sediment · S Soil

Report Information – reports to be sent to:
1. Name: Kevin Roberts
Email: Kevin@landtekltd.com
2. Name:
Email: freesia@landtekltd.com

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information
MW 1	Aug 8, 14	PM	H2O		* Metals
MW 3D					Mercury
MW 3S					Cr 6+
MW 5					NOT Field
MW 5D					Filtered
MW 6					PLEASE
MW 6S					LAB FILTER
MW 6D					Before 1pm
MW 8					AUG 9.
MW 9					
MW 10D					
MW 10S					

Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl- ☐ CN- ☐ EC ☐ FOC ☐ Cr+6- ☐ SAR ☐ NO_3/NO_2 ☐ N-Total ☐ Hg ☐ pH	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	VOC: ☐ VOC ☐ THM ☐ BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
✓						✓	✓		✓		✓			
✓						✓	✓							
✓									✓					
✓						✓	✓							
✓														
✓						✓	✓		✓		✓			
✓														
✓														
✓						✓	✓		✓		✓			
✓						✓	✓		✓					
✓														
✓														

Samples Relinquished By (Print Name and Sign): [signature] Date/Time: Aug 8, 14 2:50pm
Samples Relinquished By (Print Name and Sign): Date/Time:
Samples Received By (Print Names and Sign): JULIA ANGELLI Date/Time: AUG 8/14 @ 2:50
Samples Received By (Print Name and Sign): Date/Time:

Pink Copy - Client · Yellow Copy - AGAT · White Copy - AGAT

Page 1 of 2

No: 43323

AGAT Laboratories

5835 Coopers Avenue
Mississauga, ON
L4Z 1Y2
www.agatlabs.com · webearth.agatlabs.com
P: 905.712.5100 · F: 905.712.5122

Chain of Custody Record

Laboratory Use Only
Arrival Temperature: 7.4, 7.6, 7.2
AGAT WO #: 643
Lab Temperature:
Notes: ONICE

Client Information

Company: LANDWATCH LINCOLN RD
Contact: KRUN ROBERTS
Address: 205 NORTH RD
IDAHO FALLS, ON
Phone: (905) 3833733 Fax:
Project: 1412 3 PO:
AGAT Quotation #:

Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements

☑ Regulation 153/04 (reg. 511 Amend.)
Table 3 (Indicate one)
☐ Ind/Com
☑ Res/Park
☐ Agriculture
Soil Texture (check one)
☑ Coarse ☐ Fine

☐ Sewer Use
Region (Indicate one)
☐ Sanitary
☐ Storm

☐ Regulation 558
☐ CCME
☐ Other (specify)
☐ Prov. Water Quality Objectives (PWQO)
☐ None

Turnaround Time Required (TAT) Required*

Regular TAT
☑ 5 to 7 Working Days
Rush TAT (Please provide prior notification)
Rush Surcharges Apply
☐ 3 Working Days
☐ 2 Working Days
☐ 1 Working Day
OR
Date Required (Rush surcharges may apply):
*TAT is exclusive of weekends and statutory holidays

Invoice To

Same: Yes ☐ No ☐
Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) ☐ Yes ☐ No
If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a Record of Site Condition? ☑ Yes ☐ No

Legend Matrix

GW Ground Water · O Oil
SW Surface Water · P Paint
SD Sediment · S Soil

Report Information – reports to be sent to:

1. Name:
   Email:
2. Name:
   Email:

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl- ☐ CN- ☐ EC ☐ FOC ☐ Cr+6 ☐ SAR ☐ NO_3/NO_2 ☐ N- Total ☐ Hg ☐ pH	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	VOC: ☑ VOC ☐ THM ☐ BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
MW10	Aug 8/14	pm	Wtr		*see first page	✓						✓			✓				
Dup 1						✓						✓							
Dup 2						✓									✓	✓			
Trip Blank												✓							

Samples Relinquished By (Print Name and Sign): [signature] Date/Time: Aug 8 3:50pm
Samples Received By (Print Name and Sign): Julia Angrilli GA Date/Time: AUG 8

Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT

N°: 43324

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Kevin Roberts

PROJECT: 14123

AGAT WORK ORDER: 14H878886

WATER ANALYSIS REVIEWED BY: Parvathi Malemath, Data Reviewer

DATE REPORTED: Aug 28, 2014

PAGES (INCLUDING COVER): 4

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

Member of: Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 14H878886

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - Metals & Inorganics (Water)

DATE RECEIVED: 2014-08-21

DATE REPORTED: 2014-08-28

		SAMPLE DESCRIPTION:		MW6D	DUP1
		SAMPLE TYPE:		Water	Water
		DATE SAMPLED:		8/21/2014	8/21/2014
Parameter	Unit	G / S	RDL	5728006	5728011
Antimony	µg/L	20000	0.5	0.8	0.8
Arsenic	µg/L	1900	1.0	1.9	1.5
Barium	µg/L	29000	2.0	29.3	29.0
Beryllium	µg/L	67	0.5	<0.5	<0.5
Boron	µg/L	45000	10.0	238	220
Cadmium	µg/L	2.7	0.2	<0.2	<0.2
Chromium	µg/L	810	2.0	2.3	<2.0
Cobalt	µg/L	66	0.5	<0.5	<0.5
Copper	µg/L	87	1.0	2.6	2.7
Lead	µg/L	25	0.5	<0.5	<0.5
Molybdenum	µg/L	9200	0.5	14.5	13.9
Nickel	µg/L	490	1.0	<1.0	<1.0
Selenium	µg/L	63	1.0	2.9	2.6
Silver	µg/L	1.5	0.2	<0.2	<0.2
Thallium	µg/L	510	0.3	<0.3	<0.3
Uranium	µg/L	420	0.5	<0.5	<0.5
Vanadium	µg/L	250	0.4	0.5	0.5
Zinc	µg/L	1100	5.0	12.3	13.0
Mercury	µg/L	2.8	0.02	<0.02	<0.02
Chromium VI	µg/L	140	5	96	120
Cyanide	µg/L	66	2	<2	<2
Sodium	µg/L	2300000	1000	103000	101000
Chloride	µg/L	2300000	500	210000	209000
Nitrate as N	µg/L		250	421	376
Nitrite as N	µg/L		250	<250	<250
Electrical Conductivity	uS/cm		2	1230	1220
pH	pH Units		NA	7.80	7.83

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to T3(NPGW,MFT) Current

5728006-5728011 Sample required dilution prior to analysis in order to keep the analytes within the calibration range of the instruments and to minimize any matrix interferences; the RDLs were adjusted to reflect the dilution.

Certified By: Parvathi Malenalth

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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CANADA L4Z 1Y2
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FAX (905)712-5122
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Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123

SAMPLING SITE:

AGAT WORK ORDER: 14H878886

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

Water Analysis

RPT Date: Aug 28, 2014			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Water)															
Antimony	1		< 0.5	< 0.5	0.0%	< 0.5	102%	70%	130%	83%	80%	120%	95%	70%	130%
Arsenic	1		1.5	1.5	0.0%	< 1.0	108%	70%	130%	92%	80%	120%	108%	70%	130%
Barium	1		7.2	7.1	1.4%	< 2.0	110%	70%	130%	100%	80%	120%	104%	70%	130%
Beryllium	1		< 0.5	< 0.5	0.0%	< 0.5	106%	70%	130%	95%	80%	120%	107%	70%	130%
Boron	1		< 10.0	< 10.0	0.0%	< 10.0	108%	70%	130%	97%	80%	120%	112%	70%	130%
Cadmium	1		< 0.2	< 0.2	0.0%	< 0.2	106%	70%	130%	99%	80%	120%	106%	70%	130%
Chromium	1		2.38	2.32	2.6%	< 2.0	106%	70%	130%	99%	80%	120%	105%	70%	130%
Cobalt	1		< 0.5	< 0.5	0.0%	< 0.5	110%	70%	130%	94%	80%	120%	107%	70%	130%
Copper	1		< 1.0	< 1.0	0.0%	< 1.0	109%	70%	130%	91%	80%	120%	101%	70%	130%
Lead	1		< 0.5	< 0.5	0.0%	< 0.5	108%	70%	130%	100%	80%	120%	100%	70%	130%
Molybdenum	1		< 0.5	< 0.5	0.0%	< 0.5	109%	70%	130%	101%	80%	120%	112%	70%	130%
Nickel	1		< 1.0	< 1.0	0.0%	< 1.0	110%	70%	130%	92%	80%	120%	103%	70%	130%
Selenium	1		< 1.0	< 1.0	0.0%	< 1.0	103%	70%	130%	100%	80%	120%	113%	70%	130%
Silver	1		< 0.2	< 0.2	0.0%	< 0.2	106%	70%	130%	98%	80%	120%	105%	70%	130%
Thallium	1		< 0.3	< 0.3	0.0%	< 0.3	102%	70%	130%	94%	80%	120%	101%	70%	130%
Uranium	1		< 0.5	< 0.5	0.0%	< 0.5	107%	70%	130%	98%	80%	120%	100%	70%	130%
Vanadium	1		2.45	2.45	0.0%	< 0.4	109%	70%	130%	101%	80%	120%	109%	70%	130%
Zinc	1		< 5.0	< 5.0	0.0%	< 5.0	110%	70%	130%	97%	80%	120%	113%	70%	130%
Mercury	5732927		<0.02	<0.02	0.0%	< 0.02	103%	70%	130%	98%	80%	120%	91%	70%	130%
Chromium VI	5733823		<5	<5	0.0%	< 5	101%	70%	130%	106%	80%	120%	104%	70%	130%
Cyanide	5719068		3	3	0.0%	< 2	103%	70%	130%	108%	80%	120%	99%	70%	130%
Sodium	5724827		33500	33100	1.0%	< 500	98%	70%	130%	99%	80%	120%	105%	70%	130%
Chloride	5727920		39700	39400	0.8%	< 100	92%	70%	130%	92%	70%	130%	103%	70%	130%
Nitrate as N	5727920		6180	6110	1.1%	< 50	95%	70%	130%	96%	70%	130%	104%	70%	130%
Nitrite as N	5727920		<100	<100	0.0%	< 50	NA	70%	130%	102%	70%	130%	99%	70%	130%
Electrical Conductivity	5728495		399	406	1.7%	< 2	107%	90%	110%	NA			NA		
pH	5728495		7.87	7.93	0.8%	NA	100%	90%	110%	NA			NA		

Comments: NA Signifies Not Applicable.

Certified By: Parvathi Malenalth

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Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 14H878886

PROJECT: 14123

ATTENTION TO: Kevin Roberts

SAMPLING SITE:

SAMPLED BY:Kevin Roberts

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Antimony	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Barium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Boron	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Cadmium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Chromium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Copper	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Lead	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Nickel	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Selenium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Silver	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Thallium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Uranium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Zinc	MET-93-6103	EPA SW-846 6020A & 200.8	ICP-MS
Mercury	MET-93-6100	EPA SW-846 7470 & 245.1	CVAAS
Chromium VI	INOR-93-6034	SM 3500-Cr B	SPECTROPHOTOMETER
Cyanide	INOR-93-6052	MOE METHOD CN- 3015 & SM 4500 CN- I	TECHNICON AUTO ANALYZER
Sodium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Chloride	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Nitrate as N	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Nitrite as N	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH
Electrical Conductivity	INOR-93-6000	SM 2510 B	PC TITRATE
pH	INOR-93-6000	SM 4500-H+ B	PC TITRATE

Results relate only to the items tested and to all the items tested

#1 cooler

AGAT Laboratories

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Mississauga, ON
L4Z 1Y2
www.agatlabs.com · webearth.agatlabs.com
P: 905.712.5100 · F: 905.712.5122

Chain of Custody Record

Laboratory Use Only
Arrival Temperature: 9.9 9.8 9.7
AGAT WO #: 14H8788886
Lab Temperature: 7.2 7.6 7.5
Notes: nice

Client Information

Company: LANDTEK
Contact: KEVIN ROBERTS
Address: 205 NASO RD
Ham, ON
Phone: 905 383 3733 Fax:
Project: 14123 PO:
AGAT Quotation #:

Please note, if quotation number is not provided, client will be billed full price for analysis.

Regulatory Requirements

- [x] Regulation 153/04 (reg 511 Amend.)
  - Table 3 (Indicate one)
  - [ ] Ind/Com
  - [x] Res/Park
  - [ ] Agriculture
- Soil Texture (check one): [ ] Coarse [x] Fine
- [ ] Sewer Use
  - Region (Indicate one)
  - [ ] Sanitary
  - [ ] Storm
- [ ] Regulation 558
- [ ] CCME
- [ ] Other (specify)
- [ ] Prov. Water Quality Objectives (PWQO)
- [ ] None

Turnaround Time Required (TAT) Required*

Regular TAT
- [x] 5 to 7 Working Days

Rush TAT (please provide prior notification)
Rush Surcharges Apply
- [ ] 3 Working Days
- [ ] 2 Working Days
- [ ] 1 Working Day

OR
Date Required (Rush surcharges may apply):

*TAT is exclusive of weekends and statutory holidays

Invoice To

Same: Yes [x] No [ ]
Company:
Contact:
Address:

Is this a drinking water sample? (potable water intended for human consumption) [ ] Yes [ ] No
If "Yes", please use the *Drinking Water Chain of Custody Form*

Is this submission for a Record of Site Condition? [x] Yes [ ] No

Legend Matrix

GW Ground Water **O** Oil
SW Surface Water **P** Paint
SD Sediment **S** Soil

Report Information – reports to be sent to:

1. Name: Kevin Roberts
   Email: Kevin@landtek.com
2. Name:
   Email: freesia@landtek.com

Sample Identification	Date Sampled	Time Sampled	Sample Matrix	# of Containers	Comments Site/Sample Information	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: B-HWS, Cl-, CN-, EC, FOC, Cr+6-, SAR, Hg, N-Total, pH, NO_3/NO_2	Nutrients: TP, NH_3, TKN, NO_3, NO_2, NO_3/NO_2	VOC: VOC, THM, BTEX	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
MW6D	8/21/14	1pm	WT			✓	✓													
Dup1	8/21/14	"	"																	

Samples Relinquished By (Print Name and Sign): [signature] Date/Time: 8/21/14 17:30
Samples Relinquished By (Print Name and Sign): Date/Time:
Samples Received By (Print Name and Sign): [signature] Date/Time: Aug 21/14 @ 5pm
Samples Received By (Print Name and Sign): Date/Time:

Pink Copy - Client
Yellow Copy - AGAT
White Copy - AGAT

N°: 43454

APPENDIX D

CERTIFICATES OF ANALYSIS

REMEDIAL EXCAVATION

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Paul Blunt

PROJECT: 14123

AGAT WORK ORDER: 15H007285

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Aug 21, 2015

PAGES (INCLUDING COVER): 7

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

*NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Results relate only to the items tested and to all the items tested
All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request

AGAT Laboratories

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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 15H007285

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2015-08-14

DATE REPORTED: 2015-08-21

		SAMPLE DESCRIPTION:		Sa (10E,10S)	Sa (10E,30S)	Sa (10E,50S)	Sa (30E,50S)	Sa (0,0)	Sa (0,20E)	Sa (0,20S)	Sa (0,40S)
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015	8/14/2015
Parameter	**Unit**	**G / S**	**RDL**	**6863036**	**6863038**	**6863039**	**6863040**	**6863041**	**6863042**	**6863043**	**6863044**
Naphthalene	µg/g	0.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	7.9	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	6.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	0.69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05
Pyrene	µg/g	78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	6.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	0.99	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	7.3	9.1	5.3	5.1	4.7	9.6	4.4	8.6
Surrogate	**Unit**	**Acceptable Limits**									
Chrysene-d12	%	50-140		52	50	53	57	51	58	76	63

Certified By: NPopmickof

Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 15H007285

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2015-08-14

DATE REPORTED: 2015-08-21

		SAMPLE DESCRIPTION:		Sa (0,60S)	Sa (70S,20E)	Sa (70S,40E)	DUPLICATE-1
		SAMPLE TYPE:		Soil	Soil	Soil	Soil
		DATE SAMPLED:		8/14/2015	8/14/2015	8/14/2015	8/14/2015
Parameter	Unit	G / S	RDL	6863045	6863046	6863047	6863048
Naphthalene	µg/g	0.6	0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	7.9	0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	6.2	0.05	0.08	<0.05	0.48	<0.05
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	0.07	<0.05
Fluoranthene	µg/g	0.69	0.05	0.07	0.08	0.61	<0.05
Pyrene	µg/g	78	0.05	0.06	0.07	0.45	<0.05
Benz(a)anthracene	µg/g	0.5	0.05	<0.05	<0.05	0.16	<0.05
Chrysene	µg/g	7	0.05	<0.05	<0.05	0.20	<0.05
Benzo(b)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	0.21	<0.05
Benzo(k)fluoranthene	µg/g	0.78	0.05	<0.05	<0.05	0.12	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	0.15	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.38	0.05	<0.05	<0.05	0.09	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	6.6	0.05	<0.05	<0.05	0.10	<0.05
2-and 1-methyl Naphthalene	µg/g	0.99	0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	5.9	8.1	9.0	13.4
Surrogate	**Unit**	**Acceptable Limits**					
Chrysene-d12	%	50-140		68	64	61	62

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils

6863036-6863048 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

Certified By: N Popnikoff

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123

SAMPLING SITE:Masonary Court, Burlington, ON

AGAT WORK ORDER: 15H007285

ATTENTION TO: Paul Blunt

SAMPLED BY:Wael Deiab

Trace Organics Analysis

RPT Date: Aug 21, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	113%	50%	140%	82%	50%	140%	63%	50%	140%
Acenaphthylene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	99%	50%	140%	78%	50%	140%	57%	50%	140%
Acenaphthene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	100%	50%	140%	78%	50%	140%	60%	50%	140%
Fluorene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	95%	50%	140%	80%	50%	140%	56%	50%	140%
Phenanthrene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	94%	50%	140%	80%	50%	140%	57%	50%	140%
Anthracene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	71%	50%	140%	63%	50%	140%
Fluoranthene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	93%	50%	140%	78%	50%	140%	67%	50%	140%
Pyrene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	76%	50%	140%	75%	50%	140%
Benz(a)anthracene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	70%	50%	140%	53%	50%	140%	50%	50%	140%
Chrysene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	95%	50%	140%	66%	50%	140%	62%	50%	140%
Benzo(b)fluoranthene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	92%	50%	140%	69%	50%	140%	66%	50%	140%
Benzo(k)fluoranthene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	134%	50%	140%	94%	50%	140%	80%	50%	140%
Benzo(a)pyrene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	119%	50%	140%	69%	50%	140%	66%	50%	140%
Indeno(1,2,3-cd)pyrene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	124%	50%	140%	67%	50%	140%	56%	50%	140%
Dibenz(a,h)anthracene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	120%	50%	140%	67%	50%	140%	54%	50%	140%
Benzo(g,h,i)perylene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	132%	50%	140%	74%	50%	140%	58%	50%	140%
2-and 1-methyl Naphthalene	6863048	6863048	< 0.05	< 0.05	0.0%	< 0.05	121%	50%	140%	72%	50%	140%	61%	50%	140%

Certified By: N Popnickoff

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Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H007285

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluorene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Phenanthrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benz(a)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Chrysene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(a)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Moisture Content	ORG-91-5106	EPA SW-846 3541 & 8270	BALANCE
Chrysene-d12	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS

Results relate only to the items tested and to all the items tested

AGAT Laboratories
5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
www.agatlabs.com webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Laboratory Use Only
Work Order #: 15H007285
Cooler Quantity: 1 cooler
Arrival Temperatures: 4.8 4.7 4.6 / 3.8 3.7 3.0
Custody Seal Intake: ☐ Yes ☐ No ☒ N/A
Notes:

Report Information:
Company: Landtek Ltd
Contact: Paul B
Address: 205 Dobbard, Hamilton, Ont
Phone: 905 383 3733 Fax:
Reports to be sent to:
1. Email: Paul@Landtek limited.com
2. Email:

Project Information:
Project: 777 Masonary Crt
Site Location: " Burlington, Ont
Sampled By: Wael Deiab
AGAT Quote #: PO: 44123
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:
Bill To Same: Yes ☒ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements: ☐ No Regulatory Requirement
(Please check all applicable boxes)

☒ Regulation 153/04 Table 3 (Indicate One)
☐ Ind/Com
☒ Res/Park
☐ Agriculture
Soil Texture (Indicate One) ☐ Coarse ☒ Fine
☐ Sewer Use
☐ Sanitary
☐ Storm
Region (Indicate One)
☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other (Indicate One)

NO

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Turnaround Time (TAT) Required:
Regular TAT ☒ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

Sample Matrix Legend
B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SW Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl ☐ CN ☐ Cr⁶⁺ ☐ EC ☐ FOC ☐ NO_3/NO_2 ☐ Total N ☐ Hg ☐ pH ☐ SAR	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
Sa (10E, 10S)	Aug14	AM	1	Soil											X				
Sa (10E, 30S)															X				
Sa (10E, 50S)															X				
Sa (30E, 50S)															X				
Sa (0, 0)															X				
Sa (0, 20E)															X				
Sa (0, 20S)															X				
Sa (0, 40S)															X				
Sa (0, 60S)															X				
Sa (70S, 20E)															X				
Sa (70S, 40E)															X				

Samples Relinquished By (Print Name and Sign): Wael Deiab — Date: Aug 14 — Time:
Samples Relinquished By (Print Name and Sign): — Date: Aug 14 — Time:
Samples Relinquished By (Print Name and Sign): Julia Angelli — Date: AUG14 — Time: 2207
Samples Received By (Print Name and Sign): Julia Angelli — Date: AUG14/15 — Time: 9450
Samples Received By (Print Name and Sign): — Date: 2015/08/14 — Time: 2:32

N°: T 008204

White Copy: Client | Yellow Copy: AGAT | Pink Copy: Client

AGAT Laboratories
5623 Dixie Road
Mississauga, Ontario L4W 1E4
Ph: 905.712.5100 Fax: 905.712.5122
www.agatlabs.com webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Laboratory Use Only

Work Order #: 15H 007295
Cooler Quantity: 1 cooler
Arrival Temperatures: 4.7 4.8 4.6 / 3.7 3.8 3.8
Custody Seal Intact: ☐ Yes ☐ No ☒
Notes:

Report Information:

Company: Landtek Ltd
Contact: Paul Blunt
Address: 205 Nebo Rd Hamilton, Ont
Phone: 9053833733 Fax:
Reports to be sent to:
1. Email: Paul@landtek.limited.com
2. Email:

Project Information:

Project: Masonry Crt
Site Location: Burlington, Ont
Sampled By: Wael Deiab
AGAT Quote #: PO: 14123
Please note: if quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

☐ No Regulatory Requirement
(Please check all applicable boxes)

☒ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture (Check One)
☒ Coarse
☐ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region _____ (Indicate One)

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B(HWS) ☐ Cl ☐ CN ☐ CrVI ☐ F(C) ☐ TOC ☐ NO_3/NO_2 ☐ Total N ☐ Hg ☐ pH ☐ SAR	Nutrients: ☐ P ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
Duplicate - 1	Aug 14	AM	1	Soil											X					

(Check Applicable)

Wael Deiab	Aug 14	Julia Angnui	Aug 14/15	9:45am
W. Deiab	Aug 14			
Julia Angnui	Aug 14/15 @ 22:40		Aug 14/15 @ 23:33	2:30

Page 2 of 2

N°: T 008205

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

AGAT Laboratories

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Paul Blunt

PROJECT: 14123

AGAT WORK ORDER: 15H010114

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Coordinator

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Aug 28, 2015

PAGES (INCLUDING COVER): 21

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Results relate only to the items tested and to all the items tested
All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request

AGAT Laboratories

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TEL (905)712-5100
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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 15H010114

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2015-08-21

DATE REPORTED: 2015-08-28

		SAMPLE DESCRIPTION:		Duplicate - 2	SA 0, 40E	Sa 10S, 45E	Sa 30S, 75E	Sa OS, 60E	Sa 10S, 30E	Sa 30S, 54E	Sa 30S, 30E
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015
Parameter	Unit	G / S	RDL	6892787	6892798	6892801	6892804	6892807	6892810	6892814	6892817
Antimony	µg/g	40	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	4	4	3	2	2	3	3	4
Barium	µg/g	670	2	48	36	32	16	16	13	43	44
Beryllium	µg/g	8	0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5
Boron	µg/g	120	5	16	6	<5	<5	<5	<5	17	7
Boron (Hot Water Soluble)	µg/g	2	0.10	0.15	0.13	0.29	<0.10	<0.10	<0.10	0.16	0.18
Cadmium	µg/g	1.9	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	2	16	7	7	5	4	4	16	9
Cobalt	µg/g	80	0.5	9.6	3.9	3.6	2.8	2.3	2.1	9.9	5.1
Copper	µg/g	230	1	14	22	18	12	17	12	13	28
Lead	µg/g	120	1	7	18	10	4	4	3	7	7
Molybdenum	µg/g	40	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel	µg/g	270	1	19	6	7	3	2	2	20	8
Selenium	µg/g	5.5	0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Silver	µg/g	40	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	µg/g	3.3	0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Uranium	µg/g	33	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vanadium	µg/g	86	1	20	11	12	12	8	9	20	14
Zinc	µg/g	340	5	49	65	27	16	18	12	49	33
Chromium VI	µg/g	8	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cyanide	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Mercury	µg/g	3.9	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Electrical Conductivity	mS/cm	1.4	0.005	0.110	0.069	0.098	0.071	0.067	0.059	0.096	0.086
Sodium Adsorption Ratio	NA	12	NA	0.332	0.166	0.330	0.079	0.044	0.065	0.351	0.153
pH, 2:1 CaCl2 Extraction	pH Units		NA	8.07	8.47	7.75	8.23	8.17	8.19	8.06	7.77

Certified By: Amanjot Bhela

Results relate only to the items tested and to all the items tested

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AGAT WORK ORDER: 15H010114

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2015-08-21

DATE REPORTED: 2015-08-28

		SAMPLE DESCRIPTION:		Sa 50S, 55E	Sa 10S, 70E	Sa 50S, 75E
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		8/21/2015	8/21/2015	8/21/2015
Parameter	Unit	G / S	RDL	6892820	6892823	6892827
Antimony	µg/g	40	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	2	3	3
Barium	µg/g	670	2	14	17	18
Beryllium	µg/g	8	0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	<5
Boron (Hot Water Soluble)	µg/g	2	0.10	<0.10	<0.10	<0.10
Cadmium	µg/g	1.9	0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	2	4	5	4
Cobalt	µg/g	80	0.5	2.4	2.4	2.3
Copper	µg/g	230	1	13	14	15
Lead	µg/g	120	1	3	3	3
Molybdenum	µg/g	40	0.5	<0.5	<0.5	<0.5
Nickel	µg/g	270	1	2	3	3
Selenium	µg/g	5.5	0.4	<0.4	<0.4	<0.4
Silver	µg/g	40	0.2	<0.2	<0.2	<0.2
Thallium	µg/g	3.3	0.4	<0.4	<0.4	<0.4
Uranium	µg/g	33	0.5	<0.5	<0.5	<0.5
Vanadium	µg/g	86	1	9	9	9
Zinc	µg/g	340	5	13	13	13
Chromium VI	µg/g	8	0.2	<0.2	<0.2	<0.2
Cyanide	µg/g	0.051	0.040	<0.040	<0.040	<0.040
Mercury	µg/g	3.9	0.10	<0.10	<0.10	<0.10
Electrical Conductivity	mS/cm	1.4	0.005	0.070	0.063	0.075
Sodium Adsorption Ratio	NA	12	NA	0.131	0.051	0.085
pH, 2:1 CaCl2 Extraction	pH Units		NA	7.71	7.62	8.10

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils

6892787-6892827 EC & SAR were determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio.

Certified By: Amanjot Bhela

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AGAT WORK ORDER: 15H010114

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2015-08-21

DATE REPORTED: 2015-08-28

		SAMPLE DESCRIPTION:		Duplicate - 2	SA 0, 40E	Sa 10S, 45E	Sa 30S, 75E	Sa OS, 60E	Sa 10S, 30E	Sa 30S, 54E	Sa 30S, 30E
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015
Parameter	Unit	G / S	RDL	6892787	6892798	6892801	6892804	6892807	6892810	6892814	6892817
Naphthalene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.76	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	76	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	15.7	7.9	10.4	13.7	4.6	4.9	13.3	5.5
Surrogate	**Unit**	**Acceptable Limits**									
Chrysene-d12	%	50-140		84	82	68	81	70	73	63	73

Certified By: NPopnikolof

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AGAT WORK ORDER: 15H010114

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2015-08-21

DATE REPORTED: 2015-08-28

		SAMPLE DESCRIPTION:		Sa 50S, 55E	Sa 10S, 70E	Sa 50S, 75E	Sa 90S, 70E	Sa 80S, 50E	Sa 90S, 50E	Sa 0, 80E	Sa 70S, 70E
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015
Parameter	**Unit**	**G / S**	**RDL**	**6892820**	**6892823**	**6892827**	**6892840**	**6892844**	**6892845**	**6892846**	**6892847**
Naphthalene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	96	0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	0.10	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	12	0.05	<0.05	<0.05	<0.05	2.0	<0.05	<0.05	0.13	0.10
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05	0.62	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	3.9	<0.05	<0.05	0.31	0.22
Pyrene	µg/g	96	0.05	<0.05	<0.05	<0.05	3.1	<0.05	<0.05	0.26	0.19
Benz(a)anthracene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	**1.3**	<0.05	<0.05	0.11	0.07
Chrysene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	1.4	<0.05	<0.05	0.11	0.07
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	**1.6**	<0.05	<0.05	0.17	0.09
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	0.78	<0.05	<0.05	0.09	0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	**1.2**	<0.05	<0.05	0.11	0.07
Indeno(1,2,3-cd)pyrene	µg/g	0.76	0.05	<0.05	<0.05	<0.05	0.50	<0.05	<0.05	0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	0.10	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	0.59	<0.05	<0.05	0.07	<0.05
2-and 1-methyl Naphthalene	µg/g	76	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	15.5	5.2	11.2	7.6	5.4	6.0	15.4	11.6
Surrogate	**Unit**	**Acceptable Limits**									
Chrysene-d12	%	50-140		66	56	76	71	67	59	67	69

Certified By: N Popnikolof

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AGAT WORK ORDER: 15H010114

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2015-08-21

DATE REPORTED: 2015-08-28

		SAMPLE DESCRIPTION:		Sa 35S, 90E	Sa 0, 90E	Sa 10S, 90E
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		8/21/2015	8/21/2015	8/21/2015
Parameter	Unit	G / S	RDL	6892848	6892849	6892850
Naphthalene	µg/g	9.6	0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	96	0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	12	0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	96	0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.96	0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	9.6	0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.76	0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	76	0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	5.0	5.0	4.8
Surrogate	**Unit**	**Acceptable Limits**				
Chrysene-d12	%	50-140		64	57	75

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils

6892787-6892850 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

Certified By: N Popnikolof

Results relate only to the items tested and to all the items tested

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AGAT WORK ORDER: 15H010114

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)

DATE RECEIVED: 2015-08-21

DATE REPORTED: 2015-08-28

		SAMPLE DESCRIPTION:		Duplicate - 2	SA 0, 40E	Sa 10S, 45E	Sa 30S, 75E	Sa OS, 60E	Sa 10S, 30E	Sa 30S, 54E	Sa 30S, 30E
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015
Parameter	**Unit**	**G / S**	**RDL**	**6892787**	**6892798**	**6892801**	**6892804**	**6892807**	**6892810**	**6892814**	**6892817**
F1 (C6 to C10)	µg/g		5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	230	10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g	230	10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	1700	50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g	1700	50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	3300	50	<50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	3300	50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	15.7	7.9	10.4	13.7	4.6	4.9	13.3	5.5
Surrogate	**Unit**	**Acceptable Limits**									
Terphenyl	%	60-140		98	97	122	119	110	110	79	119

		SAMPLE DESCRIPTION:		Sa 50S, 55E	Sa 10S, 70E	Sa 50S, 75E
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		8/21/2015	8/21/2015	8/21/2015
Parameter	**Unit**	**G / S**	**RDL**	**6892820**	**6892823**	**6892827**
F1 (C6 to C10)	µg/g		5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	55	5	<5	<5	<5
F2 (C10 to C16)	µg/g	230	10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g	230	10	<10	<10	<10
F3 (C16 to C34)	µg/g	1700	50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g	1700	50	<50	<50	<50
F4 (C34 to C50)	µg/g	3300	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	3300	50	NA	NA	NA
Moisture Content	%		0.1	15.5	5.2	11.2
Surrogate	**Unit**	**Acceptable Limits**				
Terphenyl	%	60-140		126	93	105

Certified By: N Popnikolof

Results relate only to the items tested and to all the items tested

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Certificate of Analysis

AGAT WORK ORDER: 15H010114

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)

DATE RECEIVED: 2015-08-21

DATE REPORTED: 2015-08-28

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils

6892787-6892827 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX and PAH contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.

Certified By: N Popovkof

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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Certificate of Analysis

AGAT WORK ORDER: 15H010114

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2015-08-21

DATE REPORTED: 2015-08-28

		SAMPLE DESCRIPTION:		Duplicate - 2	SA 0, 40E	Sa 10S, 45E	Sa 30S, 75E	Sa OS, 60E	Sa 10S, 30E	Sa 30S, 54E	Sa 30S, 30E
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015
Parameter	Unit	G / S	RDL	6892787	6892798	6892801	6892804	6892807	6892810	6892814	6892817
Dichlorodifluoromethane	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.032	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	16	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.064	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	1.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	1.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	11	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	17	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	70	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	55	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.47	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	6.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.21	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.32	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.16	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.91	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	18	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	31	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	68	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	4.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.087	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.4	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	9.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By: NPopnikoff

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Certificate of Analysis

AGAT WORK ORDER: 15H010114

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2015-08-21

DATE REPORTED: 2015-08-28

		SAMPLE DESCRIPTION:		Duplicate - 2	SA 0, 40E	Sa 10S, 45E	Sa 30S, 75E	Sa OS, 60E	Sa 10S, 30E	Sa 30S, 54E	Sa 30S, 30E
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015	8/21/2015
Parameter	**Unit**	**G / S**	**RDL**	**6892787**	**6892798**	**6892801**	**6892804**	**6892807**	**6892810**	**6892814**	**6892817**
Bromoform	ug/g	0.61	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	34	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	6.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	26	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene	µg/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	46	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**									
Toluene-d8	% Recovery	50-140		104	106	106	107	106	105	104	106
4-Bromofluorobenzene	% Recovery	50-140		98	97	96	96	97	97	95	96

Certified By: N Popnikolof

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Certificate of Analysis

AGAT WORK ORDER: 15H010114

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:Masonary Court, Burlington, ON

ATTENTION TO: Paul Blunt

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2015-08-21

DATE REPORTED: 2015-08-28

		SAMPLE DESCRIPTION:		Sa 50S, 55E	Sa 10S, 70E	Sa 50S, 75E
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		8/21/2015	8/21/2015	8/21/2015
Parameter	Unit	G / S	RDL	6892820	6892823	6892827
Dichlorodifluoromethane	µg/g	16	0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.032	0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	4	0.05	<0.05	<0.05	<0.05
Acetone	ug/g	16	0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.064	0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	1.6	0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	1.3	0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	11	0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	17	0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	70	0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	55	0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.47	0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	6.1	0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.21	0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.32	0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.16	0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.91	0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	18	0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	31	0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.05	0.04	<0.04	<0.04	<0.04
Toluene	ug/g	68	0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	4.5	0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.087	0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.4	0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	9.5	0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05

Certified By: N Popmirkoff

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Certificate of Analysis

AGAT WORK ORDER: 15H010114

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2015-08-21

DATE REPORTED: 2015-08-28

		SAMPLE DESCRIPTION:		Sa 50S, 55E	Sa 10S, 70E	Sa 50S, 75E
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		8/21/2015	8/21/2015	8/21/2015
Parameter	**Unit**	**G / S**	**RDL**	**6892820**	**6892823**	**6892827**
Bromoform	ug/g	0.61	0.05	<0.05	<0.05	<0.05
Styrene	ug/g	34	0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	9.6	0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.2	0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	6.8	0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g	26	0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene	µg/g	0.18	0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g	46	0.05	<0.05	<0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	% Recovery	50-140		106	107	106
4-Bromofluorobenzene	% Recovery	50-140		95	96	94

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils

6892787-6892827 The sample was analysed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.

Certified By: N Popovkof

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Guideline Violation

AGAT WORK ORDER: 15H010114

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
6892840	Sa 90S, 70E	ON T3 S ICC CT	O. Reg. 153(511) - PAHs (Soil)	Benz(a)anthracene	0.96	1.3
6892840	Sa 90S, 70E	ON T3 S ICC CT	O. Reg. 153(511) - PAHs (Soil)	Benzo(a)pyrene	0.3	1.2
6892840	Sa 90S, 70E	ON T3 S ICC CT	O. Reg. 153(511) - PAHs (Soil)	Benzo(b)fluoranthene	0.96	1.6

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H010114

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

Soil Analysis

RPT Date: Aug 28, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	6892787	6892787	<0.8	<0.8	0.0%	< 0.8	92%	70%	130%	96%	80%	120%	97%	70%	130%
Arsenic	6892787	6892787	4	4	0.0%	< 1	106%	70%	130%	87%	80%	120%	92%	70%	130%
Barium	6892787	6892787	48	47	2.1%	< 2	97%	70%	130%	96%	80%	120%	97%	70%	130%
Beryllium	6892787	6892787	0.5	0.5	0.0%	< 0.5	90%	70%	130%	97%	80%	120%	93%	70%	130%
Boron	6892787	6892787	16	15	6.5%	< 5	76%	70%	130%	101%	80%	120%	95%	70%	130%
Boron (Hot Water Soluble)	6892801	6892801	0.29	0.29	0.0%	< 0.10	87%	60%	140%	98%	70%	130%	96%	60%	140%
Cadmium	6892787	6892787	<0.5	<0.5	0.0%	< 0.5	103%	70%	130%	98%	80%	120%	100%	70%	130%
Chromium	6892787	6892787	16	15	6.5%	< 2	86%	70%	130%	101%	80%	120%	99%	70%	130%
Cobalt	6892787	6892787	9.6	9.5	1.0%	< 0.5	92%	70%	130%	101%	80%	120%	99%	70%	130%
Copper	6892787	6892787	14	15	6.9%	< 1	88%	70%	130%	101%	80%	120%	93%	70%	130%
Lead	6892787	6892787	7	7	0.0%	< 1	97%	70%	130%	91%	80%	120%	86%	70%	130%
Molybdenum	6892787	6892787	<0.5	<0.5	0.0%	< 0.5	99%	70%	130%	102%	80%	120%	107%	70%	130%
Nickel	6892787	6892787	19	18	5.4%	< 1	91%	70%	130%	102%	80%	120%	96%	70%	130%
Selenium	6892787	6892787	<0.4	<0.4	0.0%	< 0.4	97%	70%	130%	98%	80%	120%	101%	70%	130%
Silver	6892787	6892787	<0.2	<0.2	0.0%	< 0.2	89%	70%	130%	110%	80%	120%	106%	70%	130%
Thallium	6892787	6892787	<0.4	<0.4	0.0%	< 0.4	97%	70%	130%	99%	80%	120%	98%	70%	130%
Uranium	6892787	6892787	<0.5	<0.5	0.0%	< 0.5	97%	70%	130%	93%	80%	120%	91%	70%	130%
Vanadium	6892787	6892787	20	19	5.1%	< 1	88%	70%	130%	98%	80%	120%	99%	70%	130%
Zinc	6892787	6892787	49	49	0.0%	< 5	101%	70%	130%	103%	80%	120%	94%	70%	130%
Chromium VI	6894492		< 0.2	< 0.2	0.0%	< 0.2	90%	70%	130%	92%	80%	120%	94%	70%	130%
Cyanide	6892787	6892787	<0.040	<0.040	0.0%	< 0.040	108%	70%	130%	100%	80%	120%	103%	70%	130%
Mercury	6892787	6892787	<0.10	<0.10	0.0%	< 0.10	104%	70%	130%	92%	80%	120%	89%	70%	130%
Electrical Conductivity	6892801	6892801	0.098	0.099	1.0%	< 0.005	91%	90%	110%	NA			NA		
Sodium Adsorption Ratio	6892801	6892801	0.330	0.331	0.3%	NA	NA			NA			NA		
pH, 2:1 CaCl2 Extraction	6892787	6892787	8.07	8.11	0.5%	NA	100%	80%	120%	NA			NA		

Comments: NA signifies Not Applicable.

Certified By: Amanjot Bhela

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123

SAMPLING SITE:Masonary Court, Burlington, ON

AGAT WORK ORDER: 15H010114

ATTENTION TO: Paul Blunt

SAMPLED BY:Wael Deiab

Trace Organics Analysis

RPT Date: Aug 28, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	125%	50%	140%	88%	50%	140%	73%	50%	140%
Vinyl Chloride	6892827	6892827	< 0.02	< 0.02	0.0%	< 0.02	121%	50%	140%	102%	50%	140%	90%	50%	140%
Bromomethane	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	114%	50%	140%	94%	50%	140%
Trichlorofluoromethane	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	95%	50%	140%	105%	50%	140%	103%	50%	140%
Acetone	6892827	6892827	< 0.50	< 0.50	0.0%	< 0.50	123%	50%	140%	115%	50%	140%	89%	50%	140%
1,1-Dichloroethylene	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	110%	50%	140%	101%	60%	130%	85%	50%	140%
Methylene Chloride	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	116%	50%	140%	115%	60%	130%	101%	50%	140%
Trans- 1,2-Dichloroethylene	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	108%	50%	140%	91%	60%	130%	89%	50%	140%
Methyl tert-butyl Ether	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	107%	60%	130%	83%	50%	140%
1,1-Dichloroethane	6892827	6892827	< 0.02	< 0.02	0.0%	< 0.02	112%	50%	140%	101%	60%	130%	89%	50%	140%
Methyl Ethyl Ketone	6892827	6892827	< 0.50	< 0.50	0.0%	< 0.50	81%	50%	140%	102%	50%	140%	80%	50%	140%
Cis- 1,2-Dichloroethylene	6892827	6892827	< 0.02	< 0.02	0.0%	< 0.02	120%	50%	140%	105%	60%	130%	84%	50%	140%
Chloroform	6892827	6892827	< 0.04	< 0.04	0.0%	< 0.04	120%	50%	140%	101%	60%	130%	86%	50%	140%
1,2-Dichloroethane	6892827	6892827	< 0.03	< 0.03	0.0%	< 0.03	110%	50%	140%	111%	60%	130%	97%	50%	140%
1,1,1-Trichloroethane	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	106%	60%	130%	79%	50%	140%
Carbon Tetrachloride	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	97%	50%	140%	102%	60%	130%	77%	50%	140%
Benzene	6892827	6892827	< 0.02	< 0.02	0.0%	< 0.02	115%	50%	140%	103%	60%	130%	97%	50%	140%
1,2-Dichloropropane	6892827	6892827	< 0.03	< 0.03	0.0%	< 0.03	108%	50%	140%	105%	60%	130%	90%	50%	140%
Trichloroethylene	6892827	6892827	< 0.03	< 0.03	0.0%	< 0.03	118%	50%	140%	109%	60%	130%	102%	50%	140%
Bromodichloromethane	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	93%	50%	140%	89%	60%	130%	72%	50%	140%
Methyl Isobutyl Ketone	6892827	6892827	< 0.50	< 0.50	0.0%	< 0.50	89%	50%	140%	88%	50%	140%	80%	50%	140%
1,1,2-Trichloroethane	6892827	6892827	< 0.04	< 0.04	0.0%	< 0.04	107%	50%	140%	98%	60%	130%	89%	50%	140%
Toluene	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	111%	50%	140%	98%	60%	130%	96%	50%	140%
Dibromochloromethane	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	103%	60%	130%	78%	50%	140%
Ethylene Dibromide	6892827	6892827	< 0.04	< 0.04	0.0%	< 0.04	91%	50%	140%	92%	60%	130%	79%	50%	140%
Tetrachloroethylene	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	113%	50%	140%	102%	60%	130%	96%	50%	140%
1,1,1,2-Tetrachloroethane	6892827	6892827	< 0.04	< 0.04	0.0%	< 0.04	101%	50%	140%	93%	60%	130%	73%	50%	140%
Chlorobenzene	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	112%	50%	140%	104%	60%	130%	98%	50%	140%
Ethylbenzene	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	105%	50%	140%	97%	60%	130%	91%	50%	140%
m & p-Xylene	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	104%	50%	140%	97%	60%	130%	91%	50%	140%
Bromoform	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	99%	50%	140%	102%	60%	130%	72%	50%	140%
Styrene	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	117%	50%	140%	116%	60%	130%	103%	50%	140%
1,1,2,2-Tetrachloroethane	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	89%	60%	130%	77%	50%	140%
o-Xylene	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	110%	50%	140%	100%	60%	130%	92%	50%	140%
1,3-Dichlorobenzene	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	108%	50%	140%	104%	60%	130%	87%	50%	140%
1,4-Dichlorobenzene	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	111%	50%	140%	106%	60%	130%	95%	50%	140%
1,2-Dichlorobenzene	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	107%	50%	140%	101%	60%	130%	91%	50%	140%
1,3-Dichloropropene	6892827	6892827	< 0.04	< 0.04	0.0%	< 0.04	101%	50%	140%	110%	60%	130%	84%	50%	140%
n-Hexane	6892827	6892827	< 0.05	< 0.05	0.0%	< 0.05	106%	50%	140%	105%	60%	130%	72%	50%	140%

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http://www.agatlabs.com

Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H010114

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

Trace Organics Analysis (Continued)

RPT Date: Aug 28, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (with PAHs) (Soil)															
F1 (C6 to C10)	6892774		< 5	< 5	0.0%	< 5	117%	60%	130%	113%	85%	115%	77%	70%	130%
F2 (C10 to C16)	6893100		< 10	< 10	0.0%	< 10	98%	60%	130%	98%	80%	120%	101%	70%	130%
F3 (C16 to C34)	6893100		< 50	< 50	0.0%	< 50	104%	60%	130%	101%	80%	120%	104%	70%	130%
F4 (C34 to C50)	6893100		< 50	< 50	0.0%	< 50	89%	60%	130%	98%	80%	120%	73%	70%	130%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	88%	50%	140%	84%	50%	140%	98%	50%	140%
Acenaphthylene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	95%	50%	140%	76%	50%	140%	87%	50%	140%
Acenaphthene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	80%	50%	140%	93%	50%	140%
Fluorene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	94%	50%	140%	74%	50%	140%	86%	50%	140%
Phenanthrene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	84%	50%	140%	67%	50%	140%	78%	50%	140%
Anthracene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	96%	50%	140%	75%	50%	140%	90%	50%	140%
Fluoranthene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	71%	50%	140%	90%	50%	140%
Pyrene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	76%	50%	140%	90%	50%	140%
Benz(a)anthracene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	74%	50%	140%	51%	50%	140%	74%	50%	140%
Chrysene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	95%	50%	140%	77%	50%	140%	97%	50%	140%
Benzo(b)fluoranthene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	102%	50%	140%	57%	50%	140%	74%	50%	140%
Benzo(k)fluoranthene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	132%	50%	140%	72%	50%	140%	99%	50%	140%
Benzo(a)pyrene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	125%	50%	140%	67%	50%	140%	81%	50%	140%
Indeno(1,2,3-cd)pyrene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	111%	50%	140%	54%	50%	140%	65%	50%	140%
Dibenz(a,h)anthracene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	111%	50%	140%	56%	50%	140%	63%	50%	140%
Benzo(g,h,i)perylene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	108%	50%	140%	57%	50%	140%	68%	50%	140%
2-and 1-methyl Naphthalene	6892787	6892787	< 0.05	< 0.05	0.0%	< 0.05	109%	50%	140%	82%	50%	140%	95%	50%	140%

Certified By: N Popnikoff

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http://www.agatlabs.com

Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H010114

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Barium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	EPA SW 846 6010C; MSA, Part 3, Ch.21	ICP/OES
Cadmium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Copper	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Lead	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Nickel	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Selenium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Silver	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Thallium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Uranium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Zinc	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium VI	INOR-93-6029	SM 3500 B; MSA Part 3, Ch. 25	SPECTROPHOTOMETER
Cyanide	INOR-93-6052	MOE CN-3015 & E 3009 A;SM 4500 CN	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Electrical Conductivity	INOR-93-6036	McKeague 4.12, SM 2510 B	EC METER
Sodium Adsorption Ratio	INOR-93-6007	McKeague 4.12 & 3.26 & EPA SW-846 6010B	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	MSA part 3 & SM 4500-H+ B	PH METER

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H010114

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluorene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Phenanthrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benz(a)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Chrysene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(a)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Moisture Content	ORG-91-5106	EPA SW-846 3541 & 8270	BALANCE
Chrysene-d12	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
F1 (C6 to C10)	VOL-91-5009	CCME Tier 1 Method	GC / FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	GC / FID
F2 (C10 to C16)	VOL-91-5009	CCME Tier 1 Method	GC / FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	CCME Tier 1 Method	GC / FID
F3 (C16 to C34)	VOL-91-5009	CCME Tier 1 Method	GC / FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	CCME Tier 1 Method	GC / FID
F4 (C34 to C50)	VOL-91-5009	CCME Tier 1 Method	GC / FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	CCME Tier 1 Method	GRAVIMETRIC ANALYSIS
Moisture Content	VOL-91-5009	CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009		GC/FID
Dichlorodifluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromomethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Acetone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Chloroform	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Benzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H010114

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deiab

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Methyl Isobutyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Toluene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromoform	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Styrene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
o-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Xylene Mixture	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
n-Hexane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Toluene-d8	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS

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Ph: 905.712.5100 Fax: 905.712.5122
www.agatlabs.com webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Laboratory Use Only

Work Order #: 15H 01 0114
Cooler Quantity: 1 COOLER (LRG)
Arrival Temperatures: 6.3 6.2 6.0 5.3 5.2 5.0
Custody Seal Intact: ☐ Yes ☐ No ☒ N/A
Notes:

Report Information:

Company: Landtek Ltd
Contact: Paul Burt
Address: 205 Nebo Rd - Hamilton, Ont
Phone: 905 3837733 Fax:
Reports to be sent to:
1. Email: Paul@Landtek Limited.com
2. Email:

Regulatory Requirements:

☐ No Regulatory Requirement
(Please check all applicable boxes)

~~☐ Regulation 153/04~~
Table 3 (Indicate One)
~~☐ Ind/Com~~
☐ Res/Park
☐ Agriculture

Soil Texture (Check One)
☐ Coarse
☐ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region _____ (Indicate One)

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other _____ (Indicate One)

Is this submission for a **Record of Site Condition?**
~~☐ Yes~~ ☐ No

Report Guideline on *Certificate of Analysis*
☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ~~☐ 5 to 7~~ Business Days

Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

Project Information:

Project: McSonary Crt
Site Location: Burlington - Ontario
Sampled By: Wael Deiab
AGAT Quote #: 14123 PO:
Please note that if quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: ~~Yes ☐~~ No ☐
Company:
Contact:
Address:
Email:

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl ☐ CN ☐ Cr^{6+} ☐ EC ☐ FOC ☐ NO_3/NO_2 ☐ Total N ☐ Hg ☐ pH ☐ SAR	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
Duplicate - 2	Aug 21	AM	3	Soil		✓						✓	✓		✓				
Sa 0, 40E	"	"	3	"		✓						✓	✓		✓				
Sa 10S, 45E	"	"	3	"		✓						✓	✓		✓				
Sa 30S, 75E	"	"	3	"		✓						✓	✓		✓				
Sa 0S, 60E	"	"	3	"		✓						✓	✓		✓				
Sa 10S, 30E	"	"	3	"		✓						✓	✓		✓				
Sa 30S, 54E	"	"	3	"		✓						✓	✓		✓				
Sa 30S, 30E	"	"	3	"		✓						✓	✓		✓				
Sa 50S, 55E	"	"	3	"		✓						✓	✓		✓				
Sa 10S, 70E	"	"	3	"		✓						✓	✓		✓				
Sa 50S, 75E	"	"	3	"		✓						✓	✓		✓				

Samples Relinquished By (Print Name and Sign): Wael Deiab — Date: 21 Aug — Time:
Samples Relinquished By (Print Name and Sign): Wael Deiab — Date: 21 Aug — Time:
Julia Angelucci — Aug 21/15 — 1500

Samples Received By (Print Name and Sign): Julia Angelucci — Date: Aug 21/15 — Time: 1:33 pm
Samples Received By (Print Name and Sign): — Date: 20/08/21 — Time: 1:50

Page 1 of 2

N°: T 004920

White Copy: Client | Yellow Copy: AGAT | Pink Copy: AGAT

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905 712.5100 Fax: 905 712 5122
www.agatlabs.com webearth agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Report Information:

Company: Landtek Ltd
Contact: Paul Bunt
Address: 205 Nebo Rd Hamilton ON
Phone: 905 3833733 Fax:
Reports to be sent to:
1. Email:
2. Email: Paul@landtekLimited.ca

Regulatory Requirements:

☐ No Regulatory Requirement
(Please check all applicable boxes)

☐ Regulation 153/04
Table 3 (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☐ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region _____ (Indicate One)

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
(Indicate One)

Is this submission for a Record of Site Condition? ☐ Yes ☐ No

Report Guideline on Certificate of Analysis ☐ Yes ☐ No

Project Information:

Project: Masonary Crk
Site Location: Burlington ON
Sampled By: Wael Deida
AGAT Quote #: 14123 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same ☐ Yes ☐ No
Company:
Contact:
Address:
Email:

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order # 15H 010114
Cooler Quantity: 1 cooler (UR6)
Arrival Temperatures: 6.3 6.2 6.0
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
*TAT is exclusive of weekends and statutory holidays

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl ☐ CN ☐ EC ☐ FOC ☐ NO_3/NO_2 ☐ Total N ☐ Hg ☐ pH ☐ SAR (Check Applicable)	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	Sewer Use
Sa 90S, 70E	Aug21	Am	1	Soil											✓				
Sa 80S, 50E	"	"	1	"											✓				
Sa 90S, 50E	"	"	1	"											✓				
Sa 0, 80E	"	"	1	"											✓				
Sa 70S, 70E	"	"	1	"											✓				
Sa 35S, 90E	"	"	1	"											✓				
Sa 0, 90E	"	"	1	"											✓				
Sa 10S, 90E	"	"	1	"											✓				

Samples Relinquished By (Print Name and Sign): Wael Deida Date: 21/Aug Time:
Samples Relinquished By (Print Name and Sign): Wael Deida Date: 21/Aug Time:
Julia Angnilli Aug 21/15 15Op

Samples Received By (Print Name and Sign): Julia Angnilli Date: Aug 21/15 Time: 11:33am
Samples Received By (Print Name and Sign): Date: 20/08/15 Time: 1:52

Page 2 of 2

No: T 004918

AGAT Laboratories

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FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Paul Blunt

PROJECT: 14123

AGAT WORK ORDER: 15H010856

TRACE ORGANICS REVIEWED BY: Oksana Gushyla, Trace Organics Lab Supervisor

DATE REPORTED: Aug 31, 2015

PAGES (INCLUDING COVER): 7

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

***NOTES**

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

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Results relate only to the items tested and to all the items tested
All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request

AGAT Laboratories

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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 15H010856

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deial

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2015-08-24

DATE REPORTED: 2015-08-31

		SAMPLE DESCRIPTION:		Sa 85S, 85E	Sa 10S, 85E	Sa 30S, 85E	Sa 50S, 85E	Sa 70S, 85E	Sa 70S, 65E	Sa 85S, 65E	Duplicate-3
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		8/24/2015	8/24/2015	8/24/2015	8/24/2015	8/24/2015	8/24/2015	8/24/2015	8/24/2015
Parameter	**Unit**	**G / S**	**RDL**	6897895	6897910	6897911	6897912	6897913	6897914	6897915	6897916
Naphthalene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.76	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	76	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	9.4	15.7	10.6	8.4	7.2	6.0	16.6	15.9
Surrogate	**Unit**	**Acceptable Limits**									
Chrysene-d12	%	50-140		88	75	68	81	91	85	71	81

Certified By:

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 15H010856

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deial

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2015-08-24

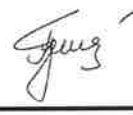
DATE REPORTED: 2015-08-31

		SAMPLE DESCRIPTION:		Sa 90S, 90E	Sa 75S, 90E	Sa 60S, 90E	Sa 40S, 90E	Sa 25S, 90E	Sa 0, 88E	Sa 90S, 82E	Duplicate-4
		SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		DATE SAMPLED:		8/24/2015	8/24/2015	8/24/2015	8/24/2015	8/24/2015	8/24/2015	8/24/2015	8/24/2015
Parameter	**Unit**	**G / S**	**RDL**	**6897917**	**6897918**	**6897919**	**6897920**	**6897921**	**6897922**	**6897923**	**6897924**
Naphthalene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.15	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	62	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.19	<0.05
Anthracene	µg/g	0.67	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	0.28	<0.05
Pyrene	µg/g	96	0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	0.21	<0.05
Benz(a)anthracene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	0.13	<0.05
Chrysene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	0.22	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.10	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.76	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05
2-and 1-methyl Naphthalene	µg/g	76	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	5.7	7.5	6.9	7.5	6.9	3.0	5.1	2.5
Surrogate	**Unit**	**Acceptable Limits**									
Chrysene-d12	%	50-140		88	88	79	92	81	85	68	96

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Coarse Textured Soils

6897895-6897924 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

Certified By:



Results relate only to the items tested and to all the items tested

AGAT Laboratories

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http://www.agatlabs.com

Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H010856

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deial

Trace Organics Analysis

RPT Date: Aug 31, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	94%	50%	140%	86%	50%	140%	62%	50%	140%
Acenaphthylene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	78%	50%	140%	60%	50%	140%
Acenaphthene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	83%	50%	140%	61%	50%	140%
Fluorene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	92%	50%	140%	78%	50%	140%	59%	50%	140%
Phenanthrene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	84%	50%	140%	66%	50%	140%	62%	50%	140%
Anthracene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	90%	50%	140%	79%	50%	140%	79%	50%	140%
Fluoranthene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	91%	50%	140%	76%	50%	140%	80%	50%	140%
Pyrene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	93%	50%	140%	77%	50%	140%	83%	50%	140%
Benz(a)anthracene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	70%	50%	140%	58%	50%	140%	61%	50%	140%
Chrysene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	109%	50%	140%	86%	50%	140%	95%	50%	140%
Benzo(b)fluoranthene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	96%	50%	140%	71%	50%	140%	65%	50%	140%
Benzo(k)fluoranthene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	134%	50%	140%	102%	50%	140%	110%	50%	140%
Benzo(a)pyrene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	120%	50%	140%	86%	50%	140%	93%	50%	140%
Indeno(1,2,3-cd)pyrene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	105%	50%	140%	77%	50%	140%	71%	50%	140%
Dibenz(a,h)anthracene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	103%	50%	140%	74%	50%	140%	67%	50%	140%
Benzo(g,h,i)perylene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	104%	50%	140%	82%	50%	140%	75%	50%	140%
2-and 1-methyl Naphthalene	6897924	6897924	< 0.05	< 0.05	0.0%	< 0.05	108%	50%	140%	83%	50%	140%	62%	50%	140%

Certified By:

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Results relate only to the items tested and to all the items tested

AGAT Laboratories

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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H010856

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court, Burlington, ON

SAMPLED BY:Wael Deial

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluorene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Phenanthrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benz(a)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Chrysene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(a)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Moisture Content	ORG-91-5106	EPA SW-846 3541 & 8270	BALANCE
Chrysene-d12	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS

Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
www.agatlabs.com webearth@agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Laboratory Use Only
Work Order #: 1SH 010856
Cooler Quantity: 1 COOLER (URG)
Arrival Temperatures: 6.9 6.7 6.8 3.2 2.9 3.0
Custody Seal Intact: ☐ Yes ☐ No ☒ N/A
Notes: ON ICE

Report Information:
Company: Landtek Ltd
Contact: Paul Bunt
Address: 205 Deborah Unit 3
Phone: 905 383 3733 Fax:
Reports to be sent to:
1. Email: Paul@landtek.ca
2. Email:

Regulatory Requirements: ☐ No Regulatory Requirement
(Please check all applicable boxes)

☒ Regulation 153/04 Table 3 ☐ Reg 558
☐ Sewer Use ☐ Regulation 558
☐ Ind/Com ☐ Sanitary ☐ CCME
☐ Res/Park ☐ Storm ☐ Prov. Water Quality Objectives (PWQO)
☐ Agriculture
Soil Texture (Check One) Region (Indicate One) ☐ Other (Indicate One)
☐ Coarse
☐ Fine

Is this submission for a **Record of Site Condition**? ☒ Yes ☐ No

Report Guideline on Certificate of Analysis ☐ Yes ☐ No

Turnaround Time (TAT) Required:
Regular TAT ☒ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day
OR Date Required (Rush Surcharges May Apply):
Please provide prior notification for rush TAT
TAT is exclusive of weekends and statutory holidays

Project Information:
Project: Masonary Cst
Site Location: 1412 3 Burlington, Ontario
Sampled By: Wael Deiab
AGAT Quote #: 14123 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information: Bill To Same: Yes ☐ No ☒
Company:
Contact:
Address:
Email:

Sample Matrix Legend
B Biota
GW Ground Water
O Oil
P Paint
S Soil
SD Sediment
SW Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl ☐ CN ☐ Cr^{6+} ☐ EC ☐ FOC ☐ NO_3/NO_2 ☐ Total N ☐ Hg ☐ Diss ☐ SAR	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
Sa 85 S, 85E	24 Aug	PM	1	Soil											X				
Sa 10 S, 85E	"	"	"	"											X				
Sa 30 S, 85E															X				
Sa 50 S, 85E															X				
Sa 70 S, 85E															X				
Sa 70 S, 65 E															X				
Sa 85 S, 65 E															X				
Duplicate-3															X				
Sa 90 S, 90E															X				
Sa 75 S, 90E															X				
Sa 60 S, 90E															X				

Samples Relinquished By (Print Name and Sign): Wael Deiab Date: 24 Aug Time: 2:58
Samples Received By (Print Name and Sign): Julia Angrilli
Samples Relinquished By (Print Name and Sign): Wael Deiab Date: 24 Aug Time: 2:58
Samples Received By (Print Name and Sign): JULIA ANGRILLI Date: AUG 25 15 Time: 10:55am
Date: AUG 24 15 Time: 2:58p
Date: 2015-8-25 Time: 10:55

Page 1 of 2
N°: T 000919

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AGAT Laboratories

5835 [illegible]
Mississauga Ontario L4Z 1Y2
Ph: 905 712.5100 Fax: 905.712.5122
www.agatlabs.com webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Report Information:

Company: Landtek Ltd
Contact: Paul B
Address: 205 Nebo Rd Hamilton Ont
Phone: 905 383 3733 Fax:
Reports to be sent:
1. Email: Paul@landteklimited.ca
2. Email:

Project Information:

Project: Masonry Ct
Site Location: Masonry Ct Burlington Ont
Sampled By: Wael Deib
AGAT Quote #: 14123 PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact:
Address:
Email:

Regulatory Requirements:

☐ No Regulatory Requirement

(Please check applicable boxes)

☒ Regulation 153/04 Table 3
☐ Ind/Com
☐ Res/Park
☐ Agriculture
☐ Sewer Use
☐ Sanitary
☐ Storm
Region _____ *Indicate One*
☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other

Soil Texture *(Check One)*
☐ Coarse
☐ Fine

Is this submission for a Record of Site Condition? ☒ Yes ☐ No

Report Guideline on Certificate of Analysis ☐ Yes ☐ No

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Laboratory Use Only

Work Order #: 1SH 010856
Cooler Quantity: 1 cooler (UPS)
Arrival Temperatures: 6.9 6.1 6.8
32 29 5
Custody Seal Intact: ☐ Yes ☐ No ☒ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days
Rush TAT (Rush Surcharges Apply)
☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
** TAT is exclusive of weekends and statutory holidays*

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl⁻ ☐ CN⁻ ☐ Cr⁶⁺ ☐ EC ☐ FOC ☐ NO_3/NO_2 ☐ Total N ☐ SAR	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
Sa 40S, 90E	24 Aug	PM	1	Soil											X					
Sa 25S, 90E															X					
Sa 0, 88E															X					
Sa 90S, 82E															X					
Duplicate-4															X					

Samples Relinquished By (Print Name and Sign): Wael Deib — Date: 24 Aug — Time: 258
Samples Received By (Print Name and Sign): JULIA ANGELLI — Date: Aug 25/15 — Time: 1050am

Samples Relinquished By (Print Name and Sign): Wael Deib — Date: 24 Aug — Time: 258
Samples Received By (Print Name and Sign): [illegible] — Date: Aug 25/15 — Time: 258p

Page 2 of 2

N° T 004921

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Paul Blunt

PROJECT: 14123

AGAT WORK ORDER: 15H016376

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Coordinator

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Sep 16, 2015

PAGES (INCLUDING COVER): 13

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

Member of: Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA)
Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

Results relate only to the items tested and to all the items tested
All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request

AGAT Laboratories

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FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 15H016376

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court

SAMPLED BY:

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-16

		SAMPLE DESCRIPTION:		Duplicate-3	Sa 10S, 48E	Sa 40S, 50E
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		9/8/2015	9/8/2015	9/8/2015
Parameter	Unit	G / S	RDL	6950289	6950294	6950297
Antimony	µg/g		0.8	<0.8	<0.8	<0.8
Arsenic	µg/g		1	5	5	5
Barium	µg/g		2	81	78	89
Beryllium	µg/g		0.5	0.6	0.6	0.6
Boron	µg/g		5	9	10	12
Boron (Hot Water Soluble)	µg/g		0.10	0.22	0.22	0.22
Cadmium	µg/g		0.5	<0.5	<0.5	<0.5
Chromium	µg/g		2	16	16	18
Cobalt	µg/g		0.5	7.7	7.9	9.3
Copper	µg/g		1	29	25	25
Lead	µg/g		1	15	11	10
Molybdenum	µg/g		0.5	<0.5	<0.5	0.5
Nickel	µg/g		1	17	18	21
Selenium	µg/g		0.4	<0.4	<0.4	<0.4
Silver	µg/g		0.2	<0.2	<0.2	<0.2
Thallium	µg/g		0.4	<0.4	<0.4	<0.4
Uranium	µg/g		0.5	<0.5	<0.5	0.5
Vanadium	µg/g		1	23	23	24
Zinc	µg/g		5	43	41	46
Chromium VI	µg/g		0.2	<0.2	<0.2	<0.2
Cyanide	µg/g		0.040	<0.040	<0.040	<0.040
Mercury	µg/g		0.10	<0.10	<0.10	<0.10
Electrical Conductivity	mS/cm		0.005	0.148	0.151	0.144
Sodium Adsorption Ratio	NA		NA	0.530	0.561	0.460
pH, 2:1 CaCl2 Extraction	pH Units		NA	7.53	7.53	7.52

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6950289-6950297 EC & SAR were determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio.

Certified By: Amanjot Bhela

Results relate only to the items tested and to all the items tested

AGAT Laboratories
5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 15H016376

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court

SAMPLED BY:

O. Reg. 153(511) - PAHs (Soil)

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-16

		SAMPLE DESCRIPTION:		Sa 72S, 94E	Sa 68S, 94E
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		9/8/2015	9/8/2015
Parameter	Unit	G / S	RDL	6950301	6950302
Naphthalene	µg/g		0.05	<0.05	<0.05
Acenaphthylene	µg/g		0.05	<0.05	<0.05
Acenaphthene	µg/g		0.05	<0.05	<0.05
Fluorene	µg/g		0.05	<0.05	<0.05
Phenanthrene	µg/g		0.05	<0.05	<0.05
Anthracene	µg/g		0.05	<0.05	<0.05
Fluoranthene	µg/g		0.05	<0.05	<0.05
Pyrene	µg/g		0.05	<0.05	<0.05
Benz(a)anthracene	µg/g		0.05	<0.05	<0.05
Chrysene	µg/g		0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g		0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g		0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g		0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g		0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g		0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g		0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g		0.05	<0.05	<0.05
Moisture Content	%		0.1	4.7	4.1
Surrogate	**Unit**	**Acceptable Limits**			
Chrysene-d12	%	50-140		83	92

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6950301-6950302 Results are based on the dry weight of the soil.
Note: The result for Benzo(b)Fluoranthene is the total of the Benzo(b)&(j)Fluoranthene isomers because the isomers co-elute on the GC column.

Certified By: N Popnikolof

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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CANADA L4Z 1Y2
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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 15H016376

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court

SAMPLED BY:

O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-16

		SAMPLE DESCRIPTION:		Duplicate-3	Sa 10S, 48E	Sa 40S, 50E
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		9/8/2015	9/8/2015	9/8/2015
Parameter	Unit	G / S	RDL	6950289	6950294	6950297
F1 (C6 to C10)	µg/g		5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g		5	<5	<5	<5
F2 (C10 to C16)	µg/g		10	<10	<10	<10
F3 (C16 to C34)	µg/g		50	<50	<50	<50
F4 (C34 to C50)	µg/g		50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g		50	NA	NA	NA
Moisture Content	%		0.1	12.1	12.7	12.0
Surrogate	**Unit**	**Acceptable Limits**				
Terphenyl	%	60-140		112	118	120

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6950289-6950297 Results are based on sample dry weight.
The C6-C10 fraction is calculated using toluene response factor.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6 - C50 results are corrected for BTEX contributions.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 + nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Certified By: N Popnikolof

Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
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Certificate of Analysis

AGAT WORK ORDER: 15H016376

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:Masonary Court

ATTENTION TO: Paul Blunt

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-16

		SAMPLE DESCRIPTION:		Duplicate-3	Sa 10S, 48E	Sa 40S, 50E
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		9/8/2015	9/8/2015	9/8/2015
Parameter	Unit	G / S	RDL	6950289	6950294	6950297
Dichlorodifluoromethane	µg/g		0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g		0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g		0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g		0.05	<0.05	<0.05	<0.05
Acetone	ug/g		0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g		0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g		0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g		0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g		0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g		0.02	<0.02	<0.02	<0.02
Chloroform	ug/g		0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g		0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g		0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g		0.05	<0.05	<0.05	<0.05
Benzene	ug/g		0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g		0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g		0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g		0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g		0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g		0.04	<0.04	<0.04	<0.04
Toluene	ug/g		0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g		0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g		0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g		0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g		0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g		0.05	<0.05	<0.05	<0.05
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05

Certified By: NPopovkof

Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 15H016376

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court

SAMPLED BY:

O. Reg. 153(511) - VOCs (Soil)

DATE RECEIVED: 2015-09-09

DATE REPORTED: 2015-09-16

		SAMPLE DESCRIPTION:		Duplicate-3	Sa 10S, 48E	Sa 40S, 50E
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		9/8/2015	9/8/2015	9/8/2015
Parameter	Unit	G / S	RDL	6950289	6950294	6950297
Bromoform	ug/g		0.05	<0.05	<0.05	<0.05
Styrene	ug/g		0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g		0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g		0.05	<0.05	<0.05	<0.05
Xylene Mixture	ug/g		0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene	µg/g		0.04	<0.04	<0.04	<0.04
n-Hexane	µg/g		0.05	<0.05	<0.05	<0.05
Surrogate	**Unit**	**Acceptable Limits**				
Toluene-d8	% Recovery	50-140		117	110	111
4-Bromofluorobenzene	% Recovery	50-140		93	93	93

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

6950289-6950297 The sample was analysed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.

Certified By:



Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
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CANADA L4Z 1Y2
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FAX (905)712-5122
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H016376

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court

SAMPLED BY:

Soil Analysis

RPT Date: Sep 16, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	6950417		<0.8	<0.8	0.0%	< 0.8	101%	70%	130%	97%	80%	120%	107%	70%	130%
Arsenic	6950417		2	2	0.0%	< 1	111%	70%	130%	90%	80%	120%	98%	70%	130%
Barium	6950417		359	360	0.3%	< 2	100%	70%	130%	94%	80%	120%	93%	70%	130%
Beryllium	6950417		1.3	1.2	8.0%	< 0.5	80%	70%	130%	99%	80%	120%	86%	70%	130%
Boron	6950417		13	12	8.0%	< 5	99%	70%	130%	97%	80%	120%	96%	70%	130%
Boron (Hot Water Soluble)	6951714		1.21	1.20	0.8%	< 0.10	107%	60%	140%	94%	70%	130%	109%	60%	140%
Cadmium	6950417		<0.5	<0.5	0.0%	< 0.5	102%	70%	130%	105%	80%	120%	95%	70%	130%
Chromium	6950417		58	58	0.0%	< 2	86%	70%	130%	107%	80%	120%	101%	70%	130%
Cobalt	6950417		20.4	20.2	1.0%	< 0.5	82%	70%	130%	93%	80%	120%	96%	70%	130%
Copper	6950417		40	40	0.0%	< 1	74%	70%	130%	95%	80%	120%	87%	70%	130%
Lead	6950417		13	14	7.4%	< 1	93%	70%	130%	85%	80%	120%	117%	70%	130%
Molybdenum	6950417		<0.5	<0.5	0.0%	< 0.5	102%	70%	130%	96%	80%	120%	102%	70%	130%
Nickel	6950417		40	39	2.5%	< 1	83%	70%	130%	96%	80%	120%	90%	70%	130%
Selenium	6950417		<0.4	<0.4	0.0%	< 0.4	116%	70%	130%	87%	80%	120%	95%	70%	130%
Silver	6950417		<0.2	<0.2	0.0%	< 0.2	72%	70%	130%	101%	80%	120%	104%	70%	130%
Thallium	6950417		0.5	0.5	0.0%	< 0.4	86%	70%	130%	96%	80%	120%	95%	70%	130%
Uranium	6950417		0.7	0.7	0.0%	< 0.5	90%	70%	130%	83%	80%	120%	117%	70%	130%
Vanadium	6950417		77	77	0.0%	< 1	83%	70%	130%	92%	80%	120%	98%	70%	130%
Zinc	6950417		107	105	1.9%	< 5	84%	70%	130%	93%	80%	120%	78%	70%	130%
Chromium VI	6950417		<0.2	<0.2	0.0%	< 0.2	99%	70%	130%	96%	80%	120%	102%	70%	130%
Cyanide	6950417		<0.040	<0.040	0.0%	< 0.040	97%	70%	130%	100%	80%	120%	102%	70%	130%
Mercury	6950417		<0.10	<0.10	0.0%	< 0.10	102%	70%	130%	96%	80%	120%	78%	70%	130%
Electrical Conductivity	6952683		0.398	0.399	0.3%	< 0.005	91%	90%	110%	NA			NA		
Sodium Adsorption Ratio	6952683		2.67	2.72	1.9%	NA	NA			NA			NA		
pH, 2:1 CaCl2 Extraction	6954304		7.44	7.34	1.4%	NA	100%	80%	120%	NA			NA		

Comments: NA signifies Not Applicable.

Certified By: Amanjot Bhela

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http://www.agatlabs.com

Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123

SAMPLING SITE:Masonary Court

AGAT WORK ORDER: 15H016376

ATTENTION TO: Paul Blunt

SAMPLED BY:

Trace Organics Analysis

RPT Date: Sep 16, 2015			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - VOCs (Soil)															
Dichlorodifluoromethane	6949371		< 0.05	< 0.05	0.0%	< 0.05	80%	50%	140%	98%	50%	140%	123%	50%	140%
Vinyl Chloride	6949371		< 0.02	< 0.02	0.0%	< 0.02	82%	50%	140%	111%	50%	140%	68%	50%	140%
Bromomethane	6949371		< 0.05	< 0.05	0.0%	< 0.05	88%	50%	140%	121%	50%	140%	68%	50%	140%
Trichlorofluoromethane	6949371		< 0.05	< 0.05	0.0%	< 0.05	85%	50%	140%	112%	50%	140%	115%	50%	140%
Acetone	6949371		< 0.50	< 0.50	0.0%	< 0.50	103%	50%	140%	85%	50%	140%	103%	50%	140%
1,1-Dichloroethylene	6949371		< 0.05	< 0.05	0.0%	< 0.05	110%	50%	140%	81%	60%	130%	117%	50%	140%
Methylene Chloride	6949371		< 0.05	< 0.05	0.0%	< 0.05	117%	50%	140%	112%	60%	130%	116%	50%	140%
Trans- 1,2-Dichloroethylene	6949371		< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	78%	60%	130%	115%	50%	140%
Methyl tert-butyl Ether	6949371		< 0.05	< 0.05	0.0%	< 0.05	68%	50%	140%	84%	60%	130%	104%	50%	140%
1,1-Dichloroethane	6949371		< 0.02	< 0.02	0.0%	< 0.02	105%	50%	140%	81%	60%	130%	114%	50%	140%
Methyl Ethyl Ketone	6949371		< 0.50	< 0.50	0.0%	< 0.50	83%	50%	140%	75%	50%	140%	103%	50%	140%
Cis- 1,2-Dichloroethylene	6949371		< 0.02	< 0.02	0.0%	< 0.02	63%	50%	140%	75%	60%	130%	74%	50%	140%
Chloroform	6949371		< 0.04	< 0.04	0.0%	< 0.04	71%	50%	140%	71%	60%	130%	118%	50%	140%
1,2-Dichloroethane	6949371		< 0.03	< 0.03	0.0%	< 0.03	102%	50%	140%	85%	60%	130%	109%	50%	140%
1,1,1-Trichloroethane	6949371		< 0.05	< 0.05	0.0%	< 0.05	84%	50%	140%	72%	60%	130%	94%	50%	140%
Carbon Tetrachloride	6949371		< 0.05	< 0.05	0.0%	< 0.05	68%	50%	140%	66%	60%	130%	70%	50%	140%
Benzene	6949371		< 0.02	< 0.02	0.0%	< 0.02	102%	50%	140%	87%	60%	130%	113%	50%	140%
1,2-Dichloropropane	6949371		< 0.03	< 0.03	0.0%	< 0.03	121%	50%	140%	104%	60%	130%	96%	50%	140%
Trichloroethylene	6949371		< 0.03	< 0.03	0.0%	< 0.03	104%	50%	140%	113%	60%	130%	103%	50%	140%
Bromodichloromethane	6949371		< 0.04	< 0.04	0.0%	< 0.05	119%	50%	140%	108%	60%	130%	103%	50%	140%
Methyl Isobutyl Ketone	6949371		< 0.50	< 0.50	0.0%	< 0.50	107%	50%	140%	117%	50%	140%	113%	50%	140%
1,1,2-Trichloroethane	6949371		< 0.04	< 0.04	0.0%	< 0.04	119%	50%	140%	122%	60%	130%	115%	50%	140%
Toluene	6949371		< 0.05	< 0.05	0.0%	< 0.05	120%	50%	140%	116%	60%	130%	122%	50%	140%
Dibromochloromethane	6949371		< 0.03	< 0.03	0.0%	< 0.05	92%	50%	140%	89%	60%	130%	91%	50%	140%
Ethylene Dibromide	6949371		< 0.04	< 0.04	0.0%	< 0.04	114%	50%	140%	116%	60%	130%	104%	50%	140%
Tetrachloroethylene	6949371		< 0.05	< 0.05	0.0%	< 0.05	111%	50%	140%	109%	60%	130%	119%	50%	140%
1,1,1,2-Tetrachloroethane	6949371		< 0.04	< 0.04	0.0%	< 0.04	106%	50%	140%	96%	60%	130%	94%	50%	140%
Chlorobenzene	6949371		< 0.05	< 0.05	0.0%	< 0.05	117%	50%	140%	122%	60%	130%	117%	50%	140%
Ethylbenzene	6949371		< 0.05	< 0.05	0.0%	< 0.05	116%	50%	140%	119%	60%	130%	114%	50%	140%
m & p-Xylene	6949371		< 0.05	< 0.05	0.0%	< 0.05	110%	50%	140%	114%	60%	130%	111%	50%	140%
Bromoform	6949371		< 0.03	< 0.03	0.0%	< 0.05	88%	50%	140%	91%	60%	130%	71%	50%	140%
Styrene	6949371		< 0.05	< 0.05	0.0%	< 0.05	89%	50%	140%	106%	60%	130%	122%	50%	140%
1,1,2,2-Tetrachloroethane	6949371		< 0.05	< 0.05	0.0%	< 0.05	119%	50%	140%	117%	60%	130%	122%	50%	140%
o-Xylene	6949371		< 0.05	< 0.05	0.0%	< 0.05	121%	50%	140%	111%	60%	130%	122%	50%	140%
1,3-Dichlorobenzene	6949371		< 0.05	< 0.05	0.0%	< 0.05	105%	50%	140%	117%	60%	130%	116%	50%	140%
1,4-Dichlorobenzene	6949371		< 0.05	< 0.05	0.0%	< 0.05	115%	50%	140%	94%	60%	130%	114%	50%	140%
1,2-Dichlorobenzene	6949371		< 0.05	< 0.05	0.0%	< 0.05	113%	50%	140%	102%	60%	130%	113%	50%	140%
1,3-Dichloropropene	6949371		< 0.04	< 0.04	0.0%	< 0.04	76%	50%	140%	70%	60%	130%	76%	50%	140%
n-Hexane	6949371		< 0.05	< 0.05	0.0%	< 0.05	71%	50%	140%	64%	60%	130%	109%	50%	140%

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Quality Assurance

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H016376

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court

SAMPLED BY:

Trace Organics Analysis (Continued)

RPT Date: Sep 16, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - PHCs F1 - F4 (-BTEX) (Soil)															
F1 (C6 to C10)	6950442		< 5	< 5	0.0%	< 5	74%	60%	130%	91%	85%	115%	81%	70%	130%
F2 (C10 to C16)	6933774		< 10	< 10	0.0%	< 10	99%	60%	130%	95%	80%	120%	93%	70%	130%
F3 (C16 to C34)	6933774		< 50	< 50	0.0%	< 50	97%	60%	130%	92%	80%	120%	89%	70%	130%
F4 (C34 to C50)	6933774		< 50	< 50	0.0%	< 50	102%	60%	130%	83%	80%	120%	92%	70%	130%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	6946613		< 0.05	< 0.05	0.0%	< 0.05	54%	50%	140%	82%	50%	140%	95%	50%	140%
Acenaphthylene	6946613		< 0.05	< 0.05	0.0%	< 0.05	86%	50%	140%	77%	50%	140%	93%	50%	140%
Acenaphthene	6946613		< 0.05	< 0.05	0.0%	< 0.05	90%	50%	140%	81%	50%	140%	93%	50%	140%
Fluorene	6946613		< 0.05	< 0.05	0.0%	< 0.05	97%	50%	140%	80%	50%	140%	95%	50%	140%
Phenanthrene	6946613		< 0.05	< 0.05	0.0%	< 0.05	98%	50%	140%	84%	50%	140%	97%	50%	140%
Anthracene	6946613		< 0.05	< 0.05	0.0%	< 0.05	99%	50%	140%	81%	50%	140%	106%	50%	140%
Fluoranthene	6946613		< 0.05	< 0.05	0.0%	< 0.05	97%	50%	140%	82%	50%	140%	98%	50%	140%
Pyrene	6946613		< 0.05	< 0.05	0.0%	< 0.05	97%	50%	140%	82%	50%	140%	98%	50%	140%
Benz(a)anthracene	6946613		< 0.05	< 0.05	0.0%	< 0.05	90%	50%	140%	79%	50%	140%	99%	50%	140%
Chrysene	6946613		< 0.05	< 0.05	0.0%	< 0.05	71%	50%	140%	87%	50%	140%	102%	50%	140%
Benzo(b)fluoranthene	6946613		< 0.05	< 0.05	0.0%	< 0.05	113%	50%	140%	102%	50%	140%	107%	50%	140%
Benzo(k)fluoranthene	6946613		< 0.05	< 0.05	0.0%	< 0.05	111%	50%	140%	108%	50%	140%	108%	50%	140%
Benzo(a)pyrene	6946613		< 0.05	< 0.05	0.0%	< 0.05	99%	50%	140%	92%	50%	140%	100%	50%	140%
Indeno(1,2,3-cd)pyrene	6946613		< 0.05	< 0.05	0.0%	< 0.05	81%	50%	140%	84%	50%	140%	101%	50%	140%
Dibenz(a,h)anthracene	6946613		< 0.05	< 0.05	0.0%	< 0.05	78%	50%	140%	81%	50%	140%	91%	50%	140%
Benzo(g,h,i)perylene	6946613		< 0.05	< 0.05	0.0%	< 0.05	85%	50%	140%	84%	50%	140%	97%	50%	140%
2-and 1-methyl Naphthalene	6946613		< 0.05	< 0.05	0.0%	< 0.05	112%	50%	140%	85%	50%	140%	99%	50%	140%

Certified By:

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H016376

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Barium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	EPA SW 846 6010C; MSA, Part 3, Ch.21	ICP/OES
Cadmium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Copper	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Lead	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Nickel	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Selenium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Silver	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Thallium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Uranium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Zinc	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium VI	INOR-93-6029	SM 3500 B; MSA Part 3, Ch. 25	SPECTROPHOTOMETER
Cyanide	INOR-93-6052	MOE CN-3015 & E 3009 A;SM 4500 CN	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Electrical Conductivity	INOR-93-6036	McKeague 4.12, SM 2510 B	EC METER
Sodium Adsorption Ratio	INOR-93-6007	McKeague 4.12 & 3.26 & EPA SW-846 6010B	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	MSA part 3 & SM 4500-H+ B	PH METER

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Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H016376

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Acenaphthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluorene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Phenanthrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benz(a)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Chrysene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(a)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
Moisture Content	ORG-91-5106	EPA SW-846 3541 & 8270	BALANCE
Chrysene-d12	ORG-91-5106	EPA SW846 3541 & 8270	GC/MS
F1 (C6 to C10)	VOL-91-5009	CCME Tier 1 Method, SW846 5035	P &T GC / FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method, SW846 5035	P & T GC / FID
F2 (C10 to C16)	VOL-91-5009	CCME Tier 1 Method	GC / FID
F3 (C16 to C34)	VOL-91-5009	CCME Tier 1 Method	GC / FID
F4 (C34 to C50)	VOL-91-5009	CCME Tier 1 Method	GC / FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	CCME Tier 1 Method	GRAVIMETRIC ANALYSIS
Moisture Content	VOL-91-5009	CCME Tier 1 Method, SW846 5035,8015	BALANCE
Terphenyl	VOL-91-5009		GC/FID
Dichlorodifluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromomethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Acetone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Chloroform	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Benzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS

Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H016376

PROJECT: 14123

ATTENTION TO: Paul Blunt

SAMPLING SITE:Masonary Court

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,1,2-Trichloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Toluene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Bromoform	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Styrene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
o-Xylene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Xylene Mixture	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
n-Hexane	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
Toluene-d8	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	EPA SW-846 5035 & 8260	(P&T)GC/MS

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AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712 5100 Fax: 905.712.5122
www.agatlabs.com webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Laboratory Use Only

Work Order #: 15H016376
Cooler Quantity: 1 Cooler (sm)
Arrival Temperatures: 9.9 9.8 10 / 4.2 4 3.3
Custody Seal Intact: ☐ Yes ☐ No ☒ N/A
Notes:

Report Information:

Company: Landtek Limited
Contact: Paul Blunt
Address: 205 Nebo Road Unit 3 Hamilton, Ont
Phone: 905-388-7775 Fax:
Reports to be sent to:
1. Email: Paul@landtek limited.com
2. Email:

Regulatory Requirements: ☐ No Regulatory Requirement

(Please check all applicable boxes)

☒ Regulation 153/04 Table 3 (Indicate One)
☐ Ind/Com ☐ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☐ Sewer Use ☐ Sanitary ☐ Storm
Reg on _____ (Indicate One)

☐ Regulation 558 ☐ CCME ☐ Prov. Water Quality Objectives (PWQO) ☐ Other
(Indicate One)

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

Project Information:

Project: Masonry Crt
Site Location: Burlington, Ont
Sampled By: Wael Deiab
AGAT Quote #: 14123 PO:
(If AGAT quote number is not provided, client will be billed full price for analysis)

Is this submission for a **Record of Site Condition?** ☒ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☐ Yes ☐ No

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact:
Address:
Email:

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl ☐ CN ☐ Cr⁶⁺ ☐ EC ☐ FOC ☐ NO_3/NO_2 ☐ SAR ☐ Total N ☐ TKN	Nutrients: ☐ IP ☐ NH_3 ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
Duplicate-3	Sept 8	Rm	3	Soil		X						X	X							
Sa 10S, 4E	"	"	3	"		X						X	X							
Sa 4os, 5DE	"	"	3	"		X						X	X							
Sa 72S, 94E	"	"	1	"											X					
Sa 68S, 94E	"	"	1	"											X					

Samples Relinquished By (Print Name and Sign): Wael Deiab — Date: 8 Sept — Time: Rm
Samples Received By (Print Name and Sign): Julia Angrilli — Date: Sept 8/15 — Time: 4.10p

Samples Relinquished By (Print Name and Sign): Wael Deiab — Date: 8 Sept
Samples Received By (Print Name and Sign): JULIA ANGRILLI — Date: Sept 9/15 — Time: 1.50p
Kou M 2015-9-9-4.29 — Date: 2015-9-9 — Time: 1.51

Page 1 of 1

N°: T 004928

Pink Copy - Client | Yellow Copy - AGAT | White Copy - AGAT

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Kevin Roberts

PROJECT: 14123

AGAT WORK ORDER: 15H030701

WATER ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Coordinator

DATE REPORTED: Oct 16, 2015

PAGES (INCLUDING COVER): 6

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

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Western Enviro-Agricultural Laboratory Association (WEALA)
Environmental Services Association of Alberta (ESAA)

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

Results relate only to the items tested and to all the items tested
All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request

AGAT Laboratories

5835 COOPERS AVENUE
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http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 15H030701

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Kevin Roberts

SAMPLING SITE:Masonary Court ESAZ

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - ORPs (Water) - Na & Cl

DATE RECEIVED: 2015-10-15

DATE REPORTED: 2015-10-16

		SAMPLE DESCRIPTION:		MW6		MW6s
		SAMPLE TYPE:		Water		Water
		DATE SAMPLED:		10/15/2015		10/15/2015
Parameter	Unit	G / S	RDL	7087467	RDL	7087478
Sodium	µg/L	2300000	12500	**2610000**	2500	75900
Chloride	µg/L	2300000	20000	**8110000**	2000	120000

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Coarse Textured Soils

7087467-7087478 Elevated RDL indicates the degree of dilution prior to the analysis in order to keep analyte within the calibration range of the instrument and to reduce matrix interference.

Certified By: Amanjot Bhela

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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Guideline Violation

AGAT WORK ORDER: 15H030701

PROJECT: 14123

CLIENT NAME: LANDTEK LTD.

ATTENTION TO: Kevin Roberts

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
7087467	MW6	ON T3 NPGW CT	O. Reg. 153(511) - ORPs (Water) - Na & Cl	Chloride	2300000	8110000
7087467	MW6	ON T3 NPGW CT	O. Reg. 153(511) - ORPs (Water) - Na & Cl	Sodium	2300000	2610000

Results relate only to the items tested and to all the items tested

AGAT Laboratories

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CANADA L4Z 1Y2
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http://www.agatlabs.com

Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123

SAMPLING SITE:Masonary Court ESAZ

AGAT WORK ORDER: 15H030701

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

Water Analysis

RPT Date: Oct 16, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - ORPs (Water) - Na & Cl															
Sodium	7087478	7087478	75900	76000	0.1%	< 500	99%	70%	130%	99%	80%	120%	102%	70%	130%
Chloride	7083600		11800	11500	2.6%	< 100	105%	70%	130%	98%	70%	130%	103%	70%	130%

Certified By: Amanjot Bhela

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FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H030701

PROJECT: 14123

ATTENTION TO: Kevin Roberts

SAMPLING SITE:Masonary Court ESAZ

SAMPLED BY:Kevin Roberts

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Sodium	MET-93-6105	EPA SW-846 6010C & 200.7	ICP/OES
Chloride	INOR-93-6004	SM 4110 B	ION CHROMATOGRAPH

Results relate only to the items tested and to all the items tested

AGAT Laboratories

RUSH!

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905 712 5100 Fax: 905 712 5122
webearth.agatlabs.com

Chain of Custody Record

If this is a **Drinking Water sample, please use Drinking Water Chain of Custody Form** (potable water intended for human consumption)

Report Information:

Company: LANDTEK LIMITED
Contact: KEVIN ROBERTS
Address: 205 NEBO ROAD
HAMILTON ONT
Phone: (905) 383 3733 Fax:
Reports to be sent to:
1 Email: Kevin@landteklimited.com
2 Email: paul@landteklimited.com

Project Information:

Project: 14123
Site Location: MASONRY CRT ESAZ
Sampled By: KR
AGAT Quote #: PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☑ No ☐
Company:
Contact:
Address:
Email:

Regulatory Requirements:

☐ No Regulatory Requirement
(Please check all applicable boxes)

☑ Regulation 153/04
Table 3
☐ Ind/Comm
☑ Res/Park
☐ Agriculture
Soil Texture (Check One)
☐ Coarse
☐ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region _____ Indicate One

☐ Regulation 558
☐ CCME
☐ Prov Water Quality Objectives (PWQO)
☐ Other

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

Report Guideline on Certificate of Analysis ☑ Yes ☐ No

Laboratory Use Only

Work Order #: 15H030701
Cooler Quantity: 1 COOLER (med)
Arrival Temperatures: 5 0 5.2 4.9
3.2 3.0 3.5
Custody Seal Intact: ☐ Yes ☐ No ☑ N/A
Notes:

Turnaround Time (TAT) Required:

Regular TAT ☐ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☑ 1 Business Day

OR Date Required (Rush Surcharges May Apply): ASAP

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics (Check Applicable)	Metal Scan	Hydride Forming Metals	Client Custom Metals	ORPs: ☐ B-HWS ☐ Cl ☐ CN⁻ ☐ Cr⁶⁺ ☐ EC ☐ FOC ☐ NO_3/NO_2 ☐ Total N ☐ Hg ☐ pH ☐ SAR	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use	Sodium Chloride
MW 6	10/15/15	4pm	1	H_2O																✓
MW 6S	↓	↓	1	↓																✓

Samples Relinquished By (Print Name and Sign): [signature] Date: 10/15/15 Time: 17:55
Samples Received By (Print Name and Sign): Julia Angelli Date: OCT 15/15 Time: 1250
JULIA ANGELLI Date: OCT 15/15 Time: 12pm
2015/10/15 1:00

Page 1 of 1

N°: T015249

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

CLIENT NAME: LANDTEK LTD.
205 NEBO ROAD, UNIT 3
HAMILTON, ON L8W2E1
(905) 383-3733

ATTENTION TO: Kevin Roberts

PROJECT: 14123A

AGAT WORK ORDER: 15H030722

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Inorganic Coordinator

DATE REPORTED: Oct 22, 2015

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (905) 712-5100

NOTES

All samples will be disposed of within 30 days following analysis. Please contact the lab if you require additional sample storage time.

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Environmental Services Association of Alberta (ESAA)

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All reportable information as specified by ISO 17025:2005 is available from AGAT Laboratories upon request

AGAT Laboratories
5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Certificate of Analysis

AGAT WORK ORDER: 15H030722

PROJECT: 14123A

CLIENT NAME: LANDTEK LTD.

SAMPLING SITE:

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

O. Reg. 153(511) - Metals & Inorganics (Soil)

DATE RECEIVED: 2015-10-15

DATE REPORTED: 2015-10-22

		SAMPLE DESCRIPTION:		SA1-NW	SA2-S	SA3-E
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		10/15/2015	10/15/2015	10/15/2015
Parameter	Unit	G / S	RDL	7088481	7088482	7088483
Antimony	µg/g	7.5	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	4	5	4
Barium	µg/g	390	2	114	129	110
Beryllium	µg/g	4	0.5	<0.5	0.9	1.0
Boron	µg/g	120	5	8	10	11
Boron (Hot Water Soluble)	µg/g	1.5	0.10	0.59	0.54	0.82
Cadmium	µg/g	1.2	0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	2	24	18	15
Cobalt	µg/g	22	0.5	3.2	3.5	2.8
Copper	µg/g	140	1	20	22	15
Lead	µg/g	120	1	25	36	29
Molybdenum	µg/g	6.9	0.5	1.4	0.9	0.7
Nickel	µg/g	100	1	9	10	8
Selenium	µg/g	2.4	0.4	0.4	0.6	0.7
Silver	µg/g	20	0.2	<0.2	<0.2	0.2
Thallium	µg/g	1	0.4	<0.4	<0.4	<0.4
Uranium	µg/g	23	0.5	0.6	0.8	0.8
Vanadium	µg/g	86	1	16	16	14
Zinc	µg/g	340	5	100	158	145
Chromium VI	µg/g	8	0.2	<0.2	<0.2	<0.2
Cyanide	µg/g	0.051	0.040	<0.040	<0.040	<0.040
Mercury	µg/g	0.27	0.10	<0.10	<0.10	<0.10
Electrical Conductivity	mS/cm	0.7	0.005	0.138	0.221	0.385
Sodium Adsorption Ratio	NA	5	NA	0.140	0.149	0.083
pH, 2:1 CaCl2 Extraction	pH Units		NA	8.11	8.20	8.34

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Residential/Parkland/Institutional Property Use - Coarse Textured Soils

7088481-7088483 EC & SAR were determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl2 extract prepared at 2:1 ratio.

Certified By: Amanjot Bhela

Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Quality Assurance

CLIENT NAME: LANDTEK LTD.

PROJECT: 14123A

SAMPLING SITE:

AGAT WORK ORDER: 15H030722

ATTENTION TO: Kevin Roberts

SAMPLED BY:Kevin Roberts

Soil Analysis

RPT Date: Oct 22, 2015			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	7088481	7088481	< 0.8	< 0.8	NA	< 0.8	100%	70%	130%	113%	80%	120%	110%	70%	130%
Arsenic	7088481	7088481	4	4	NA	< 1	118%	70%	130%	104%	80%	120%	107%	70%	130%
Barium	7088481	7088481	114	106	7.3%	< 2	104%	70%	130%	107%	80%	120%	104%	70%	130%
Beryllium	7088481	7088481	< 0.5	< 0.5	NA	< 0.5	72%	70%	130%	99%	80%	120%	84%	70%	130%
Boron	7088481	7088481	8	7	NA	< 5	94%	70%	130%	102%	80%	120%	86%	70%	130%
Boron (Hot Water Soluble)	7089593		<0.10	<0.10	0.0%	< 0.10	117%	60%	140%	96%	70%	130%	97%	60%	140%
Cadmium	7088481	7088481	< 0.5	< 0.5	NA	< 0.5	94%	70%	130%	99%	80%	120%	114%	70%	130%
Chromium	7088481	7088481	24	22	8.7%	< 2	88%	70%	130%	108%	80%	120%	102%	70%	130%
Cobalt	7088481	7088481	3.2	3.2	0.0%	< 0.5	87%	70%	130%	101%	80%	120%	92%	70%	130%
Copper	7088481	7088481	20	20	0.0%	< 1	93%	70%	130%	115%	80%	120%	91%	70%	130%
Lead	7088481	7088481	25	24	4.1%	< 1	105%	70%	130%	104%	80%	120%	89%	70%	130%
Molybdenum	7088481	7088481	1.4	1.3	NA	< 0.5	102%	70%	130%	101%	80%	120%	109%	70%	130%
Nickel	7088481	7088481	9	9	0.0%	< 1	89%	70%	130%	105%	80%	120%	94%	70%	130%
Selenium	7088481	7088481	0.4	0.35	NA	< 0.4	109%	70%	130%	97%	80%	120%	101%	70%	130%
Silver	7088481	7088481	< 0.2	< 0.2	NA	< 0.2	93%	70%	130%	102%	80%	120%	99%	70%	130%
Thallium	7088481	7088481	< 0.4	< 0.4	NA	< 0.4	96%	70%	130%	99%	80%	120%	94%	70%	130%
Uranium	7088481	7088481	0.6	0.55	NA	< 0.5	92%	70%	130%	99%	80%	120%	88%	70%	130%
Vanadium	7088481	7088481	16	16	0.0%	< 1	88%	70%	130%	102%	80%	120%	102%	70%	130%
Zinc	7088481	7088481	100	128	24.6%	< 5	99%	70%	130%	109%	80%	120%	116%	70%	130%
Chromium VI	7093184		<0.2	<0.2	0.0%	< 0.2	95%	70%	130%	97%	80%	120%	96%	70%	130%
Cyanide	7093784		<0.040	<0.040	0.0%	< 0.040	92%	70%	130%	104%	80%	120%	97%	70%	130%
Mercury	7088481	7088481	< 0.10	< 0.10	NA	< 0.10	110%	70%	130%	100%	80%	120%	94%	70%	130%
Electrical Conductivity	7088482	7088482	0.221	0.218	1.4%	< 0.005	98%	90%	110%	NA			NA		
Sodium Adsorption Ratio	7088482	7088482	0.149	0.151	1.3%	NA	NA			NA			NA		
pH, 2:1 CaCl2 Extraction	7088482	7088482	8.20	8.30	1.2%	NA	101%	80%	120%	NA			NA		

Comments: NA signifies Not Applicable.
Duplicate Qualifier: As the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Certified By: Amanjot Bhela

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.

Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
http://www.agatlabs.com

Method Summary

CLIENT NAME: LANDTEK LTD.

AGAT WORK ORDER: 15H030722

PROJECT: 14123A

ATTENTION TO: Kevin Roberts

SAMPLING SITE:

SAMPLED BY:Kevin Roberts

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Arsenic	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Barium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Beryllium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	EPA SW 846 6010C; MSA, Part 3, Ch.21	ICP/OES
Cadmium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Cobalt	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Copper	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Lead	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Molybdenum	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Nickel	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Selenium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Silver	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Thallium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Uranium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Vanadium	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Zinc	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Chromium VI	INOR-93-6029	SM 3500 B; MSA Part 3, Ch. 25	SPECTROPHOTOMETER
Cyanide	INOR-93-6052	MOE CN-3015 & E 3009 A;SM 4500 CN	TECHNICON AUTO ANALYZER
Mercury	MET-93-6103	EPA SW-846 3050B & 6020A	ICP-MS
Electrical Conductivity	INOR-93-6036	McKeague 4.12, SM 2510 B	EC METER
Sodium Adsorption Ratio	INOR-93-6007	McKeague 4.12 & 3.26 & EPA SW-846 6010B	ICP/OES
pH, 2:1 CaCl2 Extraction	INOR-93-6031	MSA part 3 & SM 4500-H+ B	PH METER

Results relate only to the items tested and to all the items tested

AGAT Laboratories

5835 Coopers Avenue
Mississauga, Ontario L4Z 1Y2
Ph: 905.712.5100 Fax: 905.712.5122
webearth.agatlabs.com

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Laboratory Use Only

Work Order #: 15H 030722

Cooler Quantity: 1 Cooler (med)

Arrival Temperatures: 5.0 5.2 4.9
3.1 3.7 3.2

Custody Seal Intact: ☐ Yes ☐ No ☒ N/A

Notes:

Report Information:

Company: LANDTEK LIMITED
Contact: KEVIN ROBERTS
Address: 205 NEBO ROAD
HAMILTON, ONTARIO
Phone: (905) 383-3753 Fax:
Reports to be sent to:
1. Email: kevin@landteklimited.com
2. Email: paul@landteklimited.com

Regulatory Requirements:

☐ No Regulatory Requirement

(Please check all applicable boxes)

☑ Regulation 153/04 Table 3 (Indicate One)
☐ Ind/Com ☑ Res/Park ☐ Agriculture
Soil Texture (Check One) ☐ Coarse ☐ Fine

☐ Sewer Use ☐ Sanitary ☐ Storm
Region ____ (Indicate One)

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other ____ (Indicate One)

Turnaround Time (TAT) Required:

Regular TAT ☑ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day

OR Date Required (Rush Surcharges May Apply): ____

Please provide prior notification for rush TAT
**TAT is exclusive of weekends and statutory holidays*

Project Information:

Project: 14123A
Site Location: [redacted]
Sampled By: KR
AGAT Quote #: ____ PO: ____
Please note: If quotation number is not provided, client will be billed full price for analysis.

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

Report Guideline on *Certificate of Analysis* ☑ Yes ☐ No

Invoice Information:

Bill To Same: Yes ☑ No ☐

Company:
Contact:
Address:
Email:

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Metals and Inorganics	Metals Scan	Hydride Forming Metals	Client Custom Metals	(Check Applicable) ORPs: ☐ B-HWS ☐ Cl⁻ ☐ CN⁻ ☐ Ca²⁺ ☐ EC ☐ FOC ☐ NO_3/NO_2 ☐ Total N ☐ Hg ☐ pH ☐ SAR	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3/NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	CCME Fractions 1 to 4	ABNs	PAHs	Chlorophenols	PCBs	Organochlorine Pesticides	TCLP Metals/Inorganics	Sewer Use
SA1-NW	10/15/15	AM	1	Soil		✓														
SA2-S	↓	↓	1	↓		✓														
SA3-E	↓	↓	1	↓		✓														

Samples Relinquished By (Print Name and Sign): JULIA ANGRILLI
Date: 10/15/15 Time: 12:55

Samples Received By (Print Name and Sign): Julia Angrilli
Date: OCT 15/15 Time: 1256p

Samples Relinquished By (Print Name and Sign): JULIA ANGRILLI
Date: OCT 15/15 Time: 1200

Samples Received By (Print Name and Sign):
Date: 2015/10/15 Time: 1:20

Page 1 of 1

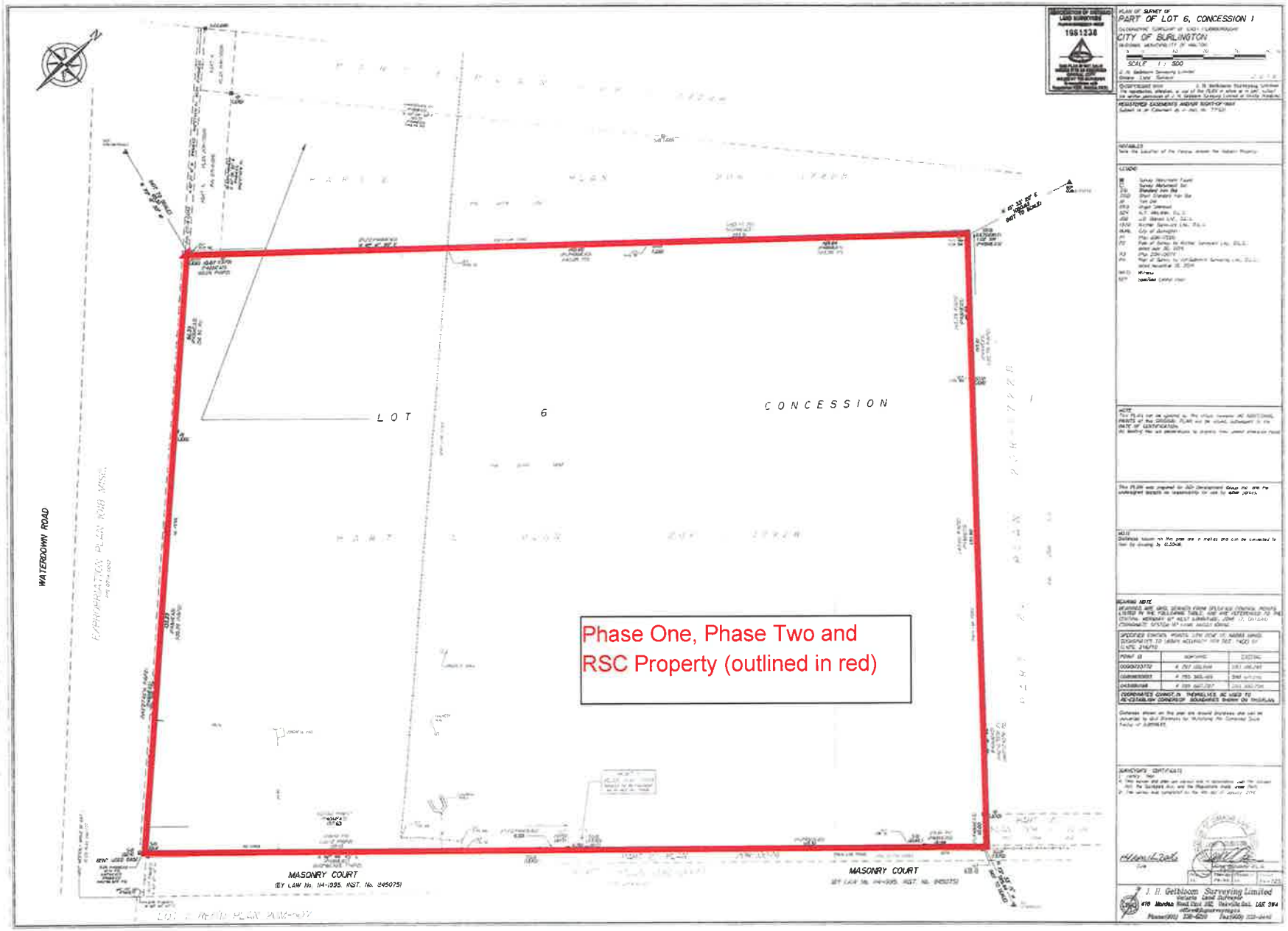
N: T 015250

2015/10/15 4.0c

Pink Copy - Client : Yellow Copy - AGAT : White Copy - AGAT

APPENDIX E

SURVEY OF PHASE TWO PROPERTY


PART OF LOT 6, CONCESSION 1
CITY OF BURLINGTON
SCALE 1 : 500
LOT
6
CONCESSION
WATERDOWN ROAD
MASONRY COURT
MASONRY COURT
Phase One, Phase Two and
RSC Property (outlined in red)

APPENDIX F

APPLICATION OF NON-POTABLE GROUNDWATER STANDARDS

Legislative & Planning Services
Department
Planning Services
1151 Bronte Road
Oakville ON L6M 3L1
Fax: 905-825-8822

RECEIVED
FEB 29 2016

February 11, 2016

Paul Blunt
Landtek Limited
205 Nebo Road, Unit 3
Hamilton ON L8W 2E1

Dear Mr. Blunt:

RE: Notification of Intent to Use Non-Potable Groundwater Site Condition Standards
Subject Property: 101 Masonry Court, Burlington

Further to your correspondence received by Halton Region Planning Services on **January 6, 2016**, **and correspondence with Conservation Halton staff on February 9, 2016**, Regional Municipality of Halton staff has prepared this letter in response to your O. Reg. 153/04 Records of Site Condition – Part XV.1 of the Environmental Protection Act request to assume that the groundwater beneath the subject property "does not or will not serve as a raw water supply for a drinking water system, as defined in the Safe Drinking Water Act (2002)".

The key features for this request are presented in Table 1 below:

Table 1: Key Features Assessment

Key Feature	Is the Property located within or nearby these Key Features (yes/no)
Wellhead Protection Area	No
Highly Vulnerable Aquifer	No
Environmentally Sensitive Area (within 30m)	No
Rural Area	No
Water Well Records Within 250 metres	No

Region of Halton records indicate that the property is located within the **City of Burlington** and **is not** within a wellhead protection area **or** located within a highly vulnerable aquifer, as identified in the Region's Source Water Protection Planning under the Clean Water Act, 2006. The property **is not** located within 30m of environmentally sensitive area (see definition in O. Reg. 153/04). **The permanent watercourse is beyond 30 metres from the limits of the property boundary**. There are **no** potable well records are located within 250m of the property.

Based on this information, Halton Region **does not object** to the intention to apply non-potable water use criteria for the assessment of the subject property.

If you have any questions regarding this information, please contact the undersigned at ext. 3241.

Sincerely,

Amanda Wong,
Planner, Groundwater and Hydrology

c. Tim Edwards, District Engineer, Ministry of the Environment, Halton-Peel District Office
Paul Burgher, Halton Region (email)
Ang Capone, City of Burlington (email)

APPENDIX G

PHASE TWO CONCEPTUAL SITE MODEL

1.0 INTRODUCTION

Phase Two Conceptual Site Model (CSM)

A Phase Two Conceptual Site Model (CSM) has been prepared following Schedule E, Part V, Table 1, S6(x) of Ontario Regulation 153/04 (as amended). The Phase Two CSM addresses Phase Two Property conditions as of the Certification Date of October 19, 2015.

A request by the QP was made January 6 to the local Municipality (Burlington) which was referred to the Region of Halton on February 9, 2016 to apply the non-potable groundwater standards to the RSC property. A Notification letter was received from the Halton Region on February 29, 2016.

The Phase Two Conceptual Site Model is illustrated on **Figures 1 through 17.** The Drawings are as follows:

Figure 1 – Site Location Plan
Figure 2 – Site Location Plan of PCAs and APECs
Figure 3 – Borehole and Monitoring Well Location Plan
Figure 4 – Cross-Section A-A'
Figure 5 – Cross-Section B-B'
Figure 6 – Cross-Section C-C'
Figure 7 – Testpit Location Plan
Figure 8 – Soil Exceedances
Figure 9 – Impacted Soil
Figure 10 – Cross-Section D-D'
Figure 11 – Cross-Section E-E'
Figure 12 – Final Remediation
Figure 13 – Imported Soil Placement
Figure 14 – Imported Soil Placement -Cross-Section D-D'
Figure 15 – Imported Soil Placement -Cross-Section E-E'
Figure 16 – Groundwater Contours
Figure 17 – Pathways and Receptors

The following presents the Phase Two Conceptual Site Model for the Phase Two Property which is described in the following table:

Table 1: Phase Two Property Information

Description	Details
Legal Description	Parts of Lot 6, Concession 1, designated as Part 1 and 6 on Plan 20R-17228 as Burlington together with easement over part 4 on Plan 20R-17228 as in HR570883
PIN	07114-0192 (LT)
Municipal Address	101 Masonry Court, Burlington, Ontario
Zoning	Commercial/Residential (Mixed Use Corridor – MXC-26)
Assessment Roll Number	24 02 010 106 01111
Property Owner Information	Adi Developments (Masonry) Inc. 4190 South Service Road, Suite 200 Burlington, ON L7L 4X5 Contact: Mr. Saud Adi, COO Tel: 905-592-1140

The Phase Two Property is identified on the Plan of Survey by J.H. Gelbloom Surveying Limited dated April 14, 2016.

1.1 Property Description

The Phase Two Property and Record of Site Condition Property is identified as 101 Masonry Court in the City of Burlington, Ontario. The Site is roughly rectangular in shape and covers an area of about 5.1 hectares. The Site is located on the north side of Masonry Court and is bound by vacant land and GO Transit railway lines to the north, vacant industrial land to the east, and Waterdown Road to the west in the City of Burlington, Ontario. **Figure 1** shows the general location of the Site.

The Site is vacant but was historically in industrial use as a concrete brick manufacturing plant. The Site operated as a concrete brick manufacturing plant (J. Cooke Concrete Blocks Limited, Cooke Concrete Ltd., TCG Properties Limited, and Blue Circle Canada Inc.) from 1956 to 2001. From 2001 to 2012 the Site was owned by 2004181 Ontario Inc. and from 2002 to 2014 it was owned by P&L Livestock Limited. The property is currently being redeveloped for proposed residential land use.

2.0 INFORMATION FROM THE PHASE ONE ENVIRONMENTAL SITE ASSESSMENT

2.1 Areas Where Potentially Contaminating Activity has occurred

Potentially contaminating activities had been identified in the Phase One ESA for the Site. The potentially contaminating activities had occurred on specific portions of the Site. The land use is associated with the following potentially contaminating activities:

- #28. Gasoline and Associated Products Storage in Fixed Tanks
- #30. Importation of Fill Material of Unknown Quality
- #12. Concrete, Cement and Lime Manufacturing
- #46. Rail Yards, Tracks and Spurs
- #19. Electronic and Computer Manufacturing

Contaminants of concern associated with the potentially contaminating activities include:

- Petroleum Hydrocarbons (PHC)
- Metals and Inorganics
- Volatile Organic Compounds (VOCs), including benzene, toluene, ethylbenzene and xylenes (BTEX)
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Polychlorinated Biphenyls (PCBs)

There were no significant potentially contaminating activities on the adjacent properties. **Figure 2** shows the general location of the PCAs, approximate location of building footprints have been showed based on aerial photographs from the 1950s to 1970s.

2.2 Areas of Potential Environmental Concern

The Phase One ESA identified the potentially contaminating activities and Areas of Potential Environmental Concern at the Phase One Property and in the Phase One Study Area as presented in the following table and provided in **Figure 2**.

Table 2: Potentially Contaminating Activities and Areas of Potential Concern

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted
APEC 1:	Southeast Area / former Production Area	28. Gasoline and Associated Products Storage in Fixed Tanks	On-Site	PHCs, VOCs, Metals	Soil and Groundwater
APEC 2:	Entire Site Unknown Fill Quality	30. Imported Fill Material of Unknown Quality	On-Site	Metals and Inorganics, PAHs	Soil
APEC 3:	E Southeast Area / former Production Area Concrete Block & Brick Manufacturing	12. Concrete, Cement and Lime Manufacturing	On-Site	PHCs, VOCs, Metals, Inorganics	Soil and Groundwater
APEC 4:	Northern Portion of Site Railway track	46. Rail Yards, Tracks and Spurs	Off-Site	PHCs, VOCs, Metals, PAHs	Soil and Groundwater
APEC 5	Southern Portion of Site Waste Generators & Electronics Manufacturing	19. Electronic and Computer Manufacturing Other – Waste Generators	Off-Site	PHCs, VOCs, PCBs, Metals	Soil and Groundwater

Notes:
1 - Area of Potential Environmental Concern (APEC) means the area on, in or under the phase one property where one or more contaminants are potentially present, as determined through the phase one environmental site assessment, including through,
(a) identification of past or present uses on, in or under the phase one property, and
(b) identification of potentially contaminating activity.
2 - Potentially contaminating activity means a use or activity set out in Column A of Table 2 of Schedule D that is occurring in a phase one study area.
3 - identify all contaminants of potential concern using the Method Groups as identified in the "Protocol for in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, March 9, 2004, amended as of July 1, 2011.
4 - Media Potentially Impacted refers to soil, groundwater, surface water or sediment.
PHCs – petroleum hydrocarbons fractions F1-F4
VOCs – volatile organic compounds

A Phase Two ESA of the Site was recommended to confirm the extent of the above-noted potentially contaminating activities and Areas of Potential Concern (APEC).

Summary of Phase Two Soil Samples

Landtek conducted the following subsurface investigative work at the Site as part of the Phase Two ESA activities:

- Advancement of fifteen (15) boreholes as follows:
  - Fourteen (14) boreholes to depths of between 5.0 m (16.4 ft) and 9.9 (32.5 ft) below ground surface.
  - One (1) borehole to a depth of 11.2 m (37 ft) below ground surface.
- Excavation of forty-one (41) test pits as follows:
  - Forty-one (41) test pits to depths of between 1.2 m (3.0 ft) and 2.7 m (8.0 ft).

- Submission of soil samples to AGAT Laboratories Ltd. for chemical analysis of the following parameters, including QA/QC:
    - Thirty-three (33) samples for metals and inorganic parameters
    - Twenty (20) samples for volatile organic compounds (VOCs), including BTEX
    - Twenty (20) samples for petroleum hydrocarbon fractions 1 to 4 (PHC F1-F4)
    - Forty-five (45) samples for polycyclic aromatic hydrocarbons (PAHs)
    - Eight (8) samples for polychlorinated biphenyls (PCBs)

Table 3 presents a summary of the chemical analyses conducted for the soils.

Table 3: Schedule of Soil Chemical Analyses

Location	Sample	Depth (m bgs)	Metals and Inorganics	PHC	VOC (including BTEX)	PCB	PAH
BH1	SS1	0-0.7	✓				✓
	SS2	0.8-1.3		✓	✓		
	SS4	2.3-2.8				✓	
BH2	SS1	0-0.7	✓				✓
	SS2	0.8-1.3		✓	✓		
BH3	SS1	0-0.7	✓				
	SS2	0.8-1.3					✓
	SS4	2.3-2.8		✓	✓		
BH4	SS2	0.8-1.2		✓	✓		✓
	SS3	1.3-1.5	✓				
BH5	SS1	0-0.7	✓				✓
	SS2	0.8-1.3		✓	✓		
BH5D	SS3	9.1-9.2	✓				
BH6	SS1	0-0.7	✓				✓
	SS2	0.8-1.3				✓	
	SS3	1.3-1.5		✓	✓		
BH6D	SS7	6.1-6.6	✓				
	SS8	7.6-8.1	✓				
BH7	SS1	0-0.7	✓			✓	✓
	SS2	0.8-1.3		✓	✓		
BH8	SS1	0-0.7	✓				✓
	SS2	0.8-1.3					
	SS3	1.5-1.8		✓	✓		
	SS4	2.3-2.7		✓	✓		
BH9	SS1	0-0.7	✓			✓	
	SS2	0.8-1.3					
	SS3	1.5-2.0					✓
	SS4	2.3-2.7		✓	✓		
BH10D	SS4	6.1-6.6	✓				
BH11D	SS6	3.8-4.3	✓				
TP1	SS6	3.8-4.3	✓				
TP2	Sa1	0.5-1.0	✓				
	Sa2	1.0-1.5		✓	✓	✓	
	Sa3	1.5-2.1	✓	✓	✓		
TP5	Sa1	0.5-1.0	✓				
	Sa2	1.3-1.5		✓	✓	✓	
	Sa3	2.0-2.3	✓	✓	✓		

Location	Sample	Depth (m bgs)	Metals and Inorganics	PHC	VOC (including BTEX)	PCB	PAH
TP7	Sa1	0.5-1.0	✓				
	Sa2	1.0-1.3	✓			✓	
	Sa3	1.3-1.5	✓				
TP8	Sa1	0.5-0.9	✓				
TP9	Sa1	0.6-0.8					✓
	Sa2	1.3-1.6					✓
TP10	Sa1	0.6-0.8					✓
	Sa2	1.5-1.7					✓
TP11	Sa1	0.5-0.9					✓
TP12	Sa1	0.5-0.9					✓
TP13	Sa1	0.5-0.9	✓				✓
TP14	Sa1	0.5-0.7					✓
	Sa2	0.9-1.2					✓
TP15	Sa1	0.5-0.8	✓				✓
TP16	Sa1	0.5-0.8					✓
TP17	Sa1	1.4-1.7	✓				
TP19	Sa2	1.5-1.8	✓	✓	✓		
TP20	Sa1	0.5-0.9					✓
	Sa2	1.2-1.5	✓	✓	✓		✓
TP21	Sa1	0.5-0.9	✓	✓	✓		✓
TP23	Sa1	0.5-1.0	✓	✓	✓		✓
TP24	Sa1	0.5-0.8					✓
TP25	Sa1	0.8-1.1					✓
TP26	Sa1	0.6-0.9					✓
TP27	Sa1	0.3-0.6					✓
TP29	Sa1	0.3-0.6					✓
TP30	Sa1	1.5-1.8					✓
TP31	Sa1	0.0-0.3					✓
TP32	Sa1	0.0-0.5					✓
TP33	Sa1	0.5-0.8					✓
TP34	Sa1	0.9-1.2					✓
TP36	Sa1	0.6-0.9					✓
TP37	Sa1	0.6-0.9					✓
TP38	Sa1	0.5-0.8					✓
TP39	Sa1	0.5-0.8					✓
TP40	Sa1	0.6-0.9					✓
TP41	Sa1	0.0-0.6					✓

The locations of the soil exceedances are provided in **Figure 8 and 9, 10 and 11**. A summary of the soil exceedances for the parameters analyzed is provided in **Table 4**. No soil exceedances for VOCs (except xylene parameters) or PCBs were identified within the investigation.

Table 4: Summary of Soil Exceedances

Location	Sample	Depth (m bgs)	Contaminant	MOECC Table 3 RPI*	Sample Result (µg/g)
BH2	SS1	0-0.7	-Benzo(a)pyrene -Fluoranthene	0.3 0.69	0.40 1.2
BH4	SS2	0.8-1.2	-F1 (C6 to C10) minus BTEX -Boron (Hot Water Soluble) -Copper -Antimony (Duplicate 1)	55 1.5 140 7.5	130 3.39 205 12.6
TPSa2	TP2	1.0-1.5	-F1 (C6 to C10) minus BTEX -F2 (C10 to C16) -F3(C16 to C34) -Xylene Mixture	55 98 300 3.1	520 160 630 7.3
TP5	Sa2	1.0-1.3	-F1 (C6 to C10) minus BTEX -F2 (C10 to C16) -F3(C16 to C34)	55 98 300	280 99 450
TP7	Sa3	1.3-1.5	-Boron (Hot Water Soluble)	1.5	3.36
TP9	Sa1	0.6-0.8	-Benz(a)anthracene -Benzo(a)pyrene -Fluoranthene	0.5 0.3 0.69	0.63 0.34 1.1
TP11	Sa1	0.5-0.9	Benz(a)anthracene -Benzo(a)pyrene -Benz(b)fluoranthene -Dibenz(a,h)anthracene -Fluoranthene -Ideno(1,2,3-cd)pyrene	0.5 0.3 0.78 0.1 0.69 0.38	2.1 1.2 1.6 0.12 3.6 0.47
TP12	Sa1	0.5-0.9	-Fluoranthene	0.69	0.73
TP13	Sa1	0.5-0.9	-Benzo(a)pyrene -Benzo(k)fluoranthene -Dibenz(a,h)anthracene -Fluoranthene -Ideno(1,2,3-cd)pyrene	0.3 0.78 0.1 0.69 0.38	1.0 1.4 0.11 1.9 0.52
TP16	Sa1	0.5-0.8	-Anthracene -Benz(a)anthracene -Benzo(a)pyrene -Benz(b)fluoranthene -Benzo(k)fluoranthene -Dibenz(a,h)anthracene -Fluoranthene -Ideno(1,2,3-cd)pyrene -Phenanthrene	0.67 0.5 0.3 0.78 0.78 0.1 0.69 0.38 6.2	2.0 4.2 2.9 4.0 2.0 0.41 11 1.7 8.7
TP20	Sa1	0.5-0.9	Benz(a)anthracene -Benzo(a)pyrene -Benz(b)fluoranthene -Dibenz(a,h)anthracene -Fluoranthene -Ideno(1,2,3-cd)pyrene -Fluoranthene	0.5 0.3 0.78 0.1 0.69 0.38 0.69	1.4 1.4 1.9 0.15 2.9 0.71 0.78
TP21	Sa1	0.5-0.9	-Benz(a)anthracene -Benzo(a)pyrene -Benz(b)fluoranthene -Dibenz(a,h)anthracene -Fluoranthene -Ideno(1,2,3-cd)pyrene	0.5 0.3 0.78 0.1 0.69 0.38	1.4 1.1 1.5 0.13 2.6 0.57

Location	Sample	Depth (m bgs)	Contaminant	MOECC Table 3 RPI*	Sample Result (µg/g)
TP36	Sa1	0.6-0.9	-Benz(a)anthracene -Benzo(a)pyrene -Fluoranthene	0.5 0.3 0.69	0.54 0.45 1.3
TP37	Sa1	0.6-0.9	-Fluoranthene	0.69	0.72

Evaluation of the analytical results indicates that there are soil impacts considered to be associated and consistent with the contaminants of concern and historical uses of the Site. The soil impacts associated with petroleum hydrocarbons, select metals, inorganics, and PAH parameters have been attributed to unknown fill quality on the southeast and central portions of the Site.

There is no indication from the sample results that biological or chemical transformations have occurred in the soils. The soil and groundwater sampling did not indicate the presence of any dense non-aqueous phase liquids.

Summary of Phase Two Groundwater Samples

Landtek conducted the following subsurface investigative work at the Phase Two Property as part of the Phase Two ESA activities:

- Installation of thirteen (13) groundwater monitoring wells (converted from boreholes).
  - Sampling of thirteen (13) monitoring wells installed by Landtek.
- Submission of groundwater samples to AGAT Laboratories Ltd. for chemical analysis of the following parameters, including QA/QC:
  - Eighteen (18) samples for metals and inorganic parameters
  - Fourteen (14) samples for VOCs (including BTEX)
  - Fourteen (14) samples for PHC F1-F4
  - Ten (10) samples for PAHs
  - Ten (10) samples for (PCBs)

Table 5: Schedule of Groundwater Chemical Analyses

Location	Screen Interval (m bgs)	Metals and Inorganics	PHC	VOC (including BTEX)	PAH	PCB
MW1	1.9-5.0	✓	✓	✓		✓
MW3	6.1-9.1	✓	✓	✓		
MW3S	1.6-4.6	✓			✓	
MW5	1.5-4.6	✓	✓	✓		
MW5D	6.1-9.1	✓				
MW6	6.1-9.1	✓	✓	✓	✓	✓
MW6S	1.6-4.6	✓				
MW6D	10.4-11.9	✓				
MW8	3.0-6.1	✓	✓	✓	✓	✓
MW9	3.0-6.1	✓	✓	✓	✓	✓
MW10S	1.6-4.6	✓	✓	✓	✓	✓
MW10D	6.1-9.1	✓				
MW11D	6.1-9.1	✓				

No other groundwater exceedances for the parameters analyzed were identified within the groundwater during the investigation during multiple sampling events.

Summary of Verification Soil Samples

A total of 20,865 tonnes (13,040 m^3) of soil impacted with various metals, inorganic parameters, PAH and PHC parameters was excavated and transported off-Site to an MOECC licenced Walker Industries landfill.

- Sample locations to depths of between 0.0 m and 2.2 m, a total of forty-nine (49) sample locations, as follows, including QA/QC:
  - Forty-nine (49) samples for PAHs
  - Eleven (11) samples for metals & inorganic,
  - Eleven (11) samples for VOCs (including BTEX) and PHC

Table 6: Summary of Verification Soil Samples Chemical Analyses

Location	Depth (m bgs)		Metals and Inorganics	PHC	VOC (including BTEX)	PAH
SA(00E,00S)	0.5-1.5	wall				✓
SA(00E,20S)	0.5-1.5	wall				✓
SA(00E,40S)	0.0-0.5	wall				✓
SA(00E,60S)	0.5-1.5	wall				✓
SA(10E,10S)	2.0-2.1	floor				✓
SA(10E,30S)	2.0-2.1	floor				✓
SA(10E,50S)	2.0-2.1	floor				✓
SA(20E,00S)	1.5-1.8	wall				✓
SA(30E,50S)	2.0-2.2	floor				✓
SA(20E,70S)	1.5-1.8	wall				✓
SA(40E,70S)	1.5-1.8	wall				✓
SA(30E,10S)	2.0-2.2	floor	✓	✓	✓	✓
SA(30E,30S)	2.0-2.2	floor	✓	✓	✓	✓
SA(45E,10S)	0.5-0.8	wall	✓	✓	✓	✓
SA(40E,40S)	2.0-2.2	floor	✓	✓	✓	✓
SA(60E,00S)	1.5-1.8	wall	✓	✓	✓	✓
SA(54E,30S)	2.0-2.2	floor	✓	✓	✓	✓
SA(55E,50S)	2.0-2.2	floor	✓	✓	✓	✓
SA(70E,10S)	2.0-2.2	floor	✓	✓	✓	✓
SA(75E,30S)	2.0-2.2	floor	✓	✓	✓	✓
SA(75E,50S)	2.0-2.2	floor	✓	✓	✓	✓
SA(80E,10S)	0.0-0.5	wall				✓
SA(90E,10S)	2.0-2.2	floor				✓
SA(85E,30S)	2.0-2.2	floor				✓
SA(100E,35S)	0.5-0.8	wall				✓
SA(100E,50S)	0.5-0.8	wall				✓
SA(100E,70S)	0.5-0.8	wall				✓

Location	Depth (m bgs)		Metals and Inorganics	PHC	VOC (including BTEX)	PAH
SA(70E,70S)	2.0-2.2	floor				✓
SA(85E,30S)	2.0-2.2	floor				✓
SA(50E,80S)	0.5-0.8	wall				✓
SA(50E,90S)	0.5-0.8	wall				✓
SA(60E,90S)	0.5-0.8	wall				✓
SA(70E,90S)	0.0-0.5	wall				✓
SA(90E,90S)	0.5-0.8	wall				✓

Laboratory Certificates of Analysis from all soil and groundwater samples submitted for analysis have been received by Landtek and are included in the Phase Two ESA report. The lab reports meet the requirements of S.47 (2b) and (3) of Ontario Regulation 153/04 (as amended) and are authorized for release by the lab managers.

The QA/QC results indicated that field sampling and lab protocols were satisfactory. No samples were rejected by the laboratory. The QP_{ESA} is satisfied that the overall objectives of the investigation were met and that the data set has allowed appropriate decisions to be made regarding the environmental conditions of the Phase Two Property.

2.3 Subsurface Structures and Utilities

The Phase Two Property is vacant and no structures are presently on Site. The Phase Two Property was but was historically in industrial use as a concrete brick manufacturing plant.

Multiple underground utilities, including water, sewer and natural gas, were located across the eastern portion of the Phase Two Property and were subsequently removed during the Site demolition activities completed at the Phase Two Property prior to 2004. The majority of the underground utilities are anticipated to have been located above the water table. Utilities are located within the Masonry Court or Waterdown Road right-of-way road allowances.

3.0 PHYSICAL SETTING OF THE PHASE TWO PROPERTY

3.1 Site Stratigraphy

The general geological soil conditions encountered in the borehole samples on the Phase Two Property consist of variable depths of fill overlying sand, silt, silty sand, and till. Based on the findings in the boreholes advanced Locations of boreholes are shown in **Figure 3**. Cross-sections showing Site stratigraphy are provided in **Figure 4 to 6**.

3.1.1 Fill

The fill is a mixture of sand, gravel, silt and clay. The depth of fill encountered across the Phase Two Property ranged from approximately 0.9 to 4.3 m below the existing ground surface.

3.1.2 Sand to Silty Sand

The fill materials were underlain by sand to silty sand at all boreholes with the exception of

boreholes 4 and 9. The sand to silty sand layer was encountered across the majority of the Phase Two Property at depths of between 0.8 and 1.5 m below existing grades and extended to depths of between 1.5 and 3.4 m below existing grades. The sand to silty sand layer is considered to represent a shallow unconfined aquifer.

3.1.3 Silt to Clayey Silt

Silt was encountered in borehole 8 at depths between 3.4 to 4.3 m below existing grades. The silt layer was found to be very moist with a compact relative density. Clayey silt was encountered in borehole 5 at depths between 1.5 to 2.5 m below existing grades. The clayey silt layer was found to be very moist with a very loose to loose relative density.

3.1.4 Clay Till

The till is a mixture of silt, some sand, gravel and clay with shale fragments. The till was encountered across the Phase Two Property at depths of between 1.3 and 9.9 m below existing grade and extended beyond the depth investigated in the boreholes. The till is considered to represent a low permeable unit that would restrict the movement of contaminants and is considered to act as an aquitard.

3.1.5 Shale

Shale bedrock was encountered at a depth of approximately 9.5 to 11.0 metres.

3.2 Site Hydrogeological Characteristics

Groundwater level measurements were completed on May 12 and May 13, 2014. Additional rounds of groundwater level measurements were completed on June 24, and August 6, 2014. The details/locations of well screens are provided in **Figure 4 to 6** and **Figure 10 and 11.**

Monitoring wells were installed in the APECs, as previously identified in the Phase One ESA.

The wells were screened within the upper sand layer as well as the silty clay and till layers to confirm the shallow and deep groundwater table elevation and to allow for delineation of any contaminants identified within the groundwater.

Groundwater flow directions were determined from measurements of groundwater levels obtained from monitoring wells screened within the same soil/material type and at the same elevations. An interface probe was used to conduct the water level measurements and to check for any LNAPL or DNAPL products within the wells. None of the monitoring wells exhibited any evidence of free product.

The potentiometric surface elevations were determined by subtracting the measured depth to the water level from the surveyed elevation of the point of measurement; the point of measurement, unless otherwise noted, was the top of the metal well casing.

Table 7 provides the groundwater elevations as measured in the monitoring wells. The inferred potentiometric elevations, contours, and associated groundwater flow direction is provided in **Figure 16**. There was no evidence of free product in the wells during development or sampling operations. The interpreted information indicates that there is an unconfined water table within the shallow sand layer and a confined water table within the silty clay and till material.

The inferred groundwater flow direction in the area of the Phase Two Property appears to be generally to the north/northwest. Some variability in the water levels and flow direction is expected due to seasonal precipitation factors, as well as the possible influence of underground utilities, trenches, or excavations.

No underground utilities, including water, sewer, hydro and natural gas, were located on the Site. Utilities are located within the Masonry Court and Waterdown Road roadway allowances.

Table 7: Summary of Water Level Readings

		Date	May 12, 2014		May 13, 2014		Jun. 24, 2014		Aug. 6, 2014	
Well	Ground Elev. (m)	Well Depth (m)	Water Depth (m)	Water Elev. (m)	Water Depth (m)	Water Elev. (m)	Water Depth (m)	Water Elev. (m)	Water Depth (m)	Water Elev. (m)
MW1	102.64	4.0	1.8	100.8	0.8	101.8	---	---	2.0	100.6
MW3	102.28	8.9	1.0	101.3	3.1	99.2	3.0	99.3	2.9	99.4
MW3S	102.32	3.8	NA	NA	NA	NA	1.3	100.0	1.5	100.8
MW5	101.60	4.6	2.3	99.3	2.1	99.5	2.3	99.3	2.2	99.4
MW5D	101.60	9.1	NA	NA	NA	NA	2.5	99.1	2.5	99.1
MW6	101.78	9.1	1.6	100.2	1.6	100.2	---	---	1.6	100.2
MW6S	101.81	4.5	NA	NA	NA	NA	1.3	100.5	1.5	100.3
MW6D	101.78	11.9	NA	NA	NA	NA	9.0	92.8	1.9	99.9
MW8	103.34	4.2	1.1	102.2	0.8	102.5	---	---	1.2	102.1
MW9	102.57	4.3	1.0	101.6	0.3	102.3	---	---	1.1	101.5
MW10S	102.42	4.5	NA	NA	NA	NA	1.6	100.8	1.6	100.8
MW10D	102.42	9.1	NA	NA	NA	NA	3.0	99.4	2.9	99.5
MW11D	101.21	9.0	NA	NA	NA	NA	1.0	100.2	0.9	100.3

Notes:
A. Water level measurements above are in metres below existing ground surface.
B. Light non-aqueous phase liquid (LNAPL) was not detected at the site during monitoring and groundwater sampling.

3.2.1 Groundwater Hydraulic Gradients

The measured groundwater elevations within the shallow sand layer and upper silty clay/till layer vary from approximately 99.4 m to 102.1 masl and the distance between the monitoring wells varies from about 80 m to 205 m. The average horizontal gradient has been determined to be 0.005 with a maximum of 0.010 and a minimum of 0.001.

The measured groundwater elevations within the deeper silty clay and/or till vary from approximately 99.1 m to 100.0 masl and the distance between the monitoring wells varies from about 800 m to 145 m. The horizontal gradient has been determined to be 0.007.

The average vertical hydraulic gradient has been determined to be 0.1596 downwards with a maximum of 0.2766 and a minimum of 0.0222.

3.3 Section 41 or 43.1

Section 41 of the regulation, Environmentally Sensitive Areas, does not apply to the Phase Two Property. Section 43.1 of the regulation, Shallow Soil Property or Water Body, also does not apply to the Phase Two Property as there was no bedrock or surface water encountered on the Site.

3.4 Soils Placed On, In or Under the Record of Site Condition Property

A total of 126 samples were analyzed for the imported soil source site. The samples were selected to provide coverage of the entire area of the source site. The source property is located at the southeast corner of the intersection of Dundas Street and Sutton Road site in Burlington, Ontario. Soil was transported directly from the source site to the Phase Two Property.

The source site for the imported soil is currently being developed as a condominium development and was historically agricultural land. No other potentially contaminating activities were identified in the area surrounding the site. The potential contaminants of concern for the source site were therefore considered to be metals, inorganics, volatile organic compounds and/or, petroleum hydrocarbons. Soil was transported directly from the source site to the Phase Two Property.

Soil brought to the Phase Two Property was analyzed for the following parameters at a rate of 1 sample per every 160 m^3 up to 5,000 m^3, after which point the soil was analyzed at a rate of 1 sample per every 300 m^3:

- Metals & Inorganics
- Volatile organic compounds
- Petroleum hydrocarbons

The soil samples were manually inspected for any visual or olfactory indications of contamination.

The soil was imported to the Phase Two Property for the express purpose of restoring the Site back to approximately the original grade. The number of soil samples analyzed for the imported soil would allow for up to 25,000 m^3 of soil to be imported to the Phase Two Property.

A total of 17,187 m^3 (30,900 metric tonnes) silty clay was also imported to the Phase Two Property and placed as engineered fill within the proposed residential redevelopment.

3.5 Proposed Buildings

The Phase Two Property will be re-developed over the entire property for residential development. The proposed development will have some units with underground basements or parking.

4.0 CONTAMINATION IN OR UNDER THE SITE

4.1 Areas Where Contaminants are Present

There are currently no contaminants present at the Phase Two Property. Areas where contaminants were present on the Phase Two Property are identified in **Table 8** below.

Table 8: Contaminated Areas

Area of Site	Strata	APECs	Impacts
South Eastern portion of Site (former production area)	Fill Materials	APECs 1 &3	Fill materials. The impacted fill soils were removed.
Entire Site (brickyard operations)	Native sand, silt and clay Till Soils		No impacts in these soils.
North, southwest and western portion of Site	Fill material from 0.5 to 1.5m		No impacts in fill material
Entire Site	Groundwater		No impacts in groundwater within the sand, silt clay till layers

Contaminants were identified in the Phase Two ESA investigation at the Phase Two Property. The contaminants were generally limited to the shallow fill materials. The APECs on the Phase Two Property were identified and delineated depicted in **Figure 9** and cross-section **Figure 10** and **11.**

4.2 Contaminants of Concern

The contaminants of concern associated with the Phase Two Property are identified in **Table 5** below:

Table 9: Contaminants of Concern

Areas	Site / Parameter Group	Exceedances within Parameter group
Fill Materials Surface up to 1.8 m. Contaminants identified in the fill material were limited. Former production area	VOC(including BTEX) & PHC	PHC Fraction F1, F2 and F3 & total xylenes
	Metals & Inorganics	Antimony, boron (HWS), cadmium and copper
	Polycyclic aromatic hydrocarbons	Anthracene, Benz(a)anthracene, Benzo(a)pyrene, Benz(b)fluoranthene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene, Fluoranthene, Ideno(1,2,3-cd)pyrene, and Phenanthrene

The Phase Two ESA identified the applicable Site condition standards as Table 3 Generic Site Condition Standards in a Non-Potable Groundwater Condition for Residential/Parkland/ Institutional land use as presented in the Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011)

Coarse-textured native soil consisting of sand to silty sand was identified on the Phase Two Property. The sand to silty sand was determined to be composed of sand or silty sand with trace to some gravel and trace silt and clay. The applicable soil texture for the Phase Two Property was therefore determined to be a coarse soil texture. Grain size analyses on the native soils at varying depths and locations across the site were conducted, the findings of which are summarized as follows:

- BH8 SS5 (3.0 to 3.5 mbgs) approximately 9.0% gravel, 80.8% sand and 10.2% silt and clay indicating a coarse texture.
- TP38 SA2 (0.8 to 1.4 mbgs) approximately 4.1% gravel, 90.1% sand and 5.8% silt and 16.3% clay indicating a medium/fine texture.

- BH7 SS5 (3.0 to 3.5 mbgs) approximately 1.0% gravel, 14.0% sand, 56.9% silt and 25.4% clay indicating a medium/fine texture.
- BH8 SS7 (6.1 to 6.7 mbgs) approximately 2.7% gravel, 10.6% sand, 67.8% silt and 18.9% clay indicating a medium/fine texture.

Additional information regarding delineation and medium in which contaminants are associated is provided in the following section.

4.3 Medium in Which Contaminants are Associated

The delineation of impacts is shown on **Figure 9** and cross-sections **Figure 10 and 11**. The contaminants of concern in the fill materials appear to have come from the placement of fill material of unknown quality as well as from the historic use of gasoline and associated products on the Phase Two Property.

The contaminants of concern associated with the impacted fill on southeastern portion of the metals and inorganics, petroleum hydrocarbons and polycyclic aromatic hydrocarbons (PAH). The soil contamination on Site is attributed to possible historical salting of the parking lot, driveways and surrounding municipal roadways.

No ground water samples collected for the contaminants of concern listed in section 2.1 were found to exceed the Table 3 Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011) for residential/parkland/institutional land use. Soil contaminant mass contributing to groundwater impacts was identified on the Phase Two Property and the impacts were removed.

All contamination was removed from the Phase Two Property when the medium in which the contaminants were associated with were removed during soil excavation remediation activities and the extents of the remediation and the confirmatory samples are shown on **Figure 12** and cross-sections **Figures 14** and **15**.

4.4 Information Known about Contaminated Area

The fill material was removed from the southeastern portion of the Phase Two Property as part of the remedial activities are considered to be attributed to the fill of unknown quality along with the former production area. Confirmatory groundwater testing confirms that the groundwater at the Phase Two Property meets the applicable Site condition standards.

As stated in Section 2.2, a total of 20,865 tonnes (13,040 m^3) of soil impacted with various metals & inorganic parameters, PAH and BTEX & PHC parameters was excavated and transported off-Site.

4.5 Reasons for Discharge of Contaminant

The origins of the contaminants on the southeastern portion of the Phase Two Property are likely due to the placement of fill of unknown quality that was placed during the construction of the building along with the historical use of underground storage tanks in the former production areas.

4.6 Migration of Contaminants and Preferential Pathways

Prior to the remedial activities the Phase Two Property was developed with industrial use which

covered the majority of the south eastern portion of the Phase Two Property. A drainage swale was located to the west of the manufacturing area.

The fill materials were generally underlain by sand to silty sand at depths of between 0.8 and 1.5 m below existing. The sand to silty sand layer is considered to represent a shallow unconfined aquifer.

The silt layer was found to be very moist with a compact relative density. Clayey silt was generally encountered at depths between 1.5 to 2.5 m below existing grades. The clayey silt layer was found to be very moist with a very loose to loose relative density.

The till is a mixture of silt, some sand, gravel and clay with shale fragments. The till was encountered across the Phase Two Property at depths of between 1.3 and 9.9 m below existing grade and extended beyond the depth investigated in the boreholes. The till is considered to represent a low permeable unit that would restrict the movement of contaminants and is considered to act as an aquitard.

The final confirmatory sampling of the clay till indicates that these assumptions are correct and the contaminants did not migrate from the fill and more permeable native sand layer vertically down into the clay till layer to any significant depth.

4.7 Climatic or Meteorological Influence on Migration

No climatic or meteorological conditions that may have influenced distribution and migration of the contaminant such as temporal fluctuations in groundwater levels.

4.8 Soil Vapour Intrusion into Buildings

The potential for soil vapour intrusion by contaminants of concern into the buildings is not possible as there are no contaminants currently present on the Phase Two Property. There are no buildings currently located on the Phase Two Property. The historical building was demolished prior to the remedial activities.

4.9 Relevant Construction Features of Buildings

There are currently no buildings present on the Phase Two Property; however, the proposed development plan includes a large residential development and town houses, all without basements. The historical building was demolished prior to the remedial activities.

4.10 Building HVAC

There are no buildings currently located on the Phase Two Property. The historical building was demolished prior to the remedial activities. The proposed residential buildings will have appropriate ventilation that will comply with all applicable requirements as set out in the Ontario Building Code.

4.11 Subsurface Structures and Utilities

Subsurface structures and utilities that may have affected the distribution and transport of contamination are provided in **Table 6** below. The majority of the utilities were located above the water table elevation and are not likely to have affected the migration of contaminants.

Table 10: Subsurface Utilities

Utility	Phase Two Property
Natural Gas	No natural gas utilities were identified during the excavation and remedial works.
Electrical	No electrical utilities were identified during the excavation and remedial works.
Telecommunications	No telecommunication utilities were identified during the excavation and remedial works.
Water	No water lines were identified during the excavation and remedial works.
Sewer	No sewer lines were identified during the excavation and remedial works.

5.0 POTENTIAL EXPOSURE PATHWAYS AND RECEPTORS

5.1 Description of Components

The risk based components of the potential exposure pathways and receptors are listed below. These components are used in this section as well as in the graphical representation of the pathways and receptors presented on **Figure 16**.

GW1 – Ground water for drinking water purposes

GW2 – Ground water for protection from movement to indoor air

GW3 – Ground water for protection of aquatic life

S1 – Soil for protection of a residential receptor from direct contact with surface soil

S2 – Soil for protection from direct soil contact for a lower frequency and intensity exposure than residential surface soil, such as commercial or industrial scenarios

S3 – Soil for direct soil contact for a low-frequency, high-intensity, human health exposure scenario without children present that is protective of a worker digging in the soil

S-IA – Soil for protection of movement to indoor air and human exposure

S-OA – Soil for protection of movement to outdoor air and human exposure

S-Odour – Soil for protection of excessive odours

S-GW1 – Soil for protection from movement to ground water for drinking water purposes

S-GW3 – Soil for protection from movement to ground water and then to aquatic life
Plants and Soil Organisms – Soil for protection against adverse effects to plants and soil dwelling organisms

Mammals and Birds – Soil for protection against adverse effects through direct soil and food ingestion to mammals and birds

Please note Figure 16 is a graphical representation of potential pathways and receptors and does not have a scale or orientation which can be related to the Phase Two Property.

5.2 Receptor – Human Health

The potential sources, pathways and receptors for human health are summarized in Table 7 below.

Table 11: Human Health

Potential Pathway	Source		Contaminants of Concern	Potential Risks	
	Pre-Remediation	Post-Remediation		Pre-Remediation	Post-Remediation
GW1	Contamination present not in groundwater.	Contamination not present in groundwater.	VOC, PAH, PCB, Metals, PHC, Inorganics	No Risk – No Pathway	No Risk – No Source No Risk – No Pathway
GW2	Contamination present not in groundwater.	Contamination not present in groundwater.	VOC, PAH, PCB, Metals, PHC, Inorganics	No Risk – No Pathway	No Risk – No Source
S1	Contamination present in fill and native soil.	Contamination not in fill or native soil.	VOC, PAH, PCB, Metals, PHC, Inorganics	Risk Present	No Risk – No Source
S2	Contamination present in fill and native soil.	Contamination not in fill or native soil.	VOC, PAH, PCB, Metals, PHC, Inorganics	Risk Present	No Risk – No Source
S3	Contamination present in fill and native soil.	Contamination not in fill or native soil.	VOC, PAH, PCB, Metals, PHC, Inorganics	Risk Present	No Risk – No Source
S-IA	Contamination present in fill and native soil.	Contamination not in fill or native soil.	VOC, PAH, PCB, Metals, PHC, Inorganics,	Risk Present	No Risk – No Source
S-OA	Contamination present in fill and native soil.	Contamination not in fill or native soil.	VOC, PAH, PCB, Metals, PHC, Inorganics	Risk Present	No Risk – No Source
S-Odour	Contamination present in fill and native soil.	Contamination not in fill or native soil.	VOC, PAH, PCB, Metals, PHC, Inorganics	Risk Present	No Risk – No Source
S-GW1	Contamination present in fill and native soil.	Contamination not in fill or native soil.	VOC, PAH, PCB, Metals, PHC, Inorganics	Risk Present	No Risk – No Source No Risk – No Receptor No Risk – No Pathway

5.3 Receptor – Terrestrial Environment

The potential sources, pathways and receptors for the terrestrial environment are summarized in **Table 8** below.

Table 12: Terrestrial Environment

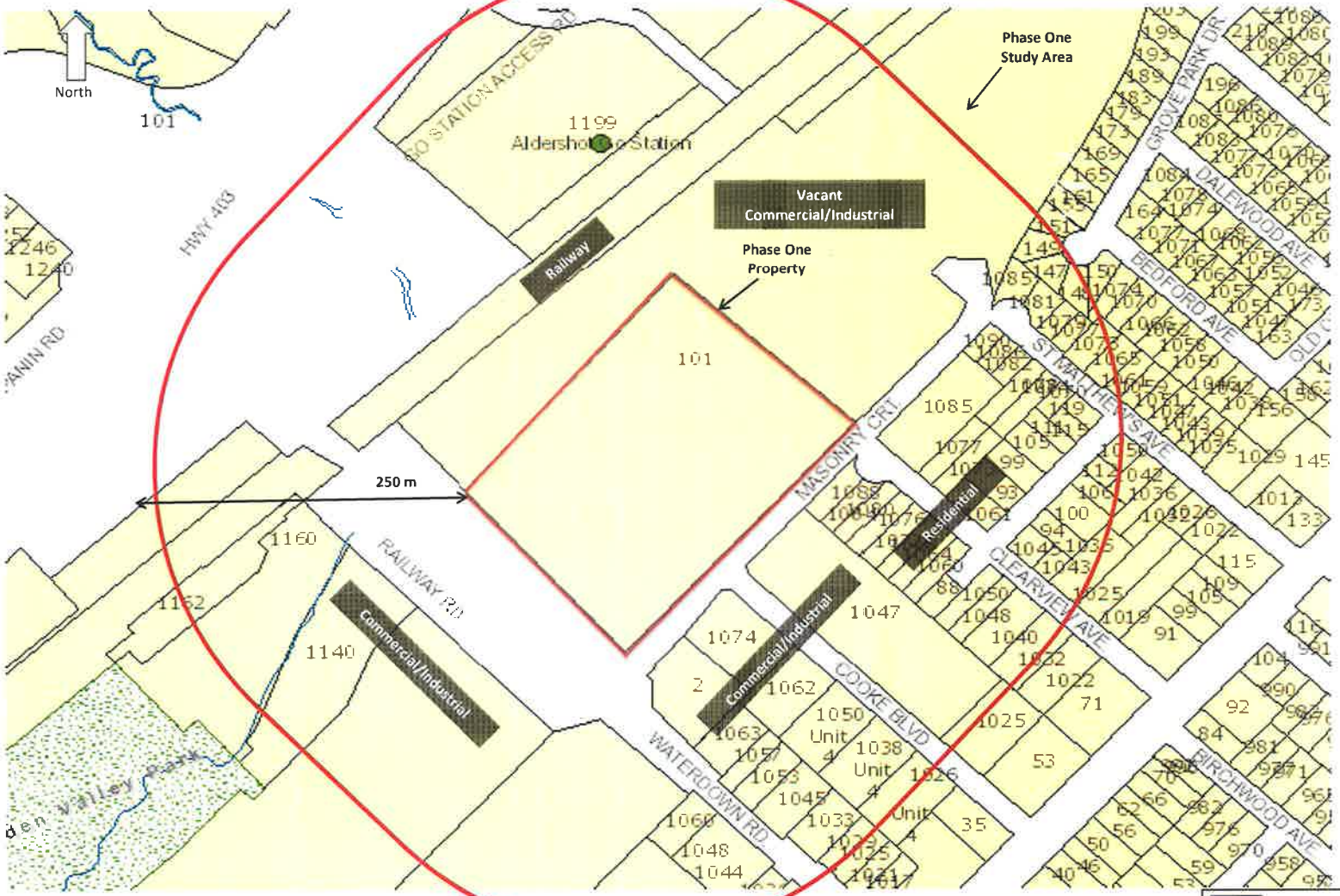
Potential Pathway	Source		Contaminants of Concern	Potential Risks	
	Pre-Remediation	Post-Remediation		Pre-Remediation	Post-Remediation
Plants and Soil Organisms	Contamination present in fill and native soil.	Contamination not in fill or native soil.	VOC, PAH, PCB, Metals, PHC, Inorganics,	Risk Present	No Risk – No Source No Risk – No Pathway
Mammals and Birds	Contamination present in fill and native soil.	Contamination not in fill or native soil.	VOC, PAH, PCB, Metals, PHC, Inorganics,	Risk Present	No Risk – No Source

5.4 Receptor – Aquatic Environment

The potential sources, pathways and receptors for an aquatic environment are summarized in **Table 9** below.

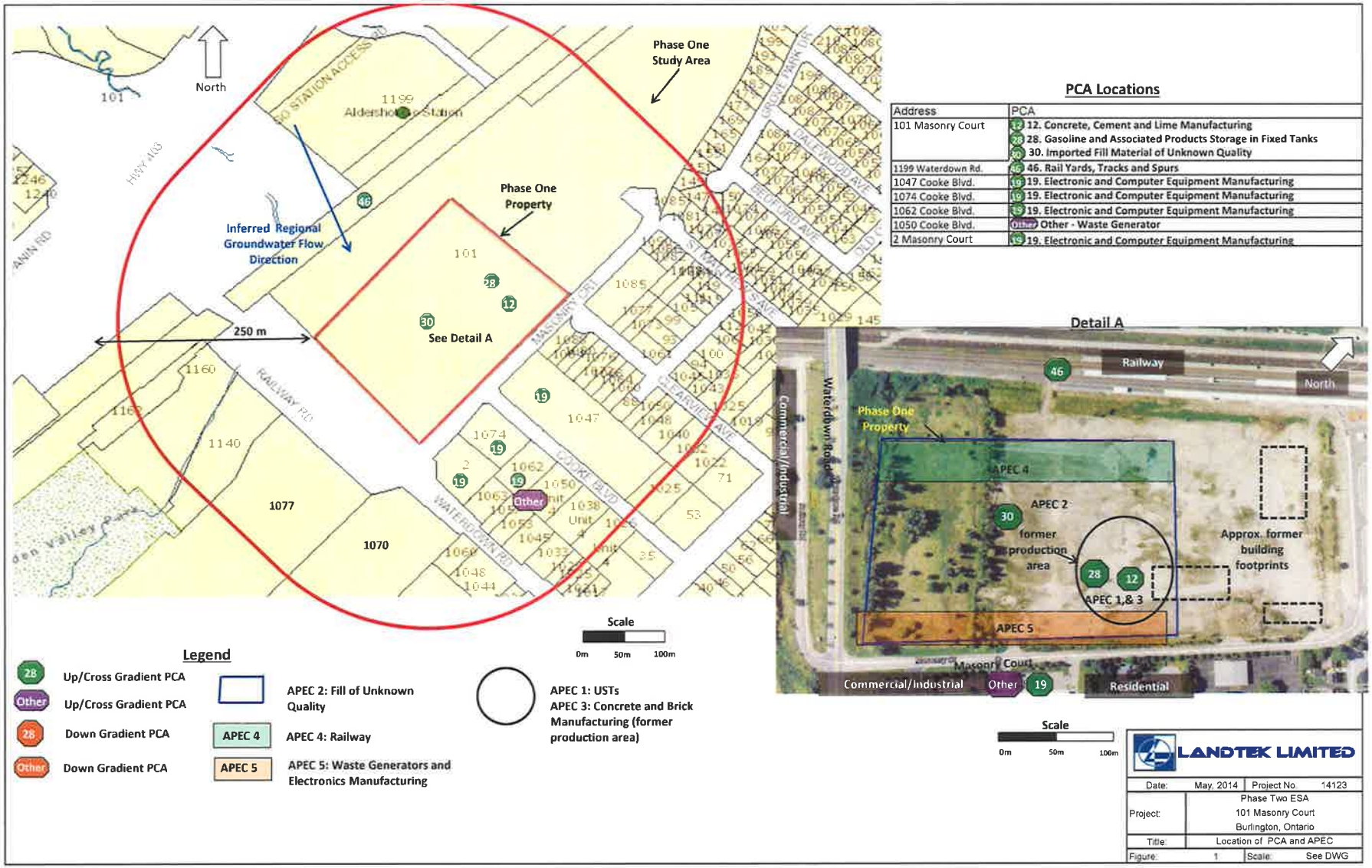
Table 13: Aquatic Environment

Potential Pathway	Source		Contaminants of Concern	Potential Risks	
	Pre-Remediation	Post-Remediation		Pre-Remediation	Post-Remediation
GW3	No Contamination present in groundwater.	Contamination not present in groundwater.	VOC, PAH, PCB, Metals, PHC, Inorganics,	No Risk – No Source	No Risk – No Source No Risk – No Receptor
S-GW3	No Contamination present in fill and native soil.	Contamination not in fill or native soil.	VOC, PAH, PCB, Metals, PHC, Inorganics,	No Risk – No Source	No Risk – No Source



LANDTEK LIMITED

Date:	May, 2014	Project No.	14123
Project:	Phase Two ESA 101 Masonry Court Burlington, Ontario		
Title:	Site Location Plan and Study Area		
Figure:	1	Scale:	See DWG



PCA Locations

Address	PCA
101 Masonry Court	12. Concrete, Cement and Lime Manufacturing 28. Gasoline and Associated Products Storage in Fixed Tanks 30. Imported Fill Material of Unknown Quality
1199 Waterdown Rd.	46. Rail Yards, Tracks and Spurs
1047 Cooke Blvd.	19. Electronic and Computer Equipment Manufacturing
1074 Cooke Blvd.	19. Electronic and Computer Equipment Manufacturing
1062 Cooke Blvd.	19. Electronic and Computer Equipment Manufacturing
1050 Cooke Blvd.	Other - Waste Generator
2 Masonry Court	19. Electronic and Computer Equipment Manufacturing

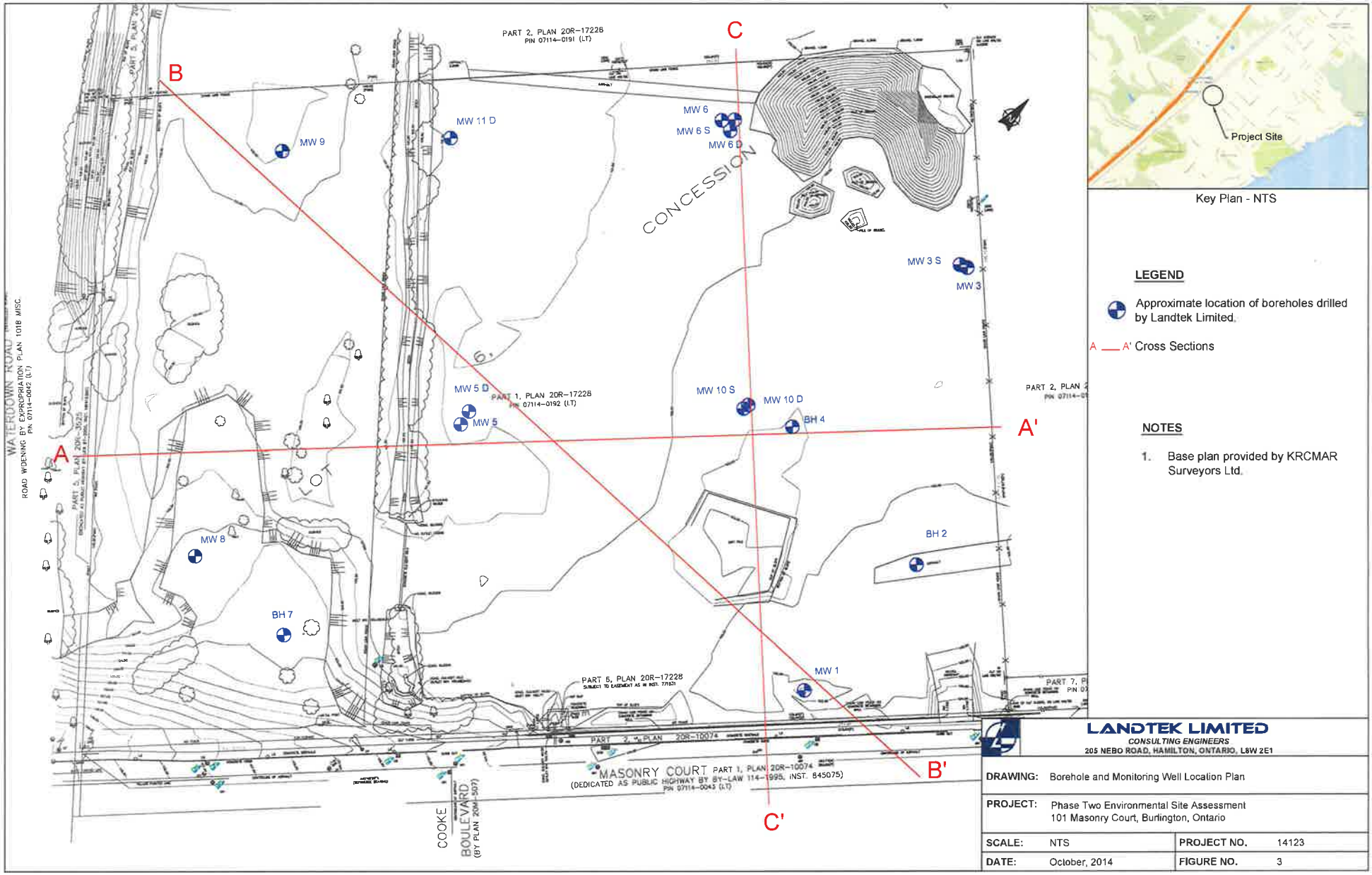
Detail A

Legend

- Up/Cross Gradient PCA
- Up/Cross Gradient PCA
- Down Gradient PCA
- Down Gradient PCA
- APEC 2: Fill of Unknown Quality
- APEC 4: Railway
- APEC 5: Waste Generators and Electronics Manufacturing
- APEC 1: USTs
- APEC 3: Concrete and Brick Manufacturing (former production area)

LANDTEK LIMITED

Date:	May. 2014	Project No	14123
Project:	Phase Two ESA 101 Masonry Court Burlington, Ontario		
Title:	Location of PCA and APEC		
Figure:	1	Scale:	See DWG



Key Plan - NTS

LEGEND

Approximate location of boreholes drilled by Landtek Limited.

A ___ A' Cross Sections

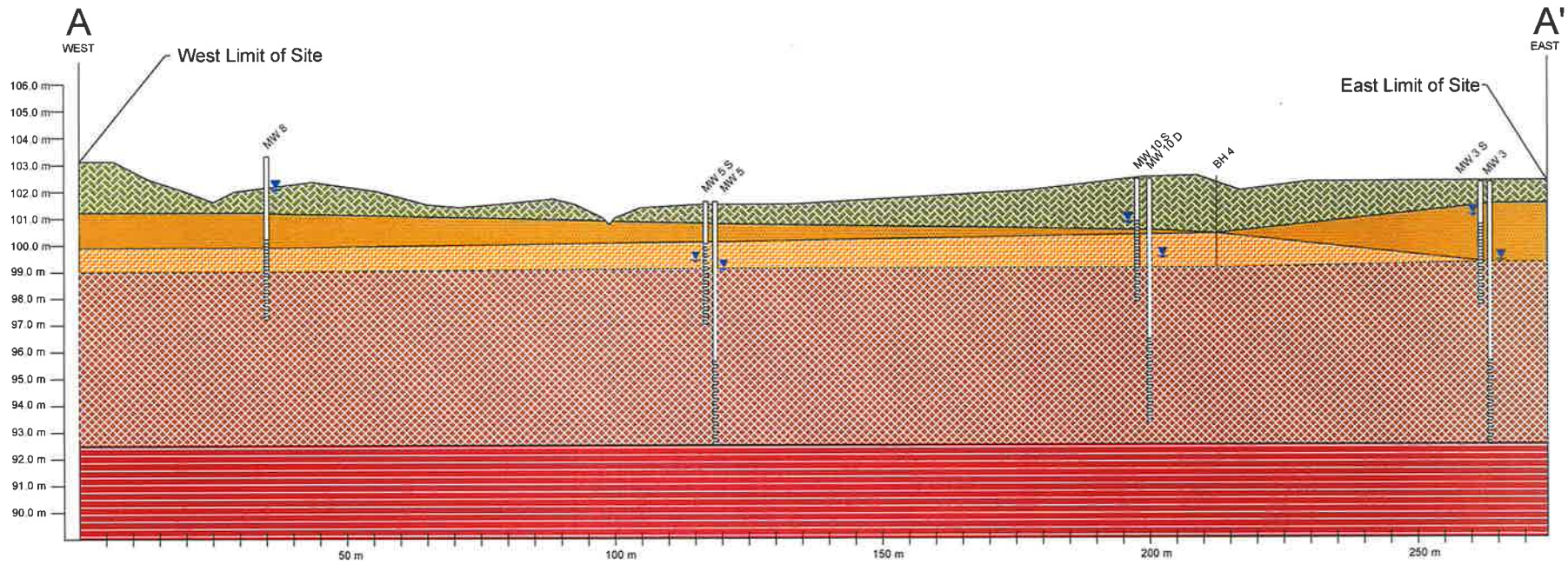
NOTES

1. Base plan provided by KRCMAR Surveyors Ltd.

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Borehole and Monitoring Well Location Plan
PROJECT:	Phase Two Environmental Site Assessment 101 Masonry Court, Burlington, Ontario

SCALE:	NTS	**PROJECT NO.**	14123
DATE:	October, 2014	**FIGURE NO.**	3



LEGEND

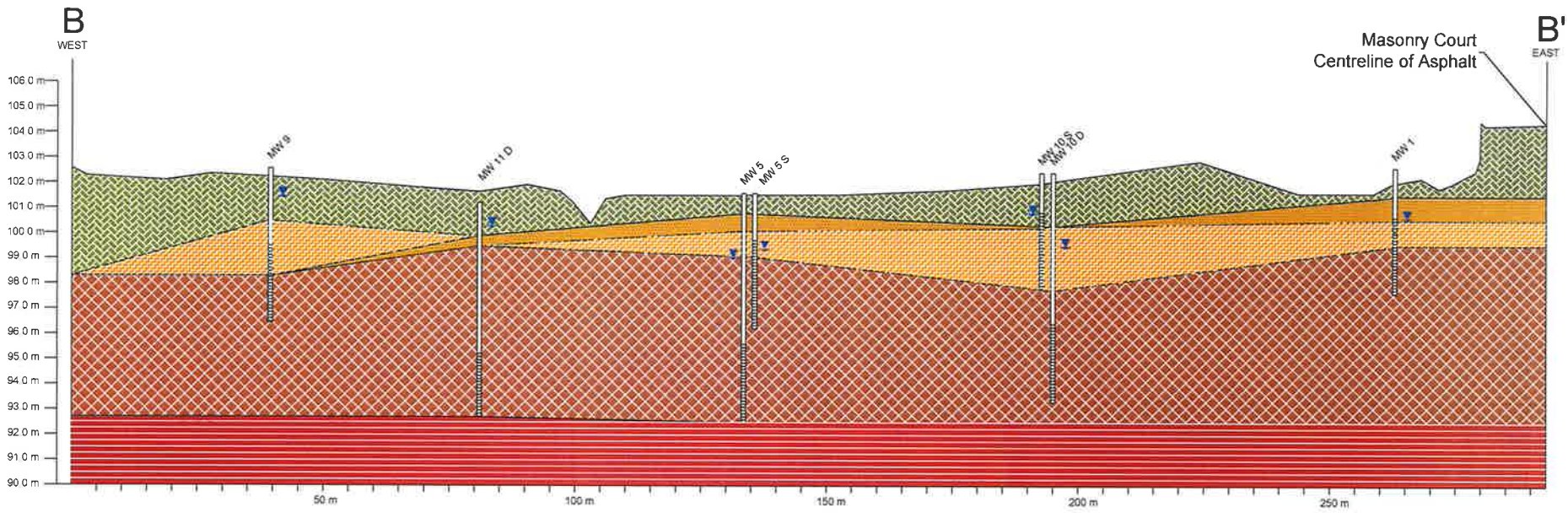
- SAND
- SILT
- TILL
- SHALE
- FILL
- Water Level measured on August 6, 2014

NOTES

1. Stratigraphy beyond borehole is inferred.
2. See Figure 3 for location of section A-A'

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Cross Section A - A'		
PROJECT:	Environmental Site Assessment Phase Two 101 Masonry Court, Burlington, Ontario		
SCALE:	See DWG	**PROJECT NO.**	14123
DATE:	October, 2014	**FIGURE NO.**	4



LEGEND

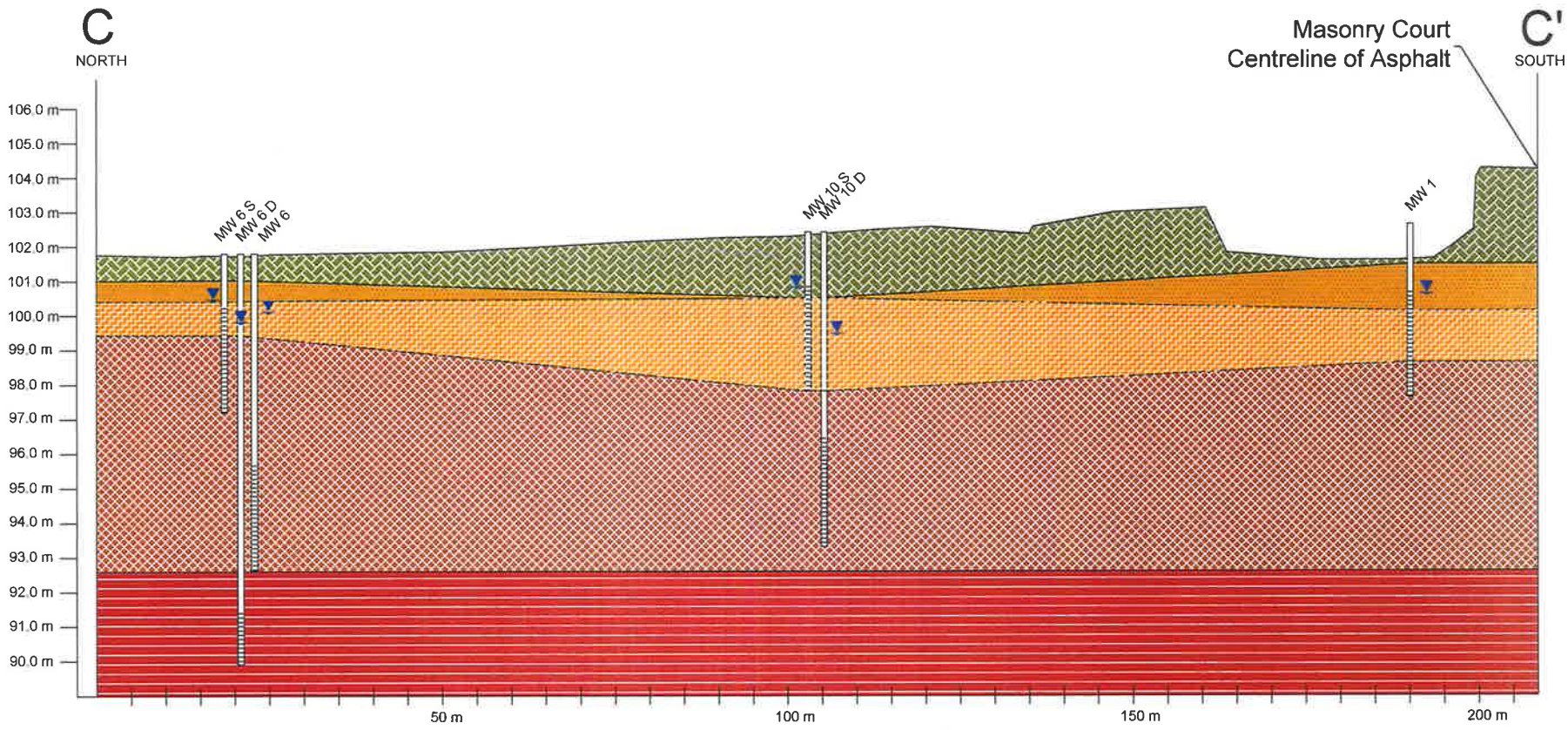
- SAND
- SILT
- TILL
- SHALE
- FILL
- Water Level measured on August 6, 2014

NOTES

1. Stratigraphy beyond borehole is inferred.
2. See Figure 3 for location of section B-B'

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Cross Section B - B'		
PROJECT:	Phase Two Environmental Site Assessment 101 Masonry Court, Burlington, Ontario		
SCALE:	See DWG	**PROJECT NO.**	14123
DATE:	October, 2014	**DRAWING NO.**	5



LEGEND

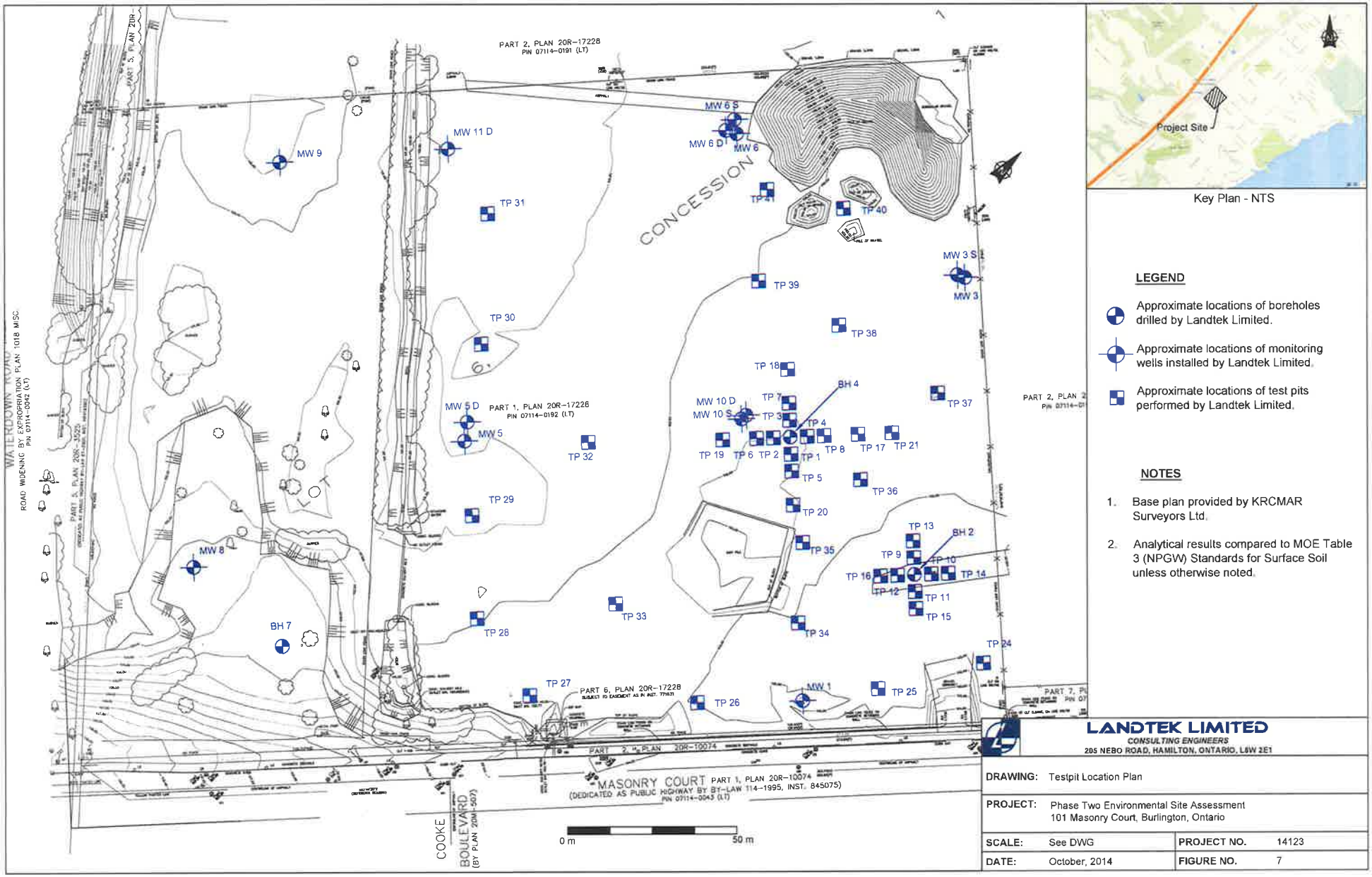
- SAND
- SILT
- TILL
- SHALE
- FILL
- Water Level measured on August 6, 2014

NOTES

1. Stratigraphy beyond borehole is inferred.
2. See Figure 3 for location of section C-C'

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Cross Section C - C'		
PROJECT:	Phase Two Environmental Site Assessment 101 Masonry Court, Burlington, Ontario		
SCALE:	See DWG	**PROJECT NO.**	14123
DATE:	October, 2014	**FIGURE NO.**	6



Key Plan - NTS

LEGEND

- Approximate locations of boreholes drilled by Landtek Limited.
- Approximate locations of monitoring wells installed by Landtek Limited.
- Approximate locations of test pits performed by Landtek Limited.

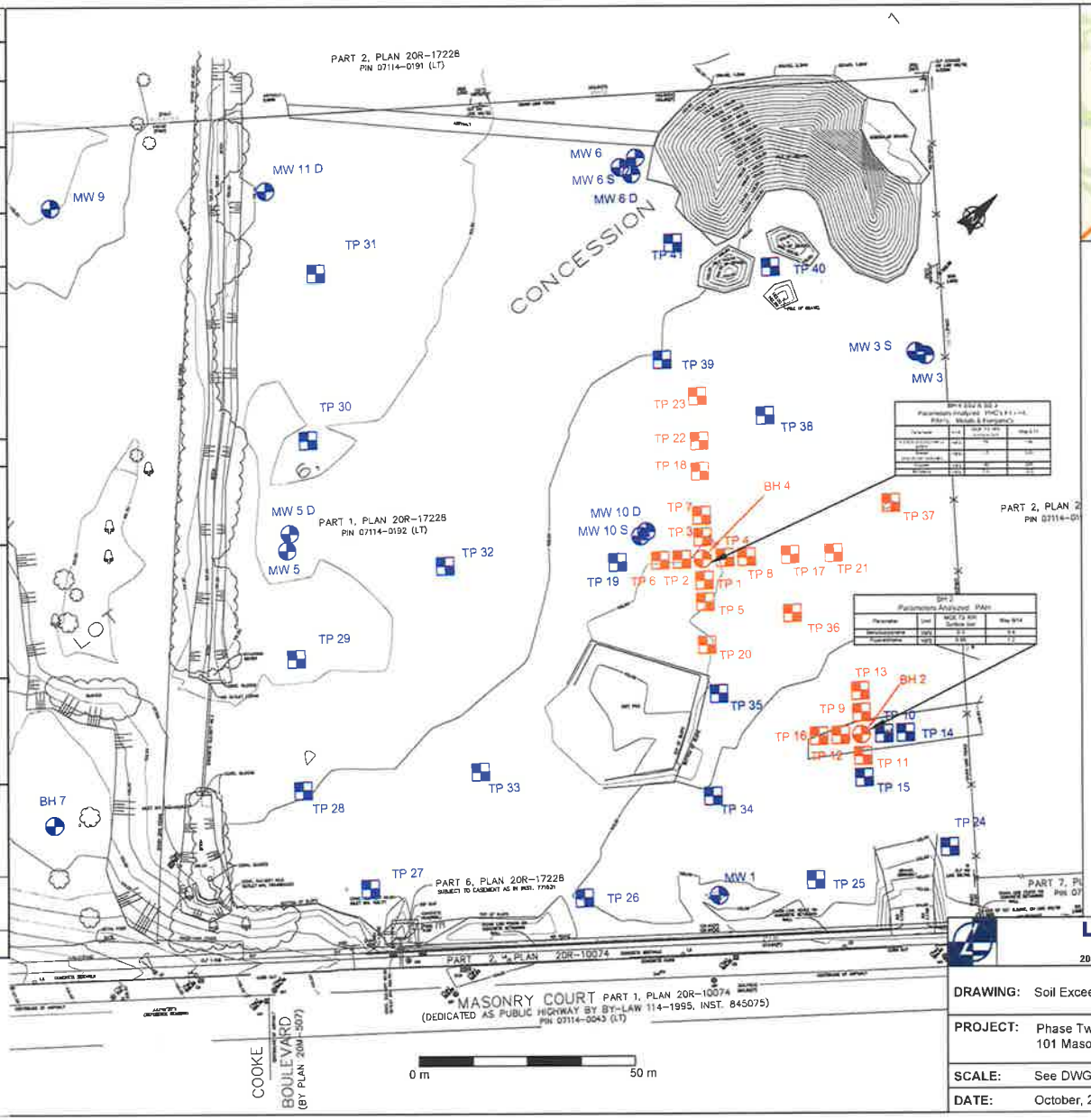
NOTES

1. Base plan provided by KRCMAR Surveyors Ltd.
2. Analytical results compared to MOE Table 3 (NPGW) Standards for Surface Soil unless otherwise noted.

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Testpit Location Plan		
PROJECT:	Phase Two Environmental Site Assessment 101 Masonry Court, Burlington, Ontario		
SCALE:	See DWG	**PROJECT NO.**	14123
DATE:	October, 2014	**FIGURE NO.**	7

Location	Depth (mbgs)	Contaminant	Guideline Value*	Sample Result (µg/g)
BH2				
SS1	0-0.7	-Benzo(a)pyrene	0.3	0.4
		-Fluoranthene	0.69	1.2
BH4				
SS2	0.8-1.2	-F1 (C6 to C10) minus BTEX	55	130
SS3	1.5-2.0	-Boron (Hot Water Soluble)	1.5	3.39
		-Copper	140	205
		-Antimony (Duplicate 1)	7.5	12.6
TP2				
Sa2	1.0-1.5	-F1 (C6 to C10) minus BTEX	55	520
		-F2 (C10 to C16)	98	160
		-F3(C16 to C34)	300	630
		-Xylene Mixture	3.1	7.3
TP5				
Sa2	1.3-1.5	-F1 (C6 to C10) minus BTEX	55	280
		-F2 (C10 to C16)	98	99
		-F3(C16 to C34)	300	450
TP7				
Sa3	1.5-1.8	-Boron (Hot Water Soluble)	1.5	3.36
TP9				
Sa1	0.6-0.8	-Benz(a)anthracene	0.5	0.63
		-Benzo(a)pyrene	0.3	0.34
		-Fluoranthene	0.69	1.1
TP11				
Sa1	0.5-0.9	-Benz(a)anthracene	0.5	2.1
		-Benzo(a)pyrene	0.3	1.2
		-Benz(b)fluoranthene	0.78	1.5
		-Dibenz(a,h)anthracene	0.1	0.12
		-Fluoranthene	0.69	3.6
		-deno(1,2,3-cd)pyrene	0.38	0.47
TP12				
Sa1	0.5-0.9	-Fluoranthene	0.69	0.73
TP13				
Sa1	0.5-0.9	-Benzo(a)pyrene	0.3	1
		-Benzo(k)fluoranthene	0.78	1.4
		-Dibenz(a,h)anthracene	0.1	0.11
		-Fluoranthene	0.69	1.9
		-deno(1,2,3-cd)pyrene	0.38	0.52
TP15				
Sa1	0.5-0.8	-Anthracene	0.67	2
		-Benz(a)anthracene	0.5	4.2
		-Benzo(a)pyrene	0.3	2.9
		-Benz(b)fluoranthene	0.78	4
		-Benzo(k)fluoranthene	0.78	2
		-Dibenz(a,h)anthracene	0.1	0.41
		-Fluoranthene	0.69	11
		-deno(1,2,3-cd)pyrene	0.38	1.7
		-Phenanthrene	6.2	8.7
TP20				
Sa1	0.5-0.9	-Benz(a)anthracene	0.5	1.4
		-Benzo(a)pyrene	0.3	1.4
		-Benz(b)fluoranthene	0.78	1.9
		-Dibenz(a,h)anthracene	0.1	0.15
		-Fluoranthene	0.69	2.9
		-deno(1,2,3-cd)pyrene	0.38	0.71
Sa2	1.5-2.0	-Fluoranthene	0.69	0.78
TP21				
Sa1	0.5-0.9	-Benz(a)anthracene	0.5	1.4
		-Benzo(a)pyrene	0.3	1.1
		-Benz(b)fluoranthene	0.78	1.5
		-Dibenz(a,h)anthracene	0.1	0.13
		-Fluoranthene	0.69	2.5
		-deno(1,2,3-cd)pyrene	0.38	0.57
TP36				
Sa1	0.6-0.9	-Benz(a)anthracene	0.5	0.54
		-Benzo(a)pyrene	0.3	0.45
		-Fluoranthene	0.69	1.3
TP37				
Sa1	0.5-0.9	-Fluoranthene	0.69	0.72





Key Plan - NTS

LEGEND

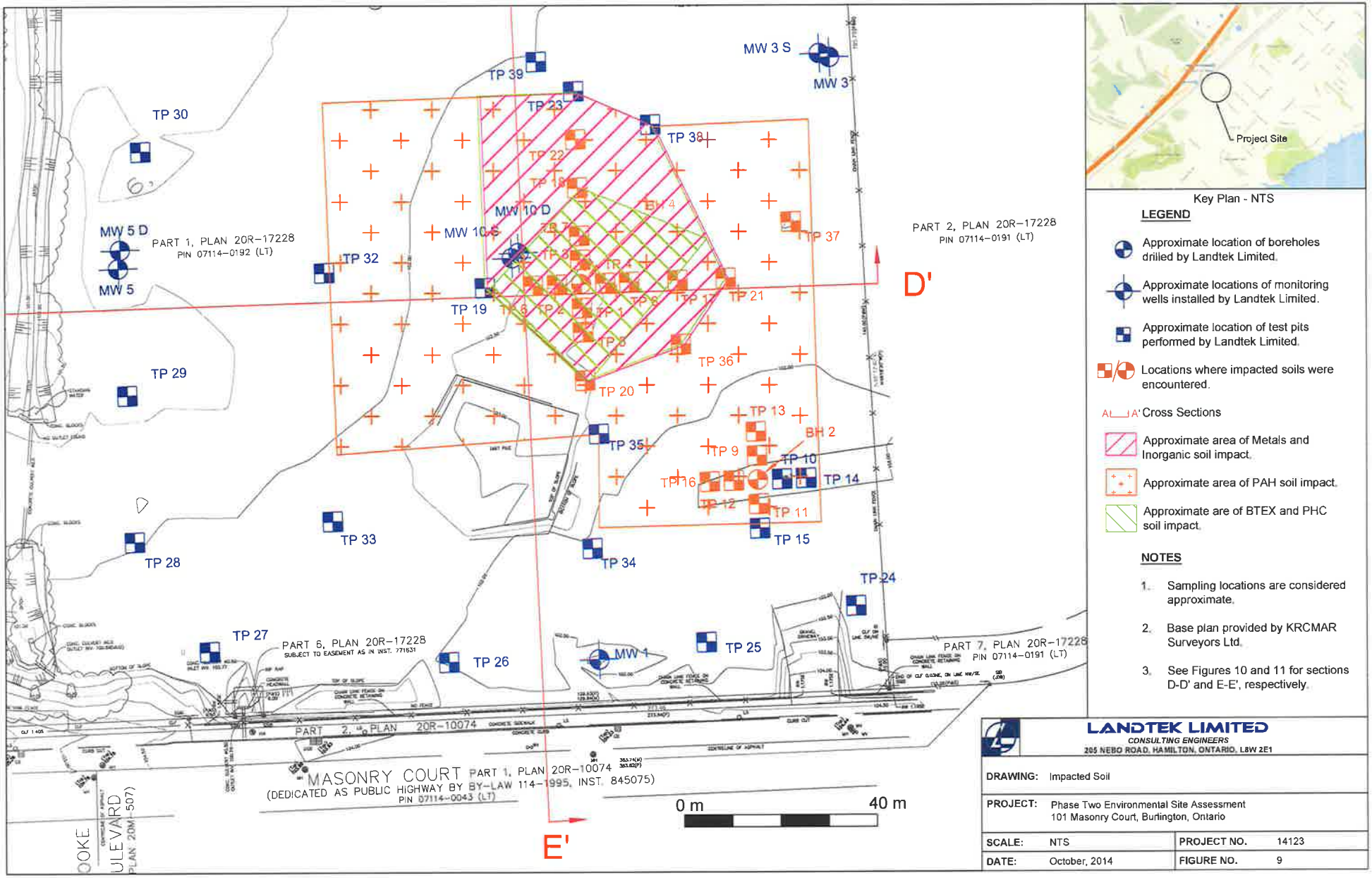
- Approximate locations of boreholes drilled by Landtek Limited.
- Approximate locations of monitoring wells installled by Landtek Limited.
- Approximate locations of test pits performed by Landtek Limited.
- Approximate location of soil sample taken by Landtek Limited.
- Location where impacted soils were encountered.

NOTES

Base plan provided by KRCMAR Surveyors Ltd.

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Soil Exceedances		
PROJECT:	Phase Two Environmental Site Assessment 101 Masonry Court, Burlington, Ontario		
SCALE:	See DWG	**PROJECT NO.**	14123
DATE:	October, 2014	**FIGURE NO.**	8



Key Plan - NTS

LEGEND

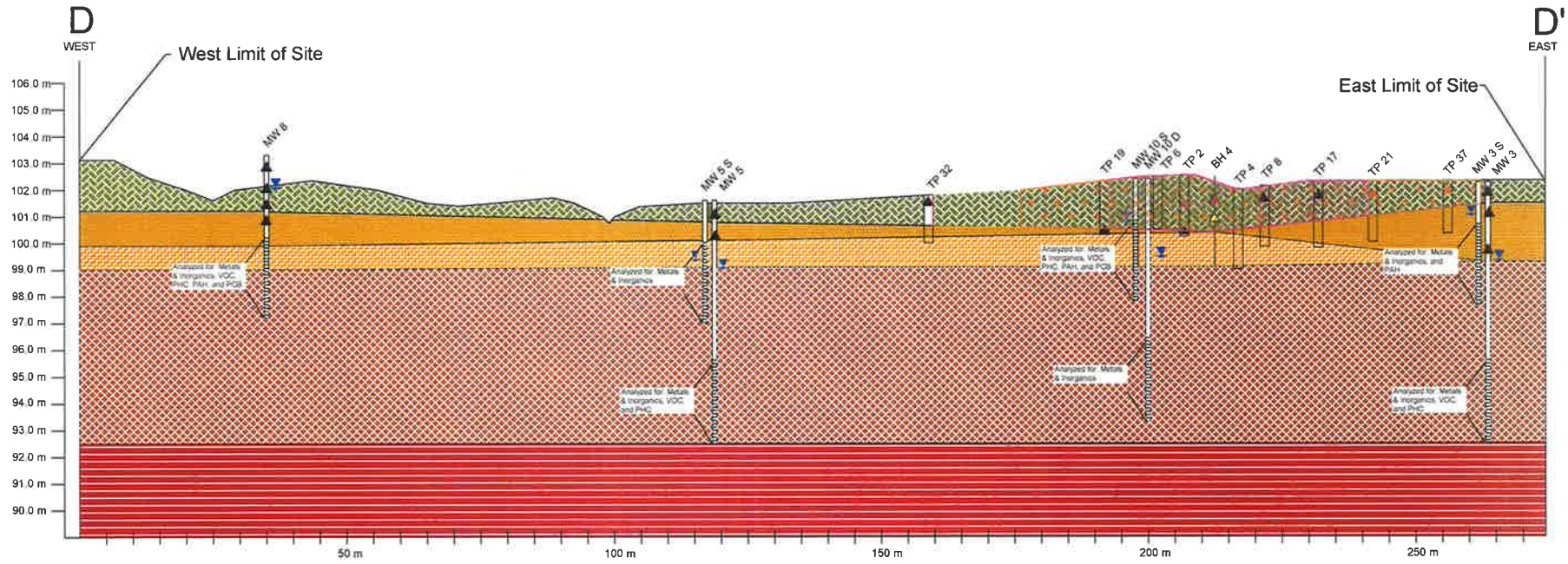
- Approximate location of boreholes drilled by Landtek Limited.
- Approximate locations of monitoring wells installed by Landtek Limited.
- Approximate location of test pits performed by Landtek Limited.
- Locations where impacted soils were encountered.
- A Cross Section A'
- Approximate area of Metals and Inorganic soil impact.
- Approximate area of PAH soil impact.
- Approximate are of BTEX and PHC soil impact.

NOTES

1. Sampling locations are considered approximate.
2. Base plan provided by KRCMAR Surveyors Ltd.
3. See Figures 10 and 11 for sections D-D' and E-E', respectively.

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Impacted Soil
PROJECT:	Phase Two Environmental Site Assessment 101 Masonry Court, Burlington, Ontario
SCALE: NTS	**PROJECT NO.** 14123
DATE: October, 2014	**FIGURE NO.** 9



LEGEND

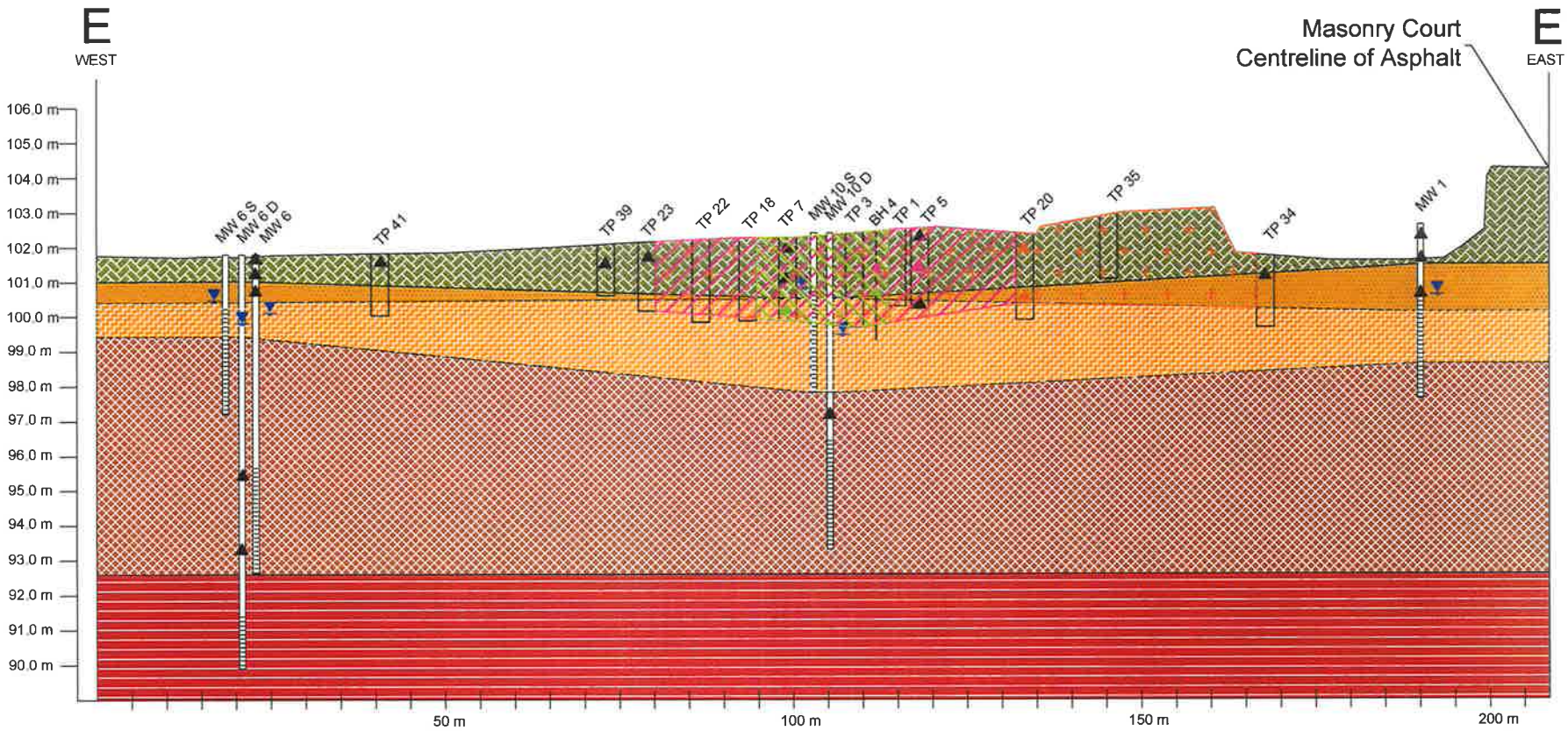
- SAND
- TILL
- FILL
- SILT
- SHALE
- Water Level (Aug. 6, 2014)
- Non-impacted Soil Sample
- PHC & BTEX Impacted Soil Sample
- M & I Impacted Soil Sample
- PAH Impacted Soil Sample
- Area of PAH impacted soil
- Area of M & I impacted soil.
- Area of PHC and BTEX impacted soil

NOTES

1. Stratigraphy beyond borehole is inferred.
2. See Figure 9 for location of section D-D'

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Cross Section D - D'		
PROJECT:	101 Masonry Court, Burlington, Ontario		
SCALE:	See DWG	**PROJECT NO.**	14123
DATE:	March, 2016	**FIGURE NO.**	10



LEGEND

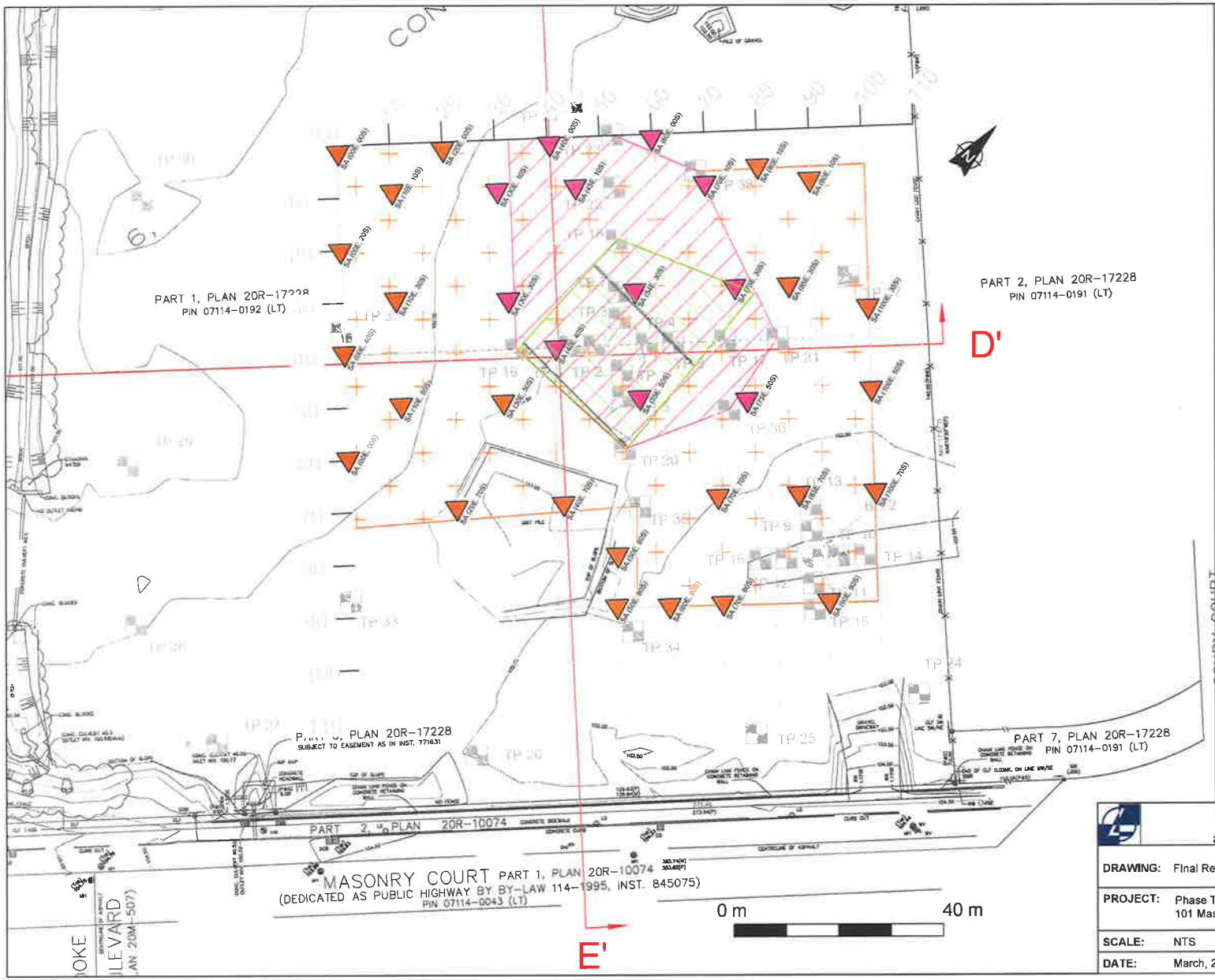
- SAND
- TILL
- FILL
- SILT
- SHALE
- Water Level (Aug. 6, 2014)
- Non-impacted Soil Sample
- BTEX & PHC Impacted Soil Sample
- M & I Impacted Soil Sample
- PAH Impacted Soil Sample
- Area of PAH Impacted Soil
- Area of Metal and Inorganics Impacted Soil
- Area of BTEX and PHC Impacted Soil

NOTES

1. Stratigraphy beyond borehole is inferred.
2. See Figure 9 for location of section E-E'

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Cross Section E - E'		
PROJECT:	Phase Two Environmental Site Assessment 101 Masonry Court, Burlington, Ontario		
SCALE:	See DWG	**PROJECT NO.**	14123
DATE:	October, 2014	**FIGURE NO.**	11



LEGEND

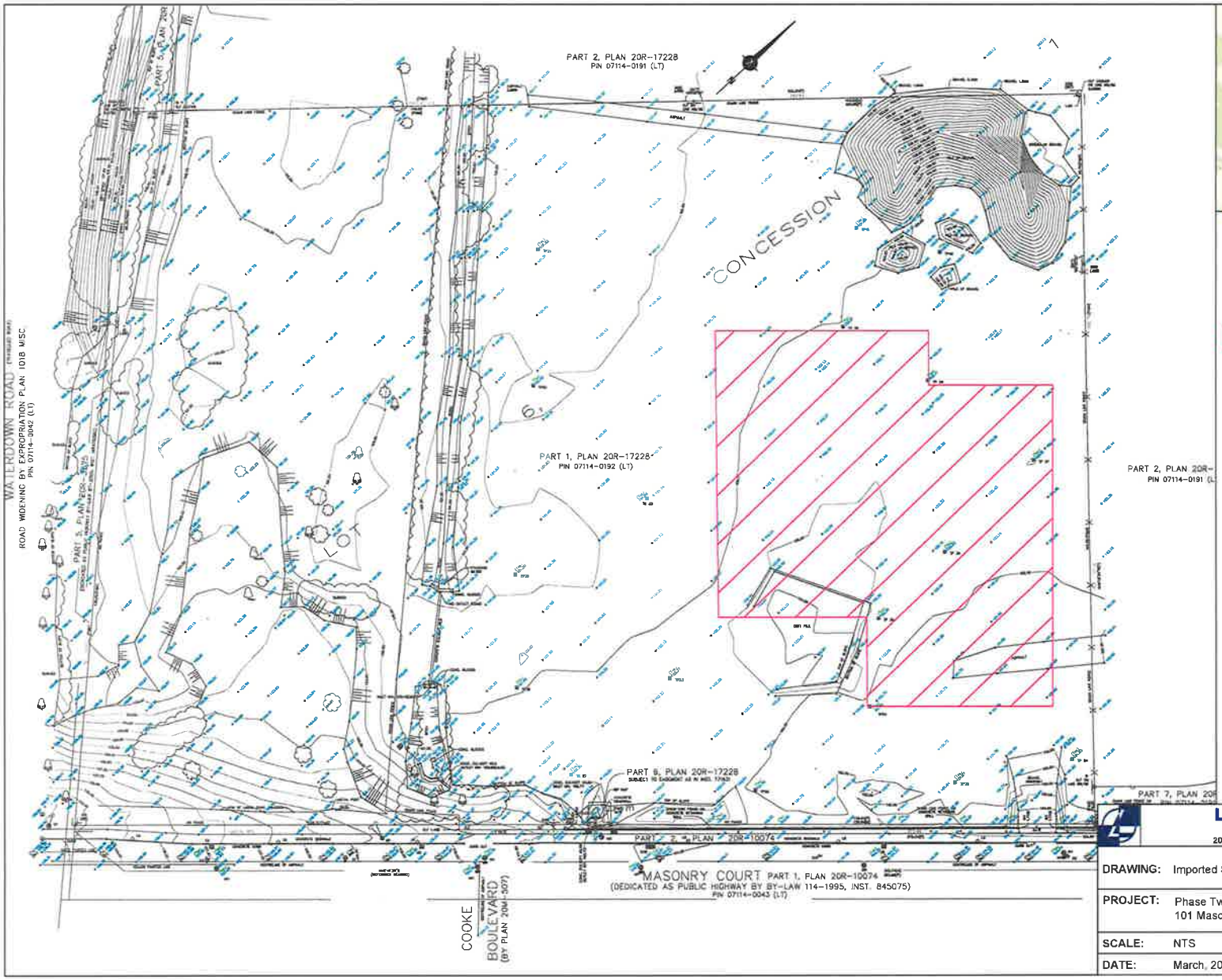
- Approximate location of test pits performed by Landtek Limited.
- Approximate Location of boreholes drilled by Landtek Limited.
- Approximate location of verification samples tested for PAH's and met Table 3 RPI standards.
- Approximate location of verification samples tested for Metals and Inorganics, VOCs (including BTEX), PHCs, and PAHs and met Table 3 RPI standards.
- A—A' Cross Sections
- Approximate area Metals and Inorganic soil impact.
- Approximate area of PAH soil impact.
- Approximate are of BTEX and PHC soil impact.

NOTES

1. Sampling locations are considered approximate.
2. Base plan provided by KRCMAR Surveyors Ltd.
3. See Figures 10 and 11 for sections D-D' and E-E', respectively.

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Final Remediation		
PROJECT:	Phase Two Environmental Site Assessment 101 Masonry Court, Burlington, Ontario		
SCALE:	NTS	**PROJECT NO.**	14123
DATE:	March, 2016	**FIGURE NO.**	12





Key Plan - NTS

LEGEND

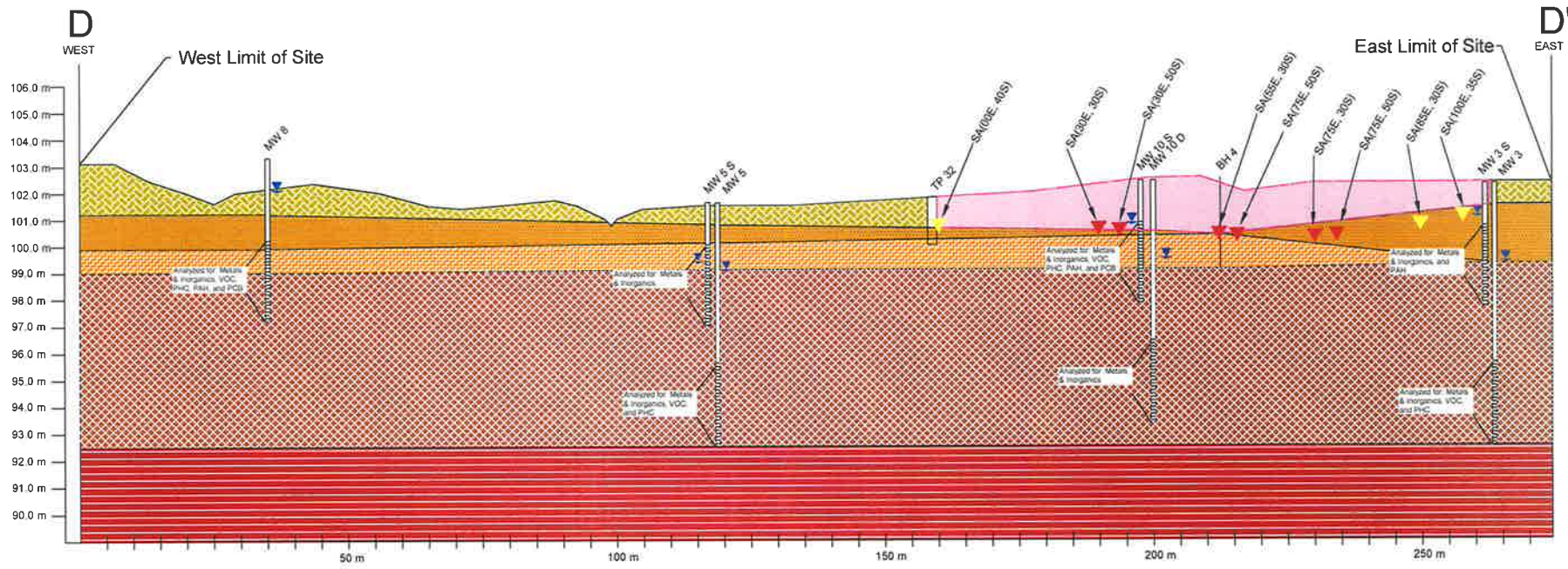
Approximate area of imported soil placement.

NOTES

1. Base plan provided by KRCMAR Surveyors Ltd.

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Imported Soil Placement		
PROJECT:	Phase Two Environmental Site Assesment 101 Masonry Court, City of Burlington, Ontario		
SCALE:	NTS	**PROJECT NO.**	14123
DATE:	March, 2016	**FIGURE NO.**	13



LEGEND

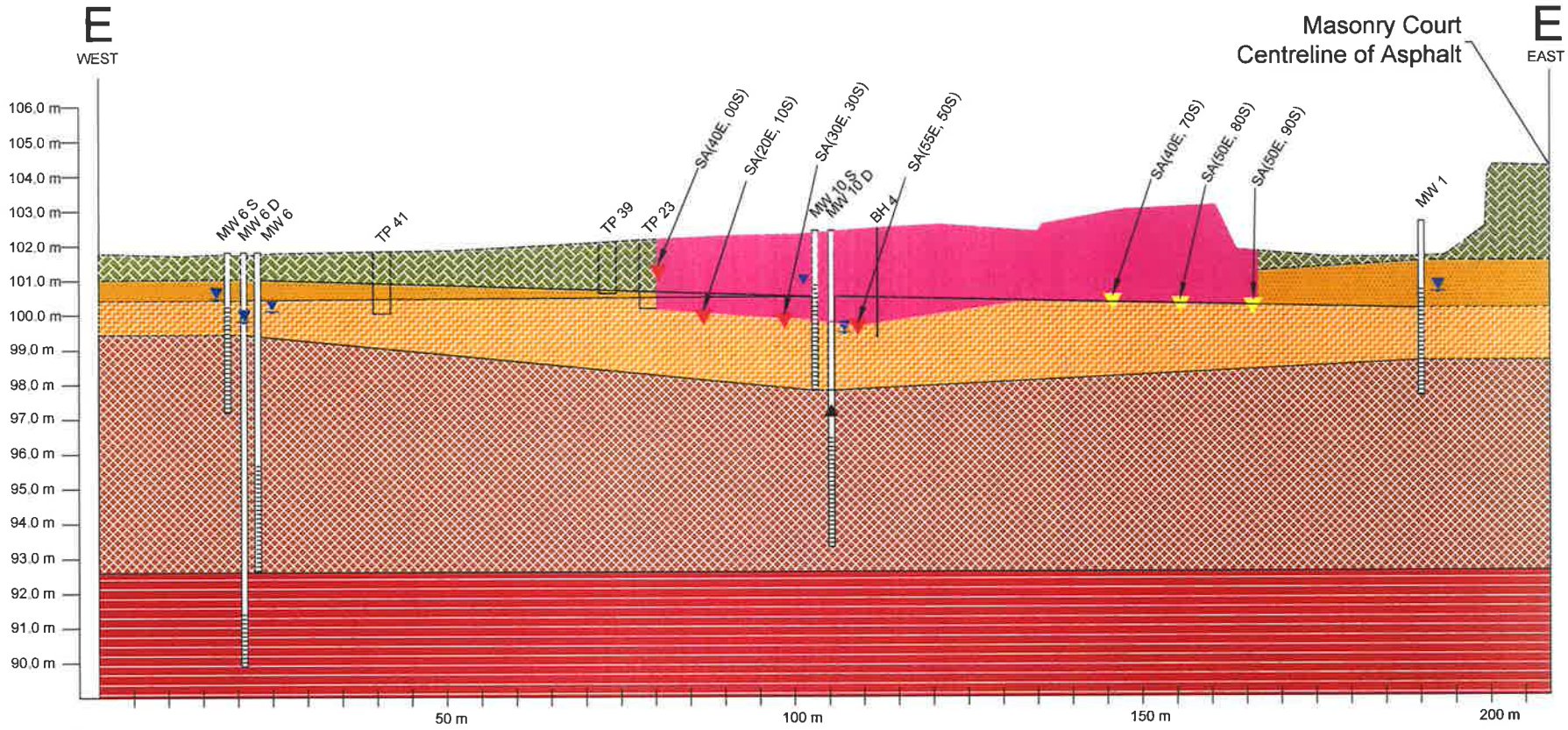
- SAND
- TILL
- FILL
- SILT
- SHALE
- Water Level (Aug. 6, 2014)
- Approximate location of verification sample for PAH, M + I, and VOC & PHC
- Approximate location of verification sample PAH (only).
- Area of Imported Soil

NOTES

1. Stratigraphy beyond borehole is inferred.
2. See Figure 9 for location of section D-D'

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Imported Soil Placement - Cross Section D - D'		
PROJECT:	Environmental Site Assessment Phase Two, 101 Masonry Court, Burlington, Ontario		
SCALE:	See DWG	**PROJECT NO.**	14123
DATE:	October, 2014	**FIGURE NO.**	14



LEGEND

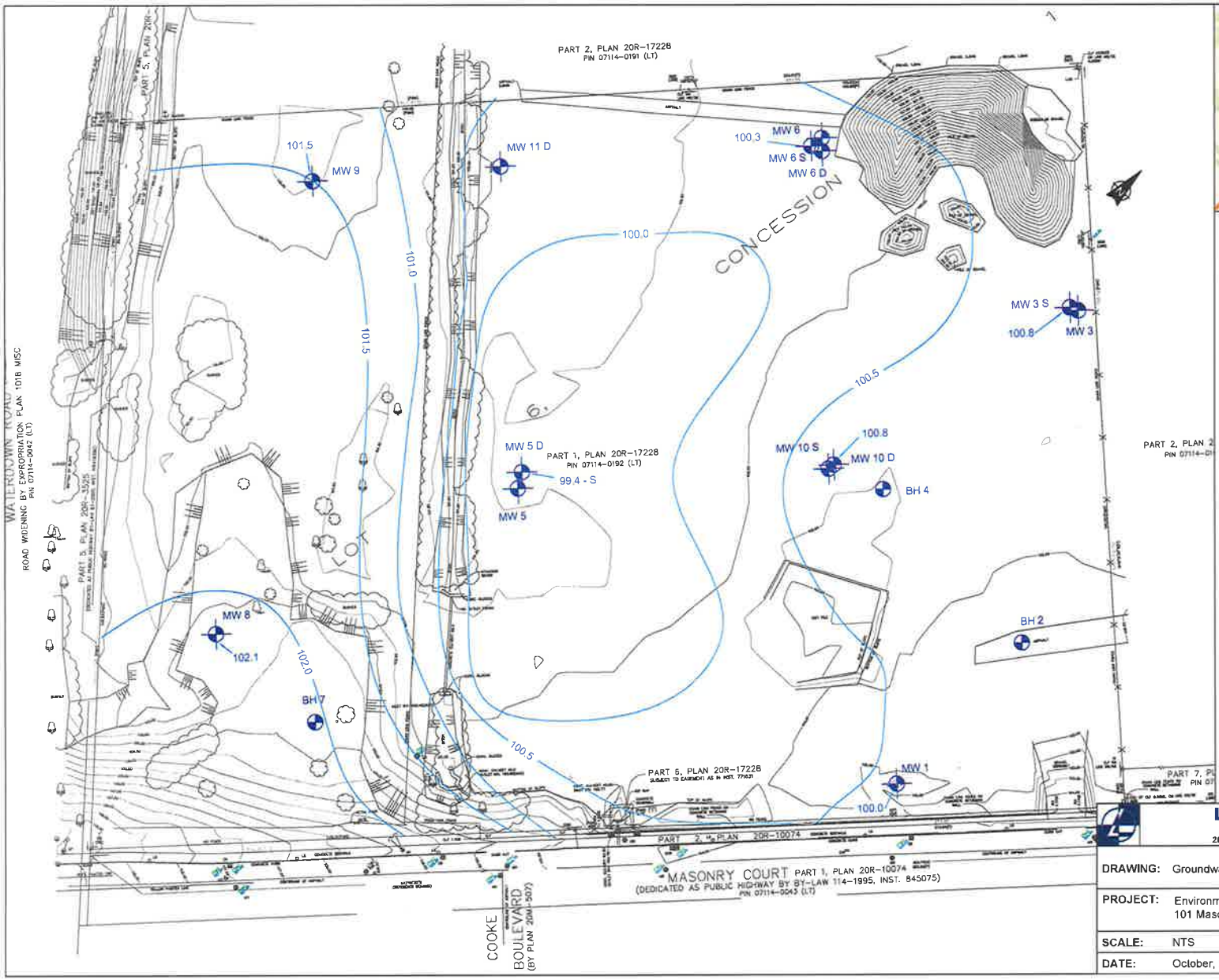
- SAND
- TILL
- FILL
- SILT
- SHALE
- Water Level (Aug. 6, 2014)
- Approximate location of verification sample for PAH, M + I, and VOC & PHC
- Approximate location of verification sample PAH (only).
- Area of Imported Soil

NOTES

1. Stratigraphy beyond borehole is inferred.
2. See Figure 9 for location of section E-E'

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Imported Soil Placement - Cross Section E - E'		
PROJECT:	Phase Two Environmental Site Assessment 101 Masonry Court, Burlington, Ontario		
SCALE:	See DWG	PROJECT NO.	14123
DATE:	March, 2016	FIGURE NO.	15





Key Plan - NTS

LEGEND

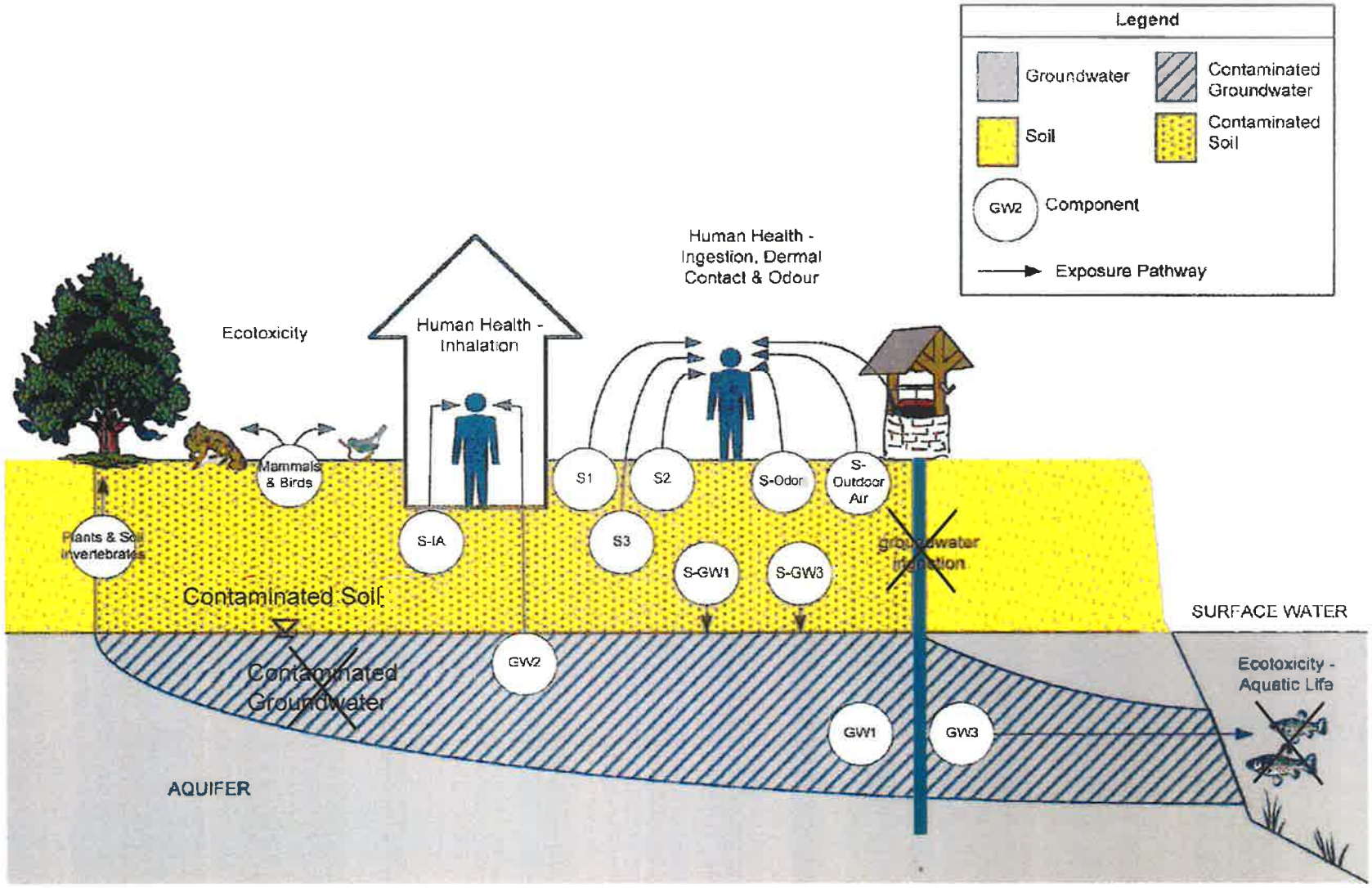
- Approximate locations of boreholes drilled by Landtek Limited.
- Approximate locations of monitoring wells installed by Landtek Limited.
- 100.5 — Groundwater Contour (masl)
- 100.8 — Groundwater Elevation (m) on August 6, 2014

NOTES

Base plan provided by KRCMAR Surveyors Ltd.

LANDTEK LIMITED
CONSULTING ENGINEERS
205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1

DRAWING:	Groundwater Contours		
PROJECT:	Environmental Site Assessment Phase Two 101 Masonry Court, Burlington, Ontario		
SCALE:	NTS	**PROJECT NO.**	14123
DATE:	October, 2014	**FIGURE NO.**	16



NOTES: No scale or orientation can be attributed to this drawing as it is only intended as a graphical representation of the potential pathways and receptors on the site. Complete descriptions of the components and pathways are provided in the Conceptual Site Model.

LANDTEK LIMITED *CONSULTING ENGINEERS* 205 NEBO ROAD, HAMILTON, ONTARIO, L8W 2E1			
DRAWING:	Pathways and Receptors		
PROJECT:	Phase Two Environmental Site Assessment 101 Masonry Court, Burlington, Ontario.		
SCALE:	NTS	**PROJECT NO.**	14123
DATE:	October, 2014	**FIGURE NO.**	17

APPENDIX H

REMEDIATION REPORT

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1.3	PERMITS	1
1.4	BASELINE AND BACKGROUND CONDITIONS	1
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1.6	FREE FLOWING PRODUCT	2
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1.0 REMEDIAL ACTIONS

1.1 Soil Excavation

Soil excavation and removal was identified as the most cost-effective and timely remedial approach for the impacts identified at the Site and was carried out by one to two excavators over a period of approximately one month. Landtek Limited was retained to oversee the excavation activities completed by King Paving during the period between August 7 to 24, 2015.

Impacted soil was identified, excavated and removed to depths of 1.5 to 2.0 metres across the eastern portion of the Site. The total quantity of impacted soil removed from the Site is estimated at approximately 20,865 tonnes (13,040 m^3) consisting of sand, silt and gravel along with 2,159 tonnes (900 m^3) of concrete. The impacted soil was transported off-Site to the Walker Environmental Landfill in Grimsby, Ontario. No soil or groundwater treatment was performed as part of the remedial activities for the Property.

Prior to soil remediation activities, a representative composite sample of the impacted soil was collected from the eastern portion of the Site submitted to AGAT Laboratories for the Toxicity Characteristic Leaching Procedure (TCLP) for metals, inorganics, benzo(a)pyrene, and VOCs according to the requirements of the receiving landfill facility. The results of the TCLP analysis indicated that the leachate quality met the Schedule 4 Criteria in O.Reg. 347 and the soils were therefore classified as non-hazardous. Results of the TCLP are included in Appendix E of the Phase Two ESA.

The excavation of impacted soil at the Property did not involve the introduction of any contaminants to the Site and no groundwater was removed during the remediation. No sediment was located on the Site. Confirmation sampling was conducted for all of the excavated areas, as discussed in Section 3.0.

1.2 Groundwater Removal/Treatment

No groundwater removal or treatment was conducted at the Phase Two Property as part of the Phase Two ESA or remediation of the Property.

1.3 Permits

No permits were required for the removal of the impacted soil from the Site.

1.4 Baseline and Background Conditions

The method of soil and groundwater remediation was excavation of the impacted soils on the Property. As such, the remediation of the Property did not involve the introduction of any contaminants to the soil or groundwater. The background conditions were established through the Phase Two ESA investigative work and through further delineation and confirmatory sampling that was conducted as the excavation proceeded.

1.5 Rationale for Groundwater Analysis

Thirteen (13) of the monitoring wells (MW1, MW3S, MW3, MW5, MW5D, MW6, MW6S, MW6D, MW8, MW9, MW10S, MW10D and MW11D that were installed as part of the Phase Two ESA prior to any remedial activities. No groundwater exceedances were detected above the MOECC Table 3 Standards with the exception MW6S which had an exceedance of sodium and chloride determined

by the QP to be attributable to de-icing activities from the upgradient property.

Metals & Inorganic, PAH, VOC, PHC parameters were analyzed during the confirmatory groundwater sampling during the Phase Two ESA investigative work prior to remedial activities.

1.6 No Free Flowing Product

No free product was observed during the Phase Two ESA or the remediation activities.

2.0 RESULTS OF CONFIRMATION SAMPLING AND ANALYSIS

Table 1 provides the schedule of chemical analyses that were conducted as part of the confirmatory soil sampling following the remedial activities at the Site for the surface and subsurface soils, respectively.

Summary of Verification Soil Samples

A total of 20,865 tonnes (13,040 m^3) of soil impacted with various metals, inorganic parameters, PAH and PHC parameters was excavated and transported off-Site to an MOECC licenced Walker Industries landfill.

- Sample locations to depths of between 0.0 m and 2.2 m of forty-nine (49) as follows, including QA/QC:
  - Forty-nine (49) samples for PAHs
  - Eleven (11) samples for metals & inorganic, VOCs (including BTEX) and PHC

Location	Depth (m bgs)		Metals and Inorganics	PHC	VOC (including BTEX)	PAH
SA(00E,00S)	0.5-1.5	wall				✓
SA(00E,20S)	0.5-1.5	wall				✓
SA(00E,40S)	0.0-0.5	wall				✓
SA(00E,60S)	0.5-1.5	wall				✓
SA(10E,10S)	2.0-2.1	floor				✓
SA(10E,30S)	2.0-2.1	floor				✓
SA(10E,50S)	2.0-2.1	floor				✓
SA(20E,00S)	1.5-1.8	wall				✓
SA(30E,50S)	2.0-2.2	floor				✓
SA(20E,70S)	1.5-1.8	wall				✓
SA(40E,70S)	1.5-1.8	wall				✓
SA(30E,10S)	2.0-2.2.	floor	✓	✓	✓	✓
SA(30E,30S)	2.0-2.2	floor	✓	✓	✓	✓
SA(45E,10S)	0.5-0.8	wall	✓	✓	✓	✓
SA(40E,40S)	2.0-2.2	floor	✓	✓	✓	✓
SA(60E,00S)	1.5-1.8	wall	✓	✓	✓	✓
SA(54E,30S)	2.0-2.2	floor	✓	✓	✓	✓
SA(55E,50S)	2.0-2.2	floor	✓	✓	✓	✓
SA(70E,10S)	2.0-2.2	floor	✓	✓	✓	✓
SA(75E,30S)	2.0-2.2	floor	✓	✓	✓	✓
SA(75E,50S)	2.0-2.2	floor	✓	✓	✓	✓
SA(80E,10S)	0.0-0.5	wall				✓
SA(90E,10S)	2.0-2.2.	floor				✓
SA(85E,30S)	2.0-2.2.	floor				✓
SA(100E,35S)	0.5-0.8	wall				✓
SA(100E,50S)	0.5-0.8	wall				✓

Location	Depth (m bgs)		Metals and Inorganics	PHC	VOC (including BTEX)	PAH
SA(100E,70S)	0.5-0.8	wall				✓
SA(70E,70S)	2.0-2.2	floor				✓
SA(85E,30S)	2.0-2.2	floor				✓
SA(50E,80S)	0.5-0.8	wall				✓
SA(50E,90S)	0.5-0.8	wall				✓
SA(60E,90S)	0.5-0.8	wall				✓
SA(70E,90S)	0.0-0.5	wall				✓
SA(90E,90S)	0.5-0.8	wall				✓

Laboratory Certificates of Analysis from all soil and groundwater samples submitted for analysis have been received by Landtek and are included in the Phase Two ESA report. The lab reports meet the requirements of S.47 (2b) and (3) of Ontario Regulation 153/04 (as amended) and are authorized for release by the lab managers.

The QA/QC results indicated that field sampling and lab protocols were satisfactory. No samples were rejected by the laboratory. The QP_{ESA} is satisfied that the overall objectives of the investigation were met and that the data set has allowed appropriate decisions to be made regarding the environmental conditions of the Phase Two Property.

The locations of the confirmatory soil sampling locations is provided in **Figure 12** of the Phase Two Conceptual Site Model. The results of the chemical analyses for the further delineation during the excavation of the impacted soil and confirmatory soil sampling are provided in Appendix D. QA/QC field duplicates were analyzed at a ratio of one duplicate per every ten samples. Refer to section 6.9 for further details on the quality assurance for the soil samples.

Remedial excavation activities were carried out within 5 m of the property boundary of the Site. No soil exceedances were reported for confirmatory soil samples collected from within the property boundaries of the Site. Figures of the Site indicating the confirmatory sampling locations, the lateral and vertical extent of the excavations at the Site and the areas of imported fill are provided in the Phase Two Conceptual Site Model provided in **Appendix H**.

3.0 SOIL EXCAVATED AT OR BROUGHT TO THE PHASE TWO PROPERTY

3.1 Soil Brought to the Phase Two Property

Soil brought to the Site was analyzed for the following parameters at a rate of 1 sample per every 160 m^3 up to 5,000 m^3, after which point the soil was analyzed at a rate of 1 sample per every 300 m^3:

- Metals & Inorganics
- Volatile organic compounds, petroleum hydrocarbons

The soil samples were manually inspected for any visual or olfactory indications of contamination. The results were compared against Table 1 Standards for non-agricultural land uses as outlined in "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (O. Reg. 153/04).

A total of 126 samples were analyzed for the imported soil source site. The samples were selected to provide coverage of the entire area of the source site. The source property is located at the southeast corner of the intersection of Dundas Street and Sutton Road site in Burlington, Ontario. Soil was transported directly from the source site to the Site.

The source site for the imported soil is currently being developed as a condominium development and was historically agricultural land. No other potentially contaminating activities were identified in the area surrounding the site. The potential contaminants of concern for the source site were therefore considered to be metals, inorganics, volatile organic compounds and/or, petroleum hydrocarbons.

Marginal exceedances were identified in soil samples from BH SS3 (7.5 m) for zinc and BH6 SS6 for barium but the average concentration for the parameters in the vicinity of the sample would be well below the Table 1 Standards.

Metals and inorganics exceedances were identified in surface soil samples for some individual parameters for samples collected from BH2 SS1 (0.6 m), BH17 SS1 (0.6 m), and BH18 SS (0.6 m), if possible, material from the surface of these location were segregated and not imported to the Site, although the average concentration of samples in the vicinity of these samples would be well below the Table 1 Standards.

The soil was imported to the Site for the express purpose of restoring the Site back to approximately the original grade to facilitate the confirmatory sampling of the groundwater at the Site following the remedial activities. The number of soil samples analyzed for the imported soil would allow for up to 25,000 m^3 of soil to be imported to the Site. A total of approximately 17,187 m^3 (approximately 30,900 metric tonnes) of silty clay soil was actually brought to the Site.

Table H.2: Schedule of Chemical Analyses (Imported Soil)

Location	Sample	Depth (m bgs)	Metals	Inorganics	VOC & PHC
BH1	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95			✓
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45			✓
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	

Location	Sample	Depth (m bgs)	Metals	Inorganics	VOC & PHC
BH2	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95			✓
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45			✓
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
	SS7	5.25-6.0	✓	✓	
BH3	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95			✓
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45			✓
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH4	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH5	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH6	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
	SS7	5.25-6.0	✓	✓	
BH7	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH8	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95			✓
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45			✓
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH9	SS1	0.75-1.2	✓	✓	

Location	Sample	Depth (m bgs)	Metals	Inorganics	VOC & PHC
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH10	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH11	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH12	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH13	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
BH14	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH15	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95			✓
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45			✓
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH16	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	

Location	Sample	Depth (m bgs)	Metals	Inorganics	VOC & PHC
BH17	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH18	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95			✓
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH19	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95			✓
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45			✓
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH20	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95	✓	✓	
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45	✓	✓	
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH21	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95			✓
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45			✓
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	
BH22	SS1	0.75-1.2	✓	✓	
	SS2	1.5-1.95			✓
	SS3	2.25-2.7	✓	✓	
	SS4	3.0-3.45			✓
	SS5	3.75-4.2	✓	✓	
	SS6	4.5-4.95	✓	✓	

Laboratory quality control data and signed Certificates of Analysis for all soil samples analyzed are shown in **Appendix C**. There were no deviations from the sampling and analysis plans with respect to holding time, temperatures, preservation method, storage requirements, or container type.

A total of 17,187 m^3 (30,900 tonnes) of soil material was also imported to the Site and placed as engineered fill in the remedial excavation at the Site. The material sourced from a native silty clay deposit and appeared to be free of deleterious materials and odours.

3.3 Stockpiles

Three (3) samples were obtained from stockpiled non-soil granular material located on Site for possible reuse on the Site. The stockpiled soil was found to meet the applicable MOE Table 1 Standards. A summary of the schedule of chemical analyses for the stockpile samples is provided in Table 5 below.

Table H.3: Schedule of Chemical Analyses (Stockpiled Soil)

Location	Metals	Inorganics
SA1-NW	✓	✓
SA2-S	✓	✓
SA3-E	✓	✓

Laboratory quality control data and signed Certificates of Analysis for all soil samples analyzed are shown in Appendix E. There were no deviations from the sampling and analysis plans with respect to holding time, temperatures, preservation method, storage requirements, or container type.

4.0 CONCLUSIONS

Based on the excavation of the impacted soil completed at the Site and the analytical results, the following summary and conclusions are provided:

- A total of 20,865 tonnes (13,040 m^3) of soil impacted with various metals, inorganic parameters, and PHC+BTEX parameters was excavated and transported off-Site to the Walker Industries Niagara Road 12 Landfill in West Lincoln, Ontario.

- The concentrations of the confirmatory floor and wall soil samples for all parameters analyzed meet the applicable MOECC Table 3 Standards.

- A total of 17,187 m3 (30,900 tonnes) of soil material was also imported to the Site and placed as engineered fill in the remedial excavation at the Site. The material sourced from a native silty clay deposit and appeared to be free of deleterious materials and odours.

Based on the results of the Phase Two ESA and the confirmatory soil and groundwater sampling, all known impacted material has been removed from the Site. The soil and groundwater remaining at the Site have concentrations of the Contaminants of Concern noted in the Phase One ESA that meet the applicable MOECC Table 3 RPI Standards. No further remedial action is recommended at this time.