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Phase Two Environmental Site Assessment

1167 Plains Road East
(Lot A)
Burlington, Ontario

Prepared for:

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472 Brock Avenue, Unit 103
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File: 20257A

October 2020

EXECUTIVE SUMMARY

Landtek Limited (Landtek) is pleased to submit the findings of the Phase One Environmental Site Assessment (ESA) report for the property located at 1167 Plains Road East in Burlington, Ontario ("the Phase One Property" or "the Site"), as shown on **Figure 1**. The work was initiated following authorization to proceed from Mr. Vince Molinaro of Molinaro Group (the Client) in August 2020.

The current land-use for the Phase One Property is vacant land. As per a request from the Region of Halton the report was completed to meet the requirements of Ontario Regulation 153/04 (O. Reg. 153/04).

O. Reg. 153/04 stipulates that for a change in land-use to a more ***sensitive*** use (i.e., from commercial to residential) a Record of Site Condition (RSC) must be prepared, filled, and acknowledged by the Ministry of the Environment, Conservation and Park (MECP). The property is currently vacant and most recent use was agricultural. Therefore in accordance with O.Reg. 153/04 the Site does not require an RSC.

SITE DESCRIPTION

The Phase One Property is comprised undeveloped parcel of land and is bounded by Plains Road East to the east followed by commercial and residential properties and Queen Elizabeth Way to the west followed by commercial properties. The Phase One Property is irregular in shape and comprises an area of 8,878.51 m^2 (0.888 hectares).

The Phase One Property is currently vacant and proposed for residential use; the Site was historically utilized for agricultural purposes.

SUMMARY OF WORK PLAN

The Phase One ESA concluded the following two potential contaminating activities (PCA) for the Site:

- **PCA-A:** Active rail line located to the immediate north of the Site (Site visit and historical aerial photographs) - Schedule D **PCA#46**

- **PCA-B:** Plains Road East (Eco-log ERIS) - Schedule D **PCA#28** Former private fuel outlet with UST to the east of Site

Based on the results of the Phase One ESA, a Phase Two ESA was recommended to investigate the areas of potential environmental concern identified.

Based on the Areas of Potential Environmental Concern (APECs) identified in the Phase One ESA, a program of soil sampling and chemical analysis for pesticides, polycyclic aromatic hydrocarbons (PAH), petroleum hydrocarbons, volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, xylenes (BTEX), metals and inorganic parameters [collectively referred to as contaminants of concern (COCs)], was proposed.

Selected soil samples from the boreholes were obtained and submitted for laboratory analysis from the native soils for the COCs identified based on field-screening vapour measurements and/or field observations.

CONCLUSIONS

Soil Quality

The soil samples collected for analysis as described in the relevant sections of this report indicate that the native soils on-Site are not adversely impacted and concentrations do not exceed the applicable O. Reg. 153/04 Table 3 SCS.

Groundwater Quality

The results of the groundwater analysis from the monitoring well BH(MW)2 sampled was reported to be meet the O. Reg. 153/04 Table 3 SCS for VOC (including BTEX) and PHC.

RECOMMENDATIONS

Based on the results of this Phase Two ESA, no further work is required on the Site.

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1.0 INTRODUCTION

Landtek Limited (Landtek) is pleased to submit the findings of the Phase One Environmental Site Assessment (ESA) report for the property located at 1167 Plains Road East in Burlington, Ontario ("the Phase One Property" or "the Site"), as shown on **Figure 1**. The work was initiated following authorization to proceed from Mr. Vince Molinaro of Molinaro Group (the Client) in August 2020.

The current land-use for the Phase One Property is vacant land. As per a request from the Region of Halton the report was completed to meet the requirements of Ontario Regulation 153/04 (O. Reg. 153/04).

O. Reg. 153/04 stipulates that for a change in land-use to a more ***sensitive*** use (i.e., from commercial to residential) a Record of Site Condition (RSC) must be prepared, filled, and acknowledged by the Ministry of the Environment, Conservation and Park (MECP). The property is currently vacant and most recent use was agricultural. Therefore, in accordance with O.Reg. 153/04 the Site does not require an RSC.

1.1 Site Description

The Phase Two Property is currently vacant and proposed for residential use; the Site was historically utilized for agricultural purposes.

1.2 Property Ownership

The Phase One Property is comprised undeveloped parcel of land and is bounded by Plains Road East to the east followed by commercial and residential properties and Queen Elizabeth Way to the west followed by commercial properties. The Phase One Property is irregular in shape and comprises an area of 8,878.51 m^2 (0.888 hectares).

The Phase One Property is currently vacant and proposed for residential use; the Site was historically utilized for agricultural purposes

1.3 Applicable Site Condition Standards (SCS)

Under the O. Reg. 153/04, Part XV.1 of the Environmental Protection Act, the selection of SCS, against which laboratory results are compared, is based on a number of criteria. The SCS are published in the Ontario Ministry of the Environment, Conservation and Parks (MOE) Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act dated April 15, 2011.

Landtek considered the following criteria for the selection of the applicable SCS for the Site:

- Land Use: The current land is commercial, while the intended land-use for the property is reported to be residential. The more sensitive land-use (i.e., "residential") was considered the intended land-use;
- Potable or non-potable groundwater: The Site and the Study Area are supplied with municipal water; there is a potential that potable wells may be located in the area, therefore, at this time potable groundwater standards currently apply. The municipality has not been notified a Phase Two ESA was completed using non-potable standards;
- Proximity to surface water body: The Phase Two Property *greater than* located within 30 metres (m) of a waterbody.
- Proximity to areas of natural significance or environmentally sensitive areas: The Site is not

considered to be within the proximity of an environmentally sensitive area based on the information reviewed as part of the Phase One ESA completed for the Site;

- Depth to bedrock: The depth to bedrock is considered to be greater than 2 m and therefore, the Phase Two Property is not considered a shallow soil property;
- For the purposes of this assessment the pH was found to be within the allowable limits and therefore, the Site is not considered to be an environmentally sensitive area; and,
- Soil texture: Based on the results of grain size analysis completed on the Site and the subsurface conditions encountered, the soil texture is considered to be fine to medium textured as defined in O. Reg.153/04.

Based on the above information the Ontario Regulation (O. Reg.) 153/04 *Table 3 SCS Generic Site Condition Standards For Use greater that 30 m of a Waterbody in a Non-Potable Ground Water Condition and Residential/Parkland property use (O. Reg. 153/04 Table 3.SCS)* were selected as the applicable standards for the Phase Two Property.

2.0 BACKGROUND INFORMATION

2.1 Physical Setting

Geological and Hydrogeological information sources were reviewed to determine the nature of the subsurface strata on Site.

Based on a review of an existing geological publication for the site area, Ontario Geological Survey (OGS) Map 2509: "*Quaternary Geology of the Hamilton Area*", the site is underlain by a veneer of lacustrine and outwash sand deposits. These deposits generally comprise sands and silty sands. Underlying the sand deposits is clay or silt till, identified as a sequence of the Halton Till.

According to the OGS Map 2336 "*Paleozoic Geology of the Hamilton Area*", the superficial geology is underlain by red shale bedrock of the Queenston Formation. Previous geotechnical investigation undertaken in the vicinity of the site indicates that shale bedrock is at shallow depths beneath the site (i.e. less than 5 m below existing ground level).

Information provided by a large number of historical borehole records from within the vicinity of the site, and held by the OGS, generally confirms the anticipated geological conditions beneath the site. Based on the data from records for boreholes, located approximately 100 m of the site, the superficial soil profile confirms the presence of silt or clay till underlying sand deposits to a depth of approximately 10 m. Red shale bedrock is reported underlying the till deposits.

The nearest open water feature is Lake Ontario, located approximately 1.5 km south of the project site.

According to the Ontario Geological Survey (OGS) for wells located within approximately 100 m of the site, static groundwater was reported at about 4.5 m below existing ground level in monitoring well BH(MW)2. This given, groundwater is anticipated as a perched regime at a shallow depth, associated with the superficial deposits overlying the anticipated residual soils of the weathered bedrock. Static groundwater levels within the deeper shale bedrock were not reported in any of the publically available information in the vicinity of the site.

2.2 Previous Investigations

In August Landtek was retained by the Client, to prepare a Phase One ESA report for the Site, titled "Phase One Environmental Site Assessment, 769-783 Brant Street and 2023-2033 Ghent Avenue Burlington, Ontario, dated September 2020" (Phase One ESA). The Phase One ESA was conducted to assess the environmental liability, if any, associated with the Site.

The Phase One ESA concluded the following three (3) potential contaminating activities (PCA) for the Site:

- **PCA-A:** Active rail line located to the immediate north of the Site (Site visit and historical aerial photographs) - Schedule D **PCA#46**

- **PCA-B:** Plains Road East (Eco-log ERIS) - Schedule D **PCA#28** Former private fuel outlet with UST to the east of Site

Based on the results of the Phase One ESA, a Phase Two ESA was recommended to investigate the areas of potential environmental concern identified.

3.0 SCOPE OF THE INVESTIGATION

The Phase Two ESA was carried out address the APECs identified in the Phase One ESA.

A summary of information on the PCAs, their locations and associated APECs and CPCs identified in the Phase One ESA are shown on **Figure 1** and **Figure 2** and are presented in **Table 2**.

This investigation was completed in conjunction with a geotechnical and hydrogeological assessment (reported under sperate covers). As such, Landtek installed boreholes/monitoring wells across the entire Site to obtain soil samples, including near the water table and the installation of monitoring wells to obtain groundwater levels. The boreholes/monitoring wells proposed for the Phase Two ESA corresponding to each of the APECs are also presented in **Table 2** which provides the rationale for the work proposed. The investigation locations are shown on **Figure 3**.

The following is a summary of the PCA, PCA location, and associated APEC identified:

Table 2: PCA and APECs

APEC [1]	Location of APEC on the Phase One Property	PCA [2]	Location of PCA (on-site or off-site)	Contaminants of Potential Concern [3]	Media Potentially Impacted (groundwater, soil, and/or sediment) [4]
APEC A	North side of the Site	46. Rail yards, tracks and spurs	Off-Site	Metals and As, Sb, Se, Hg, CN- EC, SAR, pH, PAHs	Soil
APEC B	South side of the Site	28, Gasoline and Associated Product Storage in Fixed Tanks	Off-Site	BTEX and PHC	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 (PCA) 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
4 - Media Potentially Impacted refers to soil, groundwater, surface water or sediment.
Metals - metals including hydrides (As, Sb, Se, Hg)
PHCs – petroleum hydrocarbons fractions F1-F4
VOCs – volatile organic compounds
BTEX – benzene, toluene, ethylbenzene and xylenes

4.0 METHODOLOGY

The field work was implemented in accordance with the Sampling and Analysis Plan (SAP). The SAP was prepared based on the APEC identified on the Site and the corresponding PCAs, CPCs, and other potentially contaminating issues. The field work for this Phase Two ESA was carried in September 2020.

This investigation was completed in conjunction with a geotechnical and hydrogeological assessment (reported under sperate covers). As such, Landtek proposed boreholes/monitoring wells on the Site to obtain soil samples, including near the water table and the installation of monitoring wells to obtain groundwater levels.

The analytical program presents information on the sampling locations, media sampled, sample depths and analytical parameters for which samples were analysed. The rationale for the sampling and analysis is presented in **Section 3.0**.

Landtek retained experienced contractors for the drilling activities. Landtek field staff, were briefed prior to commencement of the field work by the Project Manager and the Project QP_{ESA}. Field staff were responsible for supervising field activities, logging the soils during the drilling activities, monitoring the depth of drilling and installation of monitoring wells, soil and groundwater sampling, and sorting and dispatch of samples under chain of custody documentation to the contract laboratory.

4.1 Drilling

As indicated in **Section 3.0**, Landtek used borehole drilling and groundwater monitoring well installations to conduct characterisation of the soil and groundwater at the Site. The details of borehole drilling and installation of groundwater monitoring wells in the boreholes are discussed in the sections below.

4.1.2 Borehole Drilling and Monitoring

Three boreholes – BH1, BH2 and BH3 (geotechnical, hydrogeological and environmental) and one shallow soil sample adjacent to rail line designated as RL were drilled on the Site in August and September 2020; one borehole was installed as groundwater monitoring wells BH(MW)2.

The boreholes were drilled using a track-mounted drilling rig equipped with continuous flight, solid stem augers, and were advanced to depths of maximum of 15.4 m below existing ground level. Standard Penetration Tests (SPT's) and split spoon samples were taken during drilling at selected depths. Full time supervision of drilling and soil sampling operations was carried out by a representative of Landtek.

The soil was logged by qualified Landtek personnel using the Unified Soil Classification System (USCS) Standard Practices for Description and Identification of Soils, Visual Manual Procedure (ASTM D2488-09a), noting stratigraphy, subsurface conditions, and any physical evidence of soil quality impacts. Borehole logs are presented in **Appendix B.**

4.2 Soil Sampling

Each borehole was logged and information recorded including drilling date, depth, headspace vapour concentrations, soil descriptions and measured depth to groundwater, (if encountered). Borehole soil samples were collected at discrete intervals using standard split spoon samples. Soil sampling locations were selected based on observations and field-screening (e.g., vapour readings, unique soil characteristics or visible staining).

Each soil sample taken was split into two (2) portions; one (1) portion was placed into laboratory-supplied sample jars for potential laboratory submission, and the other portion was placed in a sealable plastic bag for field-screening vapour measurement. PHC F1 and VOC samples were collected using a Terracore syringe pre-calibrated to deliver approximately 5 grams of wet weight soil and placed in laboratory-prepared methanol vials. All other soil samples, including those to be analysed for the remaining organic and metal parameters, were collected in laboratory-supplied containers.

Samples were stored on ice until delivery to ALS Environmental following standard chain-of-custody protocols. The soil samples selected for analysis were analyzed for selected COCs. The parameters included the measurement of pH which is required for the selection of the appropriate Site Condition Standards.

Borehole/monitoring well logs (**Appendix B**) provide a geologic description of overburden samples and the depths at which they were collected during the investigation.

4.3 Field Screening Measurements

Field-screening vapour measurements were conducted using an RKI Eagle 2 portable instrument fitted with two (2) sensors: one (1) for detection of hydrocarbons/combustibles and the other a photoionization detector (PID) for detection of volatile organic compounds. The instrument was supplied by Landtek and was calibrated prior to use with hexane and isobutylene span gases.

Each soil sample taken for screening was placed in a sealable plastic bag for field-screening vapour measurement. Prior to taking the field-screening vapour readings, the soil within the sealed plastic bags was agitated and allowed to equilibrate for a minimum of 30 minutes at 15°C or greater. The vapour measurements were collected by inserting the collection tube of the Eagle 2 into the plastic bag.

The frequency of field screening measurements during the drilling investigation was approximately 0.6 m intervals.

4.4 Groundwater: Monitoring Well Installation

One groundwater monitoring wells BH(MW)2 were installed on the Site, to a maximum drilling depth of approximately 13.9 m bgs as part of the hydrogeological investigation.

The monitoring wells were constructed using polyvinyl chloride (“PVC”) well screens (3m lengths) and PVC riser pipe finished at grade. The well screens were installed in an attempt to straddle the apparent water table (if encountered). The elevations of the ground surface and the top of the groundwater monitoring wells were determined via an elevation survey (as discussed in **Section 4.7**). All wells were monument or flush mounted protective steel caps/casings.

Monitoring wells were installed in accordance with O. Reg. 903, as amended, for the purposes of assessing groundwater quality at the Site. Monitoring wells were constructed using 51 mm inside diameter (ID) Schedule 40 polyvinyl chloride (PVC) pipe. The well screens were installed to attempt to straddle the apparent water table (if encountered). All sections were machined with fine threaded flush joints to avoid the use of PVC glue and primer for connections as these bonding materials have the potential of introducing traces of organic contaminants.

The screened sections of PVC pipe were manufactured with No. 10 (0.25 mm) machined slotting. Solid lengths of PVC pipe were used above the screened interval (i.e., riser pipe). Cleaned silica sand (10/20 size) was placed around the screen to a minimum level of 0.10 m above the top of the screen. Bentonite (hydrated with tap water) was used to backfill the borehole above the sand to create a well seal. Monitoring wells were designed to be installed with screens completed in discrete lithology units to investigate potential groundwater impacts within these units. Groundwater monitoring wells were finished with locking J-Plug caps and completed using flushmount protective casings.

Monitoring well locations are shown on **Figure 3**. Monitoring well construction details are presented in the borehole logs presented in **Appendix A**.

4.5 Groundwater Sampling

4.5.1 Monitoring Well Development

Prior to sampling, monitoring wells were developed using a foot-valve inertial pump technique to minimize sediment in the well. Well development was considered complete when a minimum of three (3) well volumes had been purged or when the well was purged to dryness at least three (3) times after a minimum 90% water level recovery.

4.5.2 Water Level Measurements

The depth to groundwater and total well depths were measured using a clean and calibrated electronic interface probe. The relative elevations were calculated by subtracting the measured groundwater depth from the surveyed top of the casing elevation.

To prevent cross-contamination, the interface probe was cleaned with a laboratory-grade phosphate-free detergent and distilled water solution, before each use and in between each well. All water level measurements were taken from the top of the well riser pipe.

4.5.3 Groundwater Sample Collection

As discussed on **Section 2.2**, based on the results of the Phase One ESA completed for the Site APECs were identified; however, the identified media impacted did not include groundwater.

Groundwater sampling was carried out oin October 2020. Landtek collected one groundwater (1) sample obtained from BH(MW)2, which was part of the hydrogeological investigation.

The sample was placed into laboratory-supplied containers and stored on ice in coolers for transport and delivery to ALS Environmental under a chain of custody protocol.

4.6 Analytical Testing

Laboratory analysis was carried out by ALS Environmental. The parameters for which samples were analysed were selected based on the SAP and field conditions encountered. The laboratory is accredited by the Canadian Association for Laboratory Accreditation (CALA). The methods used for analysis were consistent with those stipulated in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. The Analytical Program and laboratory certificates are provided in **Appendix B**.

Based on the Areas of Potential Environmental Concern (APECs) identified in the Phase One ESA, a program of soil sampling and chemical analysis for pesticides, polycyclic aromatic hydrocarbons (PAH), petroleum hydrocarbons, volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, xylenes (BTEX), metals and inorganic parameters [collectively referred to as contaminants of concern (COCs)], was proposed.

4.7 Quality Assurance and Quality Control (QA/QC) Measures

All field work was performed following Landtek's Standard Operating Procedures (SOPs), which were developed in accordance with O. Reg. 153/04, as amended and included the following:

- Appropriate measures to avoid cross contamination and carry out decontamination where necessary, collection of all samples in laboratory provided containers, and placement of containers in coolers containing ice;

- The SAP, field conditions, as documented on the borehole results of field screening, were reviewed to confirm that the appropriate samples were selected for laboratory analysis and that samples were scheduled for analysis of the required chemical parameters;

- The samples listed on the chain-of-custody form were cross-checked with the samples being shipped to the contract laboratory. A further check was carried out to ensure that the relevant analytical parameters had been requested for analysis;

- All coolers contained ice packs along with the sample containers to maintain the minimum temperature required on arrival at the contract laboratory;

5.0 REVIEW AND EVALUATION

5.1 Geology

Geological and Hydrogeological information sources were reviewed to determine the nature of the subsurface strata on Site.

The Ontario Geology Survey has a web application, OGS Earth, which provides geoscience data, collected by the Mines and Minerals division, which can be viewed using user-friendly geographic information programs such as Google Earth. The Surficial Geology and Bedrock Geology applications were reviewed to determine the geologic characteristics mapped at the Site. A review of this data as well as MOE water well records indicate that the predominant Quaternary geology at the Site likely consists of deposits of silt and silty clay overlying limestone, dolostone, siltstone and shale bedrock of the Queenston Formation.

The detailed borehole logs are presented in **Appendix A**, with the ground conditions encountered by the boreholes discussed in the following sections.

Topsoil

An approximately 100 mm thick layer of organic soil was encountered from ground surface in all the boreholes. The organic soil thicknesses may vary across the site, and the thicknesses measured at the borehole locations may not be representative of the topsoil depth throughout the site.

Fill

Fill materials were encountered in all boreholes underlying the topsoil and extend of depths of between 1.5 m (boreholes BH1 and BH2) and 2.3 m (borehole BH3). The fill materials generally comprised either silty clay to clayey silt or silty sand. The fill materials also include trace fractions of demolition rubble (red brick), gravel, and rootlets.

Sand

A veneer of native sand was encountered in boreholes BH1 and BH2 underlying the fill and extends to depths of approximately 1.5 m below existing ground level. The sand was observed to be brown in colour and is generally fine to coarse grained. The sand contains some silt and trace fractions of gravel and cobbles.

Silty Clay to Clayey Silt Till

Silty clay to clayey silt till was encountered in all boreholes underlying the sand deposits and extends to depths of between approximately 14.3 m and 15.4 m below existing ground level. The till contains traces of gravel and red shale and is generally grey in colour.

Bedrock

Red shale of the Queenston Formation was encountered in all boreholes underlying the till deposits at depths of between approximately 14.3 m and 15.4 m below existing ground level.

The shale is generally weak and highly to slightly weathered on initial contact, being recovered and behaving as a "*residual soil*" and becomes more competent with depth.

5.2 Groundwater: Elevations and Flow Direction

Based on the Site geology information presented in **Section 5.1**, the main hydrogeological unit that was investigated at the Phase Two Property was the shallow groundwater table, present within the clayey silt till on the Site.

Table 3: Depth to Groundwater and Groundwater Elevation Summary

Location	Date	Depth to Groundwater (m bgs)	Relative Elevation of Ground Surface (mASL)	Relative Elevation of Groundwater (mASL)
BH(MW)2	21-Sep-20	4.63	97.79	93.16
	24-Sep-20	4.56		93.23

The inferred groundwater flow direction is towards the east to northeast towards Hager Creek.

5.3 Soil: Field Screening

Results of field screening ranged from 0 ppm (non-detect) (various) to 5 ppm.

5.4 Soil Quality

The results of the laboratory analysis of the soil samples analysed have been compared with the Table 3 SCS (residential, coarse textured soils) and are presented in **Table 2**. Laboratory certificates are presented in **Appendix B**.

The schedule of chemical testing and the summary of test results for soils are shown in **Table 4**. Samples were selected based on location and depth of potential areas of concern as well as olfactory or vapour reading indicators, where possible.

Table 4: Schedule of Chemical Analyses and Summary of Test Results for Soils

Sample	Depth (mbgs)	Analyses	Exceedances*		
			Parameter	Sample Results (µg/g)	Table 3 SCS** (µg/g)
RL	0 to 0.3	metals & inorganic PAH	--	No exceedance	--
BH1 SS1	0 to 0.6	metals & inorganic pesticides	--	No exceedance	--
BH1 SS2	0 to 0.6	VOC & PHC F1-F4	--	No exceedance	--
BH(MW)2 SS1	0 to 0.6	metals & inorganic pesticides	--	No exceedance	--
BH(MW)2 SS6	4.5 to 5.0	VOC & PHC F1-F4	--	No exceedance	--
BH3 SS1	0 to 0.6	metals & inorganic pesticides	--	No exceedance	--
BH3 SS5	3.0 to 3.5	VOC & PHC F1-F4	--	No exceedance	--

** Sample results compared with *Soil, Ground Water, and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act', April 2011. O. Reg. 153/04 Table 3 RPI land use standards*

RPI – Residential/Parkland/Institutional land-uses

There were no elevated levels or exceedances of the O. Reg. 153/04 Table 3 SCS for SCS for metals (including Hg, hydrides (As, Se, Sb) and Inorganics in the soil samples submitted.

5.4 Groundwater Quality

The results of the groundwater analysis from the monitoring well (BH(MW)2) was reported to exceed the O. Reg. 153/04 Table 3 SCS. The schedule of chemical testing and the summary of test results for groundwater are shown in **Table 5**.

Table 5: Schedule of Chemical Analyses and Summary of Test Results for Groundwater

Sample	Sample Date	Analyses	Exceedances		
			Parameter	Sample Results	Table 3 SCS**
BH(MW)2	15 Oct 20	PHCs F1-F4/VOCs	--	**No exceedances**	--

****** Sample results compared with *Soil, Ground Water, and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act', April 2011. Table 3 RPI land use standards*
PHC F1-F4 – Petroleum Hydrocarbons Fractions F1-F4
VOCs – Volatile Organic Compounds

5.5 QA/QC Results

The following pairs of duplicate samples were submitted to the laboratory for analysis of selected COCs. Duplicates: Soil and groundwater duplicate samples were analysed for a range of COCs.

The Relative Percent Differences (RPD) were calculated between the parent and duplicate samples using the following formula:

$$\left|\frac{C_o - C_s}{(C_o + C_s)/2}\right| \times 100$$

Where:
Co = concentration of the original/parent sample; and,
Cs = concentration of the duplicate sample.

Groundwater RPDs ranged from 0% to 20%, while soil RPDs ranged from 25% to 0%. Based on the absolute concentrations and the nature of the matrix, the RPD results between all the primary and duplicate samples analysed are considered to be acceptable.

The reported recoveries in the matrix spike analysed along with the batch of groundwater samples were considered to be acceptable and demonstrates that there was a minimum loss of volatiles during the sampling, handling and transport of samples to the laboratory.

In addition to the field quality control samples, the analytical laboratory has its internal QA/QC programs to verify the acceptance of the data generated. The results of the laboratory QA/QC program are presented in the Laboratory Certificate of Analysis provided in **Appendix B**.

The overall QA/QC results are considered to be acceptable and support the reliability of the results of the field samples analysed.

6.0 RESULTS AND CONCLUSIONS

6.1 Soil Quality

The soil samples collected for analysis as described in the relevant sections of this report indicate that the soils on-Site are not adversely impacted and concentrations do not exceed the applicable O. Reg. 153/04 Table 3 SCS.

6.2 Groundwater Quality

The results of the groundwater analysis from the monitoring well BH(MW)2 sampled was reported to be meet the O. Reg. 153/04 Table 3 SCS for VOC (including BTEX) and PHC.

6.3 Conclusions

Based on the results of this Phase Two ESA, no further work is required on the Site.

6.4 Signatures

We trust this report is satisfactory for your 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}

7.0 LIMITATIONS

This report was prepared for the exclusive use of the Client. It is intended to provide an assessment of the soil and groundwater conditions with respect to potential contamination prevailing at the time of the assessment. Any use of this document by any party other than the Client is at the sole risk of such user. Any reliance upon this report by any party other than the Client requires the prior written approval of Landtek Limited.

Landtek does not provide any warranty, expressed or implied, that this assessment has identified all potential contaminants at the Site or that the Site is free from any and all contamination from past or current practices other than noted, nor that all issues of environmental compliance have been addressed. The assessment of environmental conditions and potential hazards at the Site has been made using the historical information that supported the preparation of the Phase Two Environmental Site Assessment, on which the scope of this investigation was based, as well as the results of chemical analysis of soil and groundwater samples collected at the tested locations at the time of this investigation. The report must be considered in its entirety and no assurance is made regarding changes in conditions subsequent to the time of investigation.

The Site conditions have been inferred based on conditions observed at a limited number of sampling locations in accessible areas; however, it should be noted that conditions between and beyond sampling locations may vary. In addition, the assessment is dependent upon the accuracy of the analytical data generated through sample analysis and is limited to determining the presence of contaminants for which analysis have been conducted. Findings derived from this Phase Two Environmental Site Assessment are limited and Landtek Limited cannot state that areas of the Site, or neighbouring properties, or portion thereof, are unaffected by the contaminants of concern. The Client still bears risk that such contaminants may be present on or may migrate to or off the property after the time of this investigation. Landtek Limited is not responsible for any follow-up action and /or costs.

In evaluating the Property, Landtek Limited has relied in good faith on information provided by individuals and companies noted in this report. We assume that the information provided is factual and accurate and Landtek Limited has not independently confirmed any such information.

8.0 REFERENCES

- Ontario Regulation 153/04, as amended by O. Reg. 511/09;
- Provincial Topographic Map – Ontario Base Mapping Data, Ontario Ministry of Natural Resources, 2010;
- Area of Natural and Scientific Interest Map, Ontario Ministry of Natural Resources, March 2017;
- The Surficial Geology of Southern Ontario Map, Ontario Geological Survey, 2010;
- Physiography of Southern Ontario Map, Ontario Geological Survey, 2007;
- *Bedrock Geology of Ontario, Southern Sheet*; Ontario Geological Survey, Map 2544, Scale 1: 1,000,000, 1991; and,
- *Quaternary Geology of Southern Ontario, Southern Sheet*, Map 2556, Scale 1:1,000,000, Ministry of Northern Development and Mines, Queen's Printer for Ontario, 1991.

Websites

http://maps.google.ca/maps
http://map.hamilton.ca/iMapper.aspx
https://library.mcmaster.ca/maps/airphotos/
https://www.ontario.ca/page/make-natural-heritage-area-map
http://www.giscoeapp.lrc.gov.on.ca/matm/Index.html?site=Make_A_Topographic_Map&viewer=MATM&locale=en-US

http://www.gisapplication.lrc.gov.on.ca/services/COSINE/Remote/095a080b_e87a_43a8_8579_dba14759aa7d.html?print=true

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 determined at the borehole locations. Subsurface conditions, ground water conditions and contaminant concentrations between and beyond the boreholes may be different from those encountered at the borehole locations, and conditions may become apparent during construction that could not be detected or anticipated at the time of the subsurface investigation. It is recommended practice that Landtek be retained during construction to confirm that the subsurface conditions throughout the site are consistent with the conditions encountered in the boreholes.

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.

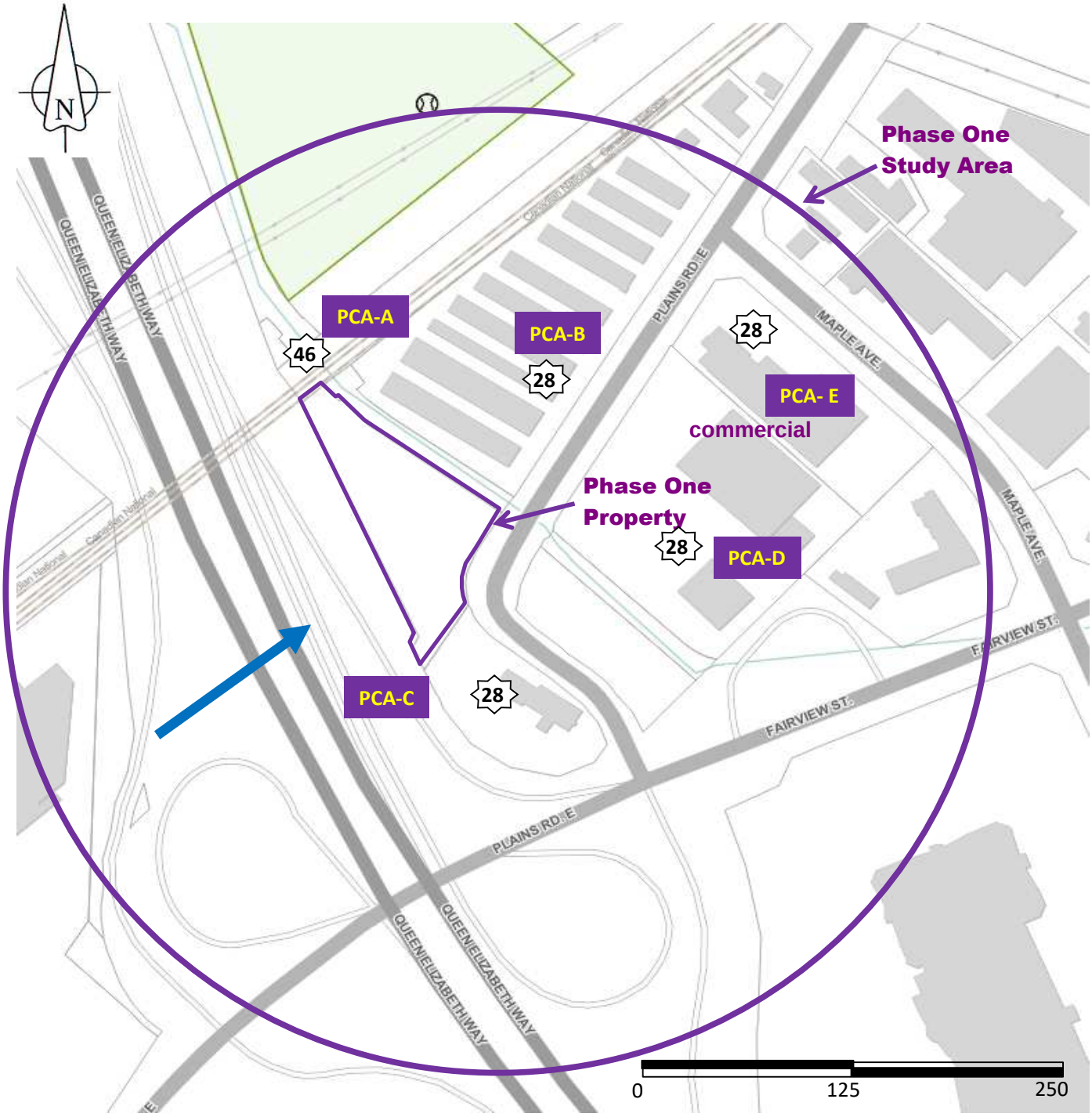
The site history performed herein relies on information supplied by others, such as local, provincial and federal agencies as other consultants. No attempt has been made to independently verify the accuracy of such information, unless specifically noted in our report.

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.

Qualifications

Investigative assessment work was conducted by Ms. Nicole Harper, H.B.Sc., who has over 10 years of related environmental assessment experience including completion of numerous Phase One and Two ESA's and Site Remediation activities.

Mr. Paul J Blunt, P.Eng. is a Senior Environmental Engineer with Landtek and has conducted and supervised Phase One ESAs for more than 20 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 Phase One Environmental Site Assessments over 1500 environmental site assessments on a variety of agricultural, residential, industrial, commercial and industrial properties. Mr. Blunt also has extensive experience in conducting Phase Two Environmental Site Assessments and is therefore familiar with how to assess potential concerns identified during the Phase One ESA. Mr. Blunt has conducted and supervised environmental projects throughout Canada, the United States and Australia.

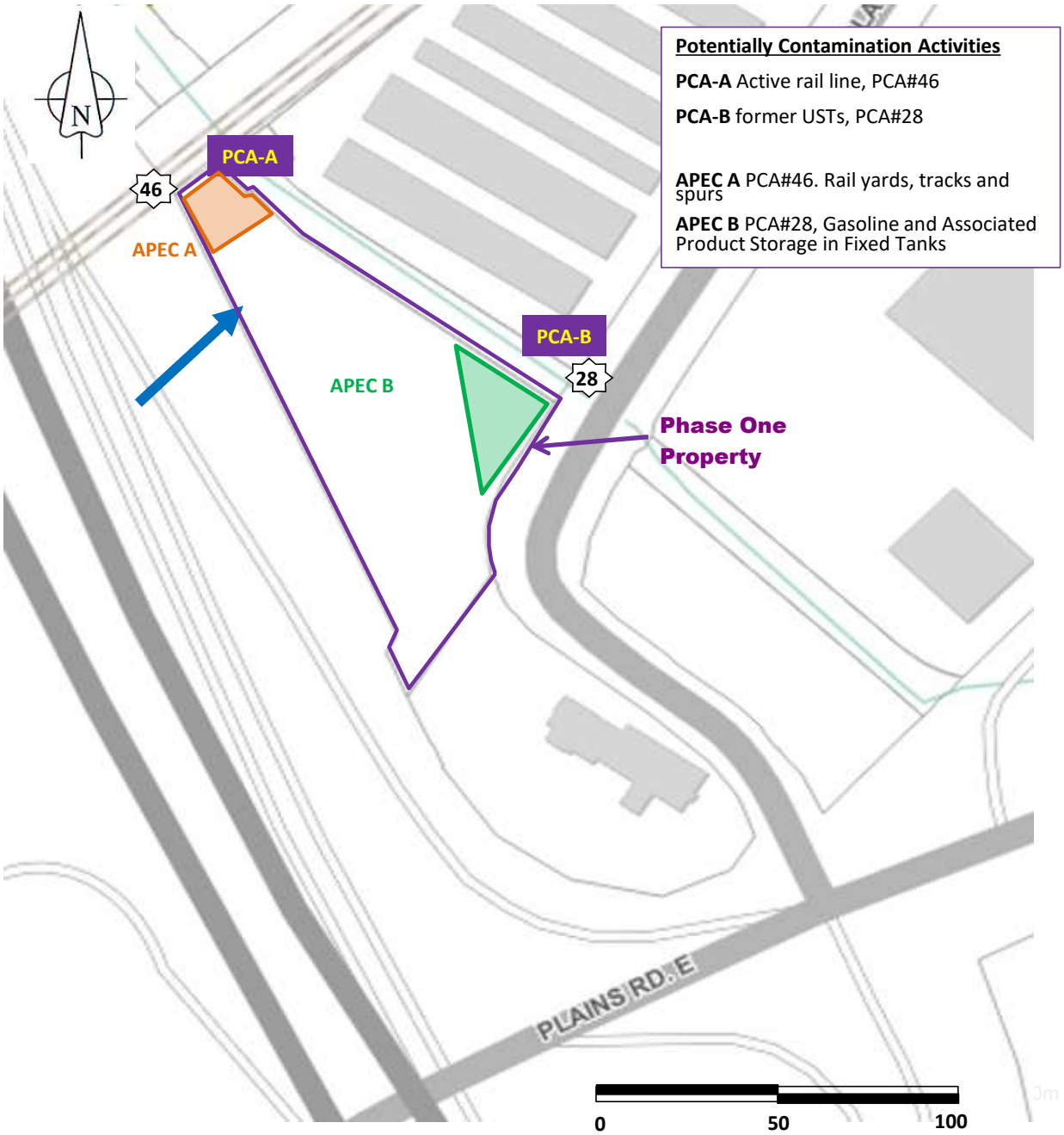


Potentially Contamination Activities

PCA-A	Off-Site, rail line and spurs, PCA#46
PCA-B	Off-Site, historical USTs, PCA #28
PCA-C	Off-Site, historical USTs, PCA #28
PCA-D	Off-Site, historical USTs, PCA #28
PCA-E	Off-Site, historical USTs, PCA #28

LANDTEK LIMITED

Scale:	Date: September 2020
Project:	Phase One ESA 1167 Plains Road East Burlington, Ontario
Title:	Dwg 1 - Site Location Plan
Project No. 20257A	



Potentially Contamination Activities

PCA-A Active rail line, PCA#46

PCA-B former USTs, PCA#28

APEC A PCA#46. Rail yards, tracks and spurs

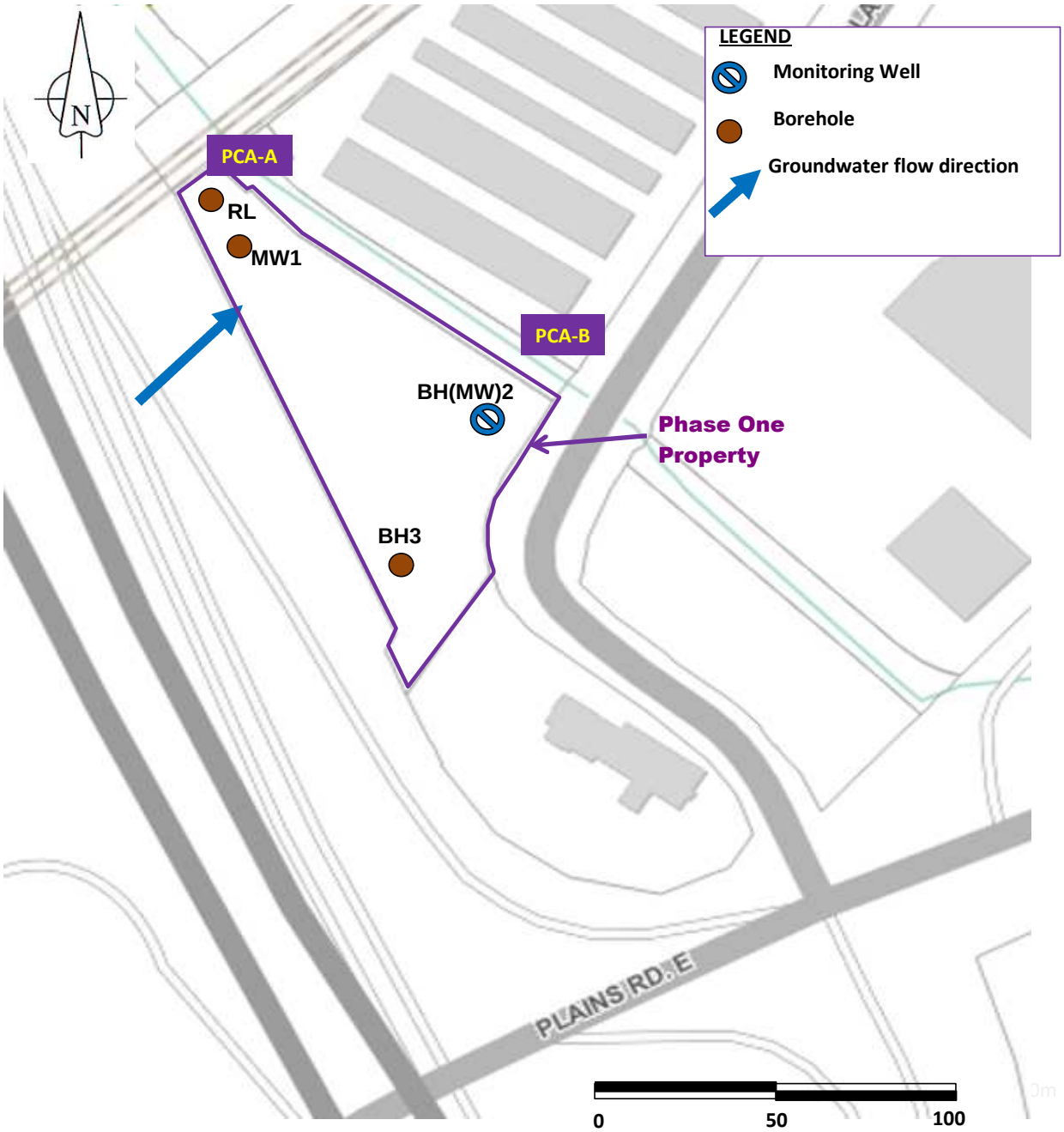
APEC B PCA#28, Gasoline and Associated Product Storage in Fixed Tanks

Potentially Contamination Activities

PCA-A Off-Site, rail line and spurs, PCA#46

PCA-B Off-Site, historical USTs, PCA #28

LANDTEK LIMITED	
Scale:	Date: September 2020
Project:	Phase One ESA 1167 Plains Road East Burlington, Ontario
Title:	Dwg 2 - PCAs & APECs
Project No. 20257A	



-

LANDTEK LIMITED	
Scale:	Date: September 2020
Project:	Phase One ESA 1167 Plains Road East Burlington, Ontario
Title:	Dwg 3- Boreholes & monitoing wells
Project No. 20257A	

APPENDIX A

BORHOLE LOGS

Landtek Limited

BH 1

Project No.:	20258A	Drill Date:	September 8, 2020
Project:	Hydrogeological and Geotechnical Investigation	Drill Method:	[x] solid stem [x] rock coring
Location:	1167 Plains Road East, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. / Depth	Samples No.	Samples Type	SPT "N" Value	Soil Moisture (%)	GWL	Monitor Details	Test Data
Ground Surface		97.40							
±100 mm of topsoil		0.0	1	SS	25				
CLAYEY SILT TILL: trace gravel, trace red shale fragments, stiff, moist			2	SS	10				
			3	SS	45				
grey, trace gravel, red shale fragments very hard, moist		7.6							
grey, trace gravel, stiff		9.2	3	SS	52				
grey, trace gravel, hard, very moist		10.0	5	SS	40				
SHALE BEDROCK highly weathered, red, hard		13.8	6	SS	50 /25mm				
END OF BOREHOLE AT TARGET DEPTH		15.6							

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

Soil Moisture (%) scale: 0 25 50

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 -13.5 -14.0 -14.5 -15.0 -15.5 -16.0 -16.5 -17.0

Notes:

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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Landtek Limited

BH/MW 2

Project No.:	20258A	Drill Date:	August 26, 2020
Project:	Hydrogeological and geotechnical Investigation	Drill Method:	[ ] solid stem [x] hollow stem [x] Coring
Location:	1167 Plains Road East, Burlington, Ontario	Datum:	Geodetic (Approximate)

Material Description	Symbol	Elev. Depth	Samples No.	Samples Type	SPT "N" Value	Soil Moisture (%)	GWL	Monitor Details	Test Data
Ground Surface		97.79							
FILL: silty clay, trace rock, trace asphalt moist		0.0	1	SS	25				
			2	SS	10				
SILTY SAND: brown, moist to wet		1.4	3	SS	51				
			4	SS	21				
SILTY CLAY (TILL): grey, hard, wet		3.0	5	SS	23				
			6	SS	26				
red shale fragments, trace stones, moist		5.5	7	SS	38				
			8	SS	37				
			9	SS	60				
			10	SS	16				
SHALE BEDROCK highly weathered, red, very hard moist		14.0	11	SS	50/25 mm				
END OF BOREHOLE AT TARGET DEPTH		23.5							

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 -10.5 -11.0 -11.5 -12.0 -12.5 -13.0 -13.5 -14.0 -14.5 -15.0 -15.5 -16.0 -16.5 -17.0 -17.5 -18.0 -18.5 -19.0 -19.5 -20.0 -20.5 -21.0 -21.5 -22.0 -22.5 -23.0 -23.5 -24.0 -24.5 -25.0 -25.5 -26.0 -26.5 -27.0 -27.5 -28.0 -28.5 -29.0 -29.5 -30.0

SPT "N" Value: 0 25 50 75 100

Soil Moisture (%): 0 25 50

Test Data: bentonite backfill; WL = 11.3 m Feb. 4, 2020; sand backfill to 17.1 m; 17.4 m; 6.0 m of slotted 50 mm dia. PVC pipe; 23.5 m; 30.0 m

Notes: 1. Groundwater encountered at 3.0 m during drilling

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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Landtek Limited

BH 3

Project No.:	20258A	Drill Date:	August 27, 2020
Project:	Hydrogeological and Geotechnical Investigation	Drill Method:	[x] solid stem [x] rock coring
Location:	1167 Plains Road East, Burlington, Ontario	Datum:	Geodetic

Material Description	Symbol	Elev. Depth	Samples No.	Samples Type	Scale (m)	SPT "N" Value	Soil Moisture (%)	GWL	Monitor Details	Test Data
Ground Surface		97.50								
FILL: clayey silt, moist, black/brown		0.0	1	SS		8				
			2	SS		9				
SILTY SAND: brown, trace stones, trace iron staining, moist		1.4	3	SS		6				
			4	SS		3				
SILTY CLAY: chuck rock, brown/grey moist, wet		2.9	5	SS		17				
			6	SS		32				
CLAYEY SILT: 2 inches layer of coarse sand, moist		4.9	7	SS		44				
CLAYEY SILT: brown/grey, trace red wet		7.0	8	SS		38				
grey, wet		8.9	9	SS		40				
grey, trace gravel, hard, very moist		11.1	10	SS		13				
SHALE BEDROCK highly weathered, red, hard		14.0								
END OF BOREHOLE AT TARGET DEPTH		15.6								

SPT "N" Value: 0 25 50 75 100 | Soil Moisture (%): 0 25 50

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 -13.5 -14.0 -14.5 -15.0 -15.5 -16.0 -16.5 -17.0

Notes: 1. Groundwater was encountered at 3.0 m during drilling

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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APPENDIX B

LABORATORY CERTIFICATES OF ANALYSES
Including Laboratory QA/QC Data

Soil and Groundwater Results

LANDTEK LIMITED
ATTN: Nicole Harper
205 Nebo Road
Unit 3
Hamilton ON L8W 2E1

Date Received: 28-AUG-20
Report Date: 22-OCT-20 12:00 (MT)
Version: FINAL REV. 2

Client Phone: 905-383-3733

Certificate of Analysis

Lab Work Order #: L2496018

Project P.O. #: 20257
Job Reference:
C of C Numbers:
Legal Site Desc:

Comments: ADDITIONAL 08-SEP-20 08:41

Aaron Payne
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-1 RL Sampled By: CLIENT on 27-AUG-20 Matrix: Soil							
Physical Tests							
Conductivity	0.694		0.0040	mS/cm		03-SEP-20	R5209756
% Moisture	17.8		0.25	%	01-SEP-20	01-SEP-20	R5208442
pH	7.10		0.10	pH units		03-SEP-20	R5209546
Cyanides							
Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	01-SEP-20	02-SEP-20	R5208719
Saturated Paste Extractables							
SAR	0.12		0.10	SAR		03-SEP-20	R5209813
Calcium (Ca)	88.9		0.50	mg/L		03-SEP-20	R5209813
Magnesium (Mg)	9.04		0.50	mg/L		03-SEP-20	R5209813
Sodium (Na)	4.44		0.50	mg/L		03-SEP-20	R5209813
Metals							
Antimony (Sb)	<1.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Arsenic (As)	6.2		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Barium (Ba)	92.7		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Beryllium (Be)	0.57		0.50	ug/g	03-SEP-20	04-SEP-20	R5210507
Boron (B)	15.3		5.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Boron (B), Hot Water Ext.	1.01		0.10	ug/g	03-SEP-20	03-SEP-20	R5209731
Cadmium (Cd)	<0.50		0.50	ug/g	03-SEP-20	04-SEP-20	R5210507
Chromium (Cr)	22.3		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Cobalt (Co)	10.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Copper (Cu)	37.3		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Lead (Pb)	31.2		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Mercury (Hg)	0.0361		0.0050	ug/g	03-SEP-20	03-SEP-20	R5209571
Molybdenum (Mo)	1.3		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Nickel (Ni)	26.1		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Selenium (Se)	<1.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Silver (Ag)	<0.20		0.20	ug/g	03-SEP-20	04-SEP-20	R5210507
Thallium (Tl)	<0.50		0.50	ug/g	03-SEP-20	04-SEP-20	R5210507
Uranium (U)	<1.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Vanadium (V)	26.7		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Zinc (Zn)	147		5.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Speciated Metals							
Chromium, Hexavalent	<0.20		0.20	ug/g	01-SEP-20	02-SEP-20	R5209371
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
Acenaphthylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
Anthracene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
Benzo(a)anthracene	0.178		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
Benzo(a)pyrene	0.221		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
Benzo(b)fluoranthene	0.396		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
Benzo(g,h,i)perylene	0.187		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
Benzo(k)fluoranthene	0.117		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-1 RL Sampled By: CLIENT on 27-AUG-20 Matrix: Soil							
Polycyclic Aromatic Hydrocarbons							
Chrysene	0.281		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
Dibenzo(ah)anthracene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
Fluoranthene	0.386		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
Fluorene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
Indeno(1,2,3-cd)pyrene	0.159		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
1+2-Methylnaphthalenes	0.227		0.042	ug/g		02-SEP-20	
1-Methylnaphthalene	0.111		0.030	ug/g	31-AUG-20	02-SEP-20	R5208617
2-Methylnaphthalene	0.116		0.030	ug/g	31-AUG-20	02-SEP-20	R5208617
Naphthalene	0.080		0.013	ug/g	31-AUG-20	02-SEP-20	R5208617
Phenanthrene	0.177		0.046	ug/g	31-AUG-20	02-SEP-20	R5208617
Pyrene	0.338		0.050	ug/g	31-AUG-20	02-SEP-20	R5208617
Surrogate: 2-Fluorobiphenyl	85.0		50-140	%	31-AUG-20	02-SEP-20	R5208617
Surrogate: p-Terphenyl d14	102.4		50-140	%	31-AUG-20	02-SEP-20	R5208617
L2496018-2 BH1 SS1 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Physical Tests							
Conductivity	0.304		0.0040	mS/cm		03-SEP-20	R5209756
% Moisture	11.0		0.25	%	01-SEP-20	01-SEP-20	R5208442
pH	7.39		0.10	pH units		03-SEP-20	R5209546
Cyanides							
Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	01-SEP-20	02-SEP-20	R5208719
Saturated Paste Extractables							
SAR	0.21		0.10	SAR		03-SEP-20	R5209813
Calcium (Ca)	34.8		0.50	mg/L		03-SEP-20	R5209813
Magnesium (Mg)	4.58		0.50	mg/L		03-SEP-20	R5209813
Sodium (Na)	5.04		0.50	mg/L		03-SEP-20	R5209813
Metals							
Antimony (Sb)	<1.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Arsenic (As)	10.3		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Barium (Ba)	121		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Beryllium (Be)	0.82		0.50	ug/g	03-SEP-20	04-SEP-20	R5210507
Boron (B)	16.0		5.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Boron (B), Hot Water Ext.	0.65		0.10	ug/g	03-SEP-20	03-SEP-20	R5209731
Cadmium (Cd)	<0.50		0.50	ug/g	03-SEP-20	04-SEP-20	R5210507
Chromium (Cr)	19.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Cobalt (Co)	8.3		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Copper (Cu)	29.5		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Lead (Pb)	38.5		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Mercury (Hg)	0.0330		0.0050	ug/g	03-SEP-20	03-SEP-20	R5209571
Molybdenum (Mo)	<1.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Nickel (Ni)	18.5		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-2 BH1 SS1 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Metals							
Selenium (Se)	<1.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Silver (Ag)	<0.20		0.20	ug/g	03-SEP-20	04-SEP-20	R5210507
Thallium (Tl)	<0.50		0.50	ug/g	03-SEP-20	04-SEP-20	R5210507
Uranium (U)	<1.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Vanadium (V)	26.8		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Zinc (Zn)	115		5.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Speciated Metals							
Chromium, Hexavalent	<0.20		0.20	ug/g	01-SEP-20	02-SEP-20	R5209371
Organochlorine Pesticides							
Aldrin	<0.010	DLM	0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Aldrin	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
alpha-BHC	<0.0010		0.0010	ug/g	15-SEP-20	15-SEP-20	R5227117
beta-BHC	<0.0010		0.0010	ug/g	15-SEP-20	15-SEP-20	R5227117
gamma-hexachlorocyclohexane	<0.0010		0.0010	ug/g	15-SEP-20	15-SEP-20	R5227117
gamma-hexachlorocyclohexane	<0.050	DLM	0.050	ug/g	31-AUG-20	04-SEP-20	R5209740
a-chlordane	<0.0030		0.0030	ug/g	15-SEP-20	15-SEP-20	R5227117
a-chlordane	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Chlordane (Total)	<0.14		0.14	ug/g		04-SEP-20	
g-chlordane	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
g-chlordane	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
o,p-DDD	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
op-DDD	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDD	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDD	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDD	<0.14		0.14	ug/g		04-SEP-20	
o,p-DDE	<0.015	DLM	0.015	ug/g	15-SEP-20	15-SEP-20	R5227117
o,p-DDE	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDE	<0.015	DLM	0.015	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDE	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDE	<0.14		0.14	ug/g		04-SEP-20	
op-DDT	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
op-DDT	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDT	0.0116		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDT	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDT	<0.14		0.14	ug/g		04-SEP-20	
Dieldrin	<0.010	DLM	0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Dieldrin	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulfan I	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan I	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulfan II	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan II	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-2 BH1 SS1 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Organochlorine Pesticides							
Endosulphan Sulphate	<0.013		0.013	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan (Total)	<0.14		0.14	ug/g		04-SEP-20	
Endrin	<0.015	DLM	0.015	ug/g	15-SEP-20	15-SEP-20	R5227117
Endrin	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Heptachlor	<0.0060		0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Heptachlor	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Heptachlor Epoxide	<0.0050		0.0050	ug/g	15-SEP-20	15-SEP-20	R5227117
Heptachlor Epoxide	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachlorobenzene	<0.0060		0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachlorobenzene	<0.050	DLM	0.050	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachlorobutadiene	<0.010		0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachlorobutadiene	<0.050	DLM	0.050	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachloroethane	<0.010		0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachloroethane	<0.050	DLM	0.050	ug/g	31-AUG-20	04-SEP-20	R5209740
Methoxychlor	<0.0080		0.0080	ug/g	15-SEP-20	15-SEP-20	R5227117
Methoxychlor	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Mirex	<0.0030	DLQ	0.0030	ug/g	15-SEP-20	15-SEP-20	R5227117
Oxychlordane	<0.0060		0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Surrogate: 2-Fluorobiphenyl	63.8		50-140	%	15-SEP-20	15-SEP-20	R5227117
Surrogate: 2-Fluorobiphenyl	70.6		50-140	%	31-AUG-20	04-SEP-20	R5209740
Surrogate: d14-Terphenyl	58.0		50-140	%	15-SEP-20	15-SEP-20	R5227117
Surrogate: d14-Terphenyl	57.3		50-140	%	31-AUG-20	04-SEP-20	R5209740
L2496018-3 BH3 SS1 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Physical Tests							
Conductivity	0.202		0.0040	mS/cm		03-SEP-20	R5209756
% Moisture	6.59		0.25	%	01-SEP-20	02-SEP-20	R5208526
pH	7.26		0.10	pH units		03-SEP-20	R5209546
Cyanides							
Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	01-SEP-20	02-SEP-20	R5208719
Saturated Paste Extractables							
SAR	<0.10		0.10	SAR		03-SEP-20	R5209813
Calcium (Ca)	22.6		0.50	mg/L		03-SEP-20	R5209813
Magnesium (Mg)	2.12		0.50	mg/L		03-SEP-20	R5209813
Sodium (Na)	1.58		0.50	mg/L		03-SEP-20	R5209813
Metals							
Antimony (Sb)	<1.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Arsenic (As)	3.8		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Barium (Ba)	58.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Beryllium (Be)	<0.50		0.50	ug/g	03-SEP-20	04-SEP-20	R5210507
Boron (B)	10.2		5.0	ug/g	03-SEP-20	04-SEP-20	R5210507

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-3 BH3 SS1 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Metals							
Boron (B), Hot Water Ext.	0.22		0.10	ug/g	03-SEP-20	03-SEP-20	R5209731
Cadmium (Cd)	<0.50		0.50	ug/g	03-SEP-20	04-SEP-20	R5210507
Chromium (Cr)	13.5		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Cobalt (Co)	5.7		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Copper (Cu)	15.3		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Lead (Pb)	20.2		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Mercury (Hg)	0.115		0.0050	ug/g	03-SEP-20	03-SEP-20	R5209571
Molybdenum (Mo)	<1.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Nickel (Ni)	13.9		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Selenium (Se)	<1.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Silver (Ag)	<0.20		0.20	ug/g	03-SEP-20	04-SEP-20	R5210507
Thallium (Tl)	<0.50		0.50	ug/g	03-SEP-20	04-SEP-20	R5210507
Uranium (U)	<1.0		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Vanadium (V)	25.8		1.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Zinc (Zn)	74.9		5.0	ug/g	03-SEP-20	04-SEP-20	R5210507
Speciated Metals							
Chromium, Hexavalent	0.21		0.20	ug/g	01-SEP-20	02-SEP-20	R5209371
Organochlorine Pesticides							
Aldrin	<0.040	DLM	0.040	ug/g	15-SEP-20	15-SEP-20	R5227117
Aldrin	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
alpha-BHC	<0.010	DLM	0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
beta-BHC	<0.010	DLM	0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
gamma-hexachlorocyclohexane	<0.010	DLM	0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
gamma-hexachlorocyclohexane	<0.050	DLM	0.050	ug/g	31-AUG-20	04-SEP-20	R5209740
a-chlordane	<0.030	DLM	0.030	ug/g	15-SEP-20	15-SEP-20	R5227117
a-chlordane	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Chlordane (Total)	<0.14		0.14	ug/g		04-SEP-20	
g-chlordane	<0.040	DLM	0.040	ug/g	15-SEP-20	15-SEP-20	R5227117
g-chlordane	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
o,p-DDD	<0.040	DLM	0.040	ug/g	15-SEP-20	15-SEP-20	R5227117
op-DDD	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDD	<0.040	DLM	0.040	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDD	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDD	<0.14		0.14	ug/g		04-SEP-20	
o,p-DDE	<0.060	DLM	0.060	ug/g	15-SEP-20	15-SEP-20	R5227117
o,p-DDE	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDE	<0.060	DLM	0.060	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDE	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDE	<0.14		0.14	ug/g		04-SEP-20	
op-DDT	<0.040	DLM	0.040	ug/g	15-SEP-20	15-SEP-20	R5227117
op-DDT	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-3 BH3 SS1 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Organochlorine Pesticides							
pp-DDT	<0.040	DLM	0.040	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDT	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDT	<0.14		0.14	ug/g		04-SEP-20	
Dieldrin	<0.040	DLM	0.040	ug/g	15-SEP-20	15-SEP-20	R5227117
Dieldrin	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulfan I	<0.040	DLM	0.040	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan I	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulfan II	<0.040	DLM	0.040	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan II	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulphan Sulphate	<0.13	DLM	0.13	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan (Total)	<0.14		0.14	ug/g		04-SEP-20	
Endrin	<0.060	DLM	0.060	ug/g	15-SEP-20	15-SEP-20	R5227117
Endrin	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Heptachlor	<0.060	DLM	0.060	ug/g	15-SEP-20	15-SEP-20	R5227117
Heptachlor	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Heptachlor Epoxide	<0.050	DLM	0.050	ug/g	15-SEP-20	15-SEP-20	R5227117
Heptachlor Epoxide	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachlorobenzene	<0.060	DLM	0.060	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachlorobenzene	<0.050	DLM	0.050	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachlorobutadiene	<0.10	DLM	0.10	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachlorobutadiene	<0.050	DLM	0.050	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachloroethane	<0.10	DLM	0.10	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachloroethane	<0.050	DLM	0.050	ug/g	31-AUG-20	04-SEP-20	R5209740
Methoxychlor	<0.080	DLM	0.080	ug/g	15-SEP-20	15-SEP-20	R5227117
Methoxychlor	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Mirex	<0.010	DLM	0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Oxychlordane	<0.060	DLM	0.060	ug/g	15-SEP-20	15-SEP-20	R5227117
Surrogate: 2-Fluorobiphenyl	N/A	SDO:RNA	50-140	%	15-SEP-20	15-SEP-20	R5227117
Surrogate: 2-Fluorobiphenyl	73.4		50-140	%	31-AUG-20	04-SEP-20	R5209740
Surrogate: d14-Terphenyl	N/A	SDO:RNA	50-140	%	15-SEP-20	15-SEP-20	R5227117
Surrogate: d14-Terphenyl	55.8		50-140	%	31-AUG-20	04-SEP-20	R5209740
L2496018-4 BH/MW2 SS1 Sampled By: CLIENT on 26-AUG-20 Matrix: SOIL							
Physical Tests							
Conductivity	0.225		0.0040	mS/cm		03-SEP-20	R5209703
% Moisture	10.3		0.25	%	01-SEP-20	02-SEP-20	R5208526
pH	7.55		0.10	pH units		03-SEP-20	R5209546
Cyanides							
Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	01-SEP-20	02-SEP-20	R5208719
Saturated Paste Extractables							
SAR	0.12		0.10	SAR		03-SEP-20	R5209879

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-4 BH/MW2 SS1 Sampled By: CLIENT on 26-AUG-20 Matrix: SOIL							
Saturated Paste Extractables							
Calcium (Ca)	24.1		0.50	mg/L		03-SEP-20	R5209879
Magnesium (Mg)	3.02		0.50	mg/L		03-SEP-20	R5209879
Sodium (Na)	2.42		0.50	mg/L		03-SEP-20	R5209879
Metals							
Antimony (Sb)	<1.0		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Arsenic (As)	10.1		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Barium (Ba)	102		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Beryllium (Be)	0.52		0.50	ug/g	02-SEP-20	04-SEP-20	R5210983
Boron (B)	9.3		5.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Boron (B), Hot Water Ext.	0.25		0.10	ug/g	02-SEP-20	03-SEP-20	R5209807
Cadmium (Cd)	<0.50		0.50	ug/g	02-SEP-20	04-SEP-20	R5210983
Chromium (Cr)	16.6		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Cobalt (Co)	8.7		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Copper (Cu)	40.4		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Lead (Pb)	32.2		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Mercury (Hg)	0.0366		0.0050	ug/g	02-SEP-20	03-SEP-20	R5209572
Molybdenum (Mo)	1.0		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Nickel (Ni)	18.7		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Selenium (Se)	<1.0		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Silver (Ag)	<0.20		0.20	ug/g	02-SEP-20	04-SEP-20	R5210983
Thallium (Tl)	<0.50		0.50	ug/g	02-SEP-20	04-SEP-20	R5210983
Uranium (U)	<1.0		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Vanadium (V)	24.5		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Zinc (Zn)	105		5.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Speciated Metals							
Chromium, Hexavalent	<0.20		0.20	ug/g	01-SEP-20	02-SEP-20	R5209371
Organochlorine Pesticides							
Aldrin	<0.010	DLM	0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Aldrin	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
alpha-BHC	<0.0010		0.0010	ug/g	15-SEP-20	15-SEP-20	R5227117
beta-BHC	<0.0010		0.0010	ug/g	15-SEP-20	15-SEP-20	R5227117
gamma-hexachlorocyclohexane	<0.0010		0.0010	ug/g	15-SEP-20	15-SEP-20	R5227117
gamma-hexachlorocyclohexane	<0.050	DLM	0.050	ug/g	31-AUG-20	04-SEP-20	R5209740
a-chlordane	<0.0030		0.0030	ug/g	15-SEP-20	15-SEP-20	R5227117
a-chlordane	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Chlordane (Total)	<0.14		0.14	ug/g		04-SEP-20	
g-chlordane	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
g-chlordane	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
o,p-DDD	0.0169		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
op-DDD	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDD	0.0351		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDD	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-4 BH/MW2 SS1 Sampled By: CLIENT on 26-AUG-20 Matrix: SOIL							
Organochlorine Pesticides							
Total DDD	<0.14		0.14	ug/g		04-SEP-20	
o,p-DDE	<0.015	DLM	0.015	ug/g	15-SEP-20	15-SEP-20	R5227117
o,p-DDE	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDE	0.470	DLM	0.015	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDE	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDE	<0.14		0.14	ug/g		04-SEP-20	
op-DDT	0.0179		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
op-DDT	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDT	0.0778		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDT	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDT	<0.14		0.14	ug/g		04-SEP-20	
Dieldrin	0.024	DLM	0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Dieldrin	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulfan I	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan I	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulfan II	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan II	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulphan Sulphate	<0.013		0.013	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan (Total)	<0.14		0.14	ug/g		04-SEP-20	
Endrin	<0.015	DLM	0.015	ug/g	15-SEP-20	15-SEP-20	R5227117
Endrin	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Heptachlor	<0.0060		0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Heptachlor	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Heptachlor Epoxide	<0.0050		0.0050	ug/g	15-SEP-20	15-SEP-20	R5227117
Heptachlor Epoxide	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachlorobenzene	<0.0060		0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachlorobenzene	<0.050	DLM	0.050	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachlorobutadiene	<0.010		0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachlorobutadiene	<0.050	DLM	0.050	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachloroethane	<0.010		0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachloroethane	<0.050	DLM	0.050	ug/g	31-AUG-20	04-SEP-20	R5209740
Methoxychlor	<0.0080		0.0080	ug/g	15-SEP-20	15-SEP-20	R5227117
Methoxychlor	<0.10	DLM	0.10	ug/g	31-AUG-20	04-SEP-20	R5209740
Mirex	<0.0010		0.0010	ug/g	15-SEP-20	15-SEP-20	R5227117
Oxychlordane	<0.0060		0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Surrogate: 2-Fluorobiphenyl	59.3		50-140	%	15-SEP-20	15-SEP-20	R5227117
Surrogate: 2-Fluorobiphenyl	70.1		50-140	%	31-AUG-20	04-SEP-20	R5209740
Surrogate: d14-Terphenyl	51.3		50-140	%	15-SEP-20	15-SEP-20	R5227117
Surrogate: d14-Terphenyl	54.3		50-140	%	31-AUG-20	04-SEP-20	R5209740
L2496018-5 BH/MW6 SS1 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-5 BHMW6 SS1 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Physical Tests							
Conductivity	0.389		0.0040	mS/cm		03-SEP-20	R5209703
% Moisture	9.06		0.25	%	01-SEP-20	02-SEP-20	R5208526
pH	7.72		0.10	pH units		03-SEP-20	R5209546
Cyanides							
Cyanide, Weak Acid Diss	<0.050		0.050	ug/g	01-SEP-20	02-SEP-20	R5208719
Saturated Paste Extractables							
SAR	1.80		0.10	SAR		03-SEP-20	R5209879
Calcium (Ca)	13.6		0.50	mg/L		03-SEP-20	R5209879
Magnesium (Mg)	10.9		0.50	mg/L		03-SEP-20	R5209879
Sodium (Na)	36.8		0.50	mg/L		03-SEP-20	R5209879
Metals							
Antimony (Sb)	<1.0		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Arsenic (As)	6.3		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Barium (Ba)	36.4		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Beryllium (Be)	<0.50		0.50	ug/g	02-SEP-20	04-SEP-20	R5210983
Boron (B)	<5.0		5.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Boron (B), Hot Water Ext.	0.34		0.10	ug/g	02-SEP-20	03-SEP-20	R5209807
Cadmium (Cd)	<0.50		0.50	ug/g	02-SEP-20	04-SEP-20	R5210983
Chromium (Cr)	9.0		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Cobalt (Co)	4.7		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Copper (Cu)	18.9		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Lead (Pb)	13.5		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Mercury (Hg)	0.0207		0.0050	ug/g	02-SEP-20	03-SEP-20	R5209572
Molybdenum (Mo)	<1.0		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Nickel (Ni)	9.0		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Selenium (Se)	<1.0		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Silver (Ag)	<0.20		0.20	ug/g	02-SEP-20	04-SEP-20	R5210983
Thallium (Tl)	<0.50		0.50	ug/g	02-SEP-20	04-SEP-20	R5210983
Uranium (U)	<1.0		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Vanadium (V)	16.4		1.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Zinc (Zn)	37.5		5.0	ug/g	02-SEP-20	04-SEP-20	R5210983
Speciated Metals							
Chromium, Hexavalent	<0.20		0.20	ug/g	01-SEP-20	02-SEP-20	R5209371
Organochlorine Pesticides							
Aldrin	<0.010	DLM	0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Aldrin	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
alpha-BHC	<0.0010		0.0010	ug/g	15-SEP-20	15-SEP-20	R5227117
beta-BHC	<0.0010		0.0010	ug/g	15-SEP-20	15-SEP-20	R5227117
gamma-hexachlorocyclohexane	<0.0010		0.0010	ug/g	15-SEP-20	15-SEP-20	R5227117
gamma-hexachlorocyclohexane	<0.010		0.010	ug/g	31-AUG-20	04-SEP-20	R5209740
a-chlordane	<0.0030		0.0030	ug/g	15-SEP-20	15-SEP-20	R5227117
a-chlordane	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-5 BH/MW6 SS1 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Organochlorine Pesticides							
Chlordane (Total)	<0.028		0.028	ug/g		04-SEP-20	
g-chlordane	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
g-chlordane	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
o,p-DDD	<0.0080	DLM	0.0080	ug/g	15-SEP-20	15-SEP-20	R5227117
op-DDD	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDD	<0.0080	DLM	0.0080	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDD	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDD	<0.028		0.028	ug/g		04-SEP-20	
o,p-DDE	<0.015	DLM	0.015	ug/g	15-SEP-20	15-SEP-20	R5227117
o,p-DDE	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDE	<0.015	DLM	0.015	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDE	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDE	<0.028		0.028	ug/g		04-SEP-20	
op-DDT	<0.0080	DLM	0.0080	ug/g	15-SEP-20	15-SEP-20	R5227117
op-DDT	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDT	<0.0080	DLM	0.0080	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDT	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDT	<0.028		0.028	ug/g		04-SEP-20	
Dieldrin	<0.020	DLM	0.020	ug/g	15-SEP-20	15-SEP-20	R5227117
Dieldrin	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulfan I	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan I	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulfan II	<0.0080	DLM	0.0080	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan II	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulphan Sulphate	<0.026	DLM	0.026	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan (Total)	<0.028		0.028	ug/g		04-SEP-20	
Endrin	<0.030	DLM	0.030	ug/g	15-SEP-20	15-SEP-20	R5227117
Endrin	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Heptachlor	<0.0060		0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Heptachlor	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Heptachlor Epoxide	<0.0050		0.0050	ug/g	15-SEP-20	15-SEP-20	R5227117
Heptachlor Epoxide	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachlorobenzene	<0.0060		0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachlorobenzene	<0.010		0.010	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachlorobutadiene	<0.010		0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachlorobutadiene	<0.010		0.010	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachloroethane	<0.010		0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachloroethane	<0.010		0.010	ug/g	31-AUG-20	04-SEP-20	R5209740
Methoxychlor	<0.016	DLM	0.016	ug/g	15-SEP-20	15-SEP-20	R5227117
Methoxychlor	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Mirex	<0.0070	DLM	0.0070	ug/g	15-SEP-20	15-SEP-20	R5227117

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-5 BH/MW6 SS1 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Organochlorine Pesticides							
Oxychlordane	<0.0060		0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Surrogate: 2-Fluorobiphenyl	57.8		50-140	%	15-SEP-20	15-SEP-20	R5227117
Surrogate: 2-Fluorobiphenyl	66.7		50-140	%	31-AUG-20	04-SEP-20	R5209740
Surrogate: d14-Terphenyl	52.7		50-140	%	31-AUG-20	04-SEP-20	R5209740
L2496018-6 BH/MW6 SS5 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Physical Tests							
% Moisture	5.99		0.25	%	01-SEP-20	01-SEP-20	R5208442
Volatile Organic Compounds							
Acetone	<0.50		0.50	ug/g	31-AUG-20	02-SEP-20	R5208515
Benzene	<0.0068		0.0068	ug/g	31-AUG-20	02-SEP-20	R5208515
Bromodichloromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Bromoform	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Bromomethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Carbon tetrachloride	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Chlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Dibromochloromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Chloroform	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dibromoethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dichlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,3-Dichlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,4-Dichlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Dichlorodifluoromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1-Dichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1-Dichloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Methylene Chloride	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dichloropropane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	31-AUG-20	02-SEP-20	R5208515
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	31-AUG-20	02-SEP-20	R5208515
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g		02-SEP-20	
Ethylbenzene	<0.018		0.018	ug/g	31-AUG-20	02-SEP-20	R5208515
n-Hexane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Methyl Ethyl Ketone	<0.50		0.50	ug/g	31-AUG-20	02-SEP-20	R5208515
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	31-AUG-20	02-SEP-20	R5208515
MTBE	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Styrene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-6 BH/MW6 SS5 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Volatile Organic Compounds							
Tetrachloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Toluene	<0.080		0.080	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,1-Trichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,2-Trichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Trichloroethylene	0.021		0.010	ug/g	31-AUG-20	02-SEP-20	R5208515
Trichlorofluoromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Vinyl chloride	<0.020		0.020	ug/g	31-AUG-20	02-SEP-20	R5208515
o-Xylene	<0.020		0.020	ug/g	31-AUG-20	02-SEP-20	R5208515
m+p-Xylenes	<0.030		0.030	ug/g	31-AUG-20	02-SEP-20	R5208515
Xylenes (Total)	<0.050		0.050	ug/g		02-SEP-20	
Surrogate: 4-Bromofluorobenzene	86.4		50-140	%	31-AUG-20	02-SEP-20	R5208515
Surrogate: 1,4-Difluorobenzene	100.2		50-140	%	31-AUG-20	02-SEP-20	R5208515
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	31-AUG-20	02-SEP-20	R5208515
F1-BTEX	<5.0		5.0	ug/g		02-SEP-20	
F2 (C10-C16)	<10		10	ug/g	01-SEP-20	01-SEP-20	R5208369
F3 (C16-C34)	<50		50	ug/g	01-SEP-20	01-SEP-20	R5208369
F4 (C34-C50)	<50		50	ug/g	01-SEP-20	01-SEP-20	R5208369
Total Hydrocarbons (C6-C50)	<72		72	ug/g		02-SEP-20	
Chrom. to baseline at nC50	YES				01-SEP-20	01-SEP-20	R5208369
Surrogate: 2-Bromobenzotrifluoride	85.1		60-140	%	01-SEP-20	01-SEP-20	R5208369
Surrogate: 3,4-Dichlorotoluene	82.0		60-140	%	31-AUG-20	02-SEP-20	R5208515
L2496018-7 BH/MW2 SS5 Sampled By: CLIENT on 26-AUG-20 Matrix: SOIL							
Physical Tests							
% Moisture	14.4		0.25	%	01-SEP-20	01-SEP-20	R5208460
Organochlorine Pesticides							
Aldrin	<0.0020		0.0020	ug/g	15-SEP-20	15-SEP-20	R5227117
Aldrin	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
alpha-BHC	<0.0010		0.0010	ug/g	15-SEP-20	15-SEP-20	R5227117
beta-BHC	<0.0010		0.0010	ug/g	15-SEP-20	15-SEP-20	R5227117
gamma-hexachlorocyclohexane	<0.0030	DLQ	0.0030	ug/g	15-SEP-20	15-SEP-20	R5227117
gamma-hexachlorocyclohexane	<0.010		0.010	ug/g	31-AUG-20	04-SEP-20	R5209740
a-chlordane	<0.0030		0.0030	ug/g	15-SEP-20	15-SEP-20	R5227117
a-chlordane	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Chlordane (Total)	<0.028		0.028	ug/g		04-SEP-20	
g-chlordane	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
g-chlordane	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
o,p-DDD	<0.0080	DLM	0.0080	ug/g	15-SEP-20	15-SEP-20	R5227117
op-DDD	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDD	<0.0080	DLM	0.0080	ug/g	15-SEP-20	15-SEP-20	R5227117

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-7 BH/MW2 SS5 Sampled By: CLIENT on 26-AUG-20 Matrix: SOIL							
Organochlorine Pesticides							
pp-DDD	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDD	<0.028		0.028	ug/g		04-SEP-20	
o,p-DDE	<0.0030		0.0030	ug/g	15-SEP-20	15-SEP-20	R5227117
o,p-DDE	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDE	<0.0030		0.0030	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDE	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDE	<0.028		0.028	ug/g		04-SEP-20	
op-DDT	<0.0080	DLM	0.0080	ug/g	15-SEP-20	15-SEP-20	R5227117
op-DDT	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
pp-DDT	<0.0080	DLM	0.0080	ug/g	15-SEP-20	15-SEP-20	R5227117
pp-DDT	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Total DDT	<0.028		0.028	ug/g		04-SEP-20	
Dieldrin	<0.0040	DLM	0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
Dieldrin	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulfan I	<0.0040		0.0040	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan I	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulfan II	<0.0080	DLM	0.0080	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan II	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Endosulphan Sulphate	<0.026	DLM	0.026	ug/g	15-SEP-20	15-SEP-20	R5227117
Endosulfan (Total)	<0.028		0.028	ug/g		04-SEP-20	
Endrin	<0.0060	DLM	0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Endrin	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Heptachlor	<0.0060		0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Heptachlor	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Heptachlor Epoxide	<0.0050		0.0050	ug/g	15-SEP-20	15-SEP-20	R5227117
Heptachlor Epoxide	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachlorobenzene	<0.0060		0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachlorobenzene	<0.010		0.010	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachlorobutadiene	<0.010		0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachlorobutadiene	<0.010		0.010	ug/g	31-AUG-20	04-SEP-20	R5209740
Hexachloroethane	<0.010		0.010	ug/g	15-SEP-20	15-SEP-20	R5227117
Hexachloroethane	<0.010		0.010	ug/g	31-AUG-20	04-SEP-20	R5209740
Methoxychlor	<0.016	DLM	0.016	ug/g	15-SEP-20	15-SEP-20	R5227117
Methoxychlor	<0.020		0.020	ug/g	31-AUG-20	04-SEP-20	R5209740
Mirex	<0.0020	DLM	0.0020	ug/g	15-SEP-20	15-SEP-20	R5227117
Oxychlordane	<0.0060		0.0060	ug/g	15-SEP-20	15-SEP-20	R5227117
Surrogate: 2-Fluorobiphenyl	60.7		50-140	%	15-SEP-20	15-SEP-20	R5227117
Surrogate: 2-Fluorobiphenyl	57.6		50-140	%	31-AUG-20	04-SEP-20	R5209740
Surrogate: d14-Terphenyl	44.5	SOL:MI	50-140	%	15-SEP-20	15-SEP-20	R5227117
Surrogate: d14-Terphenyl	57.2		50-140	%	31-AUG-20	04-SEP-20	R5209740
L2496018-8 MW104 SS2							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-8 BH1 SS2 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Physical Tests							
% Moisture	13.5		0.25	%	01-SEP-20	01-SEP-20	R5208460
Volatile Organic Compounds							
Acetone	<0.50		0.50	ug/g	31-AUG-20	02-SEP-20	R5208515
Benzene	<0.0068		0.0068	ug/g	31-AUG-20	02-SEP-20	R5208515
Bromodichloromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Bromoform	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Bromomethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Carbon tetrachloride	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Chlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Dibromochloromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Chloroform	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dibromoethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dichlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,3-Dichlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,4-Dichlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Dichlorodifluoromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1-Dichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1-Dichloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Methylene Chloride	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dichloropropane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	31-AUG-20	02-SEP-20	R5208515
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	31-AUG-20	02-SEP-20	R5208515
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g		02-SEP-20	
Ethylbenzene	<0.018		0.018	ug/g	31-AUG-20	02-SEP-20	R5208515
n-Hexane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Methyl Ethyl Ketone	<0.50		0.50	ug/g	31-AUG-20	02-SEP-20	R5208515
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	31-AUG-20	02-SEP-20	R5208515
MTBE	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Styrene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Tetrachloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Toluene	<0.080		0.080	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,1-Trichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,2-Trichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Trichloroethylene	<0.010		0.010	ug/g	31-AUG-20	02-SEP-20	R5208515
Trichlorofluoromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Vinyl chloride	<0.020		0.020	ug/g	31-AUG-20	02-SEP-20	R5208515

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-8 BH1 SS2 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Volatile Organic Compounds							
o-Xylene	<0.020		0.020	ug/g	31-AUG-20	02-SEP-20	R5208515
m+p-Xylenes	<0.030		0.030	ug/g	31-AUG-20	02-SEP-20	R5208515
Xylenes (Total)	<0.050		0.050	ug/g		02-SEP-20	
Surrogate: 4-Bromofluorobenzene	73.3		50-140	%	31-AUG-20	02-SEP-20	R5208515
Surrogate: 1,4-Difluorobenzene	86.6		50-140	%	31-AUG-20	02-SEP-20	R5208515
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	31-AUG-20	02-SEP-20	R5208515
F1-BTEX	<5.0		5.0	ug/g		02-SEP-20	
F2 (C10-C16)	21		10	ug/g	01-SEP-20	01-SEP-20	R5208369
F3 (C16-C34)	128		50	ug/g	01-SEP-20	01-SEP-20	R5208369
F4 (C34-C50)	<50		50	ug/g	01-SEP-20	01-SEP-20	R5208369
Total Hydrocarbons (C6-C50)	149		72	ug/g		02-SEP-20	
Chrom. to baseline at nC50	YES				01-SEP-20	01-SEP-20	R5208369
Surrogate: 2-Bromobenzotrifluoride	80.3		60-140	%	01-SEP-20	01-SEP-20	R5208369
Surrogate: 3,4-Dichlorotoluene	75.1		60-140	%	31-AUG-20	02-SEP-20	R5208515
L2496018-9 MW103 SS5 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Physical Tests							
% Moisture	14.8		0.25	%	01-SEP-20	01-SEP-20	R5208460
Volatile Organic Compounds							
Acetone	<0.50		0.50	ug/g	31-AUG-20	02-SEP-20	R5208515
Benzene	<0.0068		0.0068	ug/g	31-AUG-20	02-SEP-20	R5208515
Bromodichloromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Bromoform	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Bromomethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Carbon tetrachloride	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Chlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Dibromochloromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Chloroform	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dibromoethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dichlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,3-Dichlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,4-Dichlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Dichlorodifluoromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1-Dichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1-Dichloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Methylene Chloride	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dichloropropane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-9 BH3 SS5 Sampled By: CLIENT on 27-AUG-20 Matrix: SOIL							
Volatile Organic Compounds							
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	31-AUG-20	02-SEP-20	R5208515
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	31-AUG-20	02-SEP-20	R5208515
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g		02-SEP-20	
Ethylbenzene	<0.018		0.018	ug/g	31-AUG-20	02-SEP-20	R5208515
n-Hexane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Methyl Ethyl Ketone	<0.50		0.50	ug/g	31-AUG-20	02-SEP-20	R5208515
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	31-AUG-20	02-SEP-20	R5208515
MTBE	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Styrene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Tetrachloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Toluene	<0.080		0.080	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,1-Trichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,2-Trichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Trichloroethylene	0.026		0.010	ug/g	31-AUG-20	02-SEP-20	R5208515
Trichlorofluoromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Vinyl chloride	<0.020		0.020	ug/g	31-AUG-20	02-SEP-20	R5208515
o-Xylene	<0.020		0.020	ug/g	31-AUG-20	02-SEP-20	R5208515
m+p-Xylenes	<0.030		0.030	ug/g	31-AUG-20	02-SEP-20	R5208515
Xylenes (Total)	<0.050		0.050	ug/g		02-SEP-20	
Surrogate: 4-Bromofluorobenzene	74.7		50-140	%	31-AUG-20	02-SEP-20	R5208515
Surrogate: 1,4-Difluorobenzene	87.8		50-140	%	31-AUG-20	02-SEP-20	R5208515
Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	31-AUG-20	02-SEP-20	R5208515
F1-BTEX	<5.0		5.0	ug/g		02-SEP-20	
F2 (C10-C16)	<10		10	ug/g	01-SEP-20	01-SEP-20	R5208369
F3 (C16-C34)	<50		50	ug/g	01-SEP-20	01-SEP-20	R5208369
F4 (C34-C50)	<50		50	ug/g	01-SEP-20	01-SEP-20	R5208369
Total Hydrocarbons (C6-C50)	<72		72	ug/g		02-SEP-20	
Chrom. to baseline at nC50	YES				01-SEP-20	01-SEP-20	R5208369
Surrogate: 2-Bromobenzotrifluoride	78.2		60-140	%	01-SEP-20	01-SEP-20	R5208369
Surrogate: 3,4-Dichlorotoluene	75.6		60-140	%	31-AUG-20	02-SEP-20	R5208515
L2496018-10 BH/MW2 SS6 Sampled By: CLIENT on 26-AUG-20 Matrix: SOIL							
Physical Tests							
% Moisture	13.3		0.25	%	01-SEP-20	01-SEP-20	R5208460
Volatile Organic Compounds							
Acetone	<0.50		0.50	ug/g	31-AUG-20	02-SEP-20	R5208515
Benzene	<0.0068		0.0068	ug/g	31-AUG-20	02-SEP-20	R5208515
Bromodichloromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-10 MW101 SS6 Sampled By: CLIENT on 26-AUG-20 Matrix: SOIL							
Volatile Organic Compounds							
Bromoform	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Bromomethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Carbon tetrachloride	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Chlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Dibromochloromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Chloroform	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dibromoethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dichlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,3-Dichlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,4-Dichlorobenzene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Dichlorodifluoromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1-Dichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1-Dichloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Methylene Chloride	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,2-Dichloropropane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	31-AUG-20	02-SEP-20	R5208515
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	31-AUG-20	02-SEP-20	R5208515
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g		02-SEP-20	
Ethylbenzene	<0.018		0.018	ug/g	31-AUG-20	02-SEP-20	R5208515
n-Hexane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Methyl Ethyl Ketone	<0.50		0.50	ug/g	31-AUG-20	02-SEP-20	R5208515
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	31-AUG-20	02-SEP-20	R5208515
MTBE	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Styrene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Tetrachloroethylene	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Toluene	<0.080		0.080	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,1-Trichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
1,1,2-Trichloroethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Trichloroethylene	0.017		0.010	ug/g	31-AUG-20	02-SEP-20	R5208515
Trichlorofluoromethane	<0.050		0.050	ug/g	31-AUG-20	02-SEP-20	R5208515
Vinyl chloride	<0.020		0.020	ug/g	31-AUG-20	02-SEP-20	R5208515
o-Xylene	<0.020		0.020	ug/g	31-AUG-20	02-SEP-20	R5208515
m+p-Xylenes	<0.030		0.030	ug/g	31-AUG-20	02-SEP-20	R5208515
Xylenes (Total)	<0.050		0.050	ug/g		02-SEP-20	
Surrogate: 4-Bromofluorobenzene	82.4		50-140	%	31-AUG-20	02-SEP-20	R5208515
Surrogate: 1,4-Difluorobenzene	99.3		50-140	%	31-AUG-20	02-SEP-20	R5208515

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2496018-10 BH/MW2 SS6 Sampled By: CLIENT on 26-AUG-20 Matrix: SOIL							
Volatile Organic Compounds Hydrocarbons							
F1 (C6-C10)	<5.0		5.0	ug/g	31-AUG-20	02-SEP-20	R5208515
F1-BTEX	<5.0		5.0	ug/g		02-SEP-20	
F2 (C10-C16)	14		10	ug/g	01-SEP-20	01-SEP-20	R5208369
F3 (C16-C34)	81		50	ug/g	01-SEP-20	01-SEP-20	R5208369
F4 (C34-C50)	<50		50	ug/g	01-SEP-20	01-SEP-20	R5208369
Total Hydrocarbons (C6-C50)	95		72	ug/g		02-SEP-20	
Chrom. to baseline at nC50	YES				01-SEP-20	01-SEP-20	R5208369
Surrogate: 2-Bromobenzotrifluoride	80.2		60-140	%	01-SEP-20	01-SEP-20	R5208369
Surrogate: 3,4-Dichlorotoluene	74.5		60-140	%	31-AUG-20	02-SEP-20	R5208515

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Matrix Spike	Methoxychlor	RRQC	L2496018-2, -3, -4, -5, -7

Comments: RRQC: Analyte recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.

Sample Parameter Qualifier key listed:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
DLQ	Detection Limit raised due to co-eluting interference. GCMS qualifier ion ratio did not meet acceptance criteria.
RRQC	Refer to report remarks for information regarding this QC result.
SDO:RNA	Surrogate diluted out:% recovery not available
SOL:MI	Surrogate recovery outside acceptable limits due to matrix interference

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
B-HWS-R511-WT	Soil	Boron-HWE-O.Reg 153/04 (July 2011)	HW EXTR, EPA 6010B

A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CHLORDANE-T-CALC-WT	Soil	Chlordane Total sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

CN-WAD-R511-WT	Soil	Cyanide (WAD)-O.Reg 153/04 (July 2011)	MOE 3015/APHA 4500CN I-WAD

The sample is extracted with a strong base for 16 hours, and then filtered. The filtrate is then distilled where the cyanide is converted to cyanogen chloride by reacting with chloramine-T, the cyanogen chloride then reacts with a combination of barbituric acid and isonicotinic acid to form a highly colored complex.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-WT	Soil	Hexavalent Chromium in Soil	SW846 3060A/7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

DDD-DDE-DDT-CALC-WT	Soil	DDD, DDE, DDT sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

EC-WT	Soil	Conductivity (EC)	MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

ENDOSULFAN-T-CALC-WT	Soil	Endosulfan Total sums	CALCULATION

Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

F1-F4-511-CALC-WT	Soil	F1-F4 Hydrocarbon Calculated Parameters	CCME CWS-PHC, Pub #1310, Dec 2001-S

Reference Information

Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
In samples where BTEX and F1 were analyzed , F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:
1. All extraction and analysis holding times were met.
2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:
1. All extraction and analysis holding times were met.
2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT Soil F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT Soil F2-F4-O.Reg 153/04 (July 2011) CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:
1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
4. F4G: Gravimetric Heavy Hydrocarbons
5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
8. This method is validated for use.
9. Data from analysis of validation and quality control samples is available upon request.
10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

HG-200.2-CVAA-WT Soil Mercury in Soil by CVAAS EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-200.2-CCMS-WT Soil Metals in Soil by CRC ICPMS EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Soil ABN-Calculated Parameters SW846 8270

Reference Information

MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
PAH-511-WT	Soil	PAH-O.Reg 153/04 (July 2011)	SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking techniqueis used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PEST-OC-511-LOW-WT	Soil	R153 T1 OCPesticides in Sediment	SW846 8270

Samples are extracted using a mechanical shaker with solvent and then a portion is analyzed by GC/MS.

PEST-OC-511-WT	Soil	OC Pesticides-O.Reg 153/04 (July 2011)	SW846 8270 (511)

Soil sample is extracted in a solvent, after extraction a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT	Soil	pH	MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

SAR-R511-WT	Soil	SAR-O.Reg 153/04 (July 2011)	SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

VOC-1,3-DCP-CALC-WT	Soil	Regulation 153 VOCs	SW8260B/SW8270C
VOC-511-HS-WT	Soil	VOC-O.Reg 153/04 (July 2011)	SW846 8260 (511)

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-WT	Soil	Sum of Xylene Isomer Concentrations	CALCULATION

Total xylenes represents the sum of o-xylene and m&p-xylene.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.
mg/kg - milligrams per kilogram based on dry weight of sample
mg/kg wwt - milligrams per kilogram based on wet weight of sample
mg/kg lwt - milligrams per kilogram based on lipid weight of sample
mg/L - unit of concentration based on volume, parts per million.
< - Less than.
D.L. - The reporting limit.
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Quality Control Report

Workorder: L2496018 Report Date: 22-OCT-20

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT	**Soil**							
Batch R5209731								
WG3397140-4 DUP		**L2496017-6**						
Boron (B), Hot Water Ext.		0.77	0.76		ug/g	1.8	30	03-SEP-20
WG3397140-2 IRM		**WT SAR4**						
Boron (B), Hot Water Ext.			102.2		%		70-130	03-SEP-20
WG3397140-3 LCS								
Boron (B), Hot Water Ext.			96.6		%		70-130	03-SEP-20
WG3397140-1 MB								
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	03-SEP-20
Batch R5209807								
WG3397134-4 DUP		**L2496026-5**						
Boron (B), Hot Water Ext.		0.14	0.14		ug/g	1.1	30	03-SEP-20
WG3397134-2 IRM		**WT SAR4**						
Boron (B), Hot Water Ext.			111.0		%		70-130	03-SEP-20
WG3397134-3 LCS								
Boron (B), Hot Water Ext.			100.0		%		70-130	03-SEP-20
WG3397134-1 MB								
Boron (B), Hot Water Ext.			<0.10		ug/g		0.1	03-SEP-20
CN-WAD-R511-WT	**Soil**							
Batch R5208719								
WG3395320-3 DUP		**L2495796-1**						
Cyanide, Weak Acid Diss		<0.050	<0.050	RPD-NA	ug/g	N/A	35	02-SEP-20
WG3395320-2 LCS								
Cyanide, Weak Acid Diss			98.7		%		80-120	02-SEP-20
WG3395320-1 MB								
Cyanide, Weak Acid Diss			<0.050		ug/g		0.05	02-SEP-20
WG3395320-4 MS		**L2495796-1**						
Cyanide, Weak Acid Diss			102.5		%		70-130	02-SEP-20
CR-CR6-IC-WT	**Soil**							
Batch R5209371								
WG3395311-4 CRM		**WT-SQC012**						
Chromium, Hexavalent			109.1		%		70-130	02-SEP-20
WG3395311-3 DUP		**L2496018-5**						
Chromium, Hexavalent		<0.20	<0.20	RPD-NA	ug/g	N/A	35	02-SEP-20
WG3395311-2 LCS								
Chromium, Hexavalent			101.5		%		80-120	02-SEP-20
WG3395311-1 MB								
Chromium, Hexavalent			<0.20		ug/g		0.2	02-SEP-20

Quality Control Report

Workorder: L2496018 Report Date: 22-OCT-20

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WT	**Soil**							
Batch R5209703								
WG3397136-4 DUP		**WG3397136-3**						
Conductivity		0.282	0.282		mS/cm	0.0	20	03-SEP-20
WG3397136-2 IRM		**WT SAR4**						
Conductivity			109.3		%		70-130	03-SEP-20
WG3397398-1 LCS								
Conductivity			97.8		%		90-110	03-SEP-20
WG3397136-1 MB								
Conductivity			<0.0040		mS/cm		0.004	03-SEP-20
Batch R5209756								
WG3397141-4 DUP		**WG3397141-3**						
Conductivity		1.40	1.40		mS/cm	0.4	20	03-SEP-20
WG3397141-2 IRM		**WT SAR4**						
Conductivity			95.7		%		70-130	03-SEP-20
WG3397404-1 LCS								
Conductivity			97.3		%		90-110	03-SEP-20
WG3397141-1 MB								
Conductivity			<0.0040		mS/cm		0.004	03-SEP-20
F1-HS-511-WT	**Soil**							
Batch R5208515								
WG3394487-4 DUP		**WG3394487-3**						
F1 (C6-C10)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	02-SEP-20
WG3394487-2 LCS								
F1 (C6-C10)			98.7		%		80-120	02-SEP-20
WG3394487-1 MB								
F1 (C6-C10)			<5.0		ug/g		5	02-SEP-20
Surrogate: 3,4-Dichlorotoluene			87.9		%		60-140	02-SEP-20
WG3394487-6 MS		**L2496018-9**						
F1 (C6-C10)			98.6		%		60-140	02-SEP-20
F2-F4-511-WT	**Soil**							
Batch R5208369								
WG3395297-3 DUP		**WG3395297-5**						
F2 (C10-C16)		21	29		ug/g	30	30	02-SEP-20
F3 (C16-C34)		128	143		ug/g	11	30	02-SEP-20
F4 (C34-C50)		<50	57	RPD-NA	ug/g	N/A	30	02-SEP-20
WG3395297-2 LCS								
F2 (C10-C16)			88.6		%		80-120	01-SEP-20
F3 (C16-C34)			90.7		%		80-120	01-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	**Soil**							
Batch R5208369								
WG3395297-2 LCS								
F4 (C34-C50)			98.5		%		80-120	01-SEP-20
WG3395297-1 MB								
F2 (C10-C16)			<10		ug/g		10	01-SEP-20
F3 (C16-C34)			<50		ug/g		50	01-SEP-20
F4 (C34-C50)			<50		ug/g		50	01-SEP-20
Surrogate: 2-Bromobenzotrifluoride			78.8		%		60-140	01-SEP-20
WG3395297-4 MS		**WG3395297-5**						
F2 (C10-C16)			90.9		%		60-140	02-SEP-20
F3 (C16-C34)			93.3		%		60-140	02-SEP-20
F4 (C34-C50)			97.4		%		60-140	02-SEP-20
HG-200.2-CVAA-WT	**Soil**							
Batch R5209571								
WG3397137-2 CRM		**WT-SS-2**						
Mercury (Hg)			111.4		%		70-130	03-SEP-20
WG3397137-6 DUP		**WG3397137-5**						
Mercury (Hg)		0.0063	0.0058		ug/g	8.1	40	03-SEP-20
WG3397137-3 LCS								
Mercury (Hg)			101.0		%		80-120	03-SEP-20
WG3397137-1 MB								
Mercury (Hg)			<0.0050		mg/kg		0.005	03-SEP-20
Batch R5209572								
WG3397107-2 CRM		**WT-SS-2**						
Mercury (Hg)			110.5		%		70-130	03-SEP-20
WG3397107-6 DUP		**WG3397107-5**						
Mercury (Hg)		0.0109	0.0126		ug/g	15	40	03-SEP-20
WG3397107-3 LCS								
Mercury (Hg)			106.0		%		80-120	03-SEP-20
WG3397107-1 MB								
Mercury (Hg)			<0.0050		mg/kg		0.005	03-SEP-20
MET-200.2-CCMS-WT	**Soil**							
Batch R5210507								
WG3397137-2 CRM		**WT-SS-2**						
Antimony (Sb)			109.3		%		70-130	04-SEP-20
Arsenic (As)			101.7		%		70-130	04-SEP-20
Barium (Ba)			104.3		%		70-130	04-SEP-20
Beryllium (Be)			102.3		%		70-130	04-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5210507								
WG3397137-2 CRM		**WT-SS-2**						
Boron (B)			10.1		mg/kg		3.5-13.5	04-SEP-20
Cadmium (Cd)			107.1		%		70-130	04-SEP-20
Chromium (Cr)			109.4		%		70-130	04-SEP-20
Cobalt (Co)			107.5		%		70-130	04-SEP-20
Copper (Cu)			105.2		%		70-130	04-SEP-20
Lead (Pb)			101.3		%		70-130	04-SEP-20
Molybdenum (Mo)			102.0		%		70-130	04-SEP-20
Nickel (Ni)			107.0		%		70-130	04-SEP-20
Selenium (Se)			0.14		mg/kg		0-0.34	04-SEP-20
Silver (Ag)			88.5		%		70-130	04-SEP-20
Thallium (Tl)			0.082		mg/kg		0.029-0.129	04-SEP-20
Uranium (U)			108.8		%		70-130	04-SEP-20
Vanadium (V)			109.9		%		70-130	04-SEP-20
Zinc (Zn)			101.8		%		70-130	04-SEP-20
WG3397137-6 DUP		**WG3397137-5**						
Antimony (Sb)		0.13	0.10		ug/g	20	30	04-SEP-20
Arsenic (As)		1.58	1.73		ug/g	8.7	30	04-SEP-20
Barium (Ba)		12.0	12.1		ug/g	0.9	40	04-SEP-20
Beryllium (Be)		0.12	0.11		ug/g	6.3	30	04-SEP-20
Boron (B)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	04-SEP-20
Cadmium (Cd)		0.080	0.073		ug/g	9.4	30	04-SEP-20
Chromium (Cr)		6.64	6.89		ug/g	3.6	30	04-SEP-20
Cobalt (Co)		1.85	1.90		ug/g	2.5	30	04-SEP-20
Copper (Cu)		5.08	5.00		ug/g	1.7	30	04-SEP-20
Lead (Pb)		5.81	5.62		ug/g	3.3	40	04-SEP-20
Molybdenum (Mo)		0.19	0.20		ug/g	6.4	40	04-SEP-20
Nickel (Ni)		4.16	4.19		ug/g	0.7	30	04-SEP-20
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	04-SEP-20
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	04-SEP-20
Thallium (Tl)		<0.050	<0.050	RPD-NA	ug/g	N/A	30	04-SEP-20
Uranium (U)		0.360	0.385		ug/g	6.7	30	04-SEP-20
Vanadium (V)		14.7	15.0		ug/g	2.3	30	04-SEP-20
Zinc (Zn)		30.6	26.8		ug/g	13	30	04-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5210507								
WG3397137-4 LCS								
Antimony (Sb)			99.2		%		80-120	04-SEP-20
Arsenic (As)			98.4		%		80-120	04-SEP-20
Barium (Ba)			101.8		%		80-120	04-SEP-20
Beryllium (Be)			94.4		%		80-120	04-SEP-20
Boron (B)			90.2		%		80-120	04-SEP-20
Cadmium (Cd)			96.8		%		80-120	04-SEP-20
Chromium (Cr)			97.9		%		80-120	04-SEP-20
Cobalt (Co)			95.8		%		80-120	04-SEP-20
Copper (Cu)			96.0		%		80-120	04-SEP-20
Lead (Pb)			97.0		%		80-120	04-SEP-20
Molybdenum (Mo)			100.2		%		80-120	04-SEP-20
Nickel (Ni)			96.8		%		80-120	04-SEP-20
Selenium (Se)			96.7		%		80-120	04-SEP-20
Silver (Ag)			98.5		%		80-120	04-SEP-20
Thallium (Tl)			94.4		%		80-120	04-SEP-20
Uranium (U)			100.7		%		80-120	04-SEP-20
Vanadium (V)			98.8		%		80-120	04-SEP-20
Zinc (Zn)			96.1		%		80-120	04-SEP-20
WG3397137-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	04-SEP-20
Arsenic (As)			<0.10		mg/kg		0.1	04-SEP-20
Barium (Ba)			<0.50		mg/kg		0.5	04-SEP-20
Beryllium (Be)			<0.10		mg/kg		0.1	04-SEP-20
Boron (B)			<5.0		mg/kg		5	04-SEP-20
Cadmium (Cd)			<0.020		mg/kg		0.02	04-SEP-20
Chromium (Cr)			<0.50		mg/kg		0.5	04-SEP-20
Cobalt (Co)			<0.10		mg/kg		0.1	04-SEP-20
Copper (Cu)			<0.50		mg/kg		0.5	04-SEP-20
Lead (Pb)			<0.50		mg/kg		0.5	04-SEP-20
Molybdenum (Mo)			<0.10		mg/kg		0.1	04-SEP-20
Nickel (Ni)			<0.50		mg/kg		0.5	04-SEP-20
Selenium (Se)			<0.20		mg/kg		0.2	04-SEP-20
Silver (Ag)			<0.10		mg/kg		0.1	04-SEP-20
Thallium (Tl)			<0.050		mg/kg		0.05	04-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5210507								
WG3397137-1 MB								
Uranium (U)			<0.050		mg/kg		0.05	04-SEP-20
Vanadium (V)			<0.20		mg/kg		0.2	04-SEP-20
Zinc (Zn)			<2.0		mg/kg		2	04-SEP-20
Batch R5210983								
WG3397107-2 CRM		**WT-SS-2**						
Antimony (Sb)			99.9		%		70-130	04-SEP-20
Arsenic (As)			94.9		%		70-130	04-SEP-20
Barium (Ba)			101.2		%		70-130	04-SEP-20
Beryllium (Be)			92.7		%		70-130	04-SEP-20
Boron (B)			8.9		mg/kg		3.5-13.5	04-SEP-20
Cadmium (Cd)			91.1		%		70-130	04-SEP-20
Chromium (Cr)			98.1		%		70-130	04-SEP-20
Cobalt (Co)			96.4		%		70-130	04-SEP-20
Copper (Cu)			94.9		%		70-130	04-SEP-20
Lead (Pb)			98.5		%		70-130	04-SEP-20
Molybdenum (Mo)			99.0		%		70-130	04-SEP-20
Nickel (Ni)			96.4		%		70-130	04-SEP-20
Selenium (Se)			0.11		mg/kg		0-0.34	04-SEP-20
Silver (Ag)			70.6		%		70-130	04-SEP-20
Thallium (Tl)			0.080		mg/kg		0.029-0.129	04-SEP-20
Uranium (U)			99.0		%		70-130	04-SEP-20
Vanadium (V)			97.9		%		70-130	04-SEP-20
Zinc (Zn)			91.1		%		70-130	04-SEP-20
WG3397107-6 DUP		**WG3397107-5**						
Antimony (Sb)		0.11	0.11		ug/g	0.7	30	04-SEP-20
Arsenic (As)		4.13	4.11		ug/g	0.7	30	04-SEP-20
Barium (Ba)		70.0	69.5		ug/g	0.7	40	04-SEP-20
Beryllium (Be)		0.61	0.61		ug/g	0.7	30	04-SEP-20
Boron (B)		10.3	10.2		ug/g	0.7	30	04-SEP-20
Cadmium (Cd)		0.048	0.047		ug/g	0.7	30	04-SEP-20
Chromium (Cr)		20.2	20.1		ug/g	0.7	30	04-SEP-20
Cobalt (Co)		9.87	9.80		ug/g	0.7	30	04-SEP-20
Copper (Cu)		22.4	22.2		ug/g	0.7	30	04-SEP-20
Lead (Pb)		8.38	8.32		ug/g	0.7	40	04-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5210983								
WG3397107-6 DUP		**WG3397107-5**						
Molybdenum (Mo)		0.31	0.31		ug/g	0.7	40	04-SEP-20
Nickel (Ni)		21.4	21.2		ug/g	0.7	30	04-SEP-20
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	04-SEP-20
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	04-SEP-20
Thallium (Tl)		0.096	0.095		ug/g	0.7	30	04-SEP-20
Uranium (U)		0.610	0.606		ug/g	0.7	30	04-SEP-20
Vanadium (V)		28.2	28.0		ug/g	0.7	30	04-SEP-20
Zinc (Zn)		45.2	44.9		ug/g	0.7	30	04-SEP-20
WG3397107-4 LCS								
Antimony (Sb)			97.3		%		80-120	04-SEP-20
Arsenic (As)			98.9		%		80-120	04-SEP-20
Barium (Ba)			100.6		%		80-120	04-SEP-20
Beryllium (Be)			90.8		%		80-120	04-SEP-20
Boron (B)			87.8		%		80-120	04-SEP-20
Cadmium (Cd)			94.9		%		80-120	04-SEP-20
Chromium (Cr)			95.4		%		80-120	04-SEP-20
Cobalt (Co)			94.7		%		80-120	04-SEP-20
Copper (Cu)			94.0		%		80-120	04-SEP-20
Lead (Pb)			96.6		%		80-120	04-SEP-20
Molybdenum (Mo)			95.5		%		80-120	04-SEP-20
Nickel (Ni)			93.5		%		80-120	04-SEP-20
Selenium (Se)			99.4		%		80-120	04-SEP-20
Silver (Ag)			93.8		%		80-120	04-SEP-20
Thallium (Tl)			95.0		%		80-120	04-SEP-20
Uranium (U)			97.2		%		80-120	04-SEP-20
Vanadium (V)			97.3		%		80-120	04-SEP-20
Zinc (Zn)			95.1		%		80-120	04-SEP-20
WG3397107-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	04-SEP-20
Arsenic (As)			<0.10		mg/kg		0.1	04-SEP-20
Barium (Ba)			<0.50		mg/kg		0.5	04-SEP-20
Beryllium (Be)			<0.10		mg/kg		0.1	04-SEP-20
Boron (B)			<5.0		mg/kg		5	04-SEP-20
Cadmium (Cd)			<0.020		mg/kg		0.02	04-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	**Soil**							
Batch R5210983								
WG3397107-1 MB								
Chromium (Cr)			<0.50		mg/kg		0.5	04-SEP-20
Cobalt (Co)			<0.10		mg/kg		0.1	04-SEP-20
Copper (Cu)			<0.50		mg/kg		0.5	04-SEP-20
Lead (Pb)			<0.50		mg/kg		0.5	04-SEP-20
Molybdenum (Mo)			<0.10		mg/kg		0.1	04-SEP-20
Nickel (Ni)			<0.50		mg/kg		0.5	04-SEP-20
Selenium (Se)			<0.20		mg/kg		0.2	04-SEP-20
Silver (Ag)			<0.10		mg/kg		0.1	04-SEP-20
Thallium (Tl)			<0.050		mg/kg		0.05	04-SEP-20
Uranium (U)			<0.050		mg/kg		0.05	04-SEP-20
Vanadium (V)			<0.20		mg/kg		0.2	04-SEP-20
Zinc (Zn)			<2.0		mg/kg		2	04-SEP-20
MOISTURE-WT	**Soil**							
Batch R5208442								
WG3395489-3 DUP		**L2496016-1**						
% Moisture		11.2	10.7		%	4.4	20	01-SEP-20
WG3395489-2 LCS								
% Moisture			102.7		%		90-110	01-SEP-20
WG3395489-1 MB								
% Moisture			<0.25		%		0.25	01-SEP-20
Batch R5208460								
WG3395496-3 DUP		**L2496062-1**						
% Moisture		5.07	5.60		%	9.9	20	01-SEP-20
WG3395496-2 LCS								
% Moisture			103.8		%		90-110	01-SEP-20
WG3395496-1 MB								
% Moisture			<0.25		%		0.25	01-SEP-20
Batch R5208526								
WG3395903-3 DUP		**L2496618-5**						
% Moisture		5.96	5.67		%	5.0	20	02-SEP-20
WG3395903-2 LCS								
% Moisture			98.7		%		90-110	02-SEP-20
WG3395903-1 MB								
% Moisture			<0.25		%		0.25	02-SEP-20
PAH-511-WT	**Soil**							

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5208617								
WG3394998-3 DUP		**WG3394998-5**						
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	02-SEP-20
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	02-SEP-20
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Benzo(b)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Dibenzo(ah)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	02-SEP-20
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	02-SEP-20
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
WG3394998-2 LCS								
1-Methylnaphthalene			84.7		%		50-140	02-SEP-20
2-Methylnaphthalene			81.8		%		50-140	02-SEP-20
Acenaphthene			89.9		%		50-140	02-SEP-20
Acenaphthylene			86.1		%		50-140	02-SEP-20
Anthracene			79.7		%		50-140	02-SEP-20
Benzo(a)anthracene			82.9		%		50-140	02-SEP-20
Benzo(a)pyrene			85.5		%		50-140	02-SEP-20
Benzo(b)fluoranthene			87.4		%		50-140	02-SEP-20
Benzo(g,h,i)perylene			71.9		%		50-140	02-SEP-20
Benzo(k)fluoranthene			88.1		%		50-140	02-SEP-20
Chrysene			93.1		%		50-140	02-SEP-20
Dibenzo(ah)anthracene			66.0		%		50-140	02-SEP-20
Fluoranthene			77.7		%		50-140	02-SEP-20
Fluorene			87.6		%		50-140	02-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5208617								
WG3394998-2 LCS								
Indeno(1,2,3-cd)pyrene			63.0		%		50-140	02-SEP-20
Naphthalene			84.1		%		50-140	02-SEP-20
Phenanthrene			83.7		%		50-140	02-SEP-20
Pyrene			85.8		%		50-140	02-SEP-20
WG3394998-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	02-SEP-20
2-Methylnaphthalene			<0.030		ug/g		0.03	02-SEP-20
Acenaphthene			<0.050		ug/g		0.05	02-SEP-20
Acenaphthylene			<0.050		ug/g		0.05	02-SEP-20
Anthracene			<0.050		ug/g		0.05	02-SEP-20
Benzo(a)anthracene			<0.050		ug/g		0.05	02-SEP-20
Benzo(a)pyrene			<0.050		ug/g		0.05	02-SEP-20
Benzo(b)fluoranthene			<0.050		ug/g		0.05	02-SEP-20
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	02-SEP-20
Benzo(k)fluoranthene			<0.050		ug/g		0.05	02-SEP-20
Chrysene			<0.050		ug/g		0.05	02-SEP-20
Dibenzo(ah)anthracene			<0.050		ug/g		0.05	02-SEP-20
Fluoranthene			<0.050		ug/g		0.05	02-SEP-20
Fluorene			<0.050		ug/g		0.05	02-SEP-20
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	02-SEP-20
Naphthalene			<0.013		ug/g		0.013	02-SEP-20
Phenanthrene			<0.046		ug/g		0.046	02-SEP-20
Pyrene			<0.050		ug/g		0.05	02-SEP-20
Surrogate: 2-Fluorobiphenyl			90.1		%		50-140	02-SEP-20
Surrogate: p-Terphenyl d14			106.2		%		50-140	02-SEP-20
WG3394998-4 MS		**WG3394998-5**						
1-Methylnaphthalene			83.7		%		50-140	02-SEP-20
2-Methylnaphthalene			81.3		%		50-140	02-SEP-20
Acenaphthene			90.3		%		50-140	02-SEP-20
Acenaphthylene			86.1		%		50-140	02-SEP-20
Anthracene			83.1		%		50-140	02-SEP-20
Benzo(a)anthracene			86.2		%		50-140	02-SEP-20
Benzo(a)pyrene			86.9		%		50-140	02-SEP-20
Benzo(b)fluoranthene			92.2		%		50-140	02-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	**Soil**							
Batch R5208617								
WG3394998-4 MS		**WG3394998-5**						
Benzo(g,h,i)perylene			78.0		%		50-140	02-SEP-20
Benzo(k)fluoranthene			85.6		%		50-140	02-SEP-20
Chrysene			92.6		%		50-140	02-SEP-20
Dibenzo(ah)anthracene			75.0		%		50-140	02-SEP-20
Fluoranthene			81.3		%		50-140	02-SEP-20
Fluorene			89.7		%		50-140	02-SEP-20
Indeno(1,2,3-cd)pyrene			73.5		%		50-140	02-SEP-20
Naphthalene			83.8		%		50-140	02-SEP-20
Phenanthrene			84.3		%		50-140	02-SEP-20
Pyrene			88.6		%		50-140	02-SEP-20
PEST-OC-511-LOW-WT	**Soil**							
Batch R5227117								
WG3404977-3 DUP		**WG3404977-5**						
Aldrin		<0.010	<0.010	RPD-NA	ug/g	N/A	50	15-SEP-20
alpha-BHC		<0.0010	<0.0010	RPD-NA	ug/g	N/A	50	15-SEP-20
beta-BHC		<0.0010	<0.0010	RPD-NA	ug/g	N/A	50	15-SEP-20
a-chlordane		<0.0030	<0.0030	RPD-NA	ug/g	N/A	50	15-SEP-20
g-chlordane		<0.0040	<0.0040	RPD-NA	ug/g	N/A	50	15-SEP-20
o,p-DDD		<0.0040	<0.0040	RPD-NA	ug/g	N/A	40	15-SEP-20
pp-DDD		<0.0040	<0.0040	RPD-NA	ug/g	N/A	50	15-SEP-20
o,p-DDE		<0.015	<0.015	RPD-NA	ug/g	N/A	50	15-SEP-20
pp-DDE		<0.015	<0.015	RPD-NA	ug/g	N/A	50	15-SEP-20
op-DDT		<0.0040	<0.0040	RPD-NA	ug/g	N/A	50	15-SEP-20
pp-DDT		<0.0040	<0.0040	RPD-NA	ug/g	N/A	50	15-SEP-20
Dieldrin		<0.010	<0.010	RPD-NA	ug/g	N/A	50	15-SEP-20
Endosulfan I		<0.0070	<0.0070	RPD-NA	ug/g	N/A	50	15-SEP-20
Endosulfan II		<0.0040	<0.0040	RPD-NA	ug/g	N/A	50	15-SEP-20
Endosulphan Sulphate		<0.013	<0.013	RPD-NA	ug/g	N/A	50	15-SEP-20
Endrin		<0.015	<0.015	RPD-NA	ug/g	N/A	50	15-SEP-20
gamma-hexachlorocyclohexane		<0.0010	<0.0010	RPD-NA	ug/g	N/A	50	15-SEP-20
Heptachlor		<0.0060	<0.0060	RPD-NA	ug/g	N/A	50	15-SEP-20
Heptachlor Epoxide		<0.0050	<0.0050	RPD-NA	ug/g	N/A	50	15-SEP-20
Hexachlorobenzene		<0.0060	<0.0060	RPD-NA	ug/g	N/A	50	15-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-LOW-WT	**Soil**							
Batch R5227117								
WG3404977-3 DUP		**WG3404977-5**						
Hexachlorobutadiene		<0.010	<0.010	RPD-NA	ug/g	N/A	50	15-SEP-20
Hexachloroethane		<0.010	<0.010	RPD-NA	ug/g	N/A	50	15-SEP-20
Methoxychlor		<0.0080	<0.0080	RPD-NA	ug/g	N/A	50	15-SEP-20
Mirex		<0.0070	<0.0070	RPD-NA	ug/g	N/A	50	15-SEP-20
Oxychlordane		<0.0060	<0.0060	RPD-NA	ug/g	N/A	50	15-SEP-20
WG3404977-2 LCS								
Aldrin			103.6		%		50-140	15-SEP-20
alpha-BHC			93.2		%		50-140	15-SEP-20
beta-BHC			83.7		%		50-140	15-SEP-20
a-chlordane			93.6		%		50-140	15-SEP-20
g-chlordane			94.1		%		50-140	15-SEP-20
o,p-DDD			87.6		%		50-140	15-SEP-20
pp-DDD			87.8		%		50-140	15-SEP-20
o,p-DDE			88.7		%		50-140	15-SEP-20
pp-DDE			84.9		%		50-140	15-SEP-20
op-DDT			88.2		%		50-140	15-SEP-20
pp-DDT			83.8		%		50-140	15-SEP-20
Dieldrin			84.2		%		50-140	15-SEP-20
Endosulfan I			92.4		%		40-140	15-SEP-20
Endosulfan II			91.8		%		40-140	15-SEP-20
Endosulphan Sulphate			90.3		%		40-140	15-SEP-20
Endrin			95.2		%		50-140	15-SEP-20
gamma-hexachlorocyclohexane			90.4		%		50-140	15-SEP-20
Heptachlor			88.5		%		50-140	15-SEP-20
Heptachlor Epoxide			96.6		%		50-140	15-SEP-20
Hexachlorobenzene			94.3		%		50-140	15-SEP-20
Hexachlorobutadiene			91.8		%		50-140	15-SEP-20
Hexachloroethane			101.1		%		50-140	15-SEP-20
Methoxychlor			82.0		%		50-140	15-SEP-20
Mirex			87.3		%		50-140	15-SEP-20
Oxychlordane			96.0		%		50-140	15-SEP-20
WG3404977-1 MB								
Aldrin			<0.0020		ug/g		0.002	15-SEP-20
alpha-BHC			<0.0010		ug/g		0.001	15-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-LOW-WT	**Soil**							
Batch	**R5227117**							
WG3404977-1	**MB**							
beta-BHC			<0.0010		ug/g		0.001	15-SEP-20
a-chlordane			<0.0030		ug/g		0.003	15-SEP-20
g-chlordane			<0.0040		ug/g		0.004	15-SEP-20
o,p-DDD			<0.0040		ug/g		0.004	15-SEP-20
pp-DDD			<0.0040		ug/g		0.004	15-SEP-20
o,p-DDE			<0.0030		ug/g		0.003	15-SEP-20
pp-DDE			<0.0030		ug/g		0.003	15-SEP-20
op-DDT			<0.0040		ug/g		0.004	15-SEP-20
pp-DDT			<0.0040		ug/g		0.004	15-SEP-20
Dieldrin			<0.0020		ug/g		0.002	15-SEP-20
Endosulfan I			<0.0040		ug/g		0.004	15-SEP-20
Endosulfan II			<0.0040		ug/g		0.004	15-SEP-20
Endosulphan Sulphate			<0.013		ug/g		0.013	15-SEP-20
Endrin			<0.0030		ug/g		0.003	15-SEP-20
gamma-hexachlorocyclohexane			<0.0010		ug/g		0.001	15-SEP-20
Heptachlor			<0.0060		ug/g		0.006	15-SEP-20
Heptachlor Epoxide			<0.0050		ug/g		0.005	15-SEP-20
Hexachlorobenzene			<0.0060		ug/g		0.006	15-SEP-20
Hexachlorobutadiene			<0.010		ug/g		0.01	15-SEP-20
Hexachloroethane			<0.010		ug/g		0.01	15-SEP-20
Methoxychlor			<0.0080		ug/g		0.008	15-SEP-20
Mirex			<0.0010		ug/g		0.001	15-SEP-20
Oxychlordane			<0.0060		ug/g		0.006	15-SEP-20
Surrogate: 2-Fluorobiphenyl			70.0		%		50-140	15-SEP-20
Surrogate: d14-Terphenyl			61.3		%		50-140	15-SEP-20
WG3404977-4	**MS**	**WG3404977-5**						
Aldrin			99.1		%		50-150	15-SEP-20
alpha-BHC			80.4		%		50-140	15-SEP-20
beta-BHC			65.7		%		50-140	15-SEP-20
a-chlordane			60.7		%		50-150	15-SEP-20
g-chlordane			62.3		%		50-150	15-SEP-20
o,p-DDD			53.7		%		50-150	15-SEP-20
pp-DDD			58.8		%		50-150	15-SEP-20
o,p-DDE			56.2		%		50-150	15-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-LOW-WT	**Soil**							
Batch R5227117								
WG3404977-4 MS		**WG3404977-5**						
pp-DDE			60.5		%		50-150	15-SEP-20
op-DDT			54.9		%		50-150	15-SEP-20
pp-DDT			59.2		%		50-150	15-SEP-20
Dieldrin			51.2		%		50-150	15-SEP-20
Endosulfan I			113.5		%		50-150	15-SEP-20
Endosulfan II			88.3		%		50-150	15-SEP-20
Endosulphan Sulphate			66.8		%		50-140	15-SEP-20
Endrin			75.2		%		50-150	15-SEP-20
gamma-hexachlorocyclohexane			65.7		%		50-150	15-SEP-20
Heptachlor			79.4		%		50-150	15-SEP-20
Heptachlor Epoxide			57.4		%		50-150	15-SEP-20
Hexachlorobenzene			83.6		%		50-140	15-SEP-20
Hexachlorobutadiene			79.0		%		50-140	15-SEP-20
Hexachloroethane			78.6		%		50-140	15-SEP-20
Methoxychlor			96.8		%		50-150	15-SEP-20
Mirex			76.3		%		50-140	15-SEP-20
Oxychlordane			64.6		%		50-140	15-SEP-20
PEST-OC-511-WT	**Soil**							
Batch R5209740								
WG3394518-3 DUP		**WG3394518-5**						
Aldrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
a-chlordane		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
g-chlordane		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
op-DDD		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
pp-DDD		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
o,p-DDE		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
pp-DDE		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
op-DDT		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
pp-DDT		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
Dieldrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
Endosulfan I		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
Endosulfan II		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
Endrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT	**Soil**							
Batch R5209740								
WG3394518-3 DUP		**WG3394518-5**						
gamma-hexachlorocyclohexane		<0.010	<0.010	RPD-NA	ug/g	N/A	40	03-SEP-20
Heptachlor		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
Heptachlor Epoxide		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
Hexachlorobenzene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	03-SEP-20
Hexachlorobutadiene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	03-SEP-20
Hexachloroethane		<0.010	<0.010	RPD-NA	ug/g	N/A	40	03-SEP-20
Methoxychlor		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-SEP-20
WG3394518-2 LCS								
Aldrin			122.8		%		50-140	03-SEP-20
a-chlordane			96.3		%		50-140	03-SEP-20
g-chlordane			88.3		%		50-140	03-SEP-20
op-DDD			96.7		%		50-140	03-SEP-20
pp-DDD			92.2		%		50-140	03-SEP-20
o,p-DDE			83.3		%		50-140	03-SEP-20
pp-DDE			81.4		%		50-140	03-SEP-20
op-DDT			88.3		%		50-140	03-SEP-20
pp-DDT			78.4		%		50-140	03-SEP-20
Dieldrin			91.2		%		50-140	03-SEP-20
Endosulfan I			89.5		%		50-140	03-SEP-20
Endosulfan II			83.1		%		50-140	03-SEP-20
Endrin			130.2		%		50-140	03-SEP-20
gamma-hexachlorocyclohexane			88.2		%		50-140	03-SEP-20
Heptachlor			107.9		%		50-140	03-SEP-20
Heptachlor Epoxide			99.7		%		50-140	03-SEP-20
Hexachlorobenzene			93.9		%		50-140	03-SEP-20
Hexachlorobutadiene			91.8		%		50-140	03-SEP-20
Hexachloroethane			96.1		%		50-140	03-SEP-20
Methoxychlor			98.5		%		50-140	03-SEP-20
WG3394518-1 MB								
Aldrin			<0.020		ug/g		0.02	03-SEP-20
a-chlordane			<0.020		ug/g		0.02	03-SEP-20
g-chlordane			<0.020		ug/g		0.02	03-SEP-20
op-DDD			<0.020		ug/g		0.02	03-SEP-20
pp-DDD			<0.020		ug/g		0.02	03-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT	**Soil**							
Batch R5209740								
WG3394518-1 MB								
o,p-DDE			<0.020		ug/g		0.02	03-SEP-20
pp-DDE			<0.020		ug/g		0.02	03-SEP-20
op-DDT			<0.020		ug/g		0.02	03-SEP-20
pp-DDT			<0.020		ug/g		0.02	03-SEP-20
Dieldrin			<0.020		ug/g		0.02	03-SEP-20
Endosulfan I			<0.020		ug/g		0.02	03-SEP-20
Endosulfan II			<0.020		ug/g		0.02	03-SEP-20
Endrin			<0.020		ug/g		0.02	03-SEP-20
gamma-hexachlorocyclohexane			<0.010		ug/g		0.01	03-SEP-20
Heptachlor			<0.020		ug/g		0.02	03-SEP-20
Heptachlor Epoxide			<0.020		ug/g		0.02	03-SEP-20
Hexachlorobenzene			<0.010		ug/g		0.01	03-SEP-20
Hexachlorobutadiene			<0.010		ug/g		0.01	03-SEP-20
Hexachloroethane			<0.010		ug/g		0.01	03-SEP-20
Methoxychlor			<0.020		ug/g		0.02	03-SEP-20
Surrogate: 2-Fluorobiphenyl			72.7		%		50-140	03-SEP-20
Surrogate: d14-Terphenyl			71.0		%		50-140	03-SEP-20
WG3394518-4 MS		**WG3394518-5**						
Aldrin			134.6		%		50-140	03-SEP-20
a-chlordane			71.2		%		50-140	03-SEP-20
g-chlordane			66.5		%		50-140	03-SEP-20
op-DDD			74.2		%		50-140	03-SEP-20
pp-DDD			89.8		%		50-140	03-SEP-20
o,p-DDE			62.1		%		50-140	03-SEP-20
pp-DDE			63.9		%		50-140	03-SEP-20
op-DDT			85.4		%		50-140	03-SEP-20
pp-DDT			101.3		%		50-140	03-SEP-20
Dieldrin			62.7		%		50-140	03-SEP-20
Endosulfan I			63.7		%		50-140	03-SEP-20
Endosulfan II			71.7		%		50-140	03-SEP-20
Endrin			130.3		%		50-140	03-SEP-20
gamma-hexachlorocyclohexane			85.5		%		50-140	03-SEP-20
Heptachlor			123.8		%		50-140	03-SEP-20
Heptachlor Epoxide			70.9		%		50-140	03-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT	**Soil**							
Batch R5209740								
WG3394518-4 MS		**WG3394518-5**						
Hexachlorobenzene			88.8		%		50-140	03-SEP-20
Hexachlorobutadiene			82.6		%		50-140	03-SEP-20
Hexachloroethane			89.7		%		50-140	03-SEP-20
Methoxychlor			152.6	RRQC	%		50-140	03-SEP-20
COMMENTS: RRQC: Analyte recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.								
PH-WT	**Soil**							
Batch R5209546								
WG3395329-1 DUP		**L2496025-1**						
pH		7.67	7.66	J	pH units	0.01	0.3	03-SEP-20
WG3396573-1 LCS								
pH			7.01		pH units		6.9-7.1	03-SEP-20
SAR-R511-WT	**Soil**							
Batch R5209813								
WG3397141-4 DUP		**WG3397141-3**						
Calcium (Ca)		7.12	7.27		mg/L	2.1	30	03-SEP-20
Sodium (Na)		259	261		mg/L	0.8	30	03-SEP-20
Magnesium (Mg)		0.93	0.95		mg/L	2.3	30	03-SEP-20
WG3397141-2 IRM		**WT SAR4**						
Calcium (Ca)			91.6		%		70-130	03-SEP-20
Sodium (Na)			92.3		%		70-130	03-SEP-20
Magnesium (Mg)			94.0		%		70-130	03-SEP-20
WG3397141-5 LCS								
Calcium (Ca)			118.0		%		80-120	03-SEP-20
Sodium (Na)			115.4		%		80-120	03-SEP-20
Magnesium (Mg)			114.6		%		80-120	03-SEP-20
WG3397141-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	03-SEP-20
Sodium (Na)			<0.50		mg/L		0.5	03-SEP-20
Magnesium (Mg)			<0.50		mg/L		0.5	03-SEP-20
Batch R5209879								
WG3397136-4 DUP		**WG3397136-3**						
Calcium (Ca)		11.2	11.2		mg/L	0.0	30	03-SEP-20
Sodium (Na)		10.2	10.1		mg/L	1.0	30	03-SEP-20
Magnesium (Mg)		14.9	14.8		mg/L	0.7	30	03-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-R511-WT	**Soil**							
Batch R5209879								
WG3397136-2 IRM		**WT SAR4**						
Calcium (Ca)			106.6		%		70-130	03-SEP-20
Sodium (Na)			103.1		%		70-130	03-SEP-20
Magnesium (Mg)			109.4		%		70-130	03-SEP-20
WG3397136-5 LCS								
Calcium (Ca)			97.7		%		80-120	03-SEP-20
Sodium (Na)			94.0		%		80-120	03-SEP-20
Magnesium (Mg)			94.6		%		80-120	03-SEP-20
WG3397136-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	03-SEP-20
Sodium (Na)			<0.50		mg/L		0.5	03-SEP-20
Magnesium (Mg)			<0.50		mg/L		0.5	03-SEP-20
VOC-511-HS-WT	**Soil**							
Batch R5208515								
WG3394487-4 DUP		**WG3394487-3**						
1,1,1,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
1,1,2,2-Tetrachloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	02-SEP-20
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	02-SEP-20
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5208515								
WG3394487-4 DUP		**WG3394487-3**						
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	02-SEP-20
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	02-SEP-20
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	02-SEP-20
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	02-SEP-20
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	02-SEP-20
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	02-SEP-20
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	02-SEP-20
trans-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
trans-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	02-SEP-20
Trichloroethylene		0.021	0.021		ug/g	1.3	40	02-SEP-20
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	02-SEP-20
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	02-SEP-20
WG3394487-2 LCS								
1,1,1,2-Tetrachloroethane			104.1		%		60-130	02-SEP-20
1,1,2,2-Tetrachloroethane			105.0		%		60-130	02-SEP-20
1,1,1-Trichloroethane			102.4		%		60-130	02-SEP-20
1,1,2-Trichloroethane			106.8		%		60-130	02-SEP-20
1,1-Dichloroethane			106.2		%		60-130	02-SEP-20
1,1-Dichloroethylene			96.7		%		60-130	02-SEP-20
1,2-Dibromoethane			99.5		%		70-130	02-SEP-20
1,2-Dichlorobenzene			99.0		%		70-130	02-SEP-20
1,2-Dichloroethane			105.8		%		60-130	02-SEP-20
1,2-Dichloropropane			106.2		%		70-130	02-SEP-20
1,3-Dichlorobenzene			97.2		%		70-130	02-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5208515								
WG3394487-2 LCS								
1,4-Dichlorobenzene			97.8		%		70-130	02-SEP-20
Acetone			118.4		%		60-140	02-SEP-20
Benzene			102.1		%		70-130	02-SEP-20
Bromodichloromethane			113.9		%		50-140	02-SEP-20
Bromoform			107.4		%		70-130	02-SEP-20
Bromomethane			109.5		%		50-140	02-SEP-20
Carbon tetrachloride			103.2		%		70-130	02-SEP-20
Chlorobenzene			105.1		%		70-130	02-SEP-20
Chloroform			104.5		%		70-130	02-SEP-20
cis-1,2-Dichloroethylene			99.3		%		70-130	02-SEP-20
cis-1,3-Dichloropropene			97.2		%		70-130	02-SEP-20
Dibromochloromethane			96.9		%		60-130	02-SEP-20
Dichlorodifluoromethane			69.0		%		50-140	02-SEP-20
Ethylbenzene			102.8		%		70-130	02-SEP-20
n-Hexane			97.0		%		70-130	02-SEP-20
Methylene Chloride			104.4		%		70-130	02-SEP-20
MTBE			99.4		%		70-130	02-SEP-20
m+p-Xylenes			102.5		%		70-130	02-SEP-20
Methyl Ethyl Ketone			104.8		%		60-140	02-SEP-20
Methyl Isobutyl Ketone			112.8		%		60-140	02-SEP-20
o-Xylene			111.9		%		70-130	02-SEP-20
Styrene			104.0		%		70-130	02-SEP-20
Tetrachloroethylene			98.7		%		60-130	02-SEP-20
Toluene			100.3		%		70-130	02-SEP-20
trans-1,2-Dichloroethylene			97.5		%		60-130	02-SEP-20
trans-1,3-Dichloropropene			94.8		%		70-130	02-SEP-20
Trichloroethylene			102.7		%		60-130	02-SEP-20
Trichlorofluoromethane			91.6		%		50-140	02-SEP-20
Vinyl chloride			93.6		%		60-140	02-SEP-20
WG3394487-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	02-SEP-20
1,1,2,2-Tetrachloroethane			<0.050		ug/g		0.05	02-SEP-20
1,1,1-Trichloroethane			<0.050		ug/g		0.05	02-SEP-20
1,1,2-Trichloroethane			<0.050		ug/g		0.05	02-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5208515								
WG3394487-1 MB								
1,1-Dichloroethane			<0.050		ug/g		0.05	02-SEP-20
1,1-Dichloroethylene			<0.050		ug/g		0.05	02-SEP-20
1,2-Dibromoethane			<0.050		ug/g		0.05	02-SEP-20
1,2-Dichlorobenzene			<0.050		ug/g		0.05	02-SEP-20
1,2-Dichloroethane			<0.050		ug/g		0.05	02-SEP-20
1,2-Dichloropropane			<0.050		ug/g		0.05	02-SEP-20
1,3-Dichlorobenzene			<0.050		ug/g		0.05	02-SEP-20
1,4-Dichlorobenzene			<0.050		ug/g		0.05	02-SEP-20
Acetone			<0.50		ug/g		0.5	02-SEP-20
Benzene			<0.0068		ug/g		0.0068	02-SEP-20
Bromodichloromethane			<0.050		ug/g		0.05	02-SEP-20
Bromoform			<0.050		ug/g		0.05	02-SEP-20
Bromomethane			<0.050		ug/g		0.05	02-SEP-20
Carbon tetrachloride			<0.050		ug/g		0.05	02-SEP-20
Chlorobenzene			<0.050		ug/g		0.05	02-SEP-20
Chloroform			<0.050		ug/g		0.05	02-SEP-20
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	02-SEP-20
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	02-SEP-20
Dibromochloromethane			<0.050		ug/g		0.05	02-SEP-20
Dichlorodifluoromethane			<0.050		ug/g		0.05	02-SEP-20
Ethylbenzene			<0.018		ug/g		0.018	02-SEP-20
n-Hexane			<0.050		ug/g		0.05	02-SEP-20
Methylene Chloride			<0.050		ug/g		0.05	02-SEP-20
MTBE			<0.050		ug/g		0.05	02-SEP-20
m+p-Xylenes			<0.030		ug/g		0.03	02-SEP-20
Methyl Ethyl Ketone			<0.50		ug/g		0.5	02-SEP-20
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	02-SEP-20
o-Xylene			<0.020		ug/g		0.02	02-SEP-20
Styrene			<0.050		ug/g		0.05	02-SEP-20
Tetrachloroethylene			<0.050		ug/g		0.05	02-SEP-20
Toluene			<0.080		ug/g		0.08	02-SEP-20
trans-1,2-Dichloroethylene			<0.050		ug/g		0.05	02-SEP-20
trans-1,3-Dichloropropene			<0.030		ug/g		0.03	02-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5208515								
WG3394487-1 MB								
Trichloroethylene			<0.010		ug/g		0.01	02-SEP-20
Trichlorofluoromethane			<0.050		ug/g		0.05	02-SEP-20
Vinyl chloride			<0.020		ug/g		0.02	02-SEP-20
Surrogate: 1,4-Difluorobenzene			95.2		%		50-140	02-SEP-20
Surrogate: 4-Bromofluorobenzene			82.1		%		50-140	02-SEP-20
WG3394487-5 MS		**WG3394487-3**						
1,1,1,2-Tetrachloroethane			106.3		%		50-140	02-SEP-20
1,1,2,2-Tetrachloroethane			110.6		%		50-140	02-SEP-20
1,1,1-Trichloroethane			104.9		%		50-140	02-SEP-20
1,1,2-Trichloroethane			115.8		%		50-140	02-SEP-20
1,1-Dichloroethane			111.7		%		50-140	02-SEP-20
1,1-Dichloroethylene			100.2		%		50-140	02-SEP-20
1,2-Dibromoethane			105.9		%		50-140	02-SEP-20
1,2-Dichlorobenzene			101.3		%		50-140	02-SEP-20
1,2-Dichloroethane			113.5		%		50-140	02-SEP-20
1,2-Dichloropropane			111.9		%		50-140	02-SEP-20
1,3-Dichlorobenzene			97.4		%		50-140	02-SEP-20
1,4-Dichlorobenzene			98.1		%		50-140	02-SEP-20
Acetone			135.7		%		50-140	02-SEP-20
Benzene			106.0		%		50-140	02-SEP-20
Bromodichloromethane			119.2		%		50-140	02-SEP-20
Bromoform			112.0		%		50-140	02-SEP-20
Bromomethane			112.2		%		50-140	02-SEP-20
Carbon tetrachloride			105.1		%		50-140	02-SEP-20
Chlorobenzene			106.9		%		50-140	02-SEP-20
Chloroform			108.7		%		50-140	02-SEP-20
cis-1,2-Dichloroethylene			113.9		%		50-140	02-SEP-20
cis-1,3-Dichloropropene			95.7		%		50-140	02-SEP-20
Dibromochloromethane			100.9		%		50-140	02-SEP-20
Dichlorodifluoromethane			78.5		%		50-140	02-SEP-20
Ethylbenzene			103.9		%		50-140	02-SEP-20
n-Hexane			102.1		%		50-140	02-SEP-20
Methylene Chloride			110.3		%		50-140	02-SEP-20
MTBE			102.1		%		50-140	02-SEP-20

Quality Control Report

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	**Soil**							
Batch R5208515								
WG3394487-5 MS		**WG3394487-3**						
m+p-Xylenes			103.0		%		50-140	02-SEP-20
Methyl Ethyl Ketone			102.3		%		50-140	02-SEP-20
Methyl Isobutyl Ketone			122.0		%		50-140	02-SEP-20
o-Xylene			113.3		%		50-140	02-SEP-20
Styrene			104.9		%		50-140	02-SEP-20
Tetrachloroethylene			100.6		%		50-140	02-SEP-20
Toluene			104.1		%		50-140	02-SEP-20
trans-1,2-Dichloroethylene			99.3		%		50-140	02-SEP-20
trans-1,3-Dichloropropene			93.7		%		50-140	02-SEP-20
Trichloroethylene			103.4		%		50-140	02-SEP-20
Trichlorofluoromethane			95.4		%		50-140	02-SEP-20
Vinyl chloride			98.4		%		50-140	02-SEP-20

Quality Control Report

Workorder: L2496018 Report Date: 22-OCT-20

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.
RRQC	Refer to report remarks for information regarding this QC result.

Quality Control Report

Workorder: L2496018 Report Date: 22-OCT-20

Client: LANDTEK LIMITED
205 Nebo Road Unit 3
Hamilton ON L8W 2E1
Contact: Nicole Harper

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Pesticides							
R153 T1 OCPesticides in Sediment							
	4	26-AUG-20	10-SEP-20 04:00	14	15	days	EHT
	7	26-AUG-20	10-SEP-20 04:00	14	15	days	EHT

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2496018 were received on 28-AUG-20 16:00.

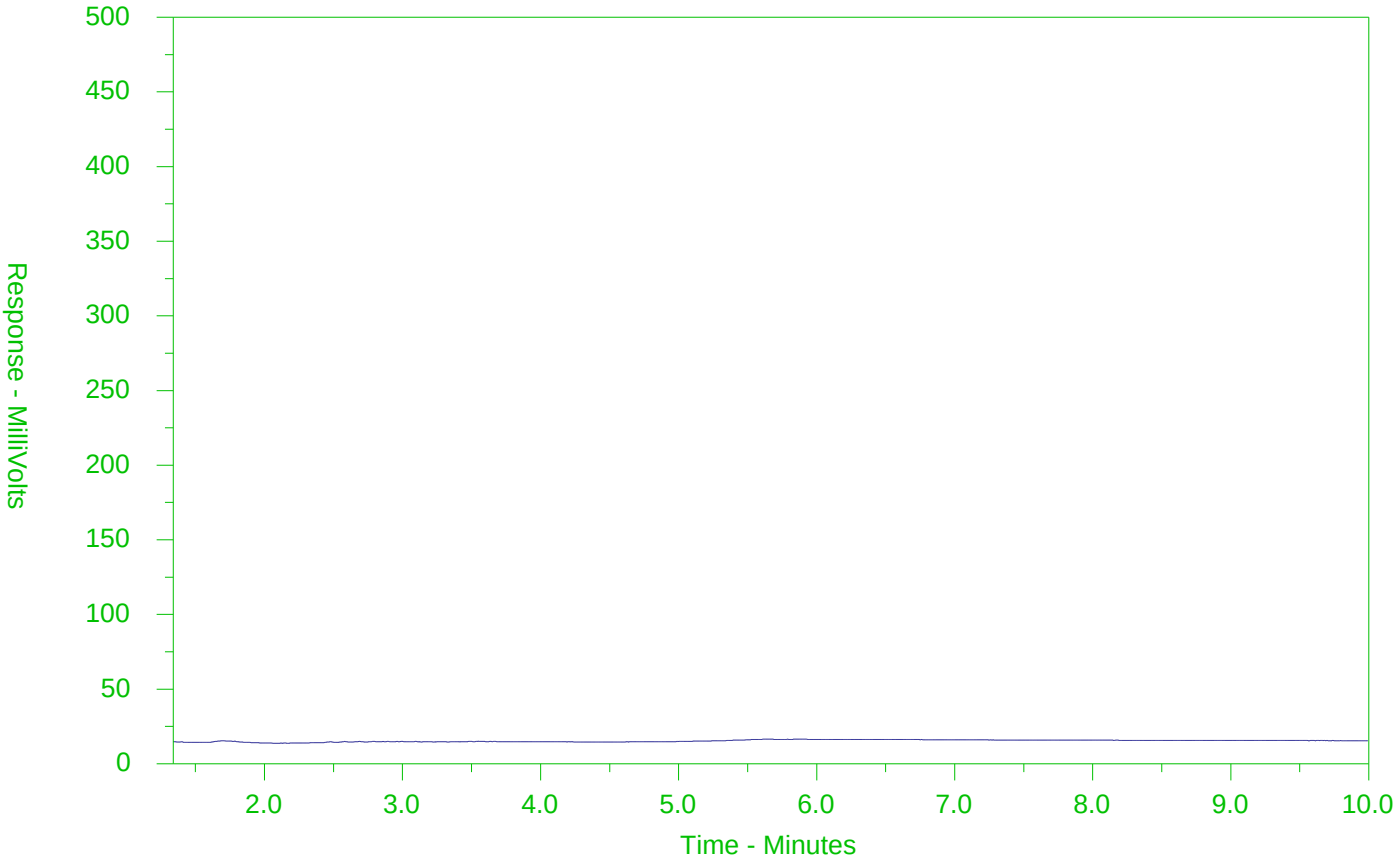
ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2496018-6
Client Sample ID: **BH/**MW**6** SS5



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

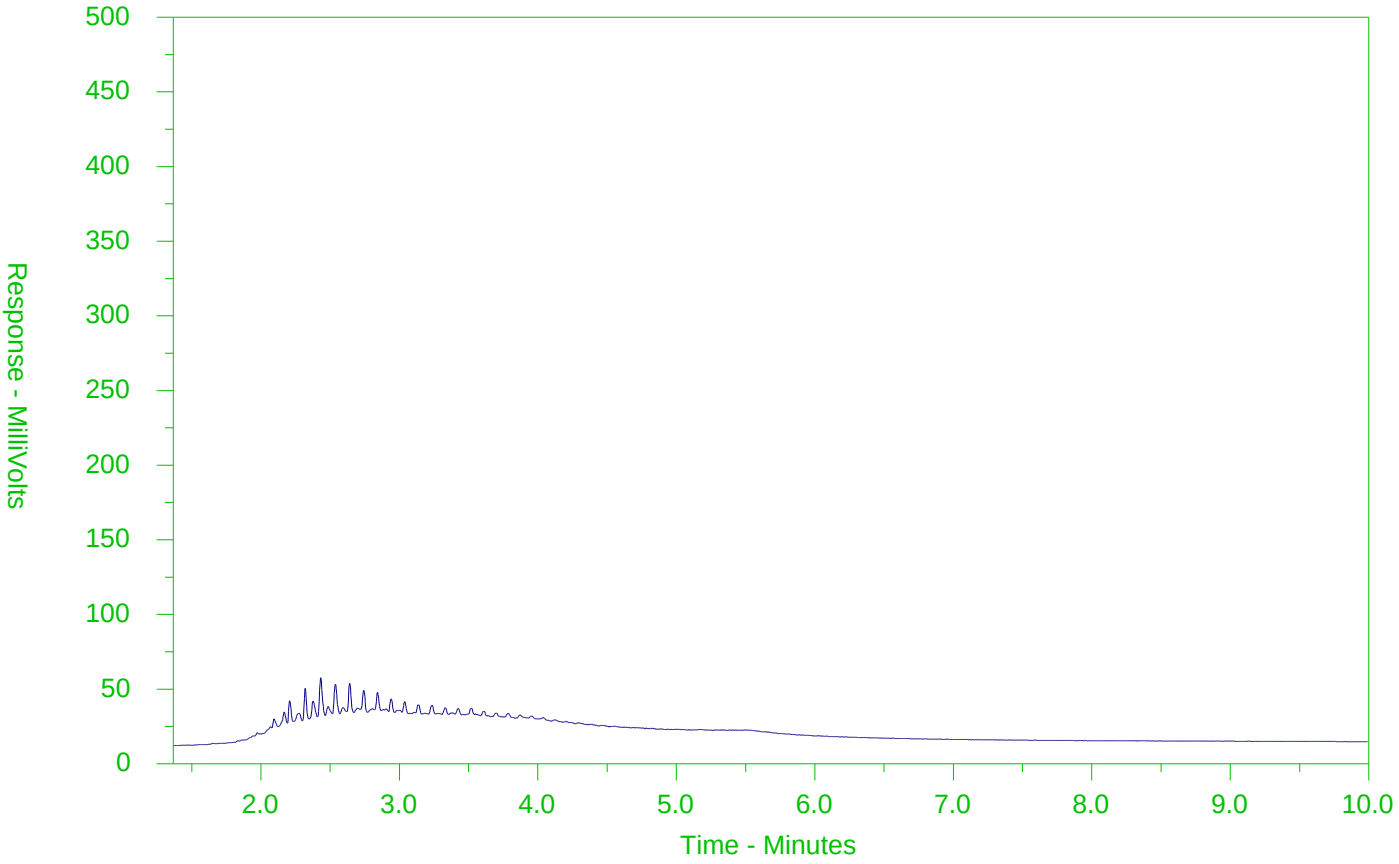
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2496018-8
Client Sample ID: **BH1** SS2



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

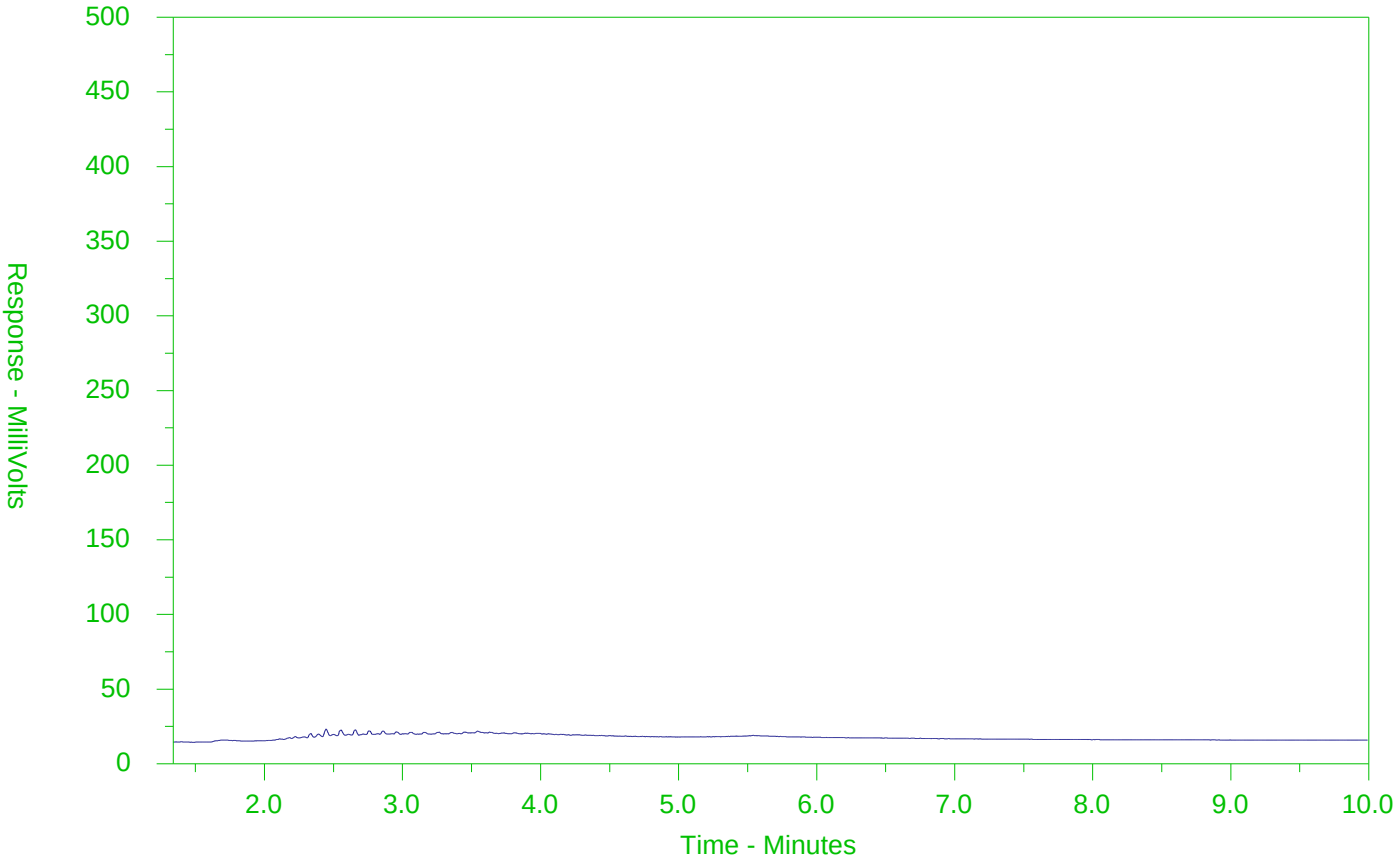
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2496018-9
Client Sample ID: **BH3** SS5



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →	← Motor Oils/Lube Oils/Grease →		
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

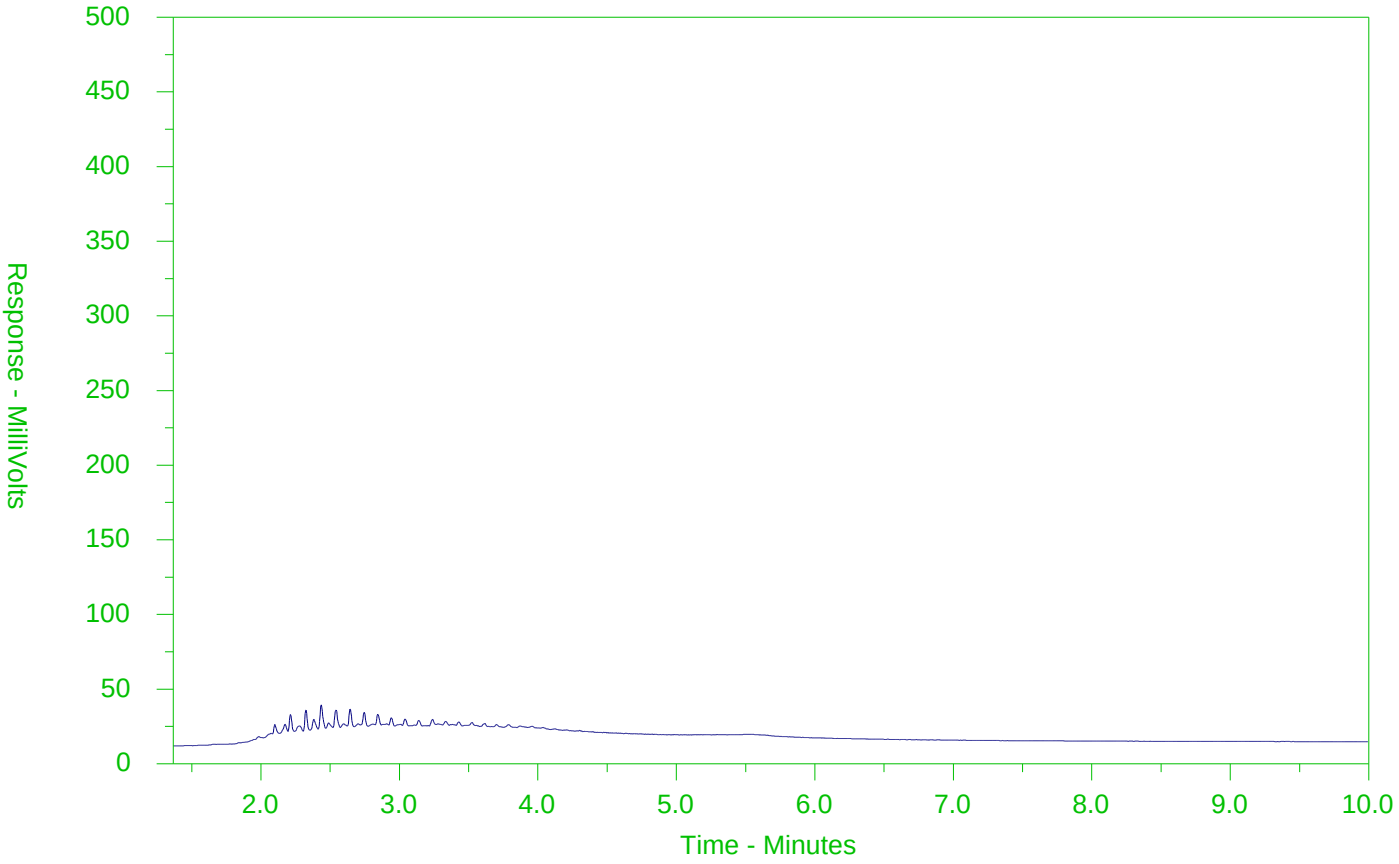
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT

ALS Sample ID: L2496018-10
Client Sample ID: **BH/**MW**2** SS6



←F2→	←F3→	←F4→	
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasoline →		← Motor Oils/Lube Oils/Grease →	
← Diesel/Jet Fuels →			

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.

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Certificate of Analysis

Landtek Limited

205 Nebo Road, Unit 3
Hamilton, ON L8W2E1
Attn: Paul Blunt

Client PO: 20257A
Project: 20257A
Custody: 5011

Report Date: 19-Oct-2020
Order Date: 15-Oct-2020

Order #: 2042374

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
2042374-01	MW2

Approved By:



Milan Ralitsch, PhD
Senior Technical Manager

Any use of these results implies your agreement that our total liabilty in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.

Certificate of Analysis

Client: **Landtek Limited**

Client PO: **20257A**

Report Date: 19-Oct-2020

Order Date: 15-Oct-2020

Project Description: 20257A

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
PHC F1	CWS Tier 1 - P&T GC-FID	16-Oct-20	19-Oct-20
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	15-Oct-20	19-Oct-20
REG 153: VOCs by P&T GC-MS	EPA 624 - P&T GC-MS	19-Oct-20	19-Oct-20

Certificate of Analysis

Report Date: 19-Oct-2020

Client: **Landtek Limited**

Order Date: 15-Oct-2020

Client PO: **20257A**

Project Description: **20257A**

	Client ID:	MW2	-	-	-
	Sample Date:	15-Oct-20 09:00	-	-	-
	Sample ID:	2042374-01	-	-	-
	MDL/Units	Ground Water	-	-	-
Volatiles					
Acetone	5.0 ug/L	<5.0	-	-	-
Benzene	0.5 ug/L	<0.5	-	-	-
Bromodichloromethane	0.5 ug/L	<0.5	-	-	-
Bromoform	0.5 ug/L	<0.5	-	-	-
Bromomethane	0.5 ug/L	<0.5	-	-	-
Carbon Tetrachloride	0.2 ug/L	<0.2	-	-	-
Chlorobenzene	0.5 ug/L	<0.5	-	-	-
Chloroform	0.5 ug/L	<0.5	-	-	-
Dibromochloromethane	0.5 ug/L	<0.5	-	-	-
Dichlorodifluoromethane	1.0 ug/L	<1.0	-	-	-
1,2-Dibromoethane	0.2 ug/L	<0.2	-	-	-
1,2-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-
1,3-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-
1,4-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-
1,1-Dichloroethane	0.5 ug/L	<0.5	-	-	-
1,2-Dichloroethane	0.5 ug/L	<0.5	-	-	-
1,1-Dichloroethylene	0.5 ug/L	<0.5	-	-	-
cis-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-
1,2-Dichloroethylene, total	0.5 ug/L	<0.5	-	-	-
1,2-Dichloropropane	0.5 ug/L	<0.5	-	-	-
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-
1,3-Dichloropropene, total	0.5 ug/L	<0.5	-	-	-
Ethylbenzene	0.5 ug/L	<0.5	-	-	-
Hexane	1.0 ug/L	<1.0	-	-	-
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	-	-	-
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	-	-	-
Methyl tert-butyl ether	2.0 ug/L	<2.0	-	-	-
Methylene Chloride	5.0 ug/L	<5.0	-	-	-
Styrene	0.5 ug/L	<0.5	-	-	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-
Tetrachloroethylene	0.5 ug/L	<0.5	-	-	-
Toluene	0.5 ug/L	<0.5	-	-	-

Certificate of Analysis

Client: Landtek Limited

Client PO: 20257A

Report Date: 19-Oct-2020

Order Date: 15-Oct-2020

Project Description: 20257A

	Client ID:	MW2	-	-	-
	Sample Date:	15-Oct-20 09:00	-	-	-
	Sample ID:	2042374-01	-	-	-
	MDL/Units	Ground Water	-	-	-
1,1,1-Trichloroethane	0.5 ug/L	<0.5	-	-	-
1,1,2-Trichloroethane	0.5 ug/L	<0.5	-	-	-
Trichloroethylene	0.5 ug/L	<0.5	-	-	-
Trichlorofluoromethane	1.0 ug/L	<1.0	-	-	-
Vinyl chloride	0.5 ug/L	<0.5	-	-	-
m,p-Xylenes	0.5 ug/L	<0.5	-	-	-
o-Xylene	0.5 ug/L	<0.5	-	-	-
Xylenes, total	0.5 ug/L	<0.5	-	-	-
4-Bromofluorobenzene	Surrogate	95.4%	-	-	-
Dibromofluoromethane	Surrogate	85.1%	-	-	-
Toluene-d8	Surrogate	104%	-	-	-
Hydrocarbons					
F1 PHCs (C6-C10)	25 ug/L	<25	-	-	-
F2 PHCs (C10-C16)	100 ug/L	<100	-	-	-
F3 PHCs (C16-C34)	100 ug/L	<100	-	-	-
F4 PHCs (C34-C50)	100 ug/L	<100	-	-	-

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L						
F2 PHCs (C10-C16)	ND	100	ug/L						
F3 PHCs (C16-C34)	ND	100	ug/L						
F4 PHCs (C34-C50)	ND	100	ug/L						
Volatiles									
Acetone	ND	5.0	ug/L						
Benzene	ND	0.5	ug/L						
Bromodichloromethane	ND	0.5	ug/L						
Bromoform	ND	0.5	ug/L						
Bromomethane	ND	0.5	ug/L						
Carbon Tetrachloride	ND	0.2	ug/L						
Chlorobenzene	ND	0.5	ug/L						
Chloroform	ND	0.5	ug/L						
Dibromochloromethane	ND	0.5	ug/L						
Dichlorodifluoromethane	ND	1.0	ug/L						
1,2-Dibromoethane	ND	0.2	ug/L						
1,2-Dichlorobenzene	ND	0.5	ug/L						
1,3-Dichlorobenzene	ND	0.5	ug/L						
1,4-Dichlorobenzene	ND	0.5	ug/L						
1,1-Dichloroethane	ND	0.5	ug/L						
1,2-Dichloroethane	ND	0.5	ug/L						
1,1-Dichloroethylene	ND	0.5	ug/L						
cis-1,2-Dichloroethylene	ND	0.5	ug/L						
trans-1,2-Dichloroethylene	ND	0.5	ug/L						
1,2-Dichloroethylene, total	ND	0.5	ug/L						
1,2-Dichloropropane	ND	0.5	ug/L						
cis-1,3-Dichloropropylene	ND	0.5	ug/L						
trans-1,3-Dichloropropylene	ND	0.5	ug/L						
1,3-Dichloropropene, total	ND	0.5	ug/L						
Ethylbenzene	ND	0.5	ug/L						
Hexane	ND	1.0	ug/L						
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L						
Methyl Isobutyl Ketone	ND	5.0	ug/L						
Methyl tert-butyl ether	ND	2.0	ug/L						
Methylene Chloride	ND	5.0	ug/L						
Styrene	ND	0.5	ug/L						
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L						
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L						
Tetrachloroethylene	ND	0.5	ug/L						
Toluene	ND	0.5	ug/L						
1,1,1-Trichloroethane	ND	0.5	ug/L						
1,1,2-Trichloroethane	ND	0.5	ug/L						
Trichloroethylene	ND	0.5	ug/L						
Trichlorofluoromethane	ND	1.0	ug/L						
Vinyl chloride	ND	0.5	ug/L						
m,p-Xylenes	ND	0.5	ug/L						
o-Xylene	ND	0.5	ug/L						
Xylenes, total	ND	0.5	ug/L						
Surrogate: 4-Bromofluorobenzene	*83.7*		*ug/L*		*104*	*50-140*			
Surrogate: Dibromofluoromethane	*77.0*		*ug/L*		*95.6*	*50-140*			
Surrogate: Toluene-d8	*83.3*		*ug/L*		*103*	*50-140*			

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L	ND			NC	30	
Volatiles									
Acetone	ND	5.0	ug/L	ND			NC	30	
Benzene	ND	0.5	ug/L	ND			NC	30	
Bromodichloromethane	ND	0.5	ug/L	ND			NC	30	
Bromoform	ND	0.5	ug/L	ND			NC	30	
Bromomethane	ND	0.5	ug/L	ND			NC	30	
Carbon Tetrachloride	ND	0.2	ug/L	ND			NC	30	
Chlorobenzene	ND	0.5	ug/L	ND			NC	30	
Chloroform	ND	0.5	ug/L	ND			NC	30	
Dibromochloromethane	ND	0.5	ug/L	ND			NC	30	
Dichlorodifluoromethane	ND	1.0	ug/L	ND			NC	30	
1,2-Dibromoethane	ND	0.2	ug/L	ND			NC	30	
1,2-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,3-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,4-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
cis-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
trans-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloropropane	ND	0.5	ug/L	ND			NC	30	
cis-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Hexane	ND	1.0	ug/L	ND			NC	30	
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L	ND			NC	30	
Methyl Isobutyl Ketone	ND	5.0	ug/L	ND			NC	30	
Methyl tert-butyl ether	ND	2.0	ug/L	ND			NC	30	
Methylene Chloride	ND	5.0	ug/L	ND			NC	30	
Styrene	ND	0.5	ug/L	ND			NC	30	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
Tetrachloroethylene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
Trichloroethylene	ND	0.5	ug/L	ND			NC	30	
Trichlorofluoromethane	ND	1.0	ug/L	ND			NC	30	
Vinyl chloride	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: 4-Bromofluorobenzene	*79.4*		*ug/L*		*98.9*	*50-140*			
Surrogate: Dibromofluoromethane	*71.6*		*ug/L*		*88.9*	*50-140*			
Surrogate: Toluene-d8	*83.9*		*ug/L*		*104*	*50-140*			

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	609	25	ug/L	ND	86.2	68-117			
F2 PHCs (C10-C16)	1600	100	ug/L	ND	97.1	60-140			
F3 PHCs (C16-C34)	3930	100	ug/L	ND	106	60-140			
F4 PHCs (C34-C50)	2800	100	ug/L	ND	105	60-140			
Volatiles									
Acetone	87.8	5.0	ug/L	ND	89.9	50-140			
Benzene	40.6	0.5	ug/L	ND	101	50-140			
Bromodichloromethane	38.1	0.5	ug/L	ND	95.2	50-140			
Bromoform	35.2	0.5	ug/L	ND	87.5	50-140			
Bromomethane	37.0	0.5	ug/L	ND	92.1	50-140			
Carbon Tetrachloride	36.4	0.2	ug/L	ND	90.9	50-140			
Chlorobenzene	35.8	0.5	ug/L	ND	89.0	50-140			
Chloroform	36.9	0.5	ug/L	ND	91.7	50-140			
Dibromochloromethane	36.6	0.5	ug/L	ND	91.6	50-140			
Dichlorodifluoromethane	29.1	1.0	ug/L	ND	72.3	50-140			
1,2-Dibromoethane	35.9	0.2	ug/L	ND	89.3	50-140			
1,2-Dichlorobenzene	36.5	0.5	ug/L	ND	90.7	50-140			
1,3-Dichlorobenzene	37.1	0.5	ug/L	ND	92.3	50-140			
1,4-Dichlorobenzene	35.4	0.5	ug/L	ND	88.1	50-140			
1,1-Dichloroethane	34.0	0.5	ug/L	ND	84.5	50-140			
1,2-Dichloroethane	39.5	0.5	ug/L	ND	98.3	50-140			
1,1-Dichloroethylene	32.0	0.5	ug/L	ND	79.7	50-140			
cis-1,2-Dichloroethylene	34.4	0.5	ug/L	1.85	81.1	50-140			
trans-1,2-Dichloroethylene	35.6	0.5	ug/L	ND	87.9	50-140			
1,2-Dichloropropane	38.1	0.5	ug/L	ND	94.7	50-140			
cis-1,3-Dichloropropylene	39.2	0.5	ug/L	ND	97.4	50-140			
trans-1,3-Dichloropropylene	39.5	0.5	ug/L	ND	98.3	50-140			
Ethylbenzene	36.4	0.5	ug/L	ND	91.0	50-140			
Hexane	48.1	1.0	ug/L	ND	120	50-140			
Methyl Ethyl Ketone (2-Butanone)	97.6	5.0	ug/L	ND	95.3	50-140			
Methyl Isobutyl Ketone	104	5.0	ug/L	ND	107	50-140			
Methyl tert-butyl ether	104	2.0	ug/L	ND	104	50-140			
Methylene Chloride	25.8	5.0	ug/L	ND	64.4	50-140			
Styrene	36.9	0.5	ug/L	ND	91.8	50-140			
1,1,1,2-Tetrachloroethane	37.1	0.5	ug/L	ND	92.4	50-140			
1,1,2,2-Tetrachloroethane	36.6	0.5	ug/L	ND	90.9	50-140			
Tetrachloroethylene	37.9	0.5	ug/L	ND	94.2	50-140			
Toluene	37.5	0.5	ug/L	ND	93.7	50-140			
1,1,1-Trichloroethane	35.5	0.5	ug/L	ND	88.2	50-140			
1,1,2-Trichloroethane	39.2	0.5	ug/L	ND	97.6	50-140			
Trichloroethylene	39.6	0.5	ug/L	ND	97.4	50-140			
Trichlorofluoromethane	25.8	1.0	ug/L	ND	64.4	50-140			
Vinyl chloride	31.3	0.5	ug/L	ND	78.0	50-140			
m,p-Xylenes	72.2	0.5	ug/L	ND	90.3	50-140			
o-Xylene	35.9	0.5	ug/L	ND	89.2	50-140			
Surrogate: 4-Bromofluorobenzene	*83.9*		*ug/L*		*104*	*50-140*			
Surrogate: Dibromofluoromethane	*86.1*		*ug/L*		*107*	*50-140*			
Surrogate: Toluene-d8	*79.9*		*ug/L*		*99.2*	*50-140*			

Qualifier Notes:

None

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable
ND: Not Detected
MDL: Method Detection Limit
Source Result: Data used as source for matrix and duplicate samples
%REC: Percent recovery.
RPD: Relative percent difference.
NC: Not Calculated

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.