

Phase Two Environmental Site Assessment

Erin Heights Golf Course
5525 8 Line
Erin, ON

Prepared For:

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Executive Summary

DS Consultants Ltd. (DS) was retained by Empire Communities (the “Client”) to conduct a Phase Two Environmental Site Assessment (ESA) of the Property located at 5525 8 Line, Erin, ON, herein referred to as the “Phase Two Property”. DS understands that this Phase Two ESA has been requested for due diligence purposes and may be used to support the filing of a Record of Site Condition (RSC) which will be required as part of the proposed residential redevelopment of the Phase Two Property.

The Phase Two ESA was completed to satisfy the intent of the requirements, methodology and practices for a Phase Two ESA as described in Ontario Regulation 153/04 (as amended). The objective of this Phase Two ESA is to confirm whether contaminants are present, and at what concentration are they present on the Phase Two Property, as related to the Areas of Potential Environmental Concern (APEC) identified in the Phase One ESA.

The Phase Two Property is a 14.135 hectare (34.9295 acres) parcel of land situated within a rural neighbourhood in the Town of Erin, Ontario. The Phase Two Property is located approximately 75 m northeast of the intersection of 8 Line and Erin Heights Drive, and was occupied by Erin Heights Golf Course at the time of this investigation.

The Phase One ESA completed concurrently indicated that the Phase Two Property was historically used for agricultural purposes from at least 1860 until 1970 at which point the Phase One Property was developed for commercial purposes as a golf course. A total of three (3) Potentially Contaminating Activities (PCAs) were identified in the Phase One ESA, which were considered to be contributing to three (3) APECs on the Phase Two Property. A summary of the APECs, associated PCAs, and contaminants of potential concern (COPC) identified is presented in the table below:

Table E-1: Summary of APECs

| Area of Potential Environmental Concern | Location of Area of Potential Environmental Concern on Phase One Property | Potentially Contaminating Activity | Location of PCA (on-site or off-site) | Contaminants of Potential Concern | Media Potentially Impacted (Ground water, soil and/or sediment) |
|--|--|---|--|---|--|
| APEC-1 | South-Central portion of the Site, west adjacent to the maintenance shop. | PCA-1: #28: Gasoline and Associated Products Storage in Fixed Tanks | Off-Site | Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, VOCs, PHCs, PAHs | Soil and Groundwater |
| APEC-2 | South-Central portion of the Site. | PCA-2: #27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles | On-Site | Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, VOCs, PHCs, PAHs | Soil and Groundwater |
| APEC-3 | South-Central portion of the Site, east of the maintenance shop. | PCA-3: #49: Salvage Yard, including automobile wrecking | On-Site | Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, VOCs, PHCs, PAHs | Soil and Groundwater |

Based on the findings of the Phase One ESA it was concluded that a Phase Two ESA is warranted in order to assess the soil and groundwater conditions on the Phase Two Property.

The Phase Two ESA was conducted concurrently with a geotechnical investigation. A total of 12 boreholes were completed between April 15, 2021 and April 22, 2021. The boreholes were advanced to a maximum depth of 11 metres below ground surface (mbgs) under the supervision of DS personnel. Four (4) of the 12 boreholes were used for environmental purposes to assess APECs identified by the Phase One ESA. A total of five (5) monitoring wells were installed, three (3) of which were used to assess groundwater quality and four (4) wells were used to assess groundwater flow direction.

Select “worst case” soil samples were collected from the environmental boreholes and submitted for chemical analysis as follows:

- ◆ Eight (8) samples, including 1 QA/QC duplicate for analysis of Metals, As, Sb, Se, CN-, B-HWS, Hg, Cr(VI), EC, SAR and pH;
- ◆ Seven (7) samples for analysis of petroleum hydrocarbons (PHCs) and benzene, toluene, ethylbenzene and xylenes (BTEX);
- ◆ Seven (7) samples for analysis of volatile organic compounds (VOCs); and

- ◆ Seven (7) samples, including 1 QA/QC duplicate for analysis of polycyclic aromatic hydrocarbons.

Groundwater samples were obtained from monitoring wells MW21-1, MW21-10 and MW21-11 and submitted for chemical analysis of metals, As, Sb, Se, CN-, Hg, Cr(VI), Na, Cl, PHCs, BTEX, VOCs and PAHs.

The soil and groundwater analytical results were compared to the “Table 1: Full Depth Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Use” provided in the MECP document entitled, “*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*” dated April 15, 2011 (Table 1 SCS).

Based on the findings of the Phase Two ESA, DS presents the following findings:

- ◆ A surficial layer of topsoil ranged from 100 mm to 350 mm and was encountered in all of the boreholes advanced, except at MW-21-1 and MW21-10 (250 mm granular fill), MW21-11 (50mm asphalt) and MW21-12 (silty sand). Fill (probable reworked native soils) of silt and sand to silty sand with trace gravel and trace clay was encountered to depths ranging from 1.5 to 3.0 mbgs with the exception of BH21-6 to BH21-8 with gravelly sand to sandy gravel ranging from 1.5 to 4.6 m in depth. Glacial deposits of silty sand till with trace amounts of gravel, clay and cobble/boulders was encountered below the re-worked native and extended the entire depth of the boreholes explored (7.7 to 11 mbgs).
- ◆ The depth to groundwater was measured in five (5) monitoring wells installed during the course of this investigation. The monitoring wells were screened to intercept the groundwater water table. The groundwater levels were found to range between 1.18 to 6.33 mbgs with corresponding elevations of 397.6 to 418.6 metres above sea level (masl). Based on the groundwater elevations recorded, the groundwater flow direction appears to be north towards the Erin Branch of the Credit River. It is possible that the groundwater levels may vary seasonally. The groundwater levels may also be impacted by other factors such as historical infilling activities, subsurface utility trenches, and similar subsurface anomalies. The groundwater flow direction can only be confirmed through long term monitoring.
- ◆ The results of the soil chemical analyses indicated that all of the samples analysed met the MECP Table 1 SCS, with the following exceptions:

Table E-2: Summary of Soil Impacts Identified

| Sample ID | Sample Depth (mbgs) | Parameter | Units | Table 1 Standard | Analytical Result |
|-------------|---------------------|----------------|-------|------------------|-------------------|
| MW21-10 SS1 | 0.0-0.6 | Mercury | ug/g | 0.27 | 0.898 |
| MW21-11 SS1 | 0-0.6 | Conductivity | mS/cm | 0.57 | 0.648 |
| BH21-12 SS1 | 0-0.6 | F3 (C16-C34) | ug/g | 240 | 390 |
| | | F4 (C34-C50) | ug/g | 120 | 2670 |
| GS1 | 0.1-0.2 | Lead | ug/g | 120 | 161 |
| | | Mercury | ug/g | 0.27 | 1.05 |
| | | F2 (C10-C16) | ug/g | 10 | 3930 |
| | | F3 (C16-C34) | ug/g | 240 | 14200 |
| | | F4 (C34-C50) | ug/g | 120 | 355 |
| | | Acenaphthene | ug/g | 0.072 | <0.49 |
| | | Acenaphthylene | ug/g | 0.093 | 0.097 |
| | | Fluoranthene | ug/g | 0.69 | 0.718 |
| | | Fluorene | ug/g | 0.12 | 0.366 |
| | | Phenanthrene | ug/g | 0.69 | 0.95 |
| | | Pyrene | ug/g | 1 | 1.25 |
| | | Cadmium | ug/g | 1.2 | 2.51 |
| GS2 | 0.1-0.2 | Mercury | ug/g | 0.27 | 1.22 |
| | | F3 (C16-C34) | ug/g | 240 | 603 |
| | | F4 (C34-C50) | ug/g | 120 | 222 |
| GS3 | 0.1-0.2 | Mercury | ug/g | 0.27 | 0.329 |

Notes:

- Reported Concentration Exceeds Applicable SCS
- Reported Laboratory Detection Limit Higher than Applicable SCS

- ◆ The results of the groundwater chemical analyses conducted indicated that all samples analyzed met the applicable Table 1 SCS.

Based on a review of the findings of this Phase Two ESA, DS presents the following conclusions and recommendations:

- ◆ The concentrations of mercury, lead, PHCs F2, F3 and F4, and PAHs exceeded the Table 1 SCS in the surficial soil (0.1-0.2 mbgs) adjacent to the diesel AST (APEC-1).

- ◆ The concentrations of PHCs in the F3 & F4 ranges and EC exceeded the MECP Table 1 SCS within the maintenance repair shop (APEC-2) at a depth of 0 to 0.6 mbgs.
- ◆ The concentrations of cadmium, mercury, and PHCs in the F3 and F4 range exceeded the Table 1 SCS in surficial soil (0.1 to 0.2 mbgs) in the derelict equipment area (APEC-3).
- ◆ The results of the groundwater sampling indicated that the groundwater quality met the MECP Table 1 Standards in the samples analyzed. No further groundwater sampling is recommended at this time.
- ◆ Additional site characterization will be required to laterally and vertically delineate the soil impacts identified. This data will be required for future RSC filing purposes and to provide an estimate the volume of impacted soil present.
- ◆ As the proposed redevelopment will result in a more sensitive property use, an RSC will be required. It is anticipated that the impacted soils may be managed through remedial excavation and off-site disposal at the time of site redevelopment. Confirmatory soil sampling will be required at the time of excavation to confirm that the impacted soils have been successfully removed from the Phase Two Property. Additional site characterization is required to confirm the recommended approach for obtaining an RSC.
- ◆ All monitoring wells should be decommissioned in accordance with O.Reg. 903 when no longer required.

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1.0 Introduction

DS Consultants Ltd. (DS) was retained by Empire Communities (the “Client”) to conduct a Phase Two Environmental Site Assessment (ESA) of the Property located at 5525 8 Line, Erin, ON, herein referred to as the “Phase Two Property”. DS understands that this Phase Two ESA has been requested for due diligence purposes and may be used to support the filing of a Record of Site Condition (RSC) which will be required as part of the proposed residential redevelopment of the Phase Two Property.

The intended future residential property use constitutes a more sensitive property use, as defined under O.Reg. 153/04 (as amended) than the current commercial use. Given that the proposed change in property use is to a more sensitive property use, the filing of a Record of Site Condition (RSC) with the Ontario Ministry of Environment, Conservation and Parks (MECP) will be mandated under O.Reg. 153/04 (as amended).

The Phase Two ESA was completed to satisfy the intent of the requirements, methodology and practices for a Phase Two ESA as described in Ontario Regulation 153/04 (as amended). The objective of this Phase Two ESA is to confirm whether contaminants are present, and at what concentration are they present on the Phase Two Property, as related to the Areas of Potential Environmental Concern (APEC) identified in the Phase One ESA.

1.1 Site Description

The Phase Two Property is a 14.1355 hectare (34.9295 acres) parcel of land situated within a rural neighbourhood in the Town of Erin, Ontario. The Phase Two Property is located approximately 75 m northeast of the intersection of 8 Line and Erin Heights Drive, and was occupied by Erin Heights Golf Course at the time of this investigation. A Site Location Plan depicting the general location of the Site is provided in Figure 1. For the purposes of this report, Erin Heights Drive is assumed to be aligned in an east-west orientation, and 8th Line in a north-south orientation. A Plan of Survey for the Site dated April 26, 2021 and prepared by R-PE Surveying Ltd., an Ontario Land Surveyor, has been provided under *Appendix A*.

The Property is currently occupied by Erin Heights Golf Course which currently includes a main clubhouse, six (6) rental cottages, and a maintenance shop. A Site Plan depicting the orientation of the buildings on-site is provided in Figure 2.

Additional details regarding the Phase Two Property are provided in the table below.

Table 1-1: Phase Two Property Information

| Criteria | Information | Source |
|--------------------------------------|---|-----------------|
| Legal Description | PART OF LOT 19. REGISTRAR'S COMPILED PLAN 686; PART 4 PLAN 61R21828; SUBJECT TO AN EASEMENT AS IN ROS211740; TOWN OF ERIN | Parcel Register |
| Property Identification Number (PIN) | 71152-0481 (LT) | Parcel Register |
| Current Site Occupants | 5021820 Ontario Inc. | Parcel Register |
| Site Area | 14.1355-hectare (34.9295 acres) | Parcel Register |

1.2 Property Ownership

The ownership details for the Phase Two Property are provided in the table below.

Table 1-2: Phase Two Property Ownership

| Property Owner | Address | Contact |
|----------------------|---|------------|
| 5021820 Ontario Inc. | 185 Derry Road, Mississauga, ON, L2N L63 | Jim Holmes |

1.3 Current and Proposed Future Use

The Phase Two Property is currently occupied by Erin Heights Golf Course which is considered to be Commercial Property Use under O.Reg. 153/04 (as amended). It is DS's understanding that the Client intends to redevelop the Site for residential use.

1.4 Applicable Site Condition Standards

The applicable Site Condition Standards (SCS) for the Phase Two Property are considered by the Qualified Person (QP) to be the Table 1 SCS: Full Depth Background Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use (Table 1 SCS) as contained in the April 15, 2011 Ontario Ministry of Environment, Conservation and Parks (MECP) document entitled "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*", herein referred to as the "Table 1 SCS".

The selection of the Table 1 SCS is considered appropriate based on the following rationale:

- ◆ The town of Erin relies on groundwater as a potable water source;
- ◆ The Site is within 30 m of provincially significant wetlands; therefore, the site is considered to be environmentally sensitive, as defined under O.Reg. 153/04 (as amended);
- ◆ The proposed future use of the Phase Two Property will be residential;
- ◆ The pH of the soils analyzed during this Phase Two ESA are within the accepted range specified under O.Reg. 153/04 (as amended); and
- ◆ Bedrock was not encountered within 2 metres of the ground surface.

2.0 Background Information

2.1 Physical Setting

2.1.1 Water Bodies and Areas of Natural Significance

The nearest body of water to the Phase Two Property is the Erin Branch of the Credit River, located approximately 45 m to the north.

There were species identified on Site as endangered, threatened or of special concern. These species include:

- ◆ The Gypsy Cuckoo Bumble Bee as an endangered species,
- ◆ The yellow-banded Bumble Bee, Snapping Turtle, and Midland Painted Turtle as a species of special concern, and
- ◆ The Eastern Meadowlark as a threatened species.

No Areas of Natural and Scientific Interest were identified, however provincially significant wetlands and woodlands are located to the north, east and west of the site within the Phase Two Study Area.

2.1.2 Topography and Surface Water Draining Features

The Phase Two Property is located in an urban setting with surface elevations ranging from approximately 400 to 430 meters above sea level (masl). The topography within the Phase Two Study Area generally slopes to the north towards the Erin Branch of the Credit River located approximately 45 m north of the Phase Two Property. Based on a review of the MECP well records, the depth to groundwater in the vicinity of the Phase Two Property is approximately 15 to 66 mbgs. The shallow groundwater flow direction within the Phase Two Study Area is inferred to be north towards the Credit River.

2.2 Past Investigations

No previous environmental reports were provided for DS to review. A summary of the pertinent findings of the Phase One ESA conducted by DS is provided under Section 3.3 of this report.

3.0 Scope of the Investigation

The scope of the Phase Two ESA was designed to investigate the portions of the Site determined in the Phase One ESA to be Areas of Potential Environmental Concern. This Phase Two ESA was conducted in general accordance with O.Reg. 153/04 (as amended). The scope of the investigation including the subsurface investigation, sampling, and laboratory analysis was based on the findings of the Phase One ESA and was limited to the portions of the site which were accessible.

3.1 Overview of Site Investigation

The following tasks were completed as part of the Phase Two ESA:

- ❖ Preparation of a Health and Safety Plan to ensure that all work was executed safely;
- ❖ Clearance of public private underground utility services prior to commencement of subsurface investigative operations;
- ❖ Preparation of a Sampling and Analysis Plan (SAP);
- ❖ Retained a MECP licenced driller to advance a total of 12 boreholes on the Phase Two Property, to depths ranging between 7.7 and 11.0 mbgs. Five (5) of the boreholes were instrumented with groundwater monitoring wells upon completion. The soil lithology was logged during drilling, and representative soil samples were collected at regular intervals. The soil samples were screened for organic vapours using a RKI Eagle 2 MultiGas Detector, and examined for visual and olfactory indications of soil impacts;
- ❖ Submitted “worst case” soil samples collected from the boreholes for laboratory analysis of relevant contaminants of potential concern (COPCs) as identified in the Phase One ESA;
- ❖ Conducted groundwater level measurements in the monitoring wells in order to determine the groundwater elevation, and to establish the local groundwater flow direction;
- ❖ Surveyed all monitoring wells to a geodetic benchmark;

- ◆ Developed and purged all monitoring wells prior to sampling. Groundwater samples were collected for all COPCs identified in the Phase One ESA;
- ◆ Compared all soil and groundwater analytical data to the applicable MECP SCS; and
- ◆ Prepared a Phase Two ESA Report in general accordance with O.Reg. 153/04 (as amended).

3.2 Media Investigated

3.2.1 Rationale for Inclusion or Exclusion of Media

Table 3-1: Rationale of Sampling Media

| Media | Included or Excluded | Rationale |
|---------------|----------------------|---|
| Soil | Included | Soil was identified as a media of potential impact in the Phase One ESA, based on the historical operations conducted on-Site. |
| Groundwater | Included | Groundwater was identified as a media of potential impact in the Phase One ESA, based on the historical operations conducted on-Site. |
| Sediment | Excluded | Sediment is not present on the Phase Two Property. |
| Surface Water | Excluded | Surface water is not present on the Phase Two Property. |

3.2.2 Overview of Field Investigation of Media

Table 3-2: Field Investigation of Media

| Media | Methodology of Investigation |
|-------------|--|
| Soil | A total of 12 boreholes were advanced on the Phase Two Property, to a maximum depth of 11.0 mbgs. Select “worst case” soil samples were collected and submitted for analysis of all relevant COPCs. In addition to the boreholes, three (3) surficial soil samples were collected and submitted for analysis of all relevant COPCs. |
| Groundwater | Representative groundwater samples were collected from three (3) monitoring wells located within the identified APECs and submitted for analysis of all relevant COPCs. |

3.3 Phase One Conceptual Site Model

A Conceptual Site Model was developed for the Phase One Property, located at 5525 8 Line, Erin, ON. The Phase One Conceptual Site Model is presented in Figures 3, 4 and 5 and visually depict the following:

- ◆ Any existing buildings and structures
- ◆ Water bodies located in whole, or in part, on the Phase One Study Area

- ◆ Areas of natural significance located in whole, or in part, on the Phase One Study Area
- ◆ Water wells at the Phase One Property or within the Phase One Study Area
- ◆ Roads, including names, within the Phase One Study Area
- ◆ Uses of properties adjacent to the Phase One Property
- ◆ Areas where any PCAs have occurred, including location of any tanks
- ◆ Areas of Potential Environmental Concern

3.3.1 Potentially Contaminating Activity Affecting the Phase One Property

All PCAs identified within the Phase One Study Area are presented on Figure 4. The PCAs which are considered to contribute to APECs on, in or under the Phase One Property are summarized in the table below:

Table 3-3: Summary of PCAs Contributing to APECs

| PCA Item. | PCA Description (Per. Table 2, Schedule D of O.Reg. 153/04) | Description | Rationale |
|-----------|--|--|---|
| PCA-1 | #28: Gasoline and Associated Products Storage in Fixed Tanks | One diesel AST and one gasoline AST were located west adjacent to the equipment maintenance shop on the south-central portion of the Site. | PCA is located on the Phase One Property. |
| PCA-2 | #27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles | A shop used for the maintenance of golf course grounds maintenance equipment was located on the south-central portion of the Site. | PCA is located on the Phase One Property. |
| PCA-3 | #49: Salvage Yard, including automobile wrecking | Derelict grounds maintenance equipment was located on the south-central portion of the Site, east of the maintenance shop. | PCA is located on the Phase One Property. |

3.3.2 Contaminants of Potential Concern

The following contaminants of potential concern were identified for the Phase One Property: Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, VOCs, PHCs and PAHs.

3.3.3 Underground Utilities and Contaminant Distribution and Transport

Underground utilities can affect contaminant distribution and transport. Trenches excavated to install utility services, and the associated granular backfill may provide preferential pathways for horizontal contaminant migration in the shallow subsurface.

Underground utilities were identified at the Phase One Property, including water, electrical, and septic services to the existing Site Buildings. Plans were not available to confirm the

depths of these utilities, however they are estimated to be installed at depths ranging from 2 to 3 metres below ground surface.

Based on Water Well Information System (WWIS) records, the depth to groundwater at the Phase One Property and Phase One Study Area is between 15 and 66 mbgs. However, the depth to groundwater at the Phase One Property has not been confirmed, therefore the utility corridors may be below the water table and may act as preferential pathways for contaminant distribution and transport in the event that shallow subsurface contaminants exist at the Phase One Property.

3.3.4 Geological and Hydrogeological Information

The topography of the Phase One Property is undulating with surface elevations ranging from approximately 400 to 430 meters above sea level (masl). The topography within the Phase One Study Area generally slopes to the north towards the Erin branch of the Credit River located approximately 45m north of the Phase One Property. Based on a review of the MECP well records, the depth to groundwater in the vicinity of the Phase One Property is approximately 15 to 66 mbgs. The shallow groundwater flow direction within the Phase One Study Area is inferred to be north towards the Credit River.

The Site is situated within the Guelph Drumlin Field physiographic region characterized by spillways. The Phase One Study area borders drumlinized till plains to the south. The surficial geology within the Phase One Study Area is described as glaciofluvial deposits consisting of river deposits and delta topset facies. The Phase One Study Area borders till consisting of stone-poor, sand silt to silty sand-textured till on Paleozoic terrain to the south. The bedrock is described as “sandstone, shale, dolostone, siltstone of the Armabel formation”. Based on a review of MECP well records, the bedrock in the Phase One Study Area is anticipated to be encountered at depths greater than 30 meters below ground surface (mbgs).

3.3.5 Uncertainty and Absence of Information

DS has relied upon information obtained from federal, provincial, municipal, and private databases, in addition to records and summaries provided by EcoLog ERIS. All information obtained was reviewed and assessed for consistency, however the conclusions drawn by DS are subject to the nature and accuracy of the records reviewed.

All reasonable inquiries were made to obtain reasonably accessible information, as mandated by O.Reg.153/04 (as amended). All responses to database requests were received prior to completion of this report, with the exception of the MECP FOI request. If the MECP

FOI request produces information which may alter the conclusions of this report, an addendum will be provided to the Client. This report reflects the best judgement of DS based on the information available at the time of the investigation.

Information used in this report was evaluated based on proximity to the Phase One Property, anticipated direction of local groundwater flow, and the potential environmental impact on the Phase One Property as a result of potentially contaminating activities.

The QP has determined that the uncertainty does not affect the validity of the Phase One ESA Conceptual Site Model or the conclusions of this report.

3.4 Deviations from Sampling and Analysis Plan

The Phase Two ESA was completed in accordance with the SAP.

3.5 Impediments

DS was granted complete access to the Phase Two Property throughout the course of the investigation. No impediments were encountered.

4.0 Investigation Method

4.1 General

The Phase Two ESA followed the methodology outlined in the following documents:

- Ontario Ministry of the Environment “Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario” (December 1996);
- Ontario Ministry of the Environment “Guide for Completing Phase Two Environmental Site Assessments under Ontario regulation 153/04” (June 2011);
- Ontario Ministry of the Environment “Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” (July 2011) (Analytical Protocol);

The methods used in the Phase Two ESA investigation did not differ from the associated standard operating procedures.

4.2 Drilling and Excavating

A site visit was conducted prior to drilling in order to identify the borehole locations based on the APECs identified in the Phase One ESA. The selected borehole locations are presented on Figure 5. The borehole locations were cleared of underground public and private utility

services prior to commencement of drilling. A summary of the drilling activities is provided in the table below.

Table 4-1: Summary of Drilling Activities

| Parameter | Details |
|--|---|
| Drilling Contractor | Davis Drilling Ltd. (April 15, 2021 to April 19, 2021) Kodiak Drilling (April 29, 2021) |
| Drilling Dates | April 15 to 19, 2021, April 29, 2021 |
| Drilling Equipment Used | Track-mounted CME 55 (Davis Drilling Ltd.) Big Beaver (Kodiak Drilling) |
| Measures taken to minimize the potential for cross contamination | <ul style="list-style-type: none">◆ Soil sampling was conducted using a 50 mm stainless steel split spoon sampler. The split spoon sampler was brushed clean of soil, washed in municipal water containing phosphate free detergent, rinsed in municipal water, and then rinsed with distilled water for each sampling interval in order to reduce the potential for cross contamination;◆ Soil samples were extracted from the interior of the sampler rather than from areas in contact with the sampler sidewalls;◆ Use of dedicated and disposable nitrile gloves for the handling of soil samples. A new set of gloves was used for each sample. |
| Sample collection frequency | Samples were collected at a frequency of every 0.6 m per 0.8 m from the ground surface to 3.1 mbgs, followed by one sample per 1.5 m to borehole termination depth. |

4.3 Soil Sampling

Soil samples were collected using a hollow stem auger. Discrete soil samples were collected from the split-spoon samplers by DS personnel using dedicated nitrile gloves.

A portion of each sample was placed in a resealable plastic bag for field screening, and the remaining portion was placed into laboratory supplied glass sampling jars. Samples intended for VOC and the F1 fraction of petroleum hydrocarbons analysis were collected using a laboratory-supplied soil core sampler, placed into the vials containing methanol for preservation purposes and sealed using Teflon lined septa lids. All sample jars were stored

in dedicated coolers with ice for storage, pending transport to the analytical laboratory. A formal chain of custody was maintained for all samples submitted to the laboratory.

The subsurface soil conditions were logged by DS personnel at the time of drilling, and recorded on field borehole logs. The borehole logs are presented under Appendix C.

4.4 Field Screening Measurements

All retrieved soil samples were screened in the field for visual and olfactory observations. No obvious visual or olfactory evidence of potential contamination were noted with the exceptions of the GS1 sample which had strong PHC odours as well as BH21-12 SS1 and SS2 with a slight PHC odour. No aesthetic impacts (e.g. cinders, slag, hydrocarbon odours) were encountered at other locations investigated. The soil sample headspace vapour concentrations for all soil samples recovered during the investigation were screened using portable organic vapour testing equipment in accordance with the procedure outlined in the MECP's '*Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*'.

The soil samples were inspected and examined to assess soil type, ground water conditions, and possible chemical contamination by visual and olfactory observations or by organic vapour screening. Samples submitted for chemical analysis were collected from locations judged by the assessor to be most likely to exhibit the highest concentrations of contaminants based on several factors including (i) visual or olfactory observations, (ii) sample location, depth, and soil type (iii) ground water conditions and headspace reading. A summary of the equipment used for field screening is provided below:

Table 4-2: Field Screening Equipment

| Parameter | Details |
|--|--|
| Make and Model of Field Screening Instrument | RKI Eagle 2, Model 5101-P2 Serial Number: E2G721 |
| Chemicals the equipment can detect and associated detection limits | VOCs with dynamic range of 0 parts per million (ppm) to 2,000 ppm PHCs with range of 0 to 50,000 ppm |
| Precision of the measurements | 3 significant figures |
| Accuracy of the measurements | VOCs: $\pm 10\%$ display reading + one digit Hydrocarbons: $\pm 5\%$ display reading + one digit |
| Calibration reference standards | PID: Isobutylene CGD: Hexane |

| Parameter | Details |
|--|---|
| Procedures for checking calibration of equipment | In-field re-calibration of the CGI was conducted (using the gas standard in accordance with the operator's manual instructions) if the calibration check indicated that the calibration had drifted by more than +/- 10%. |

A summary of the soil headspace measurements are provided in the borehole logs, provided under Appendix C.

4.5 Groundwater Monitoring Well Installation

Monitoring wells were installed upon completion of five (5) the boreholes advanced on the Phase Two Property. The monitoring wells were constructed of 51-millimetre (2-inch) inner diameter (ID) flush-threaded schedule 40 polyvinyl chloride (PVC) risers, equipped with a 3.1 m length of No. 10 slot PVC screen. The well screens were sealed at the bottom using a threaded cap and at the top with a lockable J-plug. Silica sand was placed around and up to 0.6 m above the well screen to act as a filter pack. Bentonite was placed from the ground surface to the top of the sand pack. The wells were completed with protective aboveground monument casings for all monitoring wells with the exception of flush mount casings at MW21-1 and MW21-11. Details regarding the monitoring well construction can be found in Table 1, and on the borehole logs provided in Appendix C.

Disposable nitrile gloves were used to minimize the potential for cross-contamination during well installation. Dedicated equipment was used for well development and sampling for further minimize the risk of cross contamination.

The monitoring wells MW21-1 and MW21-10 were developed on April 20, 2021, and MW21-11 was developed on April 30, 2021. In accordance with DS SOPs for monitoring well development, the wells were developed by removing a minimum of three standing water column volumes using dedicated inertial pumps comprised of Waterra polyethylene tubing and dedicated foot valves.

4.6 Groundwater Field Measurement of Water Quality Parameters

Field measurements of water quality parameters including temperature, specific conductivity, pH, turbidity, dissolved oxygen, oxidation-reduction potential and turbidity were collected using a flow-through cell and a YSI Water Quality Meter (YSI-556TM). The YSI Water Quality Meter was calibrated by the supplier (EnvirOne) in accordance with the manufacturer's specifications. The measurements were conducted at regular intervals in

order to determine whether stabilized geochemical conditions had been established in the monitoring well, indicating representative groundwater conditions. The field measurements have been archived and can be provided upon request.

4.7 Groundwater Sampling

Groundwater samples were collected a minimum of 24 hours after the development of the monitoring wells. The wells were purged using low flow sampling methodology with a peristaltic pump equipped with dedicated polyethylene tubing. A YSI Water Quality Meter equipped with a flow-through cell was used to monitor the geochemical conditions during purging to assess whether steady-state conditions were achieved prior to sampling.

Samples were collected upon stabilization of the water quality parameters. Groundwater samples for metals analysis were field filtered using dedicated 0.45 micro in-line filters. The groundwater was transferred directly into laboratory supplied containers and preserved as appropriate using the containers supplied by the analytical laboratory. The samples were placed in coolers upon completion of sampling and stored on ice for storage, pending transport to the analytical laboratory. A formal chain of custody was maintained for all samples submitted to the laboratory.

4.8 Sediment Sampling

No sediment as defined under O.Reg. 153/04 (as amended) was present on the Phase Two Property at the time of this investigation. Sediment sampling was not conducted as a result.

4.9 Analytical Testing

The soil and groundwater samples collected were submitted to ALS Environmental under chain of custody protocols. ALS Environmental is an independent laboratory accredited by the Canadian Association for Laboratory Accreditation. ALS Environmental conducted the analyses in accordance with the MECP document “Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” dated March 9, 2004 (revised on July 1, 2011).

4.10 Residue Management Procedures

4.10.1 Soil Cuttings From Drilling and Excavations

The soil cuttings generated by the borehole drilling program were stored in 205 L drums, and left on-site for disposal by a MECP approved waste-hauler for disposal at a MECP-approved waste management facility.

4.10.2 Water from Well Development and Purging

Excess water derived from well purging activities was stored in 20-L sealed plastic pails, and temporarily stored on site. Upon receipt of the analytical results, it was determined that the purged groundwater meets the applicable Table 1 SCS. Based on this the purged groundwater was allowed to re-infiltrate adjacent to the monitoring wells.

4.10.3 Fluids from Equipment Cleaning

Excess equipment cleaning fluids were stored in 20-L sealed plastic pails and temporarily stored on site for disposal by a MECP approved waste-hauler for disposal at a MECP-approved waste management facility.

4.11 Elevation Surveying

The ground surface elevations of the boreholes were surveyed using a Sokkia GCX-2 GNSS RTK receiver, based on global positioning system satellites. The ground surface elevations can be found on the borehole logs presented in Appendix C.

4.12 Quality Assurance and Quality Control Measures

4.12.1 Sample containers, preservation, labelling, handling and custody for samples submitted for laboratory analysis, including any deviations from the SAP

All soil and groundwater samples were stored in laboratory-supplied sample containers in accordance with the MECP Analytical Protocol. A summary of the preservatives supplied by the laboratory is provided in the table below.

Table 4-3: Summary of Sample Bottle Preservatives

| Media | Parameter | Sample Container |
|--------------|-------------------------------|--|
| Soil | PHCs F1 VOCs | 40 mL methanol preserved glass vial with septum lid. |
| | PHCs F2-F4 metals and ORPs | 120 mL or 250 mL unpreserved glass jar with Teflon™-lined lid. |
| | PAHs | |
| | | |
| Groundwater | PHCs F1 VOCs | 40 mL glass vial with septum lid, containing sodium bisulphite preservative. |
| | PHCs F2-F4 | 250 mL amber glass bottle with sodium bisulphite preservative |
| | PAHs | 250 mL amber glass bottle (unpreserved) |

| Media | Parameter | Sample Container |
|-------|---------------------|--|
| | Inorganics | 500 mL high density polyethylene bottle (unpreserved) |
| | Metals | 125 mL high density polyethylene bottle containing nitric acid preservative |
| | Hexavalent Chromium | 125 mL high density polyethylene bottle containing ammonium sulphate/ammonium hydroxide preservative |
| | Mercury | 125 mL glass bottle containing hydrochloric acid preservative |
| | Cyanide | 125 mL high density polyethylene bottle containing sodium hydroxide preservative |

Groundwater samples were collected using dedicated equipment for each well. Groundwater samples collected for analysis of dissolved metals, mercury and hexavalent chromium were filtered in the field using a dedicated 0.45-micron in-line filter. Each sample container was labelled with a unique sample identification, the project number, and the sampling date. All samples were placed in an ice-filled cooler upon completion of sampling and kept under refrigerated conditions until the time of delivery to the analytical laboratory. A formal chain of custody was maintained for all samples submitted to the laboratory.

4.12.2 Description of equipment cleaning procedures followed during all sampling

Dedicated, disposable nitrile gloves were used for each sampling event to reduce the potential for cross-contamination.

The split spoon sampler was brushed clean of soil, washed in municipal water containing phosphate free detergent, rinsed in municipal water, and then rinsed with distilled water for each sampling interval in order to reduce the potential for cross contamination. Dedicated equipment was used for well development and sampling for further minimize the risk of cross contamination. Non-dedicated equipment (i.e. interface probe) was cleaned before initial use and between all measurement points with a solution of Alconox™ and distilled water. The Alconox™ solution was rinsed off using distilled water.

4.12.3 Description of how the field quality control measures referred to in subsection 3 (3) were carried out

Field duplicate samples were collected at the time of sampling. In accordance with O.Reg. 153/04, one duplicate sample was analyzed per ten samples submitted for analysis. A

laboratory prepared trip blank accompanied the groundwater samples during each sampling event and was submitted for laboratory analysis of VOCs.

All field screening devices (i.e. RKI Eagle 2, YSI Water Quality Meter) were calibrated prior to use by the supplier. Calibration checks were completed, and re-calibrations were conducted as required.

4.12.4 Description of, and rational for, any deviations from the procedures set out in the quality assurance and quality control program set out in the SAP

There were no deviations from the QA/QC program described in the SAP.

5.0 Review and Evaluation

5.1 Geology

A summary of the subsurface conditions is presented below. Additional details may be found in the borehole logs appended in Appendix C. The boundaries of soil indicated on the borehole logs and described below are intended to reflect transition zones for the purpose of environmental assessment and should not be interpreted as exact planes of geological change.

A surficial layer of topsoil ranged from 100 mm to 350 mm and was encountered in all of the boreholes advanced, except at MW-21-1 and MW21-10 (250 mm granular fill), MW21-11 (50mm asphalt) and MW21-12 (silty sand). Fill (probable reworked native soils) of silt and sand to silty sand with trace gravel and trace clay was encountered to depths ranging from 1.5 to 3.0 mbgs with the exception of BH21-6 to BH21-8 with gravelly sand to sandy gravel ranging from 1.5 to 4.6 m in depth. Glacial deposits of silty sand till with trace amounts of gravel, clay and cobble/boulders were encountered below the re-worked native and extended the entire depth of the boreholes explored (7.7 to 11 mbgs).

Table 5-1: Summary of Geologic Units Investigated

| Geologic Unit | Inferred Thickness (m) | Top Elevation (masl) | Bottom Elevation (masl) | Properties |
|----------------------|-----------------------------------|---------------------------------|------------------------------------|-----------------------|
| Topsoil | 0.0 to 0.35 | 398.8 to 415.3 | 398.4 to 415.1 | |
| Granular Fill | 0.0 to 0.25 | 419.1 to 423.0 | 418.8 to 422.9 | |
| Silt and Sand “Fill” | 1.5 to 3 | 398.4 to 422.7 | 392.7 to 420.7 | Reworked native soils |

| Geologic Unit | Inferred Thickness (m) | Top Elevation (masl) | Bottom Elevation (masl) | Properties |
|-------------------------------|------------------------|----------------------|-------------------------|-------------------------|
| Sandy Gravel to Gravelly Sand | 1.5 to 4.6 | 407.5 to 415.1 | 403.1 to 413.8 | Water table encountered |
| Silty Sand Till | >11 | 392.7 to 420.7 | 390.9 to 411.8 | |

5.2 Ground Water Elevations and Flow Direction

5.2.1 Rationale for Monitoring Well Location and Well Screen Intervals

A total of five (5) monitoring wells were installed on the Phase Two Property in order to assess the flow direction, three (3) of which were used to assess groundwater quality in relation to APECs 1, 2, and 3. The COPCs associated with these APECs were PHCs, VOCs, M&I, PAHs. The monitoring wells were screened to intersect the first water bearing formation encountered, in order to allow for the assessment of LNAPL, and to provide information regarding the quality of the groundwater at the water table. The monitoring wells were generally screened within the silty sand/ silty sand till unit encountered at an approximate depth of 397.5 to 417.8 mbgs, with the exception of MW21-10 in which the groundwater table was encountered at an approximate depth of 1.7 mbgs. The groundwater unit investigated is considered to be an unconfined aquifer.

5.2.2 Results of Interface Probe Measurements

A summary of the groundwater level measurements is provided in Table 1. The groundwater level measurements were collected using a Solinst interface probe (model 122). The depth to groundwater was found to range between 1.2 to 6.3 mbgs on April 28, 2021. There was no indication of DNAPL or LNAPL in the monitoring wells at this time.

5.2.3 Product Thickness and Free Flowing Product

No evidence of product was observed in the monitoring wells at the time of the investigation.

5.2.4 Groundwater Elevation

The groundwater elevation was calculated by subtracting the depth to groundwater from the surface elevation determined by the surface elevation survey conducted as part of this investigation. A summary of the groundwater elevations calculated is presented in Table 1. Generally the groundwater elevation was found to range from 397.6 to 418.6 m in the upper aquifer investigated.

5.2.5 Groundwater Flow Direction

The groundwater flow direction was interpreted using the groundwater elevations calculated for the monitoring wells installed on the Phase Two Property. Based on the groundwater elevations calculated, the groundwater flow direction is interpreted to be north towards the Credit River. The groundwater elevation contours and flow direction are presented on Figure 6.

5.2.6 Assessment of Potential for Temporal Variability in Groundwater Flow Direction

The shallow aquifer investigated is inferred to be an unconfined aquifer, based on the soil stratigraphy observed in the boreholes advanced on the Phase Two Property. It is possible that temporal variations in groundwater elevations may occur on the Phase Two Property in response to seasonal weather patterns.

Temporal variability in groundwater level has the ability to influence the groundwater flow direction. The degree of variation in groundwater levels on the Phase Two Property can only be confirmed with long-term monitoring.

5.2.7 Evaluation of Potential Interaction Between Buried Utilities and the Water Table

The groundwater table was encountered at depths ranging from 1.2 to 6.3 mbgs on the Phase Two Property. Buried utility services within APECs are limited to the APEC-1 and APEC-2 locations. The water service line is reported to be shallow (approximately 1 m depth), and the groundwater in this area of the property well below the water line, therefore, the services are not expected to provide a preferential pathway for contaminant migration in groundwater.

5.3 Ground Water Hydraulic Gradients

5.3.1 Horizontal Hydraulic Gradient

The horizontal hydraulic gradient was calculated based on the groundwater levels recorded on April 28, 2021.

Table 5-2: Summary of Horizontal Hydraulic Gradient Calculations

| Hydrogeological Unit | Calculated Horizontal Hydraulic Gradient |
|--------------------------------|--|
| Overburden – (silty sand till) | Minimum: 0.00087 Average: 0.0340 Maximum: 0.0547 |

5.3.2 Vertical Hydraulic Gradient

The vertical hydraulic gradient was not calculated, as no groundwater impacts were identified on the Phase Two Property.

5.4 Fine-Medium Soil Texture

More than one-third of the soils encountered on the Phase Two Property are considered to be coarse textured. For the purposes of evaluating the SCS, all soils on the Phase Two Property are considered coarse textured.

5.4.1 Results of Grain Size Analysis

A summary of the soil samples analyzed and the corresponding grain size results is presented in the table below:

Table 5-3: Summary of Grain Size Analyses

| Sample | % Gravel | % Sand | % Silt | % Clay | Classification |
|----------------|----------|--------|--------|--------|-----------------------------------|
| BH21-1/SS1 | 8.7 | 46.4 | 36.8 | 8.1 | Silt, sand, trace clay and gravel |
| BH21-1/SS8 | 11 | 45.2 | 30.8 | 13 | Silty sand, some gravel and clay |
| BH21-2/SS1 | 1.1 | 58.2 | 34.9 | 5.8 | Sand, silt, trace clay and gravel |
| BH21-2/SS6 | 9.6 | 68.6 | 21.8 | | Sand, some fines and gravel |
| BH21-3/SS2 | 13.6 | 67.1 | 14.7 | 4.6 | Silty Sand, trace clay and gravel |
| BH21-3/SS6 | 3.7 | 59 | 32.4 | 4.9 | Silty sand, some clay and gravel |
| BH21-4/SS2 | 15.6 | 55.9 | 32.4 | 7.9 | Silty sand, some gravel and clay |
| BH21-5/SS2/AS2 | 24.0 | 40.8 | 28.9 | 6.3 | Gravelly silty sand, trace clay |
| BH21-6/SS2 | 54.2 | 31.5 | 14.3 | | Sandy Gravel, some fines |
| BH21-7/SS2 | 35.5 | 47.2 | 17.3 | | Gravel and sand, some fines |
| BH21-8/SS2 | 33.7 | 53.3 | 13.0 | | Gravelly sand, some fines |
| BH21-9/SS1 | 0.3 | 40.5 | 50.9 | 8.3 | Sand, silt, trace clay and gravel |
| BH21-10/SS2 | 11.0 | 53.8 | 26 | 9.1 | Silty sand, some gravel and clay |
| BH21-10/SS4 | 8.5 | 56.7 | 25.6 | 9.2 | Silty sand, trace gravel and clay |

5.4.2 Rational for the Number of Samples Collected and Analyzed

The grain size analyses were conducted for the purposes of this Phase Two ESA, in addition to a geotechnical investigation which was conducted concurrently. In general, one sample was analyzed per stratigraphic unit encountered in order to characterize the various strata encountered.

5.5 Soil Field Screening

Soil vapour headspace readings were collected at the time of sample collection, the results of which are presented on the borehole logs (Appendix C). The soil vapour headspace readings were collected using a PID and CGD in methane elimination mode. The PID readings ranged between 0 and 2 ppm. The CGD readings ranged between 0 and 65 ppm.

The soil samples were also screened for visual and olfactory indicators of impacts (e.g. staining, odours). No obvious visual or olfactory evidence of potential contamination were noted with the exceptions of the GS1 sample which had strong PHC odours as well as BH21-12 SS1 and SS2 with a slight PHC odour. No aesthetic impacts (e.g. cinders, slag, hydrocarbon odours) were encountered at other locations investigated.

5.6 Soil Quality

The results of the chemical analyses conducted are presented in Tables 5 through 8. A visual summary of the location of the sample locations is provided in Figures 7A through 7D. The laboratory certificates of analysis have been provided under Appendix D.

5.6.1 Metals and ORPs

A total of eight (8) samples, including one (1) field duplicate for QA/QC purposes, were submitted for analysis of metals and ORPs. The results of the analyses are tabulated in Table 5, and presented on Figure 7A.

All of the samples analysed met the MECP Table 1 SCS, with the following exceptions:

Table 5-4: Summary of Metals and ORPs Exceedances in Soil

| Sample ID | Sample Depth (mbgs) | Parameter | Units | Table 1 SCS | Reported Value |
|-------------|---------------------|--------------|-------|-------------|----------------|
| MW21-10 SS1 | 0-0.6 | Mercury | ug/g | 0.27 | 0.898 |
| MW21-11 SS1 | 0-0.6 | Conductivity | mS/cm | 0.57 | 0.648 |
| GS1 | 0.1-0.2 | Lead | ug/g | 120 | 161 |
| | 0.1-0.2 | Mercury | ug/g | 0.27 | 1.05 |
| GS2 | 0.1-0.2 | Cadmium | ug/g | 1.2 | 2.51 |
| | 0.1-0.2 | Mercury | ug/g | 0.27 | 1.22 |
| GS3 | 0.1-0.2 | Mercury | ug/g | 0.27 | 0.329 |

Reported Concentration Exceeds Applicable SCS

5.6.2 Petroleum Hydrocarbons

A total of seven (7) samples were submitted for analysis of PHCs (incl. BTEX). The results of the analyses are tabulated in Table 6, and presented on Figure 7B.

All of the samples analysed met the MECP Table 1 SCS, with the following exceptions:

Table 5-5: Summary of PHCs in Soil

| Sample ID | Sample Depth (mbgs) | Parameter | Units | Table 1 SCS | Reported Value |
|-------------|---------------------|--------------|-------|-------------|----------------|
| BH21-12 SS1 | 0-0.6 | F3 (C16-C34) | ug/g | 240 | 390 |
| | | F4 (C34-C50) | ug/g | 120 | 2670 |
| GS1 | 0.1-0.2 | F2 (C10-C16) | ug/g | 10 | 3930 |
| | | F3 (C16-C34) | ug/g | 240 | 14200 |
| | | F4 (C34-C50) | ug/g | 120 | 355 |
| GS2 | 0.1-0.2 | F3 (C16-C34) | ug/g | 240 | 603 |
| | | F4 (C34-C50) | ug/g | 120 | 222 |

Reported Concentration Exceeds Applicable SCS

5.6.3 Volatile Organic Compounds

A total of seven (7) samples were submitted for analysis of VOCs. The results of the analyses are tabulated in Table 7, and presented on Figure 7C. The results of the analyses indicated that all samples analyzed met the applicable Site Condition Standards.

5.6.4 Polycyclic Aromatic Hydrocarbons

A total of seven (7) samples, including one (1) field duplicate for QA/QC purposes were submitted for analysis of PAHs. The results of the analyses are tabulated in Table 8, and presented on Figure 7D.

All of the samples analysed met the MECP Table 1 SCS, with the following exceptions:

Table 5-6: Summary of PAHs in Soil

| Sample ID | Sample Depth (mbgs) | Parameter | Units | Table 1 SCS | Reported Value |
|-----------|---------------------|----------------|-------|-------------|----------------|
| GS1 | 0.1-0.2 | Acenaphthene | ug/g | 0.072 | <0.49 |
| | | Acenaphthylene | ug/g | 0.093 | 0.097 |
| | | Fluoranthene | ug/g | 0.69 | 0.718 |
| | | Fluorine | ug/g | 0.12 | 0.366 |
| | | Phenanthrene | ug/g | 0.69 | 0.95 |
| | | Pyrene | ug/g | 1 | 1.25 |

Reported Concentration Exceeds Applicable SCS

Reported Laboratory Detection Limit Higher than Applicable SCS

5.6.5 Commentary on Soil Quality

Metals and ORPs

Metal impacts were identified in GS1, GS2, GS3 and MW21-10 SS1 at depths ranging from 0 to 0.6 mbgs associated with APEC-1 and APEC-3. Additional characterization of the vertical and horizontal extent of the impacts in soil will be required to support the future RSC submission.

Electrical Conductivity (EC) impact was identified in sample MW21-11 SS1, a surficial soil sample collected from within the footprint of the maintenance shop building.

PHCs

PHC impacts were identified in GS1, GS2 and BH21-12 SS1 associated with APEC-1, APEC-2 and APEC-3 at depths of 0 to 0.6 mbgs. Additional characterization of the vertical and horizontal extent of PHCs in soil will be required for the future RSC submission.

PAHs

PAH impacts were identified in GS1 (APEC-1) at depths of 0.1 to 0.2 mbgs. Additional characterization of the vertical and horizontal extent of the PAH impacts in soil will be required to support the future RSC submission.

5.7 Ground Water Quality

The results of the chemical analyses conducted are presented in Tables 9 through 12. A visual summary of the location of the sample locations is provided in Figures 8A through 8D. The laboratory certificates of analysis have been provided under Appendix D.

5.7.1 Metals and ORPs

A total of four (4) samples, including one (1) field duplicate for QA/QC purposes, were submitted for analysis of metals and ORPs. The results of the analyses are tabulated in Table 9, and presented on Figure 8A. The groundwater samples transferred into the metals, mercury, and hexavalent chromium bottles were field filtered using a 0.45-micron in-line filter. The results of the analyses indicated that all samples analyzed met the applicable Site Condition Standards.

5.7.2 Petroleum Hydrocarbons

A total of four (4) samples, including two (2) trip blank for QA/QC purposes were submitted for analysis of PHCs (incl. BTEX). The results of the analyses are tabulated in Table 10, and presented on Figure 8B. The results of the analyses indicated that all samples analyzed met the applicable Site Condition Standards.

5.7.3 Volatile Organic Compounds

A total of four (4) samples, including one (1) duplicate and two (2) trip blanks for QA/QC purposes were submitted for analysis of VOCs. The results of the analyses are tabulated in Table 11, and presented on Figure 8C. The results of the analyses indicated that all samples analyzed met the applicable Site Condition Standards.

5.7.4 Polycyclic Aromatic Hydrocarbons

A total of four (4) samples, including one (1) duplicate were submitted for analysis of PAHs. The results of the analyses are tabulated in Table 12, and presented on Figure 8D. The results of the analyses indicated that all samples analyzed met the applicable Site Condition Standards.

5.7.5 Commentary on Groundwater Quality

The results of the chemical analysis indicated that the groundwater samples met the MECP Table 1 Site Condition Standards for the contaminants of potential concern identified in the Phase One ESA.

5.8 Sediment Quality

No sediment was present on the Phase Two Property at the time of the investigation.

5.9 Quality Assurance and Quality Control Results

Collection of soil and groundwater samples was conducted in general accordance with the MECP *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*. As described in Section 5.12, dedicated equipment was used where possible, and all non-dedicated equipment was decontaminated before and between sampling events. All soil and groundwater samples were transferred directly into laboratory-supplied containers. The laboratory containers were prepared by the laboratory with suitable preservative, as required. All samples were stored and transported under refrigerated conditions. Chain of custody protocols were maintained from the time of sampling to delivery to the analytical laboratory.

The field QA/QC program involved the collection of field duplicate soil and groundwater samples, and the use of a trip blank for each groundwater sampling event (when suitable). In addition to the controls listed above, the analytical laboratory employed method blanks, internal laboratory duplicates, surrogate spike samples, matrix spike samples, and standard reference materials.

A summary of the field duplicate samples analyzed and an interpretation of the efficacy of the QA/QC program is provided in the table below.

Table 5-7: Summary of QA/QC Results

| Sample ID | QA/QC duplicate | Medium | Parameter Analyzed | QA/QC Result |
|-----------|--------------------|-------------|--|--|
| DUP1 | GS2 | Soil | Metals and inorganics, PAHs | All results were within the analytical protocol criteria for RPD except for the parameters listed below. |
| MW20-24 | MW21-1 | Groundwater | Metals and inorganics, PAHs, PHCs, VOCs | All results were within the analytical protocol criteria for RPD. |

The following exceptions in the RPD protocols were identified:

- ◆ The RPD value for GS2 (DUP1) of 33% exceeded the recommended 30% RPD limit for lead. The variance in the analytical result between the parent and duplicate sample are attributed to the heterogeneity of the soil matrix analyzed.
- ◆ The RPD value for GS2 (DUP1) of 21% exceeded the recommended RPD value of 10% for electrical conductivity. The variance in the analytical result between the parent and duplicate sample are attributed to the heterogeneity of the soil matrix analyzed.

Based on the interpretation of the laboratory results and the QA/QC program, it is the opinion of the QP that the laboratory analytical data can be relied upon.

All samples were handled in accordance with the MECP Analytical Protocol regarding sample holding time, preservation methods, storage requirements, and type of container.

ALS Environmental routinely conducts internal QA/QC analyses in order to satisfy regulatory QA/QC requirements. The results of the ALS Environmental QA/QC analyses for the submitted soil samples are summarized in the laboratory Certificates of Analyses provided in Appendix D.

The following comments were provided by ALS Environmental on the laboratory Certificates of Analysis. Commentary on the comments has been provided below:

- ◆ Laboratory Certificate L2578440 – “Silver recovery outside of ALS DQOs due to issue with standard. Reported data is not affect by this issue.”

With respect to subsection 47(3) of O.Reg 153/04 (as amended), all certificates of analysis or analytical reports pursuant to clause 47(2) (b) of the regulation comply with subsection 47(3). A certificate of analysis has been received for each sample submitted for analysis and have been provided (in full) in Appendix D.

A review of the QA/QC sample results indicated that no issues were identified with respect to both the field collection methodology and the laboratory reporting. It is the opinion of the QP that the analytical data obtained are representative of the soil and groundwater conditions at the Phase Two Property for the purpose of assessing whether the soil and groundwater at the Phase Two Property meets the applicable MECP SCS.

5.10 Phase Two Conceptual Site Model

The Phase Two Conceptual Site Model will be prepared under a separate title upon completion of the soil remediation and verification sampling.

6.0 Conclusions

This Phase Two ESA involved the advancement of 12 boreholes, the installation of five (5) monitoring wells, three (3) of which were located within the identified APECs on the Phase Two Property, and the collection of soil and groundwater samples for analysis of the potential contaminants of concern, including: metals and inorganics, PHCs, VOCs and PAHs.

Based on the results of the information gathered through the course of the investigation, DS presents the following conclusions:

- ◆ The concentrations of mercury, lead, PHCs F2, F3 and F4, and PAHs exceeded the Table 1 SCS in the surficial soil (0.1-0.2 mbgs) adjacent to the diesel AST (APEC-1).
- ◆ The concentrations of PHCs in the F3 & F4 ranges and EC exceeded the MECP Table 1 SCS within the maintenance repair shop (APEC-2) at a depth of 0 to 0.6 mbgs.
- ◆ The concentrations of cadmium, mercury, and PHCs in the F3 and F4 range exceeded the Table 1 SCS in surficial soil (0.1 to 0.2 mbgs) in the derelict equipment area (APEC-3).
- ◆ The results of the groundwater sampling indicated that the groundwater quality met the MECP Table 1 Standards in the samples analyzed. No further groundwater sampling is recommended at this time.
- ◆ Additional site characterization will be required to laterally and vertically delineate the soil impacts identified. This data will be required for future RSC filing purposes and to provide an estimate the volume of impacted soil present.
- ◆ As the proposed redevelopment will result in a more sensitive property use, an RSC will be required. It is anticipated that the impacted soils may be managed through remedial excavation and off-site disposal at the time of site redevelopment. Confirmatory soil sampling will be required at the time of excavation to confirm that the impacted soils have been successfully removed from the Phase Two Property. Additional site characterization is required to confirm the recommended approach for obtaining an RSC.
- ◆ All monitoring wells should be decommissioned in accordance with O.Reg. 903 when no longer required.

6.1 Qualifications of the Assessors

Megan Bender, B.E.S, EPt

Ms. Bender is an Engineering Assistant with DS Consultants Ltd. Megan holds a Bachelor's degree in Environmental Studies, specializing in environmental assessments, and a minor in geography from the University of Waterloo and a Post Graduate Certificate in Environmental Engineering Technology from Conestoga College. Megan is registered as an Environmental Professional in training (EPt) with ECO Canada. Megan has been involved with Phase Two Environmental Site Assessments, data interpretation and reporting.

Mr. Keith Clarke, B.Sc.

Mr. Clarke is a Senior Environmental Project Manager with DS Consultants Limited. Keith holds a Bachelor of Science from the Simon Fraser University and a Post Graduate Certificate in Environmental Engineering Applications from Conestoga College. Keith has over twelve years of environmental consulting experience and has conducted and/or managed numerous projects in his professional experience. Keith has extensive experience conducting Phase One and Phase Two Environmental Site Assessments, soil and groundwater remediation, excess soil movement and has supported many risk assessments.

Mr. Patrick (Rick) Fioravanti, B.Sc., P.Geo., QP_{ESA}

Mr. Fioravanti is the Manager of Environmental Services with DS Consultants Limited. Patrick holds an Honours Bachelor of Science with distinction in Toxicology from the University of Guelph, and is a practicing member of the Association of Professional Geoscientists of Ontario (APGO). Patrick has over ten years of environmental consulting experience and has conducted and/or managed hundreds of projects in his professional experience. Patrick has extensive experience conducting Phase One and Phase Two Environmental Site Assessments in support of brownfields redevelopment in urban settings, and been involved in numerous remediation projects, supported many risk assessments, and successfully filed Records of Site Condition with the Ministry of Environment and Climate Change. He has conducted work across southern and eastern Ontario, and Quebec in his professional experience. Patrick is considered a Qualified Person to conduct Environmental Site Assessments as defined by Ontario Regulation 153/04 (as amended).

6.2 Signatures

This Phase Two ESA was conducted under the supervision of Patrick Fioravanti, B.Sc., P.Geo., QPESA in accordance with the requirements of O.Reg. 153/04 (as amended). The findings and conclusions presented have been determined based on the information obtained at the time of the investigation, and on an assessment of the conditions of the Site at this time.

We trust this report meets with your requirements. Should you have any questions regarding the information presented, please do not hesitate to contact our office.

Yours truly,

DS Consultants Ltd

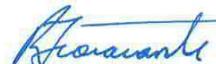
Prepared By:



Megan Bender, B.E.S., EPt
Engineering Assistant



Keith Clarke, B.Sc.
Senior Project Manager



Rick Fioravanti, B.Sc., P.Geo., QPESA
Environmental Project Manager

6.3 Limitations

This report was prepared for the sole use of Empire Communities and is intended to provide an assessment of the environmental condition on the property located at 5525 8 Line, Erin, ON. The information presented in this report is based on information collected during the completion of the Phase Two Environmental Site Assessment by DS Consultants Ltd. The material in this report reflects DS' judgment in light of the information available at the time of report preparation. This report may not be relied upon by any other person or entity without the written authorization of DS Consultants Ltd. The scope of services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this documents or findings, conclusions and recommendations represented herein, is at the sole risk of said users.

The conclusions drawn from the Phase Two ESA were based on information at selected observation and sampling locations. Conditions between and beyond these locations may become apparent during future investigations or on-site work, which could not be detected or anticipated at the time of this investigation. The sampling locations were chosen based upon a cursory historical search, visual observations and limited information provided by persons knowledgeable about past and current activities on this site during the Phase Two ESA activities. As such, DS Consultants Ltd. cannot be held responsible for environmental conditions at the site that was not apparent from the available information.

7.0 References

- ◆ Armstrong, D.K. and Dodge, J.E.P. *Paleozoic Geology Map of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release--Data 219.
- ◆ Chapman, L.J. and Putnam, D.F. 2007. *The Physiography of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release--Data 228.
- ◆ Freeze, R. Allen and Cherry, John A., 1979. *Ground water*. Page 29.
- ◆ Ontario Ministry of the Environment, December 1996. *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*.
- ◆ Ontario Ministry of Environment, 15 April 2011. *Soil, Ground Water and Sediment Standards for use under part XV.1 of the Environmental Protection Act*.
- ◆ Ontario Ministry of the Environment, June 2011. *Guide for Completing Phase Two Environmental Site Assessments under Ontario regulation 153/04*.
- ◆ Ontario Ministry of the Environment, July 2011. *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act*.
- ◆ The Ontario Geological Survey. 2003. *Surficial Geology of Southern Ontario*.



Tables

**Table 1: Summary of Monitoring Well Installation and Groundwater Data**

| Well ID | MW21-1 | MW21-2 | MW21-3 | MW21-10 | MW21-11 | |
|---|--------------|-----------|-----------|-----------|-----------|--------|
| Installed By: | DS | DS | DS | DS | DS | |
| Installation Date: | 15-Apr-21 | 19-Apr-21 | 16-Apr-21 | 19-Apr-21 | 29-Apr-21 | |
| Well Status: | Active | Active | Active | Active | Active | |
| EastUTM17 | 573786 | 573411 | 573771 | 573806 | 573800 | |
| NorthUTM17 | 4846537 | 4846813 | 4846863 | 4846573 | 4846547 | |
| Inner Diameter | (mm) | 50 | 50 | 50 | 50 | |
| Surface Elevation | (masl) | 422.80 | 398.80 | 405.70 | 419.10 | |
| Bottom of Concrete Seal/Top of Bentonite Seal | mbgs | 0.30 | 0.30 | 0.30 | 0.30 | |
| | masl | 422.50 | 398.50 | 405.40 | 418.80 | |
| Bottom of Bentonite Seal/Top of Sand Pack | mbgs | 7.00 | 4.00 | 4.00 | 0.70 | |
| | masl | 415.80 | 394.80 | 401.70 | 418.40 | |
| Top of Well Screen | mbgs | 7.60 | 4.60 | 4.60 | 1.30 | |
| | masl | 415.20 | 394.20 | 401.10 | 417.80 | |
| Well Screen Length | m | 3.00 | 3.00 | 3.00 | 3.00 | |
| Bottom of Well Screen | mbgs | 10.60 | 7.60 | 7.60 | 4.30 | |
| | masl | 412.20 | 391.20 | 398.10 | 414.80 | |
| GW Monitoring | | | | | | |
| 28-Apr-21 | Depth to GW | mbgs | 5.00 | 1.18 | 6.33 | 1.69 |
| | GW Elevation | masl | 417.80 | 397.62 | 399.37 | 417.41 |
| 30-Apr-21 | Depth to GW | mbgs | - | - | - | 4.48 |
| | GW Elevation | masl | - | - | - | 418.62 |

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section.



Table 2: Summary of Soil Samples Submitted for Chemical Analysis

| Borehole ID | Sample No. | Sample Depth (mbgs) | Soil Description | Parameter Analyzed | APEC Investigated |
|-------------|------------|---------------------|------------------------------|--------------------------|-------------------|
| MW21-1 | SS2 | 0.8-1.4 | silt and sand fill | Metals, PAHs | APEC 1 |
| | SS4 | 2.3-2.9 | silty sand till | VOCs, PHCs | |
| | GS1 | 0.1-0.2 | granular fill | Metals, VOCs, PHCs, PAHs | |
| MW21-10 | SS1 | 0-0.6 | silty sand fill, some gravel | Metals, PAHs | APEC 3 |
| | SS3 | 1.5-2.1 | silty sand fill, some gravel | VOCs, PHCs | |
| | GS2 | 0.1-0.2 | granular fill | Metals, VOCs, PHCs, PAHs | |
| | GS3 | 0.1-0.2 | granular fill | Metals, VOCs, PHCs, PAHs | |
| MW21-11 | SS1 | 0-0.6 | silty sand fill | Metals | APEC 2 |
| | SS7 | 4.6-5.2 | silty sand, trace gravel | PHCs, VOCs | |
| BH21-12 | SS1 | 0-0.6 | silty sand | PHCs, VOCs, PAHs | |
| | SS2 | 0.8-1.4 | silty sand | Metals | |

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section.



Table 3: Summary of Groundwater Samples Submitted for Chemical Analysis

| Well ID | Well Screen Interval (masl) | | | Sample Date | Parameter Analyzed | APEC Investigated |
|---------|-----------------------------|---|--------|-------------|-----------------------------------|-------------------|
| MW21-1 | 412.20 | - | 415.20 | 21-Apr-21 | Metals and ORPs, PHCs, VOCs, PAHs | APEC 1 |
| MW21-10 | 414.80 | - | 417.80 | 21-Apr-21 | Metals and ORPs, PHCs, VOCs, PAHs | APEC 3 |
| MW21-11 | 415.50 | - | 418.50 | 3-May-21 | Metals and ORPs, PHCs, VOCs, PAHs | APEC 2 |

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section.

**Table 4: Summary of APECs Investigated**

| APEC | Description | PCOCs | Media | Boreholes Within APEC | Samples Analysed | Parameter Analyzed | |
|--------|---|---|-------------|-----------------------|-----------------------------------|-----------------------------------|------------|
| APEC-1 | Gasoline storage tank in the south-central portion of the property, west adjacent to the maintenance shop | Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, VOCs, PHCs, PAHs | Soil | MW21-1 | SS2 | Metals and ORPs, PAHs | |
| | | | | | SS4 | VOCs, PHCs | |
| | | | | GS1 | GS1 | Metals and ORPs, VOCs, PHCs, PAHs | |
| | | | Groundwater | MW21-1 | MW21-1 | Metals and ORPs, PHCs, VOCs, PAHs | |
| | | | | | MW20-24 (Duplicate of MW21-1) | Metals and ORPs, PHCs, VOCs, PAHs | |
| | | | Soil | MW21-11 | SS1 | Metals and ORPs | |
| APEC-2 | Garage and maintenance repair area in the south-central portion of the site | Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, VOCs, PHCs, PAHs | | | SS7 | PHCs, VOCs | |
| | | BH21-12 | | SS1 | PHCs, VOCs, PAHs | | |
| | | | | SS2 | Metals and ORPs | | |
| | | Groundwater | MW21-11 | MW21-11 | Metals and ORPs, PHCs, VOCs, PAHs | | |
| | | | MW21-10 | SS1 | Metals and ORPs, PAHs | | |
| APEC-3 | Salvage yard on the south-central portion of the property, east of the maintenance shop | Metals, As, Sb, Se, B-HWS, CN-, Cr (VI), Hg, VOCs, PHCs, PAHs | | Soil | | SS3 | VOCs, PHCs |
| | | | GS2 | GS2 | Metals and ORPs, VOCs, PHCs, PAHs | | |
| | | | | GS3 | Metals and ORPs VOCs, PHCs, PAHs | | |
| | | | Groundwater | MW21-10 | MW21-10 | Metals and ORPs, PHCs, VOCs, PAHs | |

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section

**Table 5: Summary of Metals and ORPs in Soil**

| Parameter | MECP Table 1 SCS | MW21-1 SS2 | MW21-10 SS1 | GS1 | GS2 | DUP1 (Duplicate of GS2) | GS3 | MW21-11 SS1 | BH21-12 SS2 |
|--------------------------------------|---------------------|------------|-------------|------------|------------|-------------------------------|------------|-------------|-------------|
| Date of Collection | | 15-Apr-21 | 19-Apr-21 | 15-Apr-21 | 19-Apr-21 | 19-Apr-21 | 19-Apr-21 | 29-Apr-21 | 29-Apr-21 |
| Date Reported | | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 17-May-21 | 17-May-21 |
| Sampling Depth (mbgs) | | 0.8-1.4 | 0.0-0.6 | 0.1-0.2 | 0.1-0.2 | 0.1-0.2 | 0.1-0.2 | 0-0.6 | 0.8-1.4 |
| Analytical Report Reference No. | L2578440-1 | L2578440-3 | L2578440-5 | L2578440-6 | L2578440-8 | L2578440-7 | L2582555-1 | L2582555-4 | |
| Antimony | 1.3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Arsenic | 18 | 2.1 | 3.3 | 5.3 | 2.8 | 2.5 | 3.3 | 3.5 | 3.5 |
| Barium | 220 | 16.6 | 36.9 | 61.1 | 23.1 | 20.8 | 43.8 | 40.3 | 29.3 |
| Beryllium | 2.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Boron | 36 | <5.0 | <5.0 | 5.3 | <5.0 | <5.0 | <5.0 | <5.0 | 6.5 |
| Boron (Hot Water Soluble) | 36 | 0.12 | 0.31 | 0.55 | 0.69 | 0.6 | 0.55 | 0.53 | 0.4 |
| Cadmium | 1.2 | <0.50 | <0.50 | 1.19 | 2.51 | 2.01 | <0.50 | <0.50 | 0.5 |
| Chromium | 70 | 7.7 | 13.7 | 18.3 | 9.1 | 8.5 | 12.8 | 14.8 | 12.6 |
| Chromium VI | 0.66 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Cobalt | 21 | 2.4 | 3.8 | 4.5 | 2.5 | 2.4 | 4.2 | 5.4 | 4.1 |
| Copper | 92 | 7.8 | 7.5 | 17.2 | 10 | 9 | 8.5 | 10.3 | 15.5 |
| Cyanide | 0.051 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Lead | 120 | 23.4 | 24.4 | 161 | 20 | 14.3 | 33 | 30.3 | 40.4 |
| Mercury | 0.27 | 0.0541 | 0.898 | 1.05 | 1.22 | 1.17 | 0.329 | 0.0485 | 0.0536 |
| Molybdenum | 2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Nickel | 82 | 5.6 | 6.8 | 10 | 4.9 | 4.7 | 7.4 | 8.8 | 8.6 |
| Selenium | 1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Silver | 0.5 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Thallium | 1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Uranium | 2.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Vanadium | 86 | 16.5 | 33.3 | 35.4 | 19.7 | 18.5 | 30.6 | 33.1 | 24 |
| Zinc | 290 | 92.9 | 92.4 | 270 | 79.6 | 63.7 | 101 | 116 | 167 |
| Electrical Conductivity (2:1) | 0.57 | 0.138 | 0.222 | 0.131 | 0.161 | 0.198 | 0.272 | 0.648 | 0.25 |
| Sodium Adsorption Ratio | 2.4 | 0.15 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.35 | 0.26 |
| pH, 2:1 CaCl ₂ Extraction | NV | 7.94 | 7.24 | 6.99 | 7.18 | 7.08 | 7.2 | 7.52 | 7.79 |

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section



Table 6: Summary of PHCs in Soil

| Parameter | MECP Table 1 SCS | MW21-1 SS4 | MW21-10 SS3 | GS1 | GS2 | GS3 | MW21-11 SS7 | BH21-12 SS1 |
|---------------------------------|---------------------|------------|-------------|------------|------------|------------|-------------|-------------|
| Date of Collection | | 15-Apr-21 | 19-Apr-21 | 15-Apr-21 | 19-Apr-21 | 19-Apr-21 | 29-Apr-21 | 29-Apr-21 |
| Date Reported | | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 17-May-21 | 17-May-21 |
| Sampling Depth (mbgs) | | 2.3-2.9 | 1.5-2.1 | 0.1-0.2 | 0.1-0.2 | 0.1-0.2 | 4.6-5.2 | 0-0.6 |
| Analytical Report Reference No. | | L2578440-2 | L2578440-4 | L2578440-5 | L2578440-6 | L2578440-7 | L2582555-2 | L2582555-3 |
| Benzene | 0.02 | <0.0068 | <0.0068 | <0.0068 | <0.0068 | <0.0068 | <0.0068 | <0.0068 |
| Ethylbenzene | 0.05 | <0.018 | <0.018 | <0.018 | <0.018 | <0.018 | <0.018 | <0.018 |
| Toluene | 0.2 | <0.080 | <0.080 | <0.080 | <0.080 | <0.080 | <0.080 | <0.080 |
| Xylenes (Total) | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| F1 (C6-C10) -BTEX | 25 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| F2 (C10-C16) | 10 | <10 | <10 | 3930 | <10 | <10 | <10 | <10 |
| F3 (C16-C34) | 240 | <50 | <50 | 14200 | 603 | <50 | <50 | 390 |
| F4 (C34-C50) | 120 | <50 | <50 | 355 | 940 | <50 | <50 | 2670 |

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section.



Table 7: Summary of VOCs in Soil

| Parameter | MECP Table 1 SCS | MW21-1 SS4 | MW21-10 SS3 | GS1 | GS2 |
|---------------------------------|---------------------|------------|-------------|------------|------------|
| Date of Collection | | 15-Apr-21 | 19-Apr-21 | 15-Apr-21 | 19-Apr-21 |
| Date Reported | | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 |
| Sampling Depth (mbgs) | | 2.3-2.9 | 1.5-2.1 | 0.1-0.2 | 0.1-0.2 |
| Analytical Report Reference No. | | L2578440-2 | L2578440-4 | L2578440-5 | L2578440-6 |
| Acetone | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 |
| Bromomethane | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Carbon Tetrachloride | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Chlorobenzene | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Chloroform | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Dichlorobenzene, 1,2- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Dichlorobenzene, 1,3- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Dichlorobenzene, 1,4- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Dichlorodifluoromethane | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Dichloroethane, 1,1- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Dichloroethane, 1,2- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Dichloroethylene, 1,1- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Dichloroethylene, 1,2-cis- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Dichloroethylene, 1,2-trans- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Dichloropropane, 1,2- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Dichloropropene, 1,3- | 0.05 | <0.042 | <0.042 | <0.042 | <0.042 |
| Ethylene dibromide | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Hexane (n) | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Methyl Ethyl Ketone | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 |
| Methyl Isobutyl Ketone | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 |
| Methyl tert-Butyl Ether (MTBE) | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Methylene Chloride | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Styrene | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Tetrachloroethane, 1,1,1,2- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Tetrachloroethane, 1,1,2,2- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Tetrachloroethylene | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Trichloroethane, 1,1,1- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Trichloroethane, 1,1,2- | 0.05 | <0.050 | <0.050 | <0.050 | <0.050 |
| Trichloroethylene | 0.05 | <0.010 | <0.010 | <0.010 | <0.010 |
| Trichlorofluoromethane | 0.25 | <0.050 | <0.050 | <0.050 | <0.050 |
| Vinyl Chloride | 0.02 | <0.020 | <0.020 | <0.020 | <0.020 |

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section.



Table 7: Summary of VOCs in Soil

| Parameter | GS3 | MW21-11 SS7 | BH21-12 SS1 |
|--|------------|-------------|-------------|
| Date of Collection | 19-Apr-21 | 29-Apr-21 | 29-Apr-21 |
| Date Reported | 28-Apr-21 | 17-May-21 | 17-May-21 |
| Sampling Depth (mbgs) | 0.1-0.2 | 4.6-5.2 | 0-0.6 |
| Analytical Report Reference No. | L2578440-7 | L2582555-2 | L2582555-3 |
| Acetone | <0.50 | <0.50 | <0.50 |
| Bromomethane | <0.050 | <0.050 | <0.050 |
| Carbon Tetrachloride | <0.050 | <0.050 | <0.050 |
| Chlorobenzene | <0.050 | <0.050 | <0.050 |
| Chloroform | <0.050 | <0.050 | <0.050 |
| Dichlorobenzene, 1,2- | <0.050 | <0.050 | <0.050 |
| Dichlorobenzene, 1,3- | <0.050 | <0.050 | <0.050 |
| Dichlorobenzene, 1,4- | <0.050 | <0.050 | <0.050 |
| Dichlorodifluoromethane | <0.050 | <0.050 | <0.050 |
| Dichloroethane, 1,1- | <0.050 | <0.050 | <0.050 |
| Dichloroethane, 1,2- | <0.050 | <0.050 | <0.050 |
| Dichloroethylene, 1,1- | <0.050 | <0.050 | <0.050 |
| Dichloroethylene, 1,2-cis- | <0.050 | <0.050 | <0.050 |
| Dichloroethylene, 1,2-trans- | <0.050 | <0.050 | <0.050 |
| Dichloropropane, 1,2- | <0.050 | <0.050 | <0.050 |
| Dichloropropene, 1,3- | <0.042 | <0.042 | <0.042 |
| Ethylene dibromide | <0.050 | <0.050 | <0.050 |
| Hexane (n) | <0.050 | <0.050 | <0.050 |
| Methyl Ethyl Ketone | <0.50 | <0.50 | <0.50 |
| Methyl Isobutyl Ketone | <0.50 | <0.50 | <0.50 |
| Methyl tert-Butyl Ether (MTBE) | <0.050 | <0.050 | <0.050 |
| Methylene Chloride | <0.050 | <0.050 | <0.050 |
| Styrene | <0.050 | <0.050 | <0.050 |
| Tetrachloroethane, 1,1,1,2- | <0.050 | <0.050 | <0.050 |
| Tetrachloroethane, 1,1,2,2- | <0.050 | <0.050 | <0.050 |
| Tetrachloroethylene | <0.050 | <0.050 | <0.050 |
| Trichloroethane, 1,1,1- | <0.050 | <0.050 | <0.050 |
| Trichloroethane, 1,1,2- | <0.050 | <0.050 | <0.050 |
| Trichloroethylene | <0.010 | <0.010 | <0.010 |
| Trichlorofluoromethane | <0.050 | <0.050 | <0.050 |
| Vinyl Chloride | <0.020 | <0.020 | <0.020 |

For Table Notes see **Notes for Soil and**

Groundwater Summary Tables, included in the notes of this Section.



Table 8: Summary of PAHs in Soil

| Parameter | MECP Table 1 SCS | MW21-1 SS2 | MW21-10 SS1 | GS1 | GS2 | DUP1 (Duplicate of GS2) | GS3 | BH21-12 SS1 |
|---------------------------------|---------------------|------------|-------------|------------|------------|-------------------------------|------------|-------------|
| Date of Collection | | 15-Apr-21 | 19-Apr-21 | 15-Apr-21 | 19-Apr-21 | 19-Apr-21 | 19-Apr-21 | 29-Apr-21 |
| Date Reported | | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 17-May-21 |
| Sampling Depth (mbgs) | | 0.8-1.4 | 0.0-0.6 | 0.1-0.2 | 0.1-0.2 | 0.1-0.2 | 0.1-0.2 | 0.0-0.6 |
| Analytical Report Reference No. | | L2578440-1 | L2578440-3 | L2578440-5 | L2578440-6 | L2578440-8 | L2578440-7 | L2582555-3 |
| Methylnaphthalene, 2-(1-) | 0.59 | <0.042 | <0.042 | <0.41 | <0.042 | <0.042 | <0.042 | <0.042 |
| Acenaphthene | 0.072 | <0.050 | <0.050 | <0.49 | <0.050 | <0.050 | <0.050 | <0.050 |
| Acenaphthylene | 0.093 | <0.050 | <0.050 | 0.097 | <0.050 | <0.050 | <0.050 | <0.050 |
| Anthracene | 0.16 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Benz(a)anthracene | 0.36 | <0.050 | <0.050 | 0.115 | <0.050 | <0.050 | <0.050 | <0.050 |
| Benzo(a)pyrene | 0.3 | <0.050 | <0.050 | 0.182 | <0.050 | <0.050 | <0.050 | <0.050 |
| Benzo(b+j)fluoranthene | 0.47 | <0.050 | <0.050 | 0.358 | <0.050 | 0.05 | <0.050 | <0.050 |
| Benzo(g,h,i)perylene | 0.68 | <0.050 | <0.050 | 0.317 | <0.050 | <0.050 | <0.050 | <0.050 |
| Benzo(k)fluoranthene | 0.48 | <0.050 | <0.050 | 0.101 | <0.050 | <0.050 | <0.050 | <0.050 |
| Chrysene | 2.8 | <0.050 | <0.050 | 0.291 | <0.050 | <0.050 | <0.050 | <0.050 |
| Dibenz(a,h)anthracene | 0.1 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Fluoranthene | 0.56 | <0.050 | <0.050 | 0.718 | <0.050 | <0.050 | <0.050 | <0.050 |
| Fluorene | 0.12 | <0.050 | <0.050 | 0.366 | <0.050 | <0.050 | <0.050 | <0.050 |
| Indeno(1,2,3-cd)pyrene | 0.23 | <0.050 | <0.050 | 0.192 | <0.050 | <0.050 | <0.050 | <0.050 |
| Naphthalene | 0.09 | <0.013 | <0.013 | 0.07 | <0.013 | <0.013 | <0.013 | <0.013 |
| Phenanthrene | 0.69 | <0.046 | <0.046 | 0.95 | <0.046 | <0.046 | <0.046 | <0.046 |
| Pyrene | 1 | <0.050 | <0.050 | 1.25 | <0.050 | <0.050 | <0.050 | <0.050 |

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section.

**Table 9: Summary of Metals and ORPs in Groundwater**

| Parameter | MECP Table 1 SCS | Units | MW21-1 | MW20-24 (duplicate of MW21-1) | MW21-10 | MW21-11 |
|---------------------------------|------------------------|-------|------------|-------------------------------------|------------|------------|
| Date of Collection | | | 21-Apr-21 | 21-Apr-21 | 21-Apr-21 | 3-May-21 |
| Date Reported | | | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 13-May-21 |
| Screen Interval (mbgs) | | | 7.6-10.6 | 7.6-10.6 | 1.3-4.3 | 4.6-7.6 |
| Analytical Report Reference No. | | | L2579308-1 | L2579308-2 | L2579308-3 | L2582823-1 |
| Antimony | 1.5 | µg/L | 0.1 | 0.1 | <0.10 | <0.10 |
| Arsenic | 13 | µg/L | 0.48 | 0.45 | 0.3 | 0.27 |
| Barium | 610 | µg/L | 65.7 | 65.9 | 114 | 31.9 |
| Beryllium | 0.5 | µg/L | <0.10 | <0.10 | <0.10 | <0.10 |
| Boron (total) | 1700 | µg/L | 55 | 54 | 46 | 13 |
| Cadmium | 0.5 | µg/L | 0.013 | 0.015 | 0.041 | 0.019 |
| Chromium Total | 11 | µg/L | <0.50 | <0.50 | <0.50 | 0.53 |
| Cobalt | 3.8 | µg/L | 0.22 | 0.21 | 0.22 | 0.43 |
| Copper | 5 | µg/L | 1.3 | 1.23 | 2.79 | 0.66 |
| Lead | 1.9 | µg/L | 0.089 | 0.09 | 0.318 | 0.389 |
| Molybdenum | 23 | µg/L | 1.47 | 1.46 | 0.718 | 0.874 |
| Nickel | 14 | µg/L | 1.21 | 1.15 | 1.45 | 0.68 |
| Selenium | 5 | µg/L | 0.514 | 0.518 | 0.204 | 0.234 |
| Silver | 0.3 | µg/L | <0.050 | <0.050 | <0.050 | <0.050 |
| Sodium | 490000 | µg/L | 22500 | 22000 | 7520 | 2060 |
| Thallium | 0.5 | µg/L | 0.022 | 0.021 | 0.026 | 0.011 |
| Uranium | 8.9 | µg/L | 0.966 | 0.977 | 1.07 | 0.322 |
| Vanadium | 3.9 | µg/L | 0.84 | 0.84 | <0.50 | <0.50 |
| Zinc | 160 | µg/L | 3.5 | 3.4 | 9.3 | 4.2 |
| Chloride | 790000 | µg/L | 9420 | 9490 | 26800 | 3400 |
| Chromium VI | 25 | µg/L | <0.50 | <0.50 | <0.50 | <0.50 |
| Cyanide | 5 | µg/L | <2.0 | <2.0 | <2.0 | <2.0 |
| Mercury | 0.1 | µg/L | <0.0050 | <0.0050 | <0.0050 | <0.0050 |

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section



Table 10: Summary of PHCs in Groundwater

| Parameter | MECP Table 1 SCS | MW21-1 | MW20-24 (duplicate of MW21-1) | MW21-10 | TRIP BLANK | MW21-11 | TRIP BLANK |
|---------------------------------|------------------------|------------|-------------------------------------|------------|------------|------------|------------|
| Date of Collection | | 21-Apr-21 | 21-Apr-21 | 21-Apr-21 | 21-Apr-21 | 3-May-21 | 3-May-21 |
| Date Reported | | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 13-May-21 | 13-May-21 |
| Screen Interval (mbgs) | | 7.6-10.6 | 7.6-10.6 | 1.3-4.3 | | 4.6-7.6 | |
| Analytical Report Reference No. | | L2579308-1 | L2579308-2 | L2579308-3 | L2579308-4 | L2582823-1 | L2582823-1 |
| Benzene | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Ethylbenzene | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Toluene | 0.2 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Xylenes (Total) | 72 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| F1 (C6 to C10) minus BTEX | 420 | <25 | <25 | <25 | - | <25 | - |
| F2 (C10 to C16) | 150 | <100 | <100 | <100 | - | <100 | - |
| F3 (C16 to C34) | 500 | <250 | <250 | <250 | - | <250 | - |
| F4 (C34 to C50) minus PAHs | 500 | <25 | <25 | <25 | - | <250 | - |

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section.



Table 11:Summary of VOCs in Groundwater

| Parameter | MECP Table 1 SCS | MW21-1 | MW20-24 (duplicate of MW21-1) | MW21-10 | TRIP BLANK | MW21-11 | TRIP BLANK |
|---------------------------------|------------------------|------------|-------------------------------------|------------|---------------|------------|---------------|
| Date of Collection | | 21-Apr-21 | 21-Apr-21 | 21-Apr-21 | 21-Apr-21 | 3-May-21 | 3-May-21 |
| Date Reported | | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 13-May-21 | 13-May-21 |
| Screen Interval (mbgs) | | 7.6-10.6 | 7.6-10.6 | 1.3-4.3 | | 4.6-7.6 | |
| Analytical Report Reference No. | | L2579308-1 | L2579308-2 | L2579308-3 | L2579308-4 | L2582823-1 | L2582823-1 |
| Acetone | 2700 | <30 | <30 | <30 | <30 | <30 | <30 |
| Bromomethane | 0.89 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Carbon Tetrachloride | 0.2 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Chlorobenzene | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Chloroform | 2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Dichlorobenzene, 1,2- | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Dichlorobenzene, 1,3- | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Dichlorobenzene, 1,4- | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Dichlorodifluoromethane | 590 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Dichloroethane, 1,1- | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Dichloroethane, 1,2- | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Dichloroethylene, 1,1- | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Dichloroethylene, 1,2-cis- | 1.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Dichloroethylene, 1,2-trans- | 1.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Dichloropropane, 1,2- | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Dichloropropene, 1,3- | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Ethylene dibromide | 0.2 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Hexane (n) | 5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Methyl Ethyl Ketone | 400 | <20 | <20 | <20 | <20 | <20 | <20 |
| Methyl Isobutyl Ketone | 640 | <20 | <20 | <20 | <20 | <20 | <20 |
| Methyl tert-Butyl Ether (MTBE) | 15 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| Methylene Chloride | 5 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Styrene | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Tetrachloroethane, 1,1,1,2- | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Tetrachloroethane, 1,1,2,2- | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Tetrachloroethylene | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Trichloroethane, 1,1,1- | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Trichloroethane, 1,1,2- | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Trichloroethylene | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Trichlorofluoromethane | 150 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| Vinyl Chloride | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section.



Table 12: Summary of PAHs in Groundwater

| Parameter | MECP Table 1 SCS | MW21-1 | MW20-24 (duplicate of MW21-1) | MW21-10 | MW21-11 |
|---------------------------------|---------------------|------------|-------------------------------------|------------|------------|
| Date of Collection | | 21-Apr-21 | 21-Apr-21 | 21-Apr-21 | 3-May-21 |
| Date Reported | | 28-Apr-21 | 28-Apr-21 | 28-Apr-21 | 13-May-21 |
| Screen Interval (mbgs) | | 7.6-10.6 | 7.6-10.6 | 1.3-4.3 | 4.6-7.6 |
| Analytical Report Reference No. | | L2579308-1 | L2579308-2 | L2579308-3 | L2582823-1 |
| Methylnaphthalene, 2-(1-) | 2 | <0.028 | <0.028 | <0.028 | 0.086 |
| Acenaphthene | 4.1 | <0.020 | <0.020 | <0.020 | <0.020 |
| Acenaphthylene | 1 | <0.020 | <0.020 | <0.020 | <0.020 |
| Anthracene | 0.1 | <0.020 | <0.020 | <0.020 | <0.020 |
| Benz(a)anthracene | 0.2 | <0.020 | <0.020 | <0.020 | <0.020 |
| Benzo(a)pyrene | 0.01 | <0.010 | <0.010 | <0.010 | <0.010 |
| Benzo(b+j)fluoranthene | 0.1 | <0.020 | <0.020 | <0.020 | <0.020 |
| Benzo(g,h,i)perylene | 0.2 | <0.020 | <0.020 | <0.020 | <0.020 |
| Benzo(k)fluoranthene | 0.1 | <0.020 | <0.020 | <0.020 | <0.020 |
| Chrysene | 0.1 | <0.020 | <0.020 | <0.020 | <0.020 |
| Dibenz(a,h)anthracene | 0.2 | <0.020 | <0.020 | <0.020 | <0.020 |
| Fluoranthene | 0.4 | <0.020 | <0.020 | <0.020 | <0.020 |
| Fluorene | 120 | <0.020 | <0.020 | <0.020 | <0.020 |
| Indeno(1,2,3-cd)pyrene | 0.2 | <0.020 | <0.020 | <0.020 | <0.020 |
| Naphthalene | 7 | <0.050 | <0.050 | <0.050 | <0.050 |
| Phenanthrene | 0.1 | <0.020 | <0.020 | <0.020 | <0.020 |
| Pyrene | 0.2 | <0.020 | <0.020 | <0.020 | <0.020 |

For Table Notes see **Notes for Soil and
Groundwater Summary Tables**, included at the
end of this Section.



Table 13: Summary of Maximum Concentrations in Soil

| Parameter | Standard | Maximum Concentration | Location |
|-----------------|---|-----------------------|--------------|
| Metals and ORPs | Antimony | 1.3 | <1.0 |
| | Arsenic | 18 | 5.3 |
| | Barium | 220 | 61.1 |
| | Beryllium | 2.5 | <0.50 |
| | Boron | 36 | 6.5 |
| | Boron (Hot Water Soluble) | 36 | 0.69 |
| | Cadmium | 1.2 | 2.51 |
| | Chromium | 70 | 18.3 |
| | Chromium VI | 0.66 | <0.20 |
| | Cobalt | 21 | 5.4 |
| | Copper | 92 | 17.2 |
| | Cyanide | 0.051 | <0.050 |
| | Lead | 120 | 161 |
| | Mercury | 0.27 | 1.22 |
| | Molybdenum | 2 | <1.0 |
| | Nickel | 82 | 10 |
| | Selenium | 1.5 | <1.0 |
| | Silver | 0.5 | <0.20 |
| | Thallium | 1 | <0.50 |
| | Uranium | 2.5 | <1.0 |
| | Vanadium | 86 | 35.4 |
| | Zinc | 290 | 270 |
| | Electrical Conductivity (2:1) | 0.57 | 0.648 |
| | Sodium Adsorption Ratio | 2.4 | 0.35 |
| | pH, 2:1 CaCl ₂ Extraction | NV | MW21-1 SS2 |
| PHCs | Benzene | 0.02 | <0.0068 |
| | Ethylbenzene | 0.05 | <0.018 |
| | Toluene | 0.2 | <0.080 |
| | Xylenes (Total) | 0.05 | <0.050 |
| | F1 (C ₆ -C ₁₀) -BTEX | 25 | <5.0 |
| | F2 (C ₁₀ -C ₁₆) | 10 | 3930 |
| | F3 (C ₁₆ -C ₃₄) | 240 | 14200 |
| | F4 (C ₃₄ -C ₅₀) | 120 | 2670 |
| BH21-12 SS1 | | | |



Table 13: Summary of Maximum Concentrations in Soil

| Parameter | Standard | Maximum Concentration | Location |
|-----------|--------------------------------|-----------------------|----------|
| VOCs | Acetone | 0.5 | <0.50 |
| | Bromomethane | 0.05 | <0.050 |
| | Carbon Tetrachloride | 0.05 | <0.050 |
| | Chlorobenzene | 0.05 | <0.050 |
| | Chloroform | 0.05 | <0.050 |
| | Dichlorobenzene, 1,2- | 0.05 | <0.050 |
| | Dichlorobenzene, 1,3- | 0.05 | <0.050 |
| | Dichlorobenzene, 1,4- | 0.05 | <0.050 |
| | Dichlorodifluoromethane | 0.05 | <0.050 |
| | Dichloroethane, 1,1- | 0.05 | <0.050 |
| | Dichloroethane, 1,2- | 0.05 | <0.050 |
| | Dichloroethylene, 1,1- | 0.05 | <0.050 |
| | Dichloroethylene, 1,2-cis- | 0.05 | <0.050 |
| | Dichloroethylene, 1,2-trans- | 0.05 | <0.050 |
| | Dichloropropane, 1,2- | 0.05 | <0.050 |
| | Dichloropropene, 1,3- | 0.05 | <0.042 |
| | Ethylene dibromide | 0.05 | <0.050 |
| | Hexane (n) | 0.05 | <0.050 |
| | Methyl Ethyl Ketone | 0.5 | <0.50 |
| | Methyl Isobutyl Ketone | 0.5 | <0.50 |
| | Methyl tert-Butyl Ether (MTBE) | 0.05 | <0.050 |
| | Methylene Chloride | 0.05 | <0.050 |
| | Styrene | 0.05 | <0.050 |
| | Tetrachloroethane, 1,1,1,2- | 0.05 | <0.050 |
| | Tetrachloroethane, 1,1,2,2- | 0.05 | <0.050 |
| | Tetrachloroethylene | 0.05 | <0.050 |
| | Trichloroethane, 1,1,1- | 0.05 | <0.050 |
| | Trichloroethane, 1,1,2- | 0.05 | <0.050 |
| | Trichloroethylene | 0.05 | <0.010 |
| | Trichlorofluoromethane | 0.25 | <0.050 |
| | Vinyl Chloride | 0.02 | <0.020 |



Table 13: Summary of Maximum Concentrations in Soil

| Parameter | Standard | Maximum Concentration | Location |
|---------------------------|----------|-----------------------|-------------|
| Methylnaphthalene, 2-(1-) | 0.59 | <0.042 | All Samples |
| Acenaphthene | 0.072 | <0.49 | GS1 |
| Acenaphthylene | 0.093 | 0.097 | GS1 |
| Anthracene | 0.16 | <0.050 | All Samples |
| Benz(a)anthracene | 0.36 | 0.115 | GS1 |
| Benzo(a)pyrene | 0.3 | 0.182 | GS1 |
| Benzo(b+j)fluoranthene | 0.47 | 0.358 | GS1 |
| Benzo(g,h,i)perylene | 0.68 | 0.317 | GS1 |
| Benzo(k)fluoranthene | 0.48 | 0.101 | GS1 |
| Chrysene | 2.8 | 0.291 | GS1 |
| Dibenz(a,h)anthracene | 0.1 | <0.050 | All Samples |
| Fluoranthene | 0.56 | 0.718 | GS1 |
| Fluorene | 0.12 | 0.366 | GS1 |
| Indeno(1,2,3-cd)pyrene | 0.23 | 0.192 | GS1 |
| Naphthalene | 0.09 | 0.07 | GS1 |
| Phenanthrene | 0.69 | 0.95 | GS1 |
| Pyrene | 1 | 1.25 | GS1 |



Table 14: Summary of Maximum Concentrations in Groundwater

| Parameter | Standard | Maximum Concentration | Location |
|-----------------|----------------------------|-----------------------|----------|
| Metals and ORPs | Antimony | 1.5 | 0.1 |
| | Arsenic | 13 | 0.48 |
| | Barium | 610 | 114 |
| | Beryllium | 0.5 | <0.10 |
| | Boron (total) | 1700 | 55 |
| | Cadmium | 0.5 | 0.041 |
| | Chromium Total | 11 | 0.53 |
| | Cobalt | 3.8 | 0.43 |
| | Copper | 5 | 2.79 |
| | Lead | 1.9 | 0.389 |
| | Molybdenum | 23 | 1.47 |
| | Nickel | 14 | 1.45 |
| | Selenium | 5 | 0.518 |
| | Silver | 0.3 | <0.050 |
| | Sodium | 490000 | 22500 |
| | Thallium | 0.5 | 0.026 |
| | Uranium | 8.9 | 1.07 |
| | Vanadium | 3.9 | 0.84 |
| | Zinc | 160 | 9.3 |
| PHCs | Benzene | 0.5 | <0.50 |
| | Ethylbenzene | 0.5 | <0.50 |
| | Toluene | 0.2 | <0.50 |
| | Xylenes (Total) | 72 | <0.50 |
| | F1 (C6 to C10) minus BTEX | 420 | <25 |
| | F2 (C10 to C16) | 150 | <100 |
| | F3 (C16 to C34) | 500 | <250 |
| | F4 (C34 to C50) minus PAHs | 500 | <25 |



Table 14: Summary of Maximum Concentrations in Groundwater

| Parameter | Standard | Maximum Concentration | Location |
|-----------|--------------------------------|-----------------------|----------|
| VOCs | Acetone | 2700 | <30 |
| | Bromomethane | 0.89 | <0.50 |
| | Carbon Tetrachloride | 0.2 | <0.20 |
| | Chlorobenzene | 0.5 | <0.50 |
| | Chloroform | 2 | <1.0 |
| | Dichlorobenzene, 1,2- | 0.5 | <0.50 |
| | Dichlorobenzene, 1,3- | 0.5 | <0.50 |
| | Dichlorobenzene, 1,4- | 0.5 | <0.50 |
| | Dichlorodifluoromethane | 590 | <2.0 |
| | Dichloroethane, 1,1- | 0.5 | <0.50 |
| | Dichloroethane, 1,2- | 0.5 | <0.50 |
| | Dichloroethylene, 1,1- | 0.5 | <0.50 |
| | Dichloroethylene, 1,2-cis- | 1.6 | <0.50 |
| | Dichloroethylene, 1,2-trans- | 1.6 | <0.50 |
| | Dichloropropane, 1,2- | 0.5 | <0.50 |
| | Dichloropropene, 1,3- | 0.5 | <0.50 |
| | Ethylene dibromide | 0.2 | <0.20 |
| | Hexane (n) | 5 | <0.50 |
| | Methyl Ethyl Ketone | 400 | <20 |
| | Methyl Isobutyl Ketone | 640 | <20 |
| | Methyl tert-Butyl Ether (MTBE) | 15 | <2.0 |
| | Methylene Chloride | 5 | <5.0 |
| | Styrene | 0.5 | <0.50 |
| | Tetrachloroethane, 1,1,1,2- | 1.1 | <0.50 |
| | Tetrachloroethane, 1,1,2,2- | 0.5 | <0.50 |
| | Tetrachloroethylene | 0.5 | <0.50 |
| | Trichloroethane, 1,1,1- | 0.5 | <0.50 |
| | Trichloroethane, 1,1,2- | 0.5 | <0.50 |
| | Trichloroethylene | 0.5 | <0.50 |
| | Trichlorofluoromethane | 150 | <5.0 |
| | Vinyl Chloride | 0.5 | <0.50 |



Table 14: Summary of Maximum Concentrations in Groundwater

| Parameter | Standard | Maximum Concentration | Location |
|-----------|---------------------------|-----------------------|----------|
| PAHs | Methylnaphthalene, 2-(1-) | 2 | 0.086 |
| | Acenaphthene | 4.1 | <0.020 |
| | Acenaphthylene | 1 | <0.020 |
| | Anthracene | 0.1 | <0.020 |
| | Benz(a)anthracene | 0.2 | <0.020 |
| | Benzo(a)pyrene | 0.01 | <0.010 |
| | Benzo(b+j)fluoranthene | 0.1 | <0.020 |
| | Benzo(g,h,i)perylene | 0.2 | <0.020 |
| | Benzo(k)fluoranthene | 0.1 | <0.020 |
| | Chrysene | 0.1 | <0.020 |
| | Dibenz(a,h)anthracene | 0.2 | <0.020 |
| | Fluoranthene | 0.4 | <0.020 |
| | Fluorene | 120 | <0.020 |
| | Indeno(1,2,3-cd)pyrene | 0.2 | <0.020 |
| | Naphthalene | 7 | <0.050 |
| | Phenanthrene | 0.1 | <0.020 |
| | Pyrene | 0.2 | <0.020 |

For Table Notes see **Notes for Soil and Groundwater Summary Tables**, included at the end of this Section

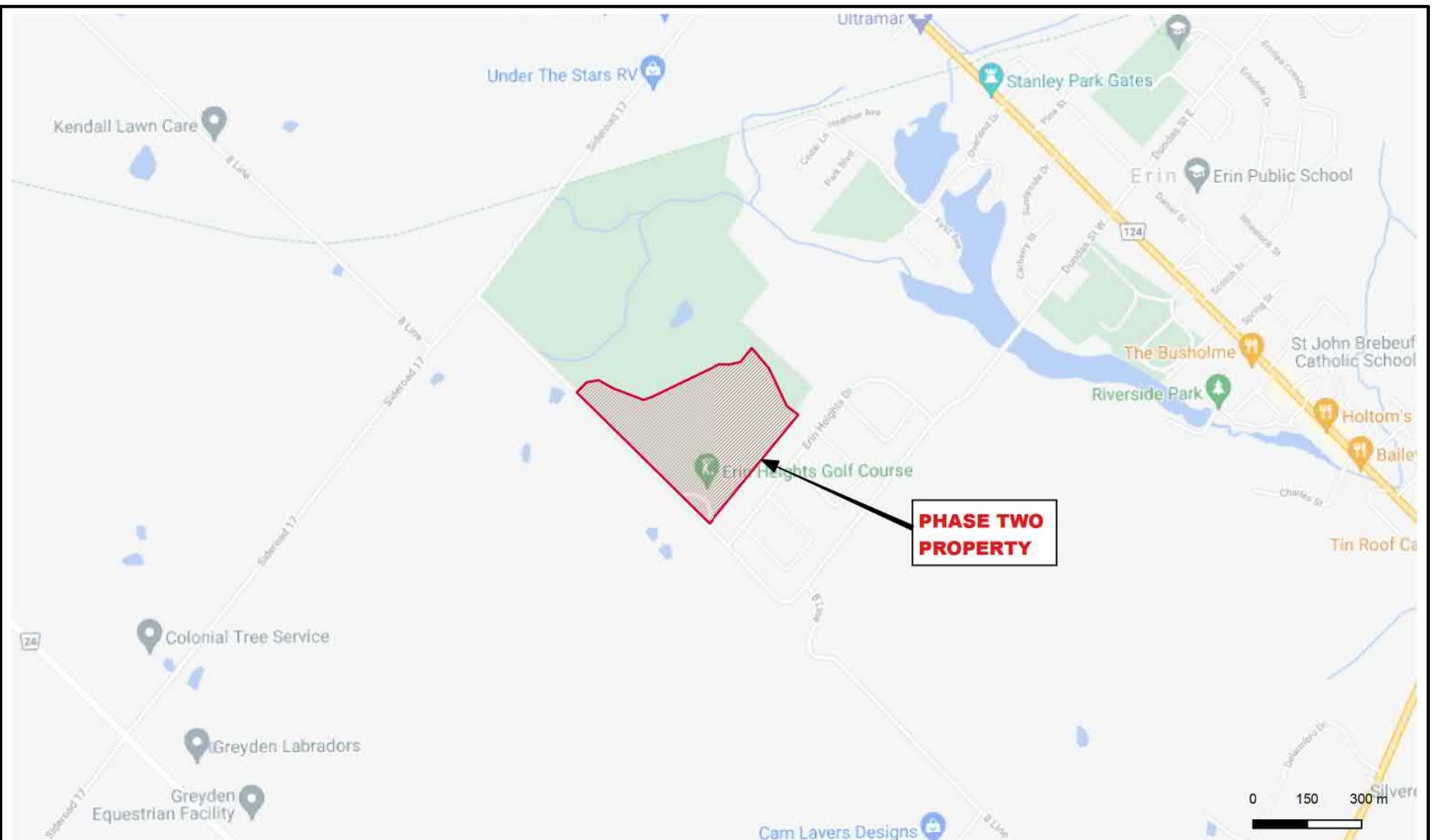


Notes for Soil and Groundwater Summary Tables

| | |
|---------------------------------|---|
| | For soil and groundwater analytical results, concentration exceeds the applicable Standards. |
| | For soil and groundwater analytical results, laboratory detection limits exceed the applicable Standards. |
| BTEX | Benzene, Toluene, Ethylbenzene, Xylene |
| masl | Meters above sea level |
| MECP Table 1 SCS | Full Depth Background Site Condition Standards for Use Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use as contained in Table 8 of the "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", published by the MECP on April 15, 2011. |
| mbgs | Meters below ground surface |
| NM | Not Monitored |
| NA | Not Available |
| ORP | Other Regulated Parameter |
| VOC | Volatile Organic Compound |
| PAH | Polyaromatic Hydrocarbon |
| PHC | Petroleum Hydrocarbon |
| Units | Units for all soil analyses are in µg/g (ppm) unless otherwise indicated |
| Units | Units for all groundwater analyses are in µg/L (ppb) unless otherwise indicated |



Figures



Legend

Approx Property Boundary

| | | | | |
|---|---|---------------------|----------------------------|--------------------|
| <p>DS CONSULTANTS LTD. 6221 Highway 7, UNIT 16 Vaughan, Ontario L4H 0K8 Telephone: (905) 264-9393 www.dsconsultants.ca</p> | Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT Erin Heights Golf Course, 5525 8 Line, Erin, ON | | | |
| | Title: SITE LOCATION PLAN | | | |
| Client: EMPIRE COMMUNITIES | Size: 8.5 x 11 | Approved By: K.C | Drawn By: S.Y | Date: June 2021 |
| | Rev: 0 | Scale: As Shown | Project No.: 21-129-300 | Figure No.: 1 |
| Image/Map Source: Google Street Map | | | | |



Legend

- Approx Property Boundary
- Diesel AST
- Gasoline AST



DS CONSULTANTS LTD.
6221 Highway 7, UNIT 16
Vaughan, Ontario L4H 0K8
Telephone: (905) 264-9393
www.dsconsultants.ca

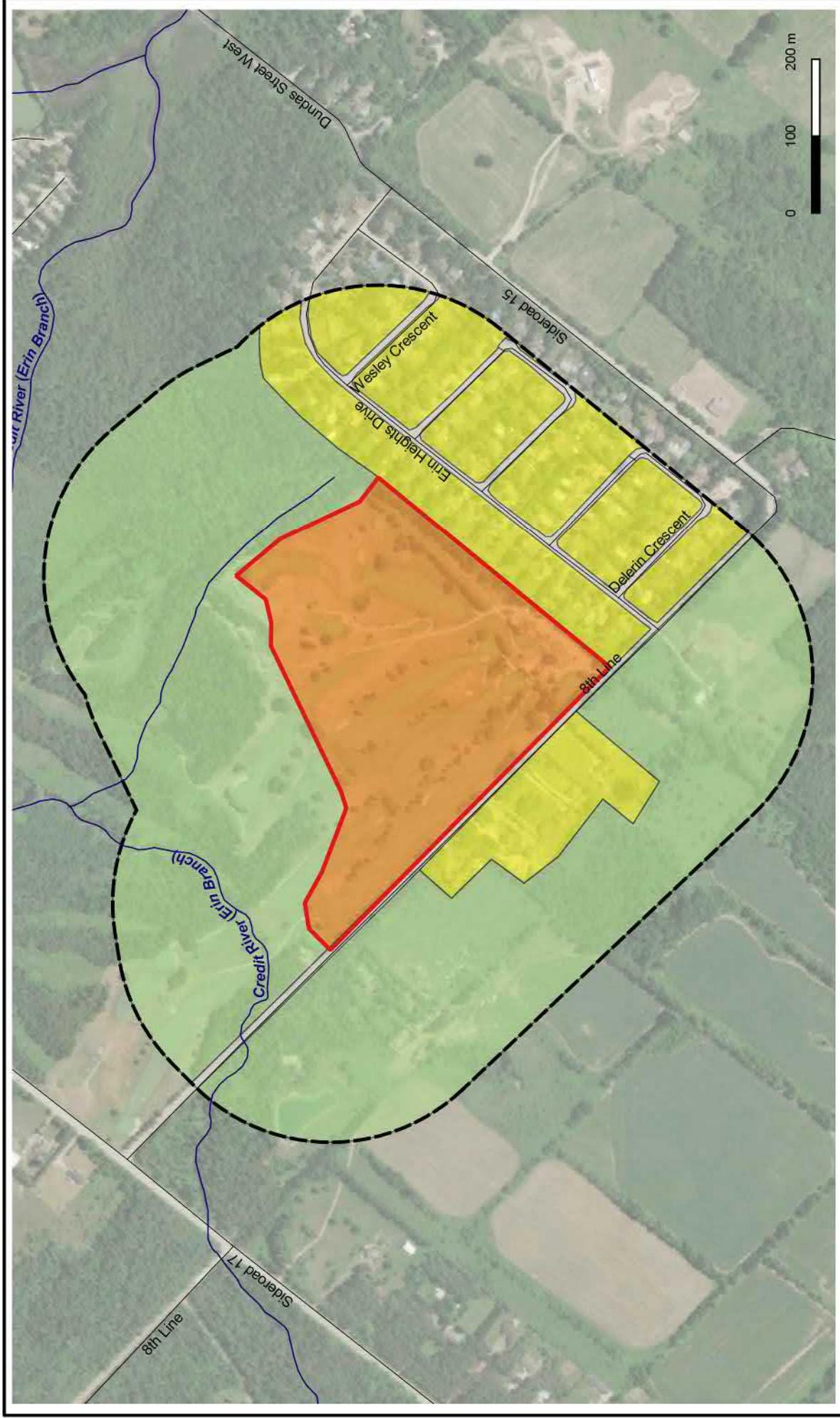
Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
Erin Heights Golf Course, 5525 8 Line, Erin, ON

PHASE TWO PROPERTY SITE PLAN

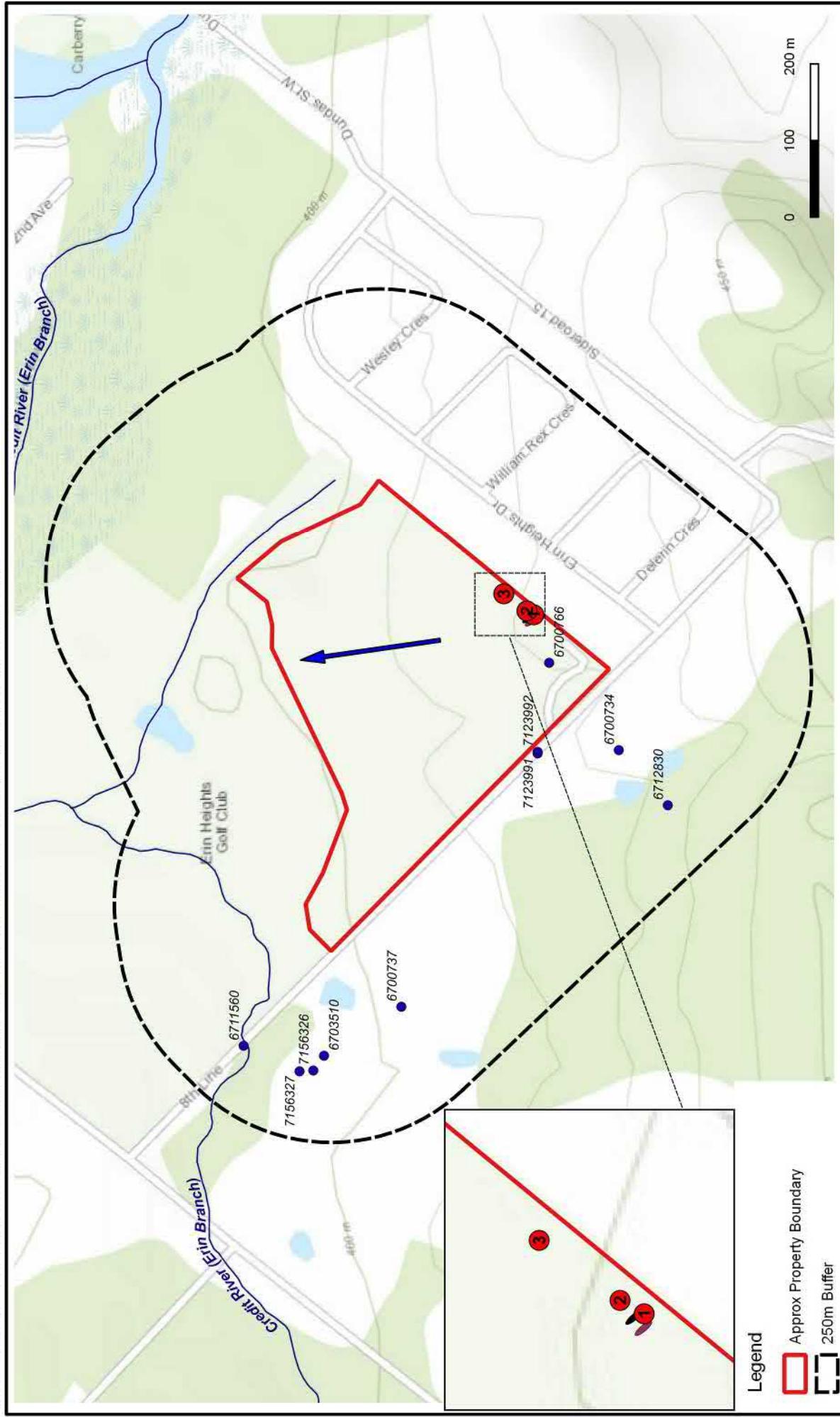


Client:
EMPIRE COMMUNITIES

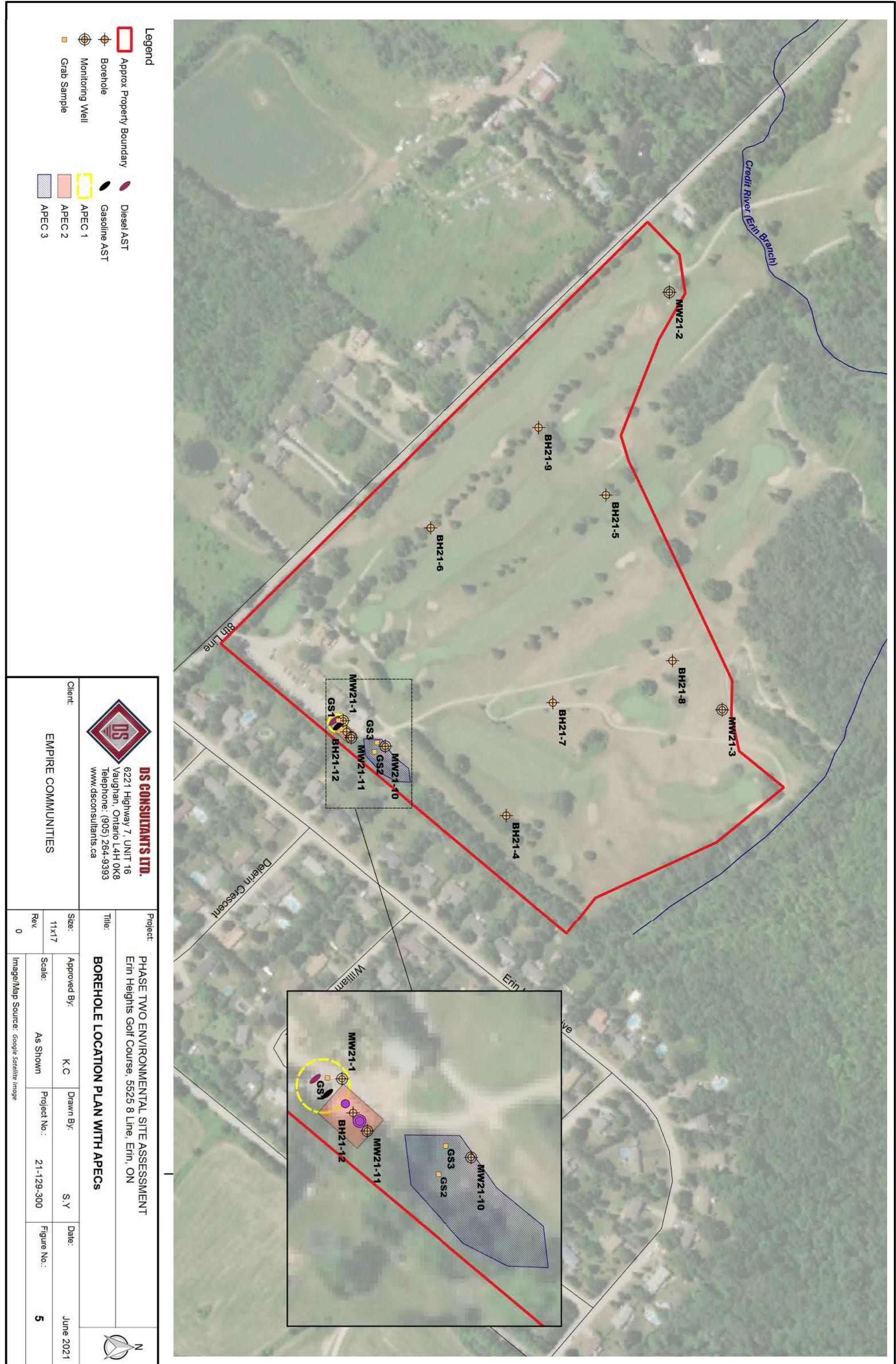
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|--|---------------------|----------------------------|--------------------|
| Size: 8.5 x 11 | Approved By: K.C | Drawn By: S.Y | Date: June 2021 |
| Rev: 0 | Scale: As Shown | Project No.: 21-129-300 | Figure No.: 2 |
| Image/Map Source: Esri Satellite Image | | | |

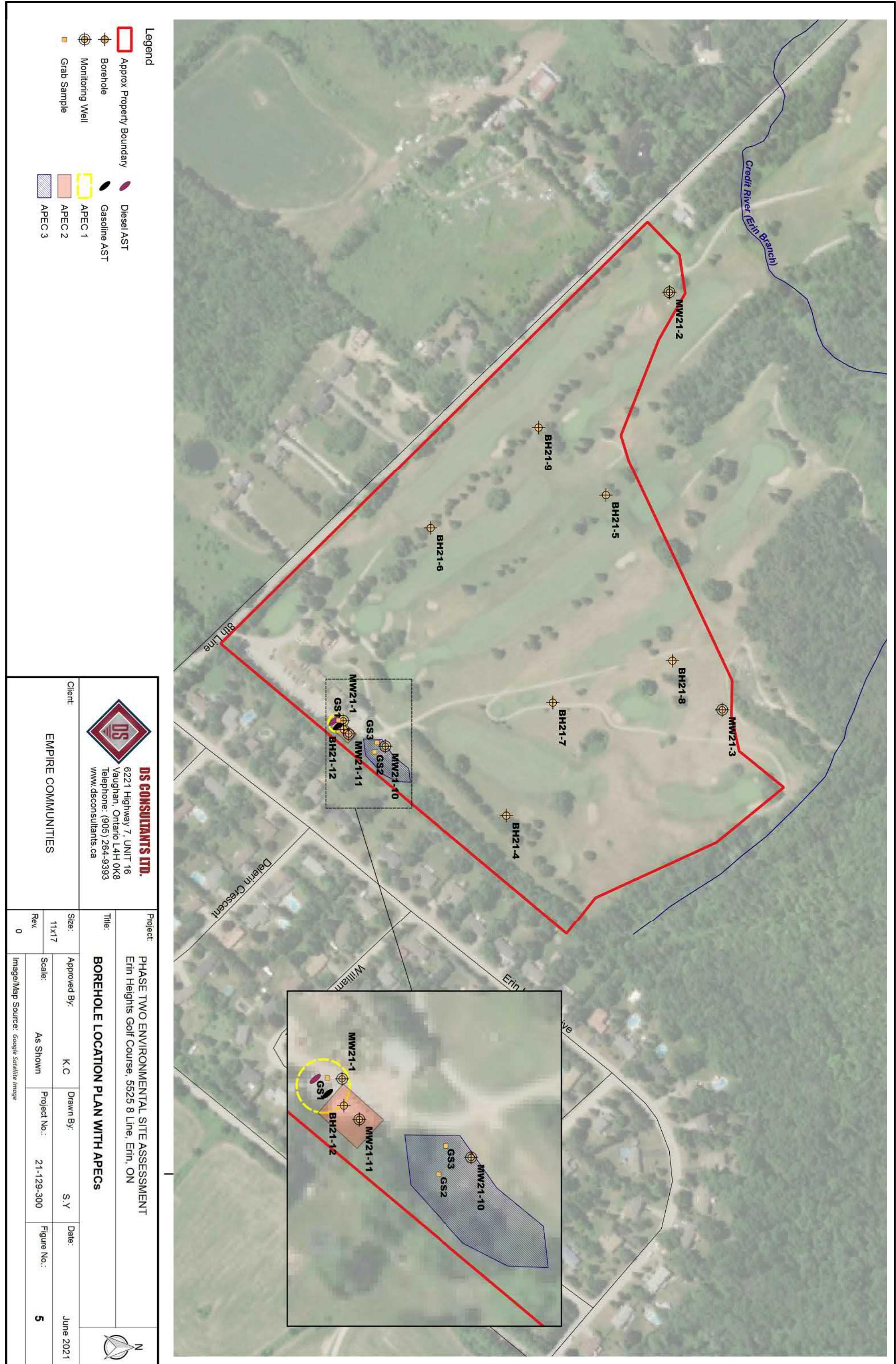


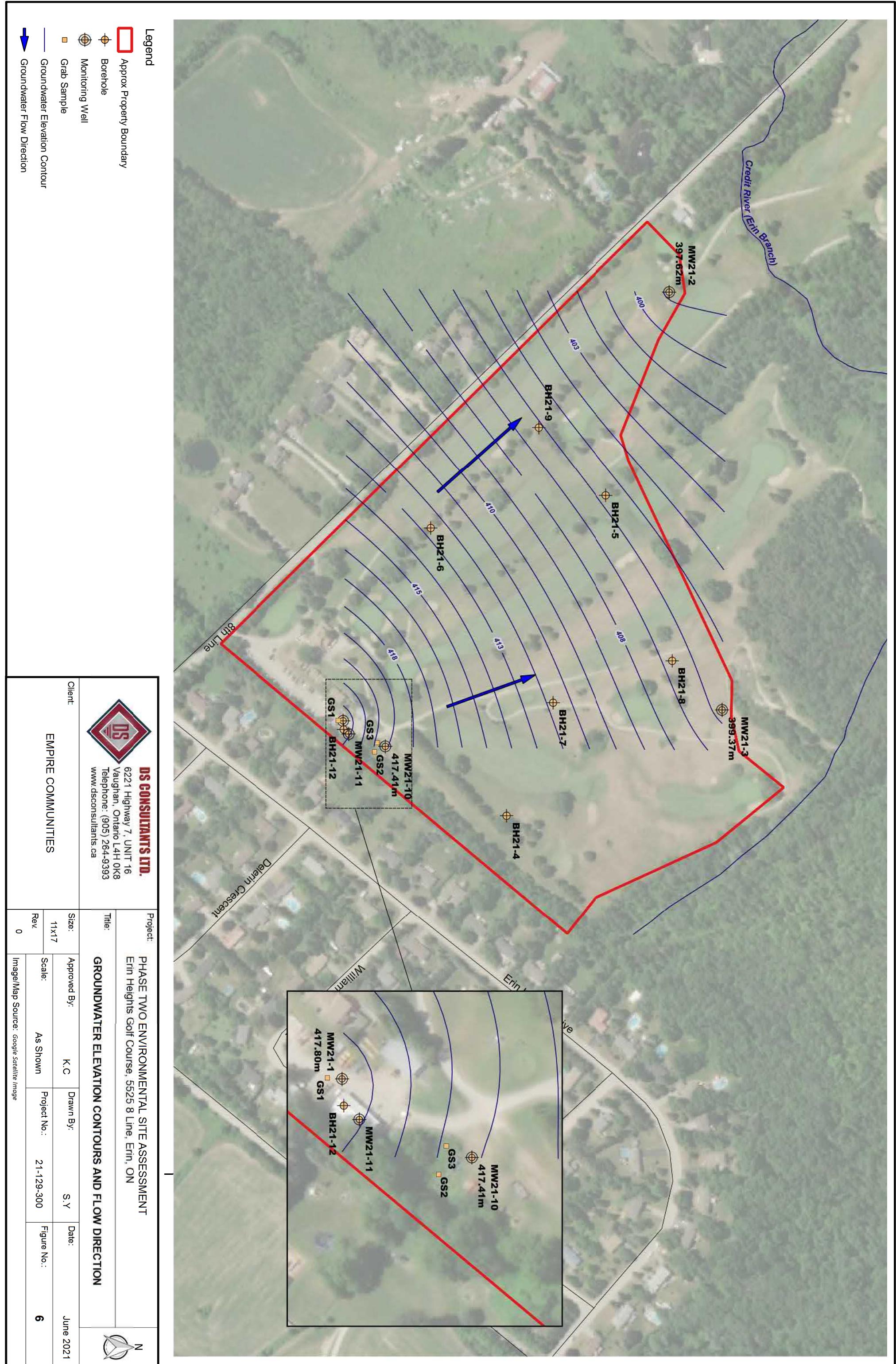
| | | | | | | | |
|--|--------------------|-----------|--------------------|---|----------------------|--|--------------------|
| DS CONSULTANTS LTD. 6221 Highway 7, UNIT 16 Vaughan, Ontario L4H 0K8 Telephone: (905) 264-9393 www.dsconsultants.ca | | | | Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT Erin Heights Golf Course, 5525 8 Line, Erin, ON | | | |
| Title: PHASE ONE STUDY AREA | | | | | | | |
| | | | | Size: 8.5 x 11 | Approved By: K.C. | Drawn By: S.Y. | Date: June 2021 |
| Client: | EMPIRE COMMUNITIES | Rev: 0 | Scale: As Shown | Project No.: 21-129-300 | Figure No.: 3 | Image/Map Source: Esri Satellite Image | |

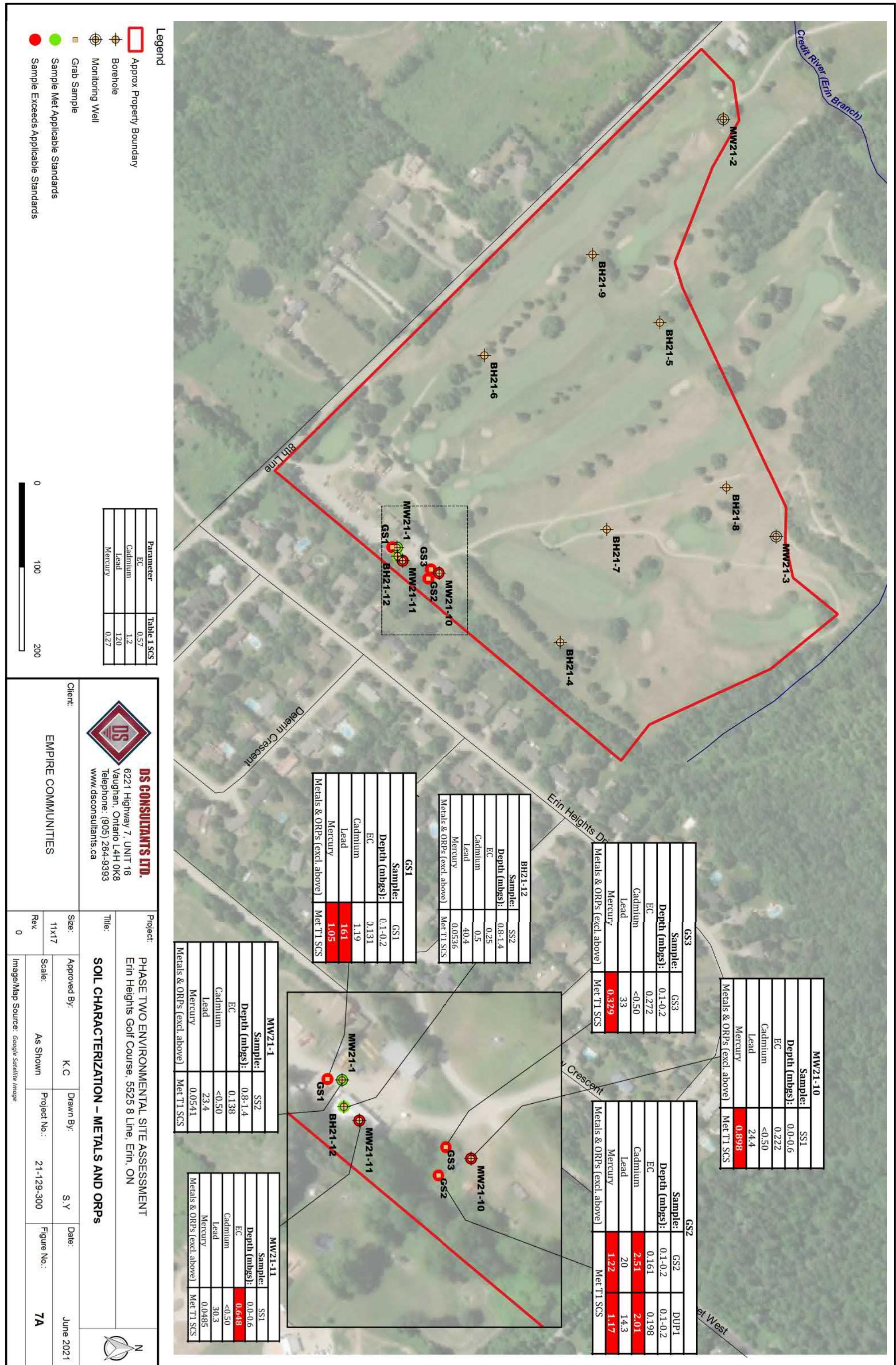


| | | | | | |
|--|--------------------|---|----------------------|----------------------------|-------------------------|
| DS CONSULTANTS LTD. 6221 Highway 7, UNIT 16 Vaughan, Ontario L4H 0K8 Telephone: (905) 264-9393 www.dsconsultants.ca | | Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT Erin Heights Golf Course, 5525 8 Line, Erin, ON | | | |
| Title: | | PCA WITHIN PHASE ONE STUDY AREA | | | |
| Client: | EMPIRE COMMUNITIES | Size: 8.5 x 11 | Approved By: K.C. | Drawn By: S.Y. | Date: June 2021 |
| | | Rev: 0 | Scale: As Shown | Project No.: 21-129-300 | Figure No.: 4 |
| Image/Map Source: Esri Topo Map | | | | | |



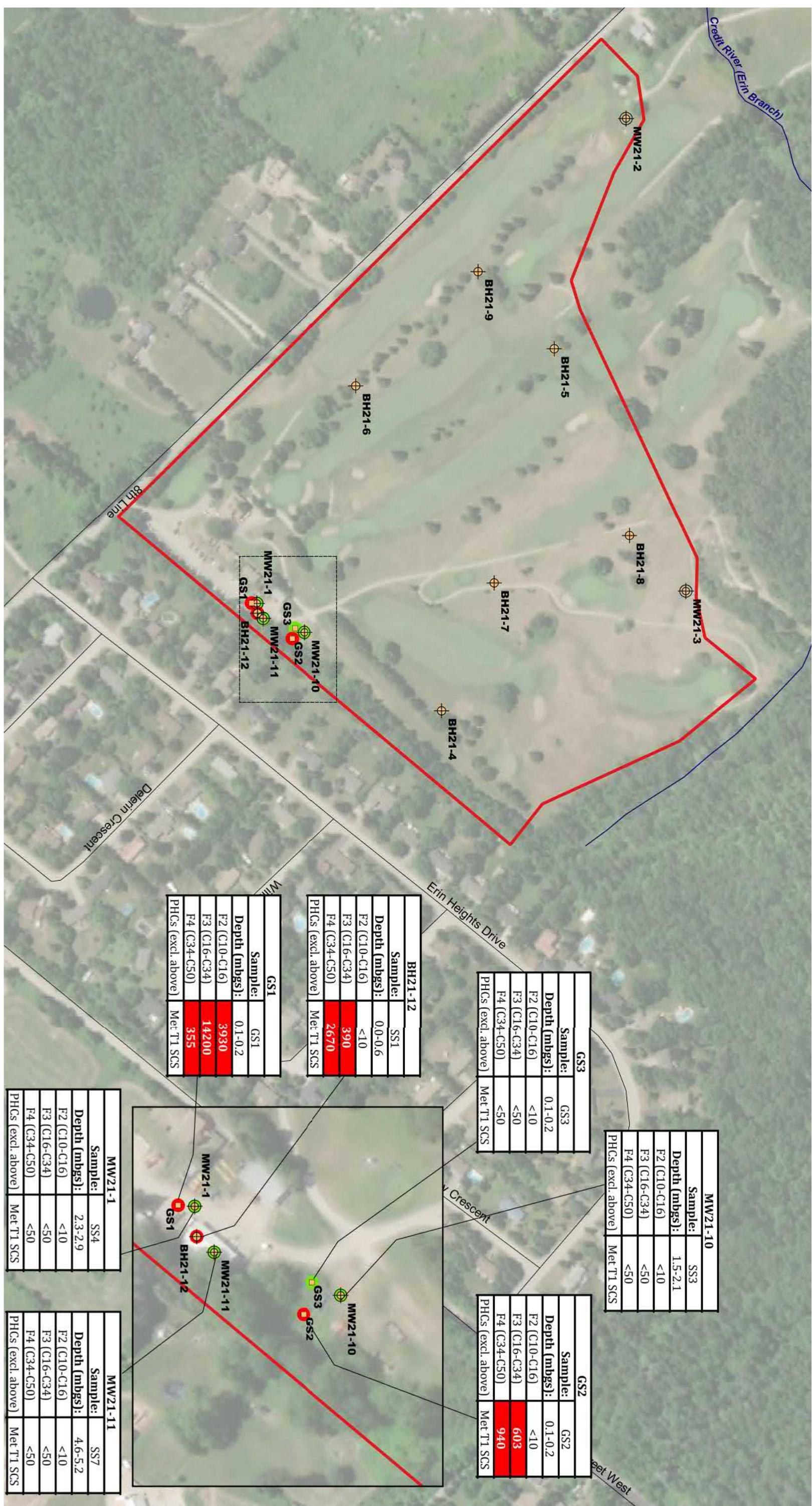


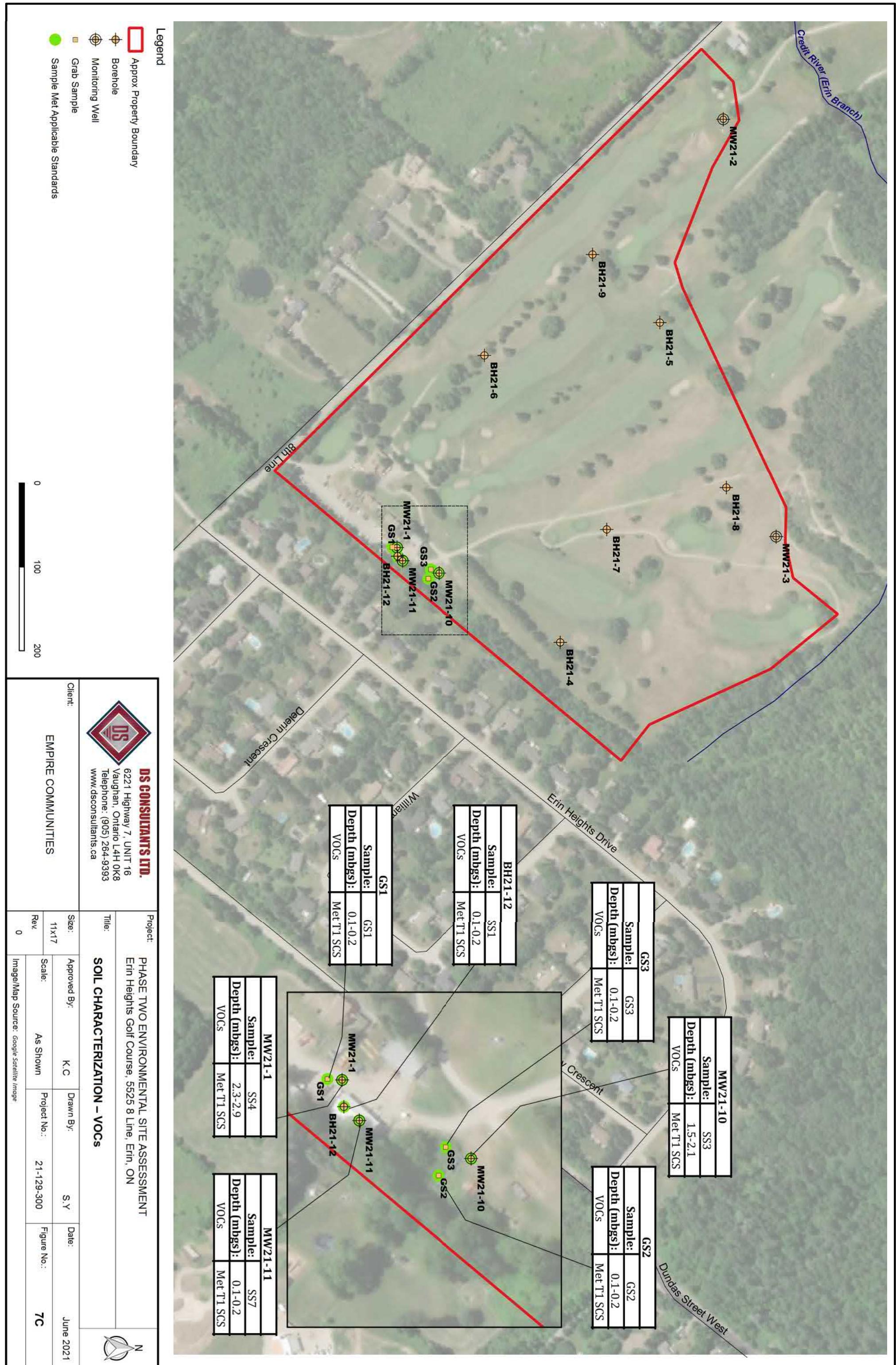


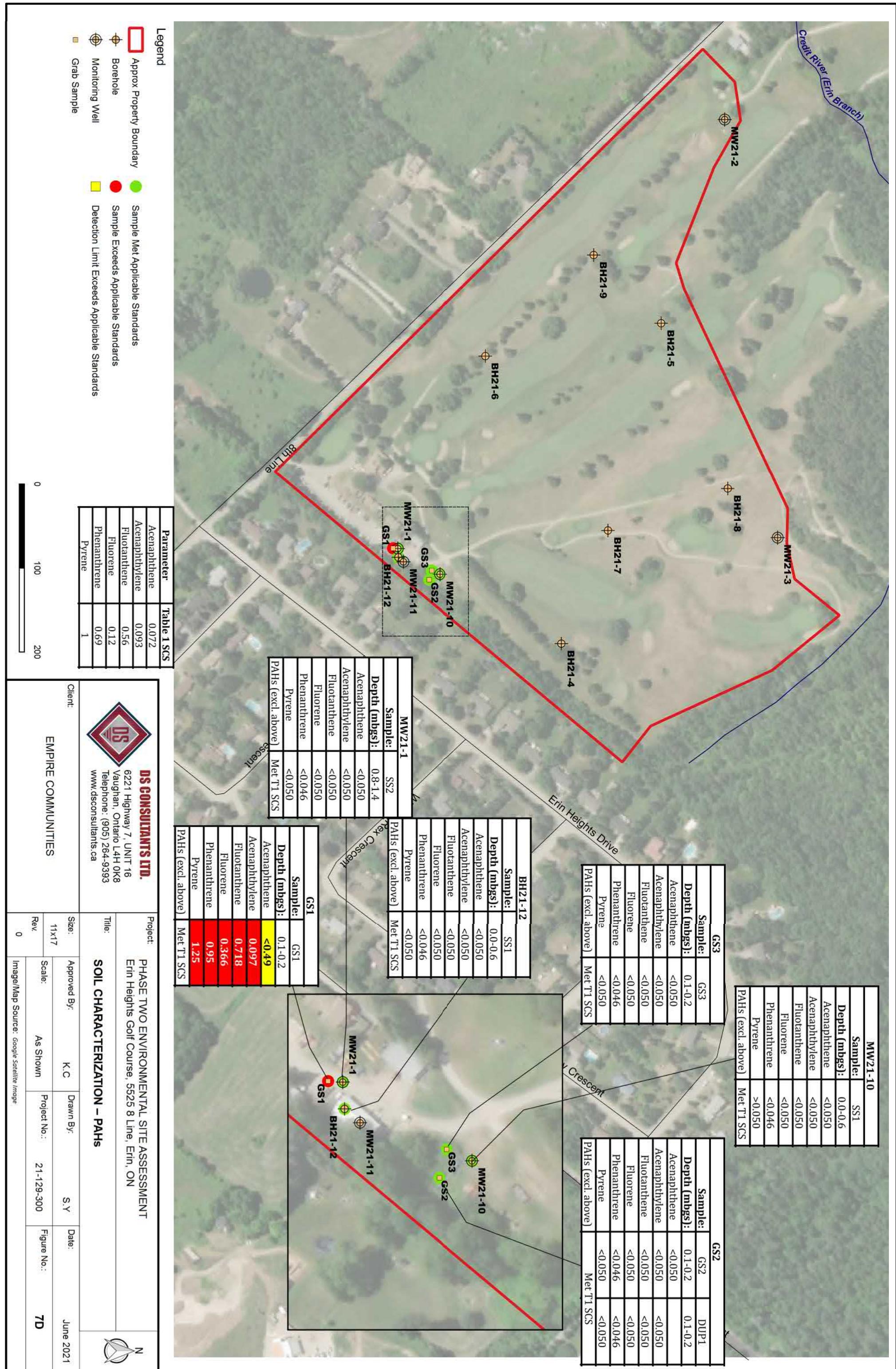


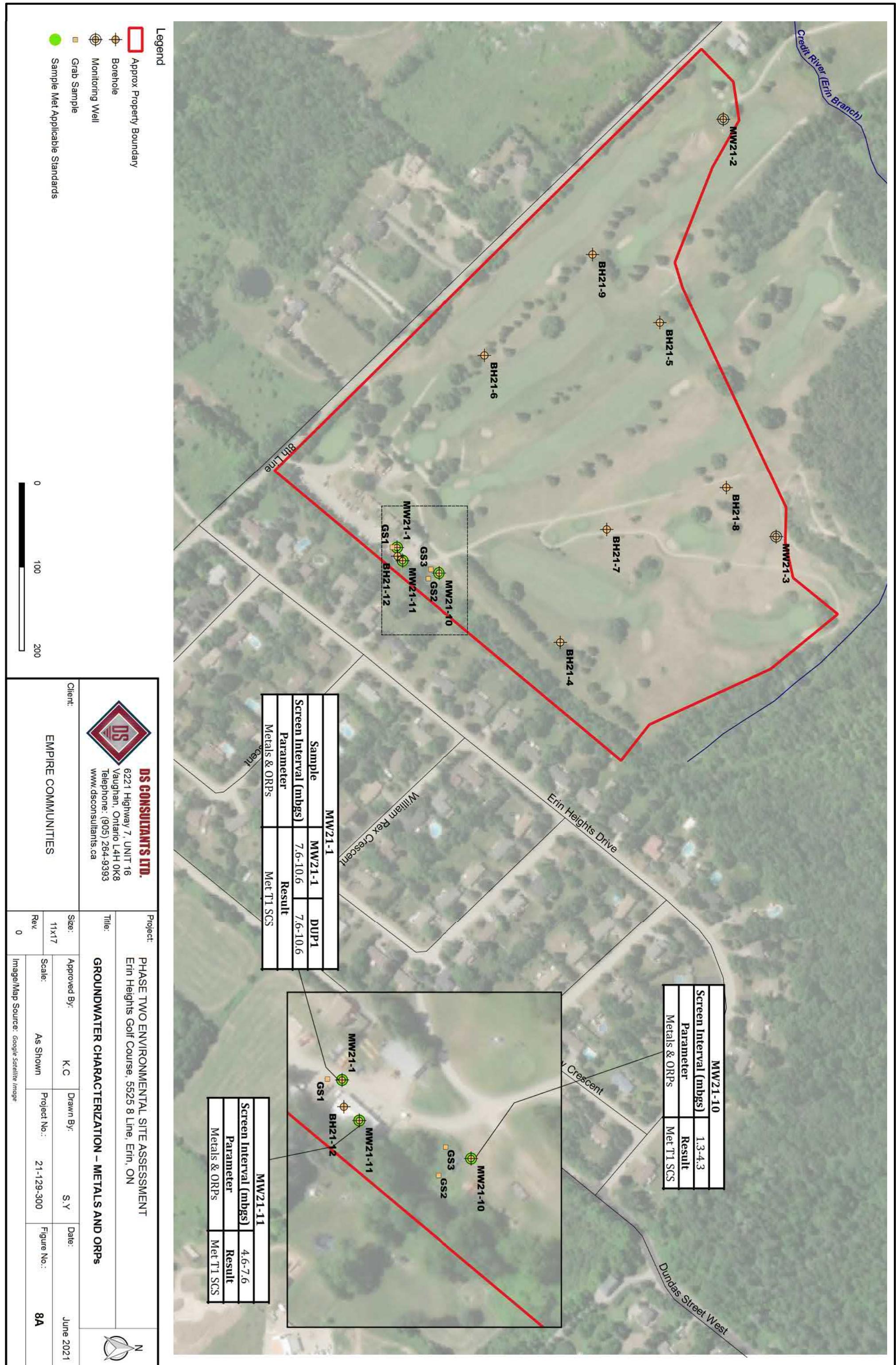
Legend

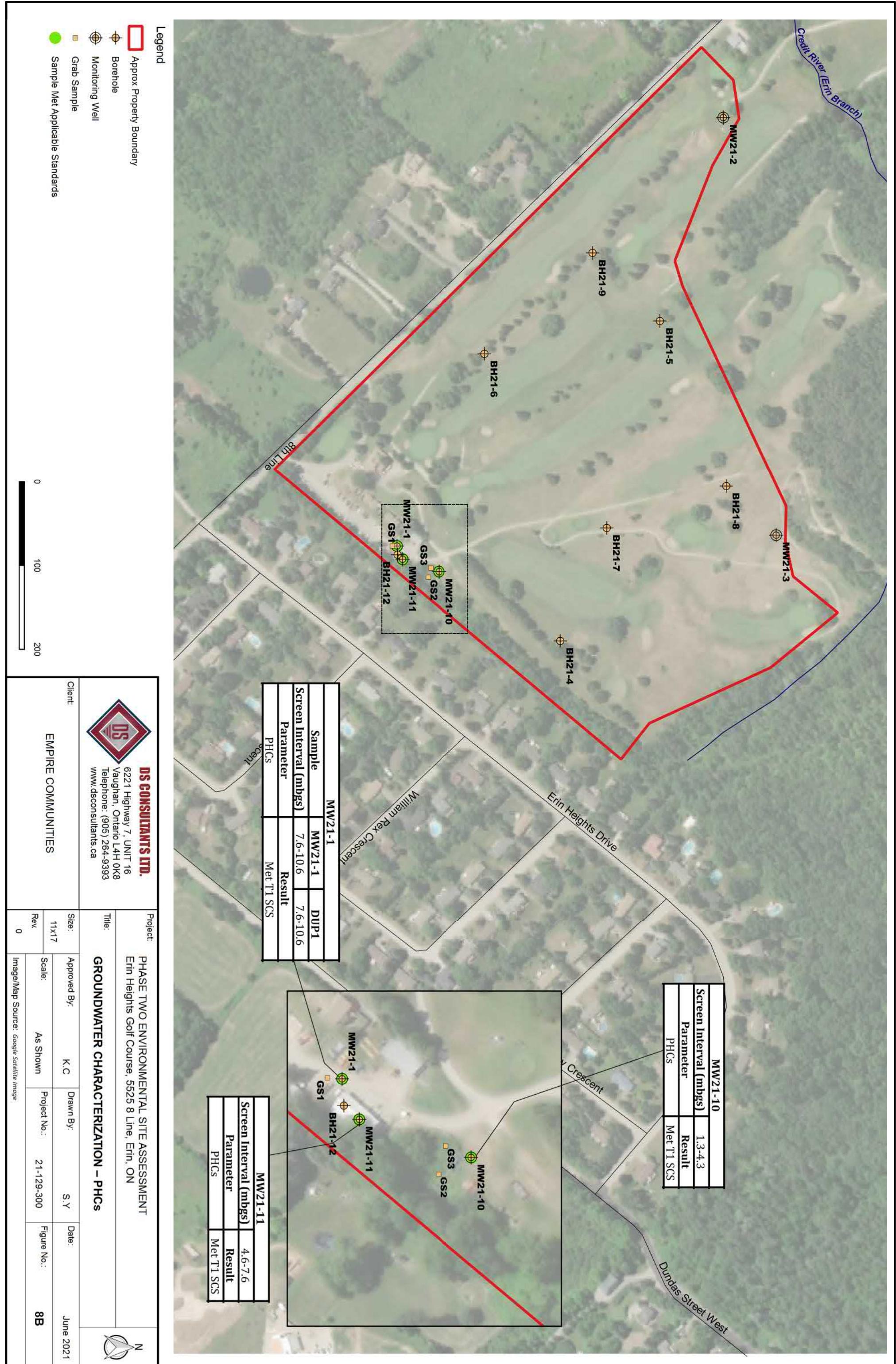
- Approx Property Boundary
- Sample Met Applicable Standards
- Sample Exceeds Applicable Standards
- Grab Sample
- Monitoring Well

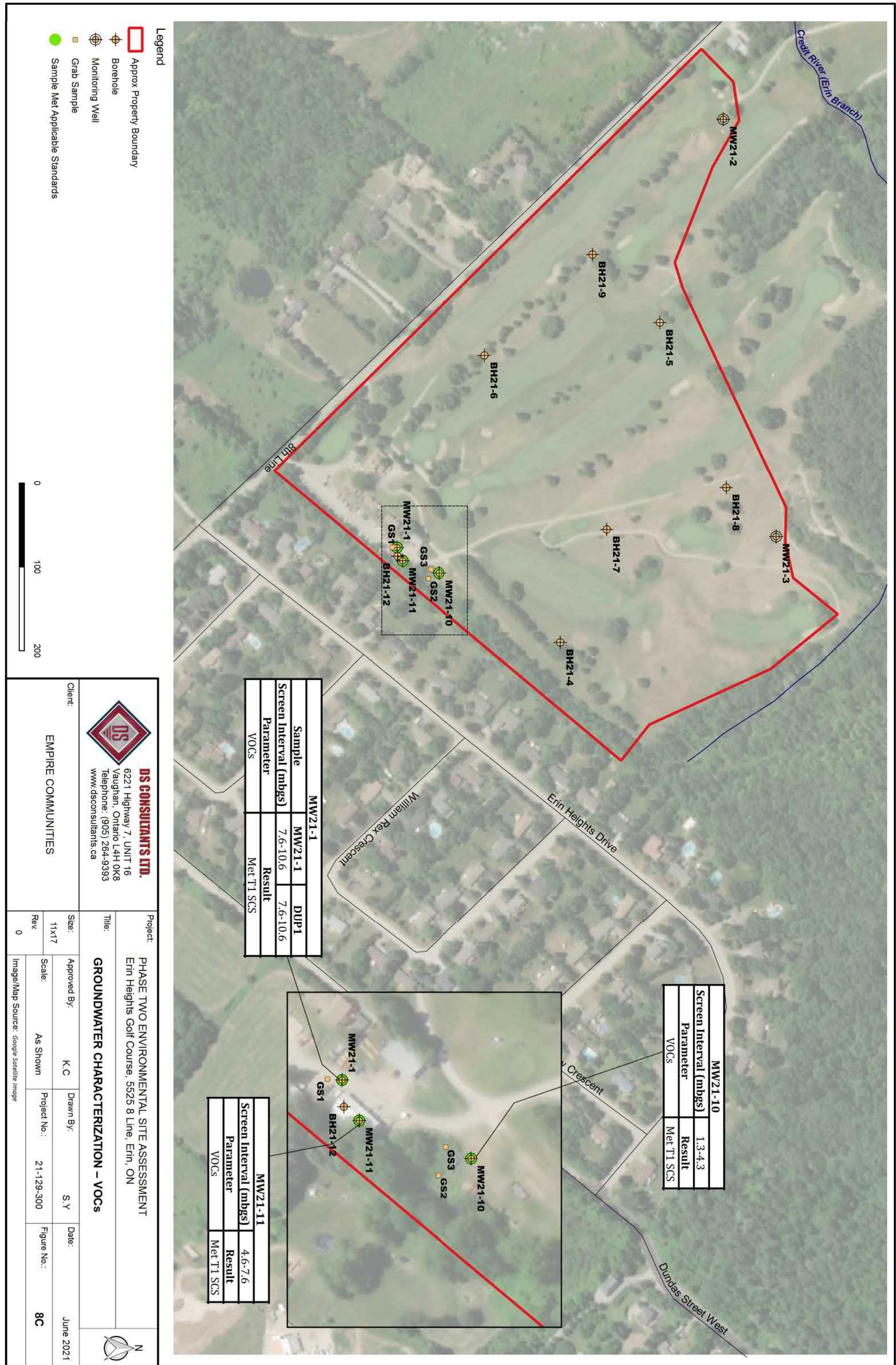


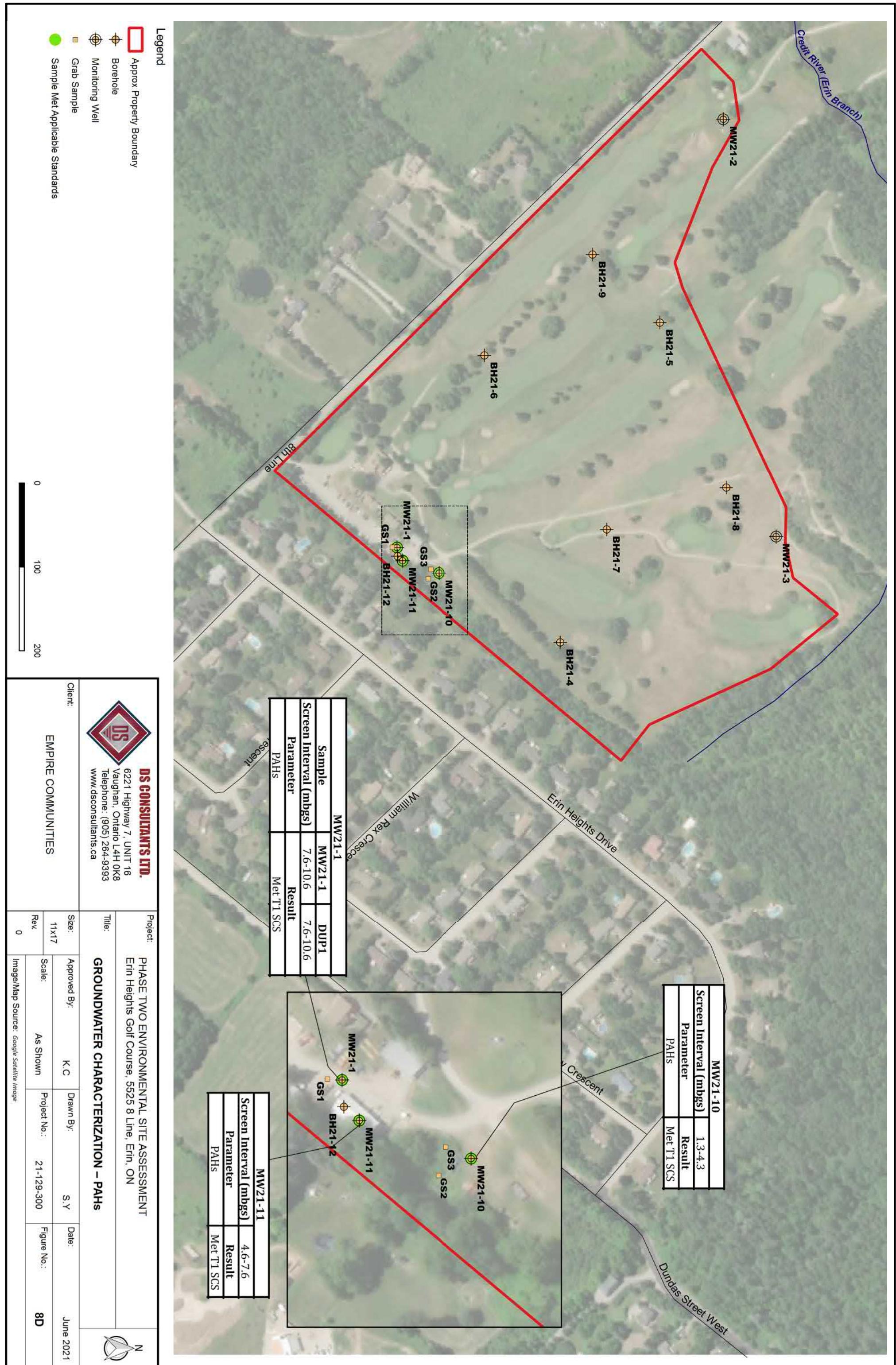






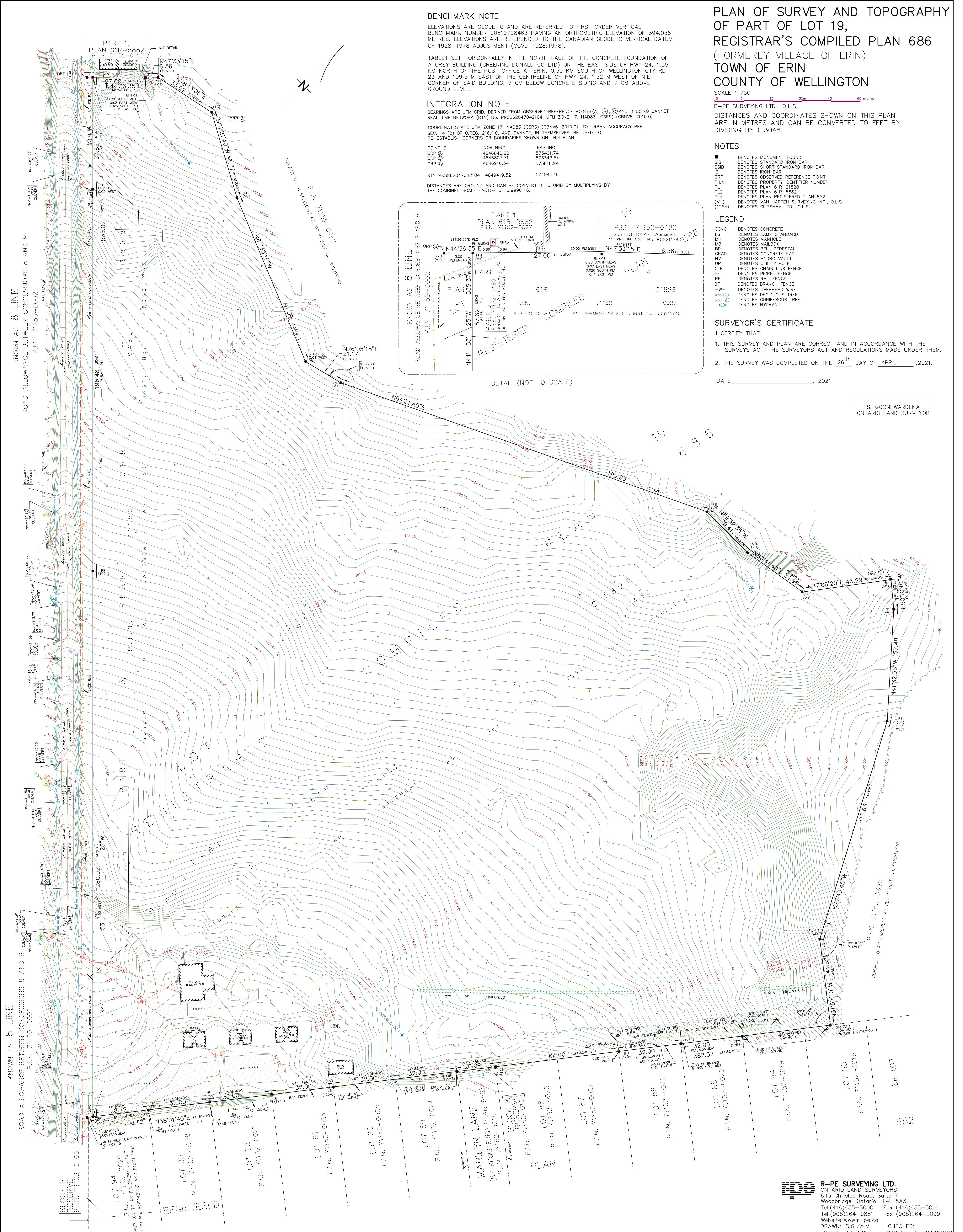








Appendix A





Appendix B



P21-03-042

March 17, 2021

Empire Communities Ltd.
125 Villarboit Crescent
Vaughan, Ontario
L4K 4K2
via email: <mailto:jcastro@empirecommunities.com>

Attention: Mr. John Castro
Project Manager, Land Development

Re: Sampling and Analysis Plan – Phase Two Environmental Site Assessment
5525 8 Line, Erin, ON

1. Introduction

DS Consultants Limited (DS) is pleased to present the Sampling and Analysis Plan (SAP) for the proposed Phase Two Environmental Site Assessment of 5525 8 Line, Erin, ON (the Site). The purpose of the proposed Phase Two ESA program is to assess the current subsurface environmental conditions in support of the proposed redevelopment of the Site.

The Phase Two ESA will involve intrusive investigation in the areas determined in the Site visit to be Areas of Potential Environmental Concern (APECs), and will be completed in general accordance with O.Reg 153/04. Based on the findings of the field and laboratory analyses, a Phase Two ESA report will be prepared.

2. Background

Based on the Phase One Environmental Site Assessment completed by DS, it is DS's understanding that the Site is a 14.1355 hectare (34.9295 acres) parcel of land which is currently used for commercial purposes. The first developed use of the Site is interpreted to be Residential based on the findings of the Phase One ESA. A total of three (3) potentially contaminating activities were identified on the Phase One Property or on neighbouring properties within the Phase One Study Area which are considered to be contributing to Areas of Potential Environmental Concern (APECs) on the Phase Two Property. A summary of the APECs identified, the potential contaminants of concern, and the media potentially impacted is presented in Table 1 below:



Table 1: Areas of Potential Environmental Concern

| Area of Potential Environmental Concern | Location of Area of Potential Environmental Concern on Phase One Property | Potentially Contaminating Activity | Location of PCA (on-site or off-site) | Contaminants of Potential Concern | Media Potentially Impacted (Ground water, soil and/or sediment) |
|---|---|--|---------------------------------------|-----------------------------------|---|
| APEC-1 | South-Central portion of the Site, west adjacent to the maintenance shop. | PCA-21: #28: Gasoline and Associated Products Storage in Fixed Tanks | On-Site | Metals, VOCs, PHCs, PAHs | Soil and Groundwater |
| APEC-2 | South-Central portion of the Site. | PCA-32: #27: Garages and Maintenance and Repair of Railcars, Marine Vehicles and Aviation Vehicles | On-Site | Metals, VOCs, PHCs, PAHs | Soil and Groundwater |
| APEC-3 | South-Central portion of the Site, east of the maintenance shop. | PCA-3: #49: Salvage Yard, including automobile wrecking | On-Site | Metals, VOCs, PHCs, PAHs | APEC-3 |

Notes:

1. PHC (F1-F4) = Petroleum Hydrocarbons in the F1-F4 fraction ranges
2. VOCs = Volatile Organic Compounds
3. PAHs = Polycyclic Aromatic Hydrocarbons

3. Site Investigation Program

The proposed field investigation will involve the advancement of boreholes, the installation of monitoring wells, and periodic monitoring of the installed wells. A total of four borehole locations have been identified. Details regarding the proposed boreholes/monitoring wells are provided in the following table:

Table 3-1: Summary of Proposed Investigation Program

| ID | Proposed Depth | Well Installation (Y/N) | Well Install Depth | Purpose |
|---------|----------------|-------------------------|--------------------|--------------------|
| MW21-1 | 6.1 mbgs | Y | 6.1 mbgs | Investigate APEC-1 |
| MW21-10 | 4.6 mbgs | Y | 4.6 mbgs | Investigate APEC-3 |
| MW21-11 | 6.1 mbgs | Y | 6.1 mbgs | Investigate APEC-2 |
| BH21-12 | 1.5 mbgs | N | 4.6 mbgs | Investigate APEC-2 |

Prior to mobilizing a drilling rig, we will lay out the proposed borehole and clear the buried utilities and services by using Ontario One Call System in addition to private utility locates.

The borings will be advanced to the indicated depths using a track mounted continuous flight auger machine and portable drilling equipment for MW21-1 and MW21-10 and a limited access equipment



for MW21-11 and BH21-12. Samples will be retrieved by means of a 50 mm O.D. split-spoon barrel sampler at 0.75 metre intervals in the upper 3 metres and at 1.5 metres intervals below this level. The monitoring wells will be constructed using 50 mm I.D. PVC pipe, equipped with 3.1 m slotted screens and finished at the ground surface with flush mount well casings. A geodetic benchmark will be used to establish the elevation of each borehole. Drilling and sampling will conform to standard practice.

The Phase Two ESA involves the following principal tasks:

- Preparation of a sampling and analysis plan in accordance with the requirements of O.Reg.153/04 (as amended);
- Retain the services of public and private utility locators to identify the locations of buried and overhead utility services prior to any excavation or demolition activities;
 - Certain underground utilities (such as those constructed or encased in plastic, fibreglass, clay, concrete pipe, untraceable cast iron, steel, and/or repaired services) cannot be traced by standard locating practices. DS will review all available Site Plans and/or "As Built" figures in an attempt to identify the locations of potential untraceable services. DS will not be held responsible for any damages to utility services that are not on the figures provided or cannot be located by standard utility locating practices;
- Geotechnical completed for the geotechnical investigation will be utilized for environmental sampling. Three (3) of the geotechnical boreholes will be instrumented with groundwater monitoring wells and screened to intersect the groundwater table. The proposed boreholes will be used to facilitate the collection of representative soil and groundwater samples, and to provide information regarding the Site-specific geological and hydrogeological conditions. The monitoring wells will be constructed using 50 mm I.D. PVC pipe, equipped with 3.1m slotted screens, and finished at the ground surface with monument style well casings ;
- All soil samples recovered during the proposed drilling activities will be field screened for visual and olfactory evidence of deleterious impacts and for the presence of petroleum hydrocarbon (PHC) and volatile organic compound (VOC) derived vapours using either a combustible gas detector (CGD) calibrated to hexane or a photo-ionization detector (PID) calibrated to isobutylene or equivalent;
- Measure the depth to groundwater levels in the monitoring wells installed, and monitor the wells for the presence/absence of non-aqueous phase liquid using an interface probe;
- Survey each of the monitoring wells to a geodetic datum;



- Develop and purge all of the monitoring wells installed, and collect representative groundwater samples;
- Submit soil and groundwater samples from the newly advanced boreholes to a CALA accredited laboratory for the following analyses:

Table 3-2: Summary of proposed chemical analyses

| Soil | Groundwater |
|--|--|
| <ul style="list-style-type: none">• 4 Samples for analysis of metals and other regulated parameters• 3 Samples for analysis of PHCs• 3 Samples for analysis of VOCs• 2 Samples for analysis of PAHs | <ul style="list-style-type: none">• 3 Samples for analysis of metals and inorganics• 3 Samples for analysis of PHCs• 3 Samples for analysis of VOCs• 1 Sample for analysis of PAHs• 1 VOC Trip Blank |

- A Quality Assurance and Quality Control (QAQC) program will be implemented, involving the collection and analysis of duplicate soil and groundwater samples and trip blanks at the frequency specified under O.Reg. 153/04 (as amended);
- A Phase Two ESA Report will be prepared upon receipt of all analytical results and groundwater monitoring data. The Phase Two ESA Report will be completed in general accordance with O.Reg. 153/04 (as amended).

It should be noted that drilling activities may result in some disturbance to the ground surface at the site. Precautions will be taken by the drilling contractor to minimize any damage. The Client will be notified should there be cause to extend the borehole termination depth based on field observations. It is assumed that the site can be accessed at our convenience, during regular business hours. Prior notice will be sent to the client and site representative.

It is noted that if the Phase Two ESA reveals parameter concentrations greater than the applicable standards set out in *Ontario Regulation 153/04*, then additional work (i.e., supplemental delineation, additional drilling, sampling, analysis, and/or site remediation activities) will be deemed necessary prior to RSC filing, should an RSC be required. The costs for any additional work, if necessary, are beyond the current scope of work.

The SAP was created based on the request to complete a Phase Two ESA in support of the proposed redevelopment of the Site. The SAP was compiled to collect data to provide information on soil and/or groundwater quality in each APEC.



Additional delineation may be required following the implementation of this SAP to meet the requirements of O.Reg. 153/04 which requires delineation of all areas where concentrations are above the applicable SCS such as in the following conditions:

- Unexpected contamination not previously discovered, or not related to identified APECs, is discovered which will require further delineation to identify source(s); and
- If the sampling results indicate that the soil and/or groundwater impacts are deeper than initially expected.

4. Closure

We trust that this Sampling and Analysis Plan meets the objectives of the Client. If further assistance is required on this matter please do not hesitate to contact the undersigned.

Yours Very Truly,

DS Consultants Ltd.



Keith Clarke, B.Sc.
Senior Project Manager - Environmental



Appendix C

| PROJECT: Phase Two ESA, Erin Heights Golf Course | | | | | | DRILLING DATA | | | | | | |
|--|--|--|--|--|--|--|---|--|--|--|--|--|
| CLIENT: Empire Communities | | | | | | Method: Big Beaver rotary auger | | | | | | |
| PROJECT LOCATION: 5525 8 Line, Erin, ON | | | | | | Diameter: 100mm | | | | | | |
| DATUM: Geodetic | | | | | | Date: Apr-29-2021 | | | | | | |
| DRILLING COMPANY: Kodiak Drilling N 4846540 E 573794 | | | | | | REF. NO.: 21-129-300 | | | | | | |
| ENCL NO.: | | | | | | ENCL NO.: | | | | | | |
| SOIL PROFILE (m) ELEV DEPTH | | | | | | SAMPLES STRATA PLOT NUMBER TYPE 1" BLOWS 0.3 m | | | | | | |
| 423.1 | DESCRIPTION 0.0 SILTY SAND : trace gravel, trace clay, brown, moist, compact | | | | | | Soil Head Space Vapors ELEVATION PID (ppm) CGD (ppm) 10 20 30 40 10 20 30 40 423 65 | | | | | |
| 421.0 | END OF BOREHOLE: | | | | | | PLASTIC LIMIT W _P NATURAL MOISTURE CONTENT W LIQUID LIMIT W _L WATER CONTENT (%) 10 20 30 421 | | | | | |
| 2.1 | | | | | | | POCKET PEN. (Cu) (kPa) NATURAL UNIT WT (kN/m ³) | | | | | |
| | | | | | | | METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL | | | | | |
| | | | | | | | PHCs, VOCs, PAHs M&I | | | | | |



LOG OF BOREHOLE MW21-1

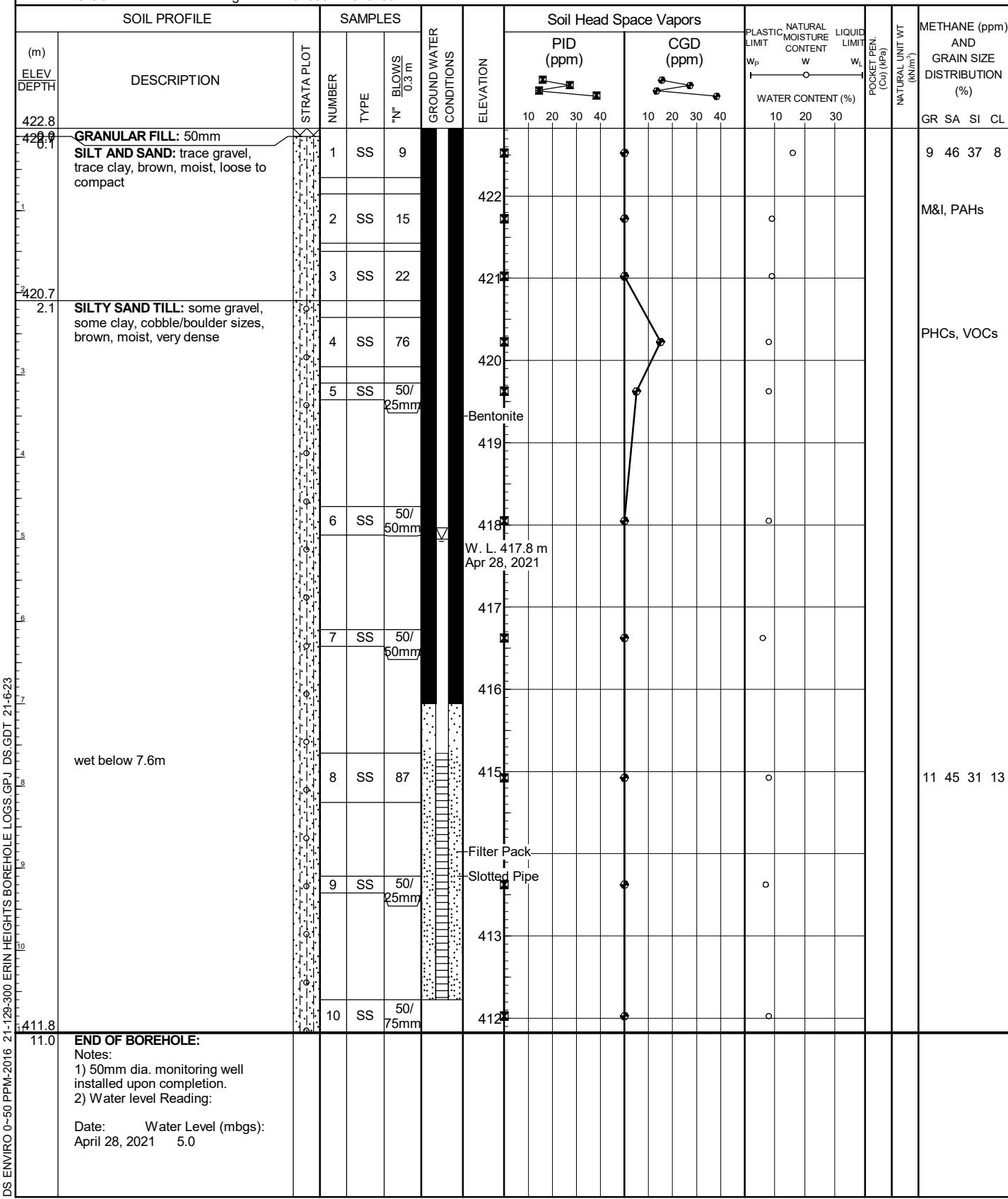
1 OF 1

PROJECT: Phase Two ESA, Erin Heights Golf Course
CLIENT: Empire Communities
PROJECT LOCATION: 5525 8 Line, Erin, ON
DATUM: Geodetic
DRILLING COMPANY: Davis Drilling Ltd. N 4846537 E 573786

DRILLING DATA

Method: Hollow Stem Auger
Diameter: 200mm
Date: Apr-15-2021

REF. NO.: 21-129-300
ENCL NO.:



GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

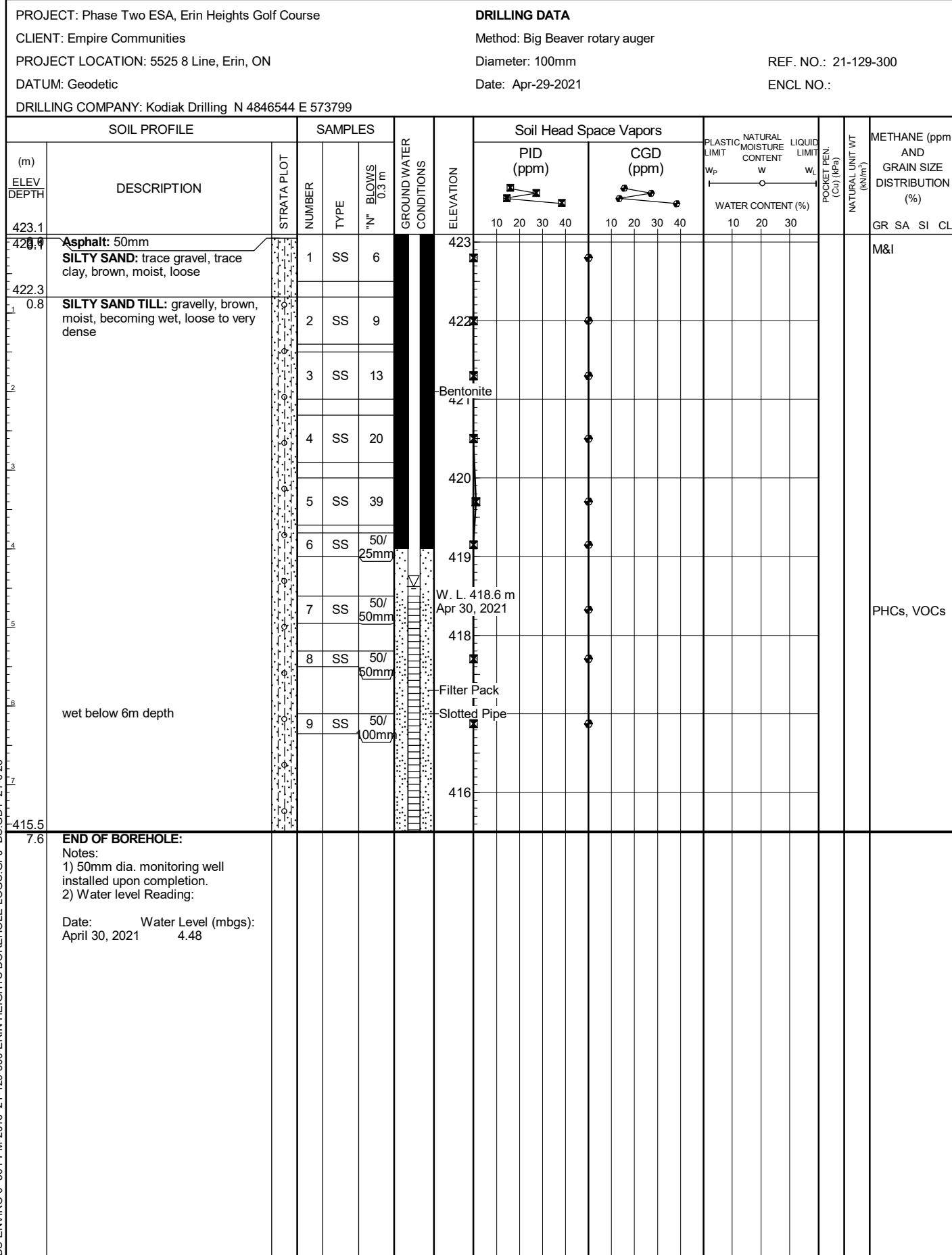
GRAPH
NOTES

+ 3 , X 3 : Numbers refer to Sensitivity

○ ● = 3% Strain at Failure

| PROJECT: Phase Two ESA, Erin Heights Golf Course | | | | | | DRILLING DATA | | | | | |
|--|------|--|-------------|--------|------|--|----------------|----------------------------|-------------------------------|-------------------------------|--------------|
| CLIENT: Empire Communities | | | | | | Method: Hollow Stem Auger | | | | | |
| PROJECT LOCATION: 5525 8 Line, Erin, ON | | | | | | Diameter: 200mm | | | | | |
| DATUM: Geodetic | | | | | | Date: Apr-19-2021 | | | | | |
| DRILLING COMPANY: Davis Drilling Ltd. N 4846573 E 573806 | | | | | | REF. NO.: 21-129-300 | | | | | |
| ENCL NO.: | | | | | | ENCL NO.: | | | | | |
| SOIL PROFILE | | | | | | SAMPLES | | | | | |
| (m) | ELEV | DEPTH | STRATA PLOT | NUMBER | TYPE | "N" | BLOWS 0.3 m | GROUND WATER CONDITIONS | ELEVATION | Soil Head Space Vapors | |
| | | | | | | | | | | PID (ppm) | CGD (ppm) |
| 419.1 | | | | 1 | SS | 10 | | | 419 | | |
| 418.8 | 0.0 | GRANULAR FILL: 250mm | | 2 | SS | 4 | | | 418.2 | | |
| 0.3 | | FILL: silty sand, some gravel, trace clay, brown, moist, loose to compact | | 3 | SS | 23 | | | W. L. 417.4 m Apr 28, 2021 | | |
| 1 | | | | 4 | SS | 8 | | | 417.4 | | |
| 2 | | | | 5 | SS | 44 | | | Filter Pack | | |
| 416.8 | 2.3 | SILTY SAND: trace gravel, trace clay, brown, wet, loose | | 6 | SS | 58 | | | Slotted Pipe | | |
| 3 | | | | 7 | SS | 80 | | | | | |
| 416.0 | 3.1 | SILTY SAND TILL: gravelly, brown to grey, moist, dense to very dense | | 8 | SS | 72 | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 410.9 | 8.2 | END OF BOREHOLE: Notes: 1) 50mm dia. monitoring well installed upon completion. 2) Water level Reading: Date: Water Level (mbgs): April 28, 2021 1.69 | | | | | | | | | |
| DS ENVIRO 0-50 PPM-2016 21-129-300 ERIN HEIGHTS BOREHOLE LOGS GPJ DS.GDT 21-6-23 | | | | | | | | | | | |
| GROUNDWATER ELEVATIONS | | | | | | GRAPH NOTES | | | | | |
| Measurement | | | | | | + ³ , X ³ : Numbers refer to Sensitivity | | | | | |
| 1st 2nd 3rd 4th | | | | | | O = 3% Strain at Failure | | | | | |

3, X ³: Numbers refer to Sensitivity



GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH
NOTES

+ 3 , X 3 : Numbers refer to Sensitivity

O ●=3% Strain at Failure



Appendix D



SOIL



DS Consultants (Cambridge)
ATTN: KEITH CLARKE
380 Jamieson Parkway
Unit 6
Cambridge ON N3C 4N4

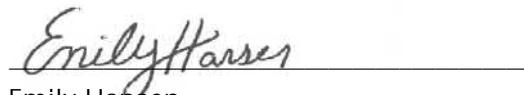
Date Received: 20-APR-21
Report Date: 26-MAY-21 13:05 (MT)
Version: FINAL REV. 2

Client Phone: 519-260-9393

Certificate of Analysis

Lab Work Order #: L2578440
Project P.O. #: NOT SUBMITTED
Job Reference: 21-129-300
C of C Numbers: 17-820071
Legal Site Desc:

Comments: ADDITIONAL 13-MAY-21 08:39



Emily Hansen
Account Manager

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ANALYTICAL GUIDELINE REPORT

21-129-300

| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|---|------------|--------------|-----------|----------|-----------|----------|------------------|-------|----|
| Grouping | Analyte | | | | | | #1 | #2 | #3 |
| L2578440-1 | MW21-1 SS2 | | | | | | | | |
| Sampled By: | CLIENT | on 15-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Physical Tests | | | | | | | | | |
| Conductivity | 0.138 | | 0.0040 | mS/cm | 27-APR-21 | 0.57 | 0.7 | 0.7 | |
| % Moisture | 7.20 | | 0.25 | % | 23-APR-21 | | | | |
| pH | 7.94 | | 0.10 | pH units | 25-APR-21 | | | | |
| Cyanides | | | | | | | | | |
| Cyanide, Weak Acid Diss | <0.050 | | 0.050 | ug/g | 23-APR-21 | 0.051 | 0.051 | 0.051 | |
| Saturated Paste Extractables | | | | | | | | | |
| SAR | 0.15 | | 0.10 | SAR | 28-APR-21 | 2.4 | 5 | 5 | |
| Calcium (Ca) | 20.3 | | 0.50 | mg/L | 28-APR-21 | | | | |
| Magnesium (Mg) | 2.19 | | 0.50 | mg/L | 28-APR-21 | | | | |
| Sodium (Na) | 2.74 | | 0.50 | mg/L | 28-APR-21 | | | | |
| Metals | | | | | | | | | |
| Antimony (Sb) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 1.3 | 7.5 | 7.5 | |
| Arsenic (As) | 2.1 | | 1.0 | ug/g | 27-APR-21 | 18 | 18 | 18 | |
| Barium (Ba) | 16.6 | | 1.0 | ug/g | 27-APR-21 | 220 | 390 | 390 | |
| Beryllium (Be) | <0.50 | | 0.50 | ug/g | 27-APR-21 | 2.5 | 4 | 5 | |
| Boron (B) | <5.0 | | 5.0 | ug/g | 27-APR-21 | 36 | 120 | 120 | |
| Boron (B), Hot Water Ext. | 0.12 | | 0.10 | ug/g | 27-APR-21 | 36 | 1.5 | 1.5 | |
| Cadmium (Cd) | <0.50 | | 0.50 | ug/g | 27-APR-21 | 1.2 | 1.2 | 1.2 | |
| Chromium (Cr) | 7.7 | | 1.0 | ug/g | 27-APR-21 | 70 | 160 | 160 | |
| Cobalt (Co) | 2.4 | | 1.0 | ug/g | 27-APR-21 | 21 | 22 | 22 | |
| Copper (Cu) | 7.8 | | 1.0 | ug/g | 27-APR-21 | 92 | 140 | 180 | |
| Lead (Pb) | 23.4 | | 1.0 | ug/g | 27-APR-21 | 120 | 120 | 120 | |
| Mercury (Hg) | 0.0541 | | 0.0050 | ug/g | 27-APR-21 | 0.27 | 0.27 | 1.8 | |
| Molybdenum (Mo) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 2 | 6.9 | 6.9 | |
| Nickel (Ni) | 5.6 | | 1.0 | ug/g | 27-APR-21 | 82 | 100 | 130 | |
| Selenium (Se) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 1.5 | 2.4 | 2.4 | |
| Silver (Ag) | <0.20 | | 0.20 | ug/g | 27-APR-21 | 0.5 | 20 | 25 | |
| Thallium (Tl) | <0.50 | | 0.50 | ug/g | 27-APR-21 | 1 | 1 | 1 | |
| Uranium (U) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 2.5 | 23 | 23 | |
| Vanadium (V) | 16.5 | | 1.0 | ug/g | 27-APR-21 | 86 | 86 | 86 | |
| Zinc (Zn) | 92.9 | | 5.0 | ug/g | 27-APR-21 | 290 | 340 | 340 | |
| Speciated Metals | | | | | | | | | |
| Chromium, Hexavalent | <0.20 | | 0.20 | ug/g | 26-APR-21 | 0.66 | 8 | 10 | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | |
| Acenaphthene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.072 | 7.9 | 29 | |
| Acenaphthylene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.093 | 0.15 | 0.17 | |
| Anthracene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.16 | 0.67 | 0.74 | |
| Benzo(a)anthracene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.36 | 0.5 | 0.63 | |
| Benzo(a)pyrene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.3 | 0.3 | 0.3 | |
| Benzo(b&j)fluoranthene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.47 | 0.78 | 0.78 | |
| Benzo(g,h,i)perylene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.68 | 6.6 | 7.8 | |
| Benzo(k)fluoranthene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.48 | 0.78 | 0.78 | |
| Chrysene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 2.8 | 7 | 7.8 | |
| Dibenz(a,h)anthracene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.1 | 0.1 | 0.1 | |
| Fluoranthene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.56 | 0.69 | 0.69 | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)



Environmental

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ANALYTICAL GUIDELINE REPORT

21-129-300

| Sample Details | | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|---|------------|--------------|--------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | | | | | | | | #1 | #2 | #3 |
| L2578440-1 | MW21-1 SS2 | | | | | | | | | |
| Sampled By: | CLIENT | on 15-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | |
| Fluorene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.12 | 62 | 69 | | |
| Indeno(1,2,3-cd)pyrene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.23 | 0.38 | 0.48 | | |
| 1+2-Methylnaphthalenes | <0.042 | | 0.042 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| 1-Methylnaphthalene | <0.030 | | 0.030 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| 2-Methylnaphthalene | <0.030 | | 0.030 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| Naphthalene | <0.013 | | 0.013 | ug/g | 26-APR-21 | 0.09 | 0.6 | 0.75 | | |
| Phenanthrene | <0.046 | | 0.046 | ug/g | 26-APR-21 | 0.69 | 6.2 | 7.8 | | |
| Pyrene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 1 | 78 | 78 | | |
| Surrogate: 2-Fluorobiphenyl | 89.8 | 50-140 | % | 26-APR-21 | | | | | | |
| Surrogate: d14-Terphenyl | 89.7 | 50-140 | % | 26-APR-21 | | | | | | |
| L2578440-2 | MW21-1 SS4 | | | | | | | | | |
| Sampled By: | CLIENT | on 15-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Physical Tests | | | | | | | | | | |
| % Moisture | 7.07 | 0.25 | % | 23-APR-21 | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | |
| Acetone | <0.50 | 0.50 | ug/g | 22-APR-21 | 0.5 | 16 | 28 | | | |
| Benzene | <0.0068 | 0.0068 | ug/g | 22-APR-21 | 0.02 | 0.21 | 0.17 | | | |
| Bromodichloromethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.5 | 1.9 | | | |
| Bromoform | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.27 | 0.26 | | | |
| Bromomethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | | |
| Carbon tetrachloride | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.12 | | | |
| Chlorobenzene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.4 | 2.7 | | | |
| Dibromochloromethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.3 | 2.9 | | | |
| Chloroform | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.18 | | | |
| 1,2-Dibromoethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | | |
| 1,2-Dichlorobenzene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.2 | 1.7 | | | |
| 1,3-Dichlorobenzene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 4.8 | 6 | | | |
| 1,4-Dichlorobenzene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.083 | 0.097 | | | |
| Dichlorodifluoromethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 16 | 25 | | | |
| 1,1-Dichloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.47 | 0.6 | | | |
| 1,2-Dichloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | | |
| 1,1-Dichloroethylene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | | |
| cis-1,2-Dichloroethylene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.9 | 2.5 | | | |
| trans-1,2-Dichloroethylene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.084 | 0.75 | | | |
| Methylene Chloride | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.1 | 0.96 | | | |
| 1,2-Dichloropropane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.085 | | | |
| cis-1,3-Dichloropropene | <0.030 | 0.030 | ug/g | 22-APR-21 | | | | | | |
| trans-1,3-Dichloropropene | <0.030 | 0.030 | ug/g | 22-APR-21 | | | | | | |
| 1,3-Dichloropropene (cis & trans) | <0.042 | 0.042 | ug/g | 26-APR-21 | 0.05 | 0.05 | 0.081 | | | |
| Ethylbenzene | <0.018 | 0.018 | ug/g | 22-APR-21 | 0.05 | 1.1 | 1.6 | | | |
| n-Hexane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.8 | 34 | | | |
| Methyl Ethyl Ketone | <0.50 | 0.50 | ug/g | 22-APR-21 | 0.5 | 16 | 44 | | | |
| Methyl Isobutyl Ketone | <0.50 | 0.50 | ug/g | 22-APR-21 | 0.5 | 1.7 | 4.3 | | | |
| MTBE | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.75 | 1.4 | | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

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26-MAY-21 13:05 (MT)

21-129-300

| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|-------------------------------------|-------------|--------------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | Analyte | | | | | | #1 | #2 | #3 |
| L2578440-2 | MW21-1 SS4 | | | | | | | | |
| Sampled By: | CLIENT | on 15-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | |
| Styrene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.7 | 2.2 | | |
| 1,1,1,2-Tetrachloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.058 | 0.05 | | |
| 1,1,2,2-Tetrachloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| Tetrachloroethylene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.28 | 2.3 | | |
| Toluene | <0.080 | 0.080 | ug/g | 22-APR-21 | 0.2 | 2.3 | 6 | | |
| 1,1,1-Trichloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.38 | 3.4 | | |
| 1,1,2-Trichloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| Trichloroethylene | <0.010 | 0.010 | ug/g | 22-APR-21 | 0.05 | 0.061 | 0.52 | | |
| Trichlorofluoromethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.25 | 4 | 5.8 | | |
| Vinyl chloride | <0.020 | 0.020 | ug/g | 22-APR-21 | 0.02 | 0.02 | 0.022 | | |
| o-Xylene | <0.020 | 0.020 | ug/g | 22-APR-21 | | | | | |
| m+p-Xylenes | <0.030 | 0.030 | ug/g | 22-APR-21 | | | | | |
| Xylenes (Total) | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.05 | 3.1 | 25 | | |
| Surrogate: 4-Bromofluorobenzene | 85.5 | 50-140 | % | 22-APR-21 | | | | | |
| Surrogate: 1,4-Difluorobenzene | 127.9 | 50-140 | % | 22-APR-21 | | | | | |
| Hydrocarbons | | | | | | | | | |
| F1 (C6-C10) | <5.0 | 5.0 | ug/g | 22-APR-21 | 25 | 55 | 65 | | |
| F1-BTEX | <5.0 | 5.0 | ug/g | 26-APR-21 | 25 | 55 | 65 | | |
| F2 (C10-C16) | <10 | 10 | ug/g | 23-APR-21 | 10 | 98 | 150 | | |
| F3 (C16-C34) | <50 | 50 | ug/g | 23-APR-21 | 240 | 300 | 1300 | | |
| F4 (C34-C50) | <50 | 50 | ug/g | 23-APR-21 | 120 | 2800 | 5600 | | |
| Total Hydrocarbons (C6-C50) | <72 | 72 | ug/g | 26-APR-21 | | | | | |
| Chrom. to baseline at nC50 | YES | | No Unit | 23-APR-21 | | | | | |
| Surrogate: 2-Bromobenzotrifluoride | 79.3 | 60-140 | % | 23-APR-21 | | | | | |
| Surrogate: 3,4-Dichlorotoluene | 95.7 | 60-140 | % | 22-APR-21 | | | | | |
| L2578440-3 | MW21-10 SS1 | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Physical Tests | | | | | | | | | |
| Conductivity | 0.222 | 0.0040 | mS/cm | 27-APR-21 | 0.57 | 0.7 | 0.7 | | |
| % Moisture | 14.4 | 0.25 | % | 23-APR-21 | | | | | |
| pH | 7.24 | 0.10 | pH units | 25-APR-21 | | | | | |
| Cyanides | | | | | | | | | |
| Cyanide, Weak Acid Diss | <0.050 | 0.050 | ug/g | 23-APR-21 | 0.051 | 0.051 | 0.051 | | |
| Saturated Paste Extractables | | | | | | | | | |
| SAR | <0.10 | 0.10 | SAR | 28-APR-21 | 2.4 | 5 | 5 | | |
| Calcium (Ca) | 44.7 | 0.50 | mg/L | 28-APR-21 | | | | | |
| Magnesium (Mg) | 2.19 | 0.50 | mg/L | 28-APR-21 | | | | | |
| Sodium (Na) | 1.30 | 0.50 | mg/L | 28-APR-21 | | | | | |
| Metals | | | | | | | | | |
| Antimony (Sb) | <1.0 | 1.0 | ug/g | 27-APR-21 | 1.3 | 7.5 | 7.5 | | |
| Arsenic (As) | 3.3 | 1.0 | ug/g | 27-APR-21 | 18 | 18 | 18 | | |
| Barium (Ba) | 36.9 | 1.0 | ug/g | 27-APR-21 | 220 | 390 | 390 | | |
| Beryllium (Be) | <0.50 | 0.50 | ug/g | 27-APR-21 | 2.5 | 4 | 5 | | |
| Boron (B) | <5.0 | 5.0 | ug/g | 27-APR-21 | 36 | 120 | 120 | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)



Environmental

ANALYTICAL GUIDELINE REPORT

L2578440 CONTD....

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21-129-300

| Sample Details | | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|---|-------------|--------------|--------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | | | | | | | | #1 | #2 | #3 |
| L2578440-3 | MW21-10 SS1 | | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Metals | | | | | | | | | | |
| Boron (B), Hot Water Ext. | 0.31 | | 0.10 | ug/g | 27-APR-21 | 36 | 1.5 | 1.5 | | |
| Cadmium (Cd) | <0.50 | | 0.50 | ug/g | 27-APR-21 | 1.2 | 1.2 | 1.2 | | |
| Chromium (Cr) | 13.7 | | 1.0 | ug/g | 27-APR-21 | 70 | 160 | 160 | | |
| Cobalt (Co) | 3.8 | | 1.0 | ug/g | 27-APR-21 | 21 | 22 | 22 | | |
| Copper (Cu) | 7.5 | | 1.0 | ug/g | 27-APR-21 | 92 | 140 | 180 | | |
| Lead (Pb) | 24.4 | | 1.0 | ug/g | 27-APR-21 | 120 | 120 | 120 | | |
| Mercury (Hg) | 0.898 | 0.0050 | | ug/g | 27-APR-21 | *0.27 | *0.27 | 1.8 | | |
| Molybdenum (Mo) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 2 | 6.9 | 6.9 | | |
| Nickel (Ni) | 6.8 | | 1.0 | ug/g | 27-APR-21 | 82 | 100 | 130 | | |
| Selenium (Se) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 1.5 | 2.4 | 2.4 | | |
| Silver (Ag) | <0.20 | | 0.20 | ug/g | 27-APR-21 | 0.5 | 20 | 25 | | |
| Thallium (Tl) | <0.50 | | 0.50 | ug/g | 27-APR-21 | 1 | 1 | 1 | | |
| Uranium (U) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 2.5 | 23 | 23 | | |
| Vanadium (V) | 33.3 | | 1.0 | ug/g | 27-APR-21 | 86 | 86 | 86 | | |
| Zinc (Zn) | 92.4 | | 5.0 | ug/g | 27-APR-21 | 290 | 340 | 340 | | |
| Speciated Metals | | | | | | | | | | |
| Chromium, Hexavalent | <0.20 | | 0.20 | ug/g | 26-APR-21 | 0.66 | 8 | 10 | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | |
| Acenaphthene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.072 | 7.9 | 29 | | |
| Acenaphthylene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.093 | 0.15 | 0.17 | | |
| Anthracene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.16 | 0.67 | 0.74 | | |
| Benzo(a)anthracene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.36 | 0.5 | 0.63 | | |
| Benzo(a)pyrene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.3 | 0.3 | 0.3 | | |
| Benzo(b&j)fluoranthene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.47 | 0.78 | 0.78 | | |
| Benzo(g,h,i)perylene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.68 | 6.6 | 7.8 | | |
| Benzo(k)fluoranthene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.48 | 0.78 | 0.78 | | |
| Chrysene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 2.8 | 7 | 7.8 | | |
| Dibenz(a,h)anthracene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.1 | 0.1 | 0.1 | | |
| Fluoranthene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.56 | 0.69 | 0.69 | | |
| Fluorene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.12 | 62 | 69 | | |
| Indeno(1,2,3-cd)pyrene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.23 | 0.38 | 0.48 | | |
| 1+2-Methylnaphthalenes | <0.042 | | 0.042 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| 1-Methylnaphthalene | <0.030 | | 0.030 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| 2-Methylnaphthalene | <0.030 | | 0.030 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| Naphthalene | <0.013 | | 0.013 | ug/g | 26-APR-21 | 0.09 | 0.6 | 0.75 | | |
| Phenanthrene | <0.046 | | 0.046 | ug/g | 26-APR-21 | 0.69 | 6.2 | 7.8 | | |
| Pyrene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 1 | 78 | 78 | | |
| Surrogate: 2-Fluorobiphenyl | 91.1 | 50-140 | % | | 26-APR-21 | | | | | |
| Surrogate: d14-Terphenyl | 93.4 | 50-140 | % | | 26-APR-21 | | | | | |
| L2578440-4 | MW21-10 SS3 | | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Physical Tests | | | | | | | | | | |
| % Moisture | 9.49 | | 0.25 | % | 23-APR-21 | | | | | |
| | | | | | | #1 | #2 | #3 | | |
| | | | | | | | | | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)



Environmental

ANALYTICAL GUIDELINE REPORT

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21-129-300

| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|-----------------------------------|-------------|--------------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | Analyte | | | | | | #1 | #2 | #3 |
| L2578440-4 | MW21-10 SS3 | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Metals | | | | | | | | | |
| Mercury (Hg) | 0.0184 | 0.0050 | ug/g | 26-MAY-21 | 0.27 | 0.27 | 1.8 | | |
| Volatile Organic Compounds | | | | | | | | | |
| Acetone | <0.50 | 0.50 | ug/g | 22-APR-21 | 0.5 | 16 | 28 | | |
| Benzene | <0.0068 | 0.0068 | ug/g | 22-APR-21 | 0.02 | 0.21 | 0.17 | | |
| Bromodichloromethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.5 | 1.9 | | |
| Bromoform | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.27 | 0.26 | | |
| Bromomethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| Carbon tetrachloride | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.12 | | |
| Chlorobenzene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.4 | 2.7 | | |
| Dibromochloromethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.3 | 2.9 | | |
| Chloroform | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.18 | | |
| 1,2-Dibromoethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| 1,2-Dichlorobenzene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.2 | 1.7 | | |
| 1,3-Dichlorobenzene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 4.8 | 6 | | |
| 1,4-Dichlorobenzene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.083 | 0.097 | | |
| Dichlorodifluoromethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 16 | 25 | | |
| 1,1-Dichloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.47 | 0.6 | | |
| 1,2-Dichloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| 1,1-Dichloroethylene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| cis-1,2-Dichloroethylene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.9 | 2.5 | | |
| trans-1,2-Dichloroethylene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.084 | 0.75 | | |
| Methylene Chloride | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.1 | 0.96 | | |
| 1,2-Dichloropropane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.085 | | |
| cis-1,3-Dichloropropene | <0.030 | 0.030 | ug/g | 22-APR-21 | | | | | |
| trans-1,3-Dichloropropene | <0.030 | 0.030 | ug/g | 22-APR-21 | | | | | |
| 1,3-Dichloropropene (cis & trans) | <0.042 | 0.042 | ug/g | 26-APR-21 | 0.05 | 0.05 | 0.081 | | |
| Ethylbenzene | <0.018 | 0.018 | ug/g | 22-APR-21 | 0.05 | 1.1 | 1.6 | | |
| n-Hexane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.8 | 34 | | |
| Methyl Ethyl Ketone | <0.50 | 0.50 | ug/g | 22-APR-21 | 0.5 | 16 | 44 | | |
| Methyl Isobutyl Ketone | <0.50 | 0.50 | ug/g | 22-APR-21 | 0.5 | 1.7 | 4.3 | | |
| MTBE | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.75 | 1.4 | | |
| Styrene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.7 | 2.2 | | |
| 1,1,1,2-Tetrachloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.058 | 0.05 | | |
| 1,1,2,2-Tetrachloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| Tetrachloroethylene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.28 | 2.3 | | |
| Toluene | <0.080 | 0.080 | ug/g | 22-APR-21 | 0.2 | 2.3 | 6 | | |
| 1,1,1-Trichloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.38 | 3.4 | | |
| 1,1,2-Trichloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| Trichloroethylene | <0.010 | 0.010 | ug/g | 22-APR-21 | 0.05 | 0.061 | 0.52 | | |
| Trichlorofluoromethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.25 | 4 | 5.8 | | |
| Vinyl chloride | <0.020 | 0.020 | ug/g | 22-APR-21 | 0.02 | 0.02 | 0.022 | | |
| o-Xylene | <0.020 | 0.020 | ug/g | 22-APR-21 | | | | | |
| m+p-Xylenes | <0.030 | 0.030 | ug/g | 22-APR-21 | | | | | |
| Xylenes (Total) | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.05 | 3.1 | 25 | | |
| Surrogate: 4-Bromofluorobenzene | 79.5 | 50-140 | % | 22-APR-21 | | | | | |
| Surrogate: 1,4-Difluorobenzene | 121.5 | 50-140 | % | 22-APR-21 | | | | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)



Environmental

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ANALYTICAL GUIDELINE REPORT

21-129-300

| Sample Details | | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|-------------------------------------|-------------|--------------|--------|-----------|-----------|-------|----------|------------------|-------|----|
| Grouping | | | | | | | | #1 | #2 | #3 |
| L2578440-4 | MW21-10 SS3 | | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Hydrocarbons | | | | | | | | | | |
| F1 (C6-C10) | <5.0 | | 5.0 | ug/g | 22-APR-21 | | 25 | 55 | 65 | |
| F1-BTEX | <5.0 | | 5.0 | ug/g | 26-APR-21 | | 25 | 55 | 65 | |
| F2 (C10-C16) | <10 | | 10 | ug/g | 23-APR-21 | | 10 | 98 | 150 | |
| F3 (C16-C34) | <50 | | 50 | ug/g | 23-APR-21 | | 240 | 300 | 1300 | |
| F4 (C34-C50) | <50 | | 50 | ug/g | 23-APR-21 | | 120 | 2800 | 5600 | |
| Total Hydrocarbons (C6-C50) | <72 | | 72 | ug/g | 26-APR-21 | | | | | |
| Chrom. to baseline at nC50 | YES | | | No Unit | 23-APR-21 | | | | | |
| Surrogate: 2-Bromobenzotrifluoride | 87.5 | | 60-140 | % | 23-APR-21 | | | | | |
| Surrogate: 3,4-Dichlorotoluene | 83.6 | | 60-140 | % | 22-APR-21 | | | | | |
| L2578440-5 | GS1 | | | | | | | | | |
| Sampled By: | CLIENT | on 15-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Physical Tests | | | | | | | | | | |
| Conductivity | 0.131 | | 0.0040 | mS/cm | 27-APR-21 | | 0.57 | 0.7 | 0.7 | |
| % Moisture | 11.8 | | 0.25 | % | 23-APR-21 | | | | | |
| pH | 6.99 | | 0.10 | pH units | 25-APR-21 | | | | | |
| Cyanides | | | | | | | | | | |
| Cyanide, Weak Acid Diss | <0.050 | | 0.050 | ug/g | 23-APR-21 | | 0.051 | 0.051 | 0.051 | |
| Saturated Paste Extractables | | | | | | | | | | |
| SAR | <0.10 | SAR:DL | 0.10 | SAR | 28-APR-21 | | 2.4 | 5 | 5 | |
| Calcium (Ca) | 26.3 | | 0.50 | mg/L | 28-APR-21 | | | | | |
| Magnesium (Mg) | 1.74 | | 0.50 | mg/L | 28-APR-21 | | | | | |
| Sodium (Na) | <0.50 | | 0.50 | mg/L | 28-APR-21 | | | | | |
| Metals | | | | | | | | | | |
| Antimony (Sb) | <1.0 | | 1.0 | ug/g | 27-APR-21 | | 1.3 | 7.5 | 7.5 | |
| Arsenic (As) | 5.3 | | 1.0 | ug/g | 27-APR-21 | | 18 | 18 | 18 | |
| Barium (Ba) | 61.1 | | 1.0 | ug/g | 27-APR-21 | | 220 | 390 | 390 | |
| Beryllium (Be) | <0.50 | | 0.50 | ug/g | 27-APR-21 | | 2.5 | 4 | 5 | |
| Boron (B) | 5.3 | | 5.0 | ug/g | 27-APR-21 | | 36 | 120 | 120 | |
| Boron (B), Hot Water Ext. | 0.55 | | 0.10 | ug/g | 27-APR-21 | | 36 | 1.5 | 1.5 | |
| Cadmium (Cd) | 1.19 | | 0.50 | ug/g | 27-APR-21 | | 1.2 | 1.2 | 1.2 | |
| Chromium (Cr) | 18.3 | | 1.0 | ug/g | 27-APR-21 | | 70 | 160 | 160 | |
| Cobalt (Co) | 4.5 | | 1.0 | ug/g | 27-APR-21 | | 21 | 22 | 22 | |
| Copper (Cu) | 17.2 | | 1.0 | ug/g | 27-APR-21 | | 92 | 140 | 180 | |
| Lead (Pb) | 161 | | 1.0 | ug/g | 27-APR-21 | *120 | *120 | *120 | | |
| Mercury (Hg) | 1.05 | DLHC | 0.050 | ug/g | 27-APR-21 | *0.27 | *0.27 | *0.27 | 1.8 | |
| Molybdenum (Mo) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 2 | 6.9 | 6.9 | | |
| Nickel (Ni) | 10.0 | | 1.0 | ug/g | 27-APR-21 | 82 | 100 | 130 | | |
| Selenium (Se) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 1.5 | 2.4 | 2.4 | | |
| Silver (Ag) | <0.20 | | 0.20 | ug/g | 27-APR-21 | 0.5 | 20 | 25 | | |
| Thallium (Tl) | <0.50 | | 0.50 | ug/g | 27-APR-21 | 1 | 1 | 1 | | |
| Uranium (U) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 2.5 | 23 | 23 | | |
| Vanadium (V) | 35.4 | | 1.0 | ug/g | 27-APR-21 | 86 | 86 | 86 | | |
| Zinc (Zn) | 270 | | 5.0 | ug/g | 27-APR-21 | 290 | 340 | 340 | | |
| Speciated Metals | | | | | | | | | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

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#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)



Environmental

ANALYTICAL GUIDELINE REPORT

L2578440 CONTD....

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21-129-300

| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|-----------------------------------|---------|--------------|-----------|------|-----------|----------|------------------|-------|----|
| Grouping | Analyte | | | | | | #1 | #2 | #3 |
| L2578440-5 | GS1 | | | | | | | | |
| Sampled By: | CLIENT | on 15-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Speciated Metals | | | | | | | | | |
| Chromium, Hexavalent | <0.20 | | 0.20 | ug/g | 26-APR-21 | 0.66 | 8 | 10 | |
| Volatile Organic Compounds | | | | | | | | | |
| Acetone | <0.50 | | 0.50 | ug/g | 22-APR-21 | 0.5 | 16 | 28 | |
| Benzene | <0.0068 | | 0.0068 | ug/g | 22-APR-21 | 0.02 | 0.21 | 0.17 | |
| Bromodichloromethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.5 | 1.9 | |
| Bromoform | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.27 | 0.26 | |
| Bromomethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | |
| Carbon tetrachloride | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.12 | |
| Chlorobenzene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.4 | 2.7 | |
| Dibromochloromethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.3 | 2.9 | |
| Chloroform | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.18 | |
| 1,2-Dibromoethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | |
| 1,2-Dichlorobenzene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.2 | 1.7 | |
| 1,3-Dichlorobenzene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 4.8 | 6 | |
| 1,4-Dichlorobenzene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.083 | 0.097 | |
| Dichlorodifluoromethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 16 | 25 | |
| 1,1-Dichloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.47 | 0.6 | |
| 1,2-Dichloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | |
| 1,1-Dichloroethylene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | |
| cis-1,2-Dichloroethylene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.9 | 2.5 | |
| trans-1,2-Dichloroethylene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.084 | 0.75 | |
| Methylene Chloride | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.1 | 0.96 | |
| 1,2-Dichloropropane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.085 | |
| cis-1,3-Dichloropropene | <0.030 | | 0.030 | ug/g | 22-APR-21 | | | | |
| trans-1,3-Dichloropropene | <0.030 | | 0.030 | ug/g | 22-APR-21 | | | | |
| 1,3-Dichloropropene (cis & trans) | <0.042 | | 0.042 | ug/g | 26-APR-21 | 0.05 | 0.05 | 0.081 | |
| Ethylbenzene | <0.018 | | 0.018 | ug/g | 22-APR-21 | 0.05 | 1.1 | 1.6 | |
| n-Hexane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.8 | 34 | |
| Methyl Ethyl Ketone | <0.50 | | 0.50 | ug/g | 22-APR-21 | 0.5 | 16 | 44 | |
| Methyl Isobutyl Ketone | <0.50 | | 0.50 | ug/g | 22-APR-21 | 0.5 | 1.7 | 4.3 | |
| MTBE | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.75 | 1.4 | |
| Styrene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.7 | 2.2 | |
| 1,1,1,2-Tetrachloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.058 | 0.05 | |
| 1,1,2,2-Tetrachloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | |
| Tetrachloroethylene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.28 | 2.3 | |
| Toluene | <0.080 | | 0.080 | ug/g | 22-APR-21 | 0.2 | 2.3 | 6 | |
| 1,1,1-Trichloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.38 | 3.4 | |
| 1,1,2-Trichloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | |
| Trichloroethylene | <0.010 | | 0.010 | ug/g | 22-APR-21 | 0.05 | 0.061 | 0.52 | |
| Trichlorofluoromethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.25 | 4 | 5.8 | |
| Vinyl chloride | <0.020 | | 0.020 | ug/g | 22-APR-21 | 0.02 | 0.02 | 0.022 | |
| o-Xylene | <0.020 | | 0.020 | ug/g | 22-APR-21 | | | | |
| m+p-Xylenes | <0.030 | | 0.030 | ug/g | 22-APR-21 | | | | |
| Xylenes (Total) | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.05 | 3.1 | 25 | |
| Surrogate: 4-Bromofluorobenzene | 82.0 | 50-140 | % | | 22-APR-21 | | | | |
| Surrogate: 1,4-Difluorobenzene | 127.2 | 50-140 | % | | 22-APR-21 | | | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)



Environmental

ANALYTICAL GUIDELINE REPORT

L2578440 CONTD....

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26-MAY-21 13:05 (MT)

21-129-300

| Sample Details | | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|---|--------|--------------|--------|-----------|-----------|---------|----------|------------------|-------|----|
| Grouping | | | | | | | | #1 | #2 | #3 |
| L2578440-5 | GS1 | | | | | | | | | |
| Sampled By: | CLIENT | on 15-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Hydrocarbons | | | | | | | | | | |
| F1 (C6-C10) | <5.0 | | 5.0 | ug/g | 27-APR-21 | | 25 | 55 | 65 | |
| F1-BTEX | <5.0 | | 5.0 | ug/g | 27-APR-21 | | 25 | 55 | 65 | |
| F2 (C10-C16) | 3930 | | 10 | ug/g | 23-APR-21 | | *10 | *98 | *150 | |
| F2-Naphth | 3930 | | 10 | ug/g | 27-APR-21 | | | | | |
| F3 (C16-C34) | 14200 | | 50 | ug/g | 23-APR-21 | | *240 | *300 | *1300 | |
| F3-PAH | 14100 | | 50 | ug/g | 27-APR-21 | | | | | |
| F4 (C34-C50) | 355 | | 50 | ug/g | 23-APR-21 | | *120 | 2800 | 5600 | |
| Total Hydrocarbons (C6-C50) | 18400 | | 72 | ug/g | 27-APR-21 | | | | | |
| Chrom. to baseline at nC50 | YES | | | No Unit | 23-APR-21 | | | | | |
| Surrogate: 2-Bromobenzotrifluoride | 76.8 | | 60-140 | % | 23-APR-21 | | | | | |
| Surrogate: 3,4-Dichlorotoluene | 42.9 | SURR-ND | 60-140 | % | 27-APR-21 | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | |
| Acenaphthene | <0.49 | DLM | 0.49 | ug/g | 26-APR-21 | **0.072 | 7.9 | 29 | | |
| Acenaphthylene | 0.097 | R | 0.050 | ug/g | 26-APR-21 | *0.093 | 0.15 | 0.17 | | |
| Anthracene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.16 | 0.67 | 0.74 | | |
| Benzo(a)anthracene | 0.115 | R | 0.050 | ug/g | 26-APR-21 | 0.36 | 0.5 | 0.63 | | |
| Benzo(a)pyrene | 0.182 | | 0.050 | ug/g | 26-APR-21 | 0.3 | 0.3 | 0.3 | | |
| Benzo(b&j)fluoranthene | 0.358 | | 0.050 | ug/g | 26-APR-21 | 0.47 | 0.78 | 0.78 | | |
| Benzo(g,h,i)perylene | 0.317 | | 0.050 | ug/g | 26-APR-21 | 0.68 | 6.6 | 7.8 | | |
| Benzo(k)fluoranthene | 0.101 | | 0.050 | ug/g | 26-APR-21 | 0.48 | 0.78 | 0.78 | | |
| Chrysene | 0.291 | | 0.050 | ug/g | 26-APR-21 | 2.8 | 7 | 7.8 | | |
| Dibenz(a,h)anthracene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.1 | 0.1 | 0.1 | | |
| Fluoranthene | 0.718 | | 0.050 | ug/g | 26-APR-21 | *0.56 | *0.69 | *0.69 | | |
| Fluorene | 0.366 | R | 0.050 | ug/g | 26-APR-21 | *0.12 | 62 | 69 | | |
| Indeno(1,2,3-cd)pyrene | 0.192 | | 0.050 | ug/g | 26-APR-21 | 0.23 | 0.38 | 0.48 | | |
| 1+2-Methylnaphthalenes | <0.41 | | 0.41 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| 1-Methylnaphthalene | <0.41 | DLQ | 0.41 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| 2-Methylnaphthalene | 0.063 | | 0.030 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| Naphthalene | 0.070 | R | 0.013 | ug/g | 26-APR-21 | 0.09 | 0.6 | 0.75 | | |
| Phenanthrene | 0.950 | | 0.046 | ug/g | 26-APR-21 | *0.69 | 6.2 | 7.8 | | |
| Pyrene | 1.25 | | 0.050 | ug/g | 26-APR-21 | *1 | 78 | 78 | | |
| Surrogate: 2-Fluorobiphenyl | 96.0 | | 50-140 | % | 26-APR-21 | | | | | |
| Surrogate: d14-Terphenyl | 75.7 | | 50-140 | % | 26-APR-21 | | | | | |
| L2578440-6 | GS2 | | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Physical Tests | | | | | | | | | | |
| Conductivity | 0.161 | | 0.0040 | mS/cm | 27-APR-21 | 0.57 | 0.7 | 0.7 | | |
| % Moisture | 14.1 | | 0.25 | % | 23-APR-21 | | | | | |
| pH | 7.18 | | 0.10 | pH units | 25-APR-21 | | | | | |
| Cyanides | | | | | | | | | | |
| Cyanide, Weak Acid Diss | <0.050 | | 0.050 | ug/g | 23-APR-21 | 0.051 | 0.051 | 0.051 | | |
| Saturated Paste Extractables | | | | | | | | | | |
| SAR | <0.10 | SAR:DL | 0.10 | SAR | 28-APR-21 | 2.4 | 5 | 5 | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)



Environmental

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ANALYTICAL GUIDELINE REPORT

21-129-300

| Sample Details | | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|-------------------------------------|---------|--------------|--------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | | | | | | | | #1 | #2 | #3 |
| L2578440-6 | GS2 | | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Saturated Paste Extractables | | | | | | | | | | |
| Calcium (Ca) | 29.0 | | 0.50 | mg/L | 28-APR-21 | | | | | |
| Magnesium (Mg) | 1.84 | | 0.50 | mg/L | 28-APR-21 | | | | | |
| Sodium (Na) | <0.50 | | 0.50 | mg/L | 28-APR-21 | | | | | |
| Metals | | | | | | | | | | |
| Antimony (Sb) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 1.3 | 7.5 | 7.5 | | |
| Arsenic (As) | 2.8 | | 1.0 | ug/g | 27-APR-21 | 18 | 18 | 18 | | |
| Barium (Ba) | 23.1 | | 1.0 | ug/g | 27-APR-21 | 220 | 390 | 390 | | |
| Beryllium (Be) | <0.50 | | 0.50 | ug/g | 27-APR-21 | 2.5 | 4 | 5 | | |
| Boron (B) | <5.0 | | 5.0 | ug/g | 27-APR-21 | 36 | 120 | 120 | | |
| Boron (B), Hot Water Ext. | 0.69 | | 0.10 | ug/g | 27-APR-21 | 36 | 1.5 | 1.5 | | |
| Cadmium (Cd) | 2.51 | | 0.50 | ug/g | 27-APR-21 | *1.2 | *1.2 | *1.2 | | |
| Chromium (Cr) | 9.1 | | 1.0 | ug/g | 27-APR-21 | 70 | 160 | 160 | | |
| Cobalt (Co) | 2.5 | | 1.0 | ug/g | 27-APR-21 | 21 | 22 | 22 | | |
| Copper (Cu) | 10.0 | | 1.0 | ug/g | 27-APR-21 | 92 | 140 | 180 | | |
| Lead (Pb) | 20.0 | | 1.0 | ug/g | 27-APR-21 | 120 | 120 | 120 | | |
| Mercury (Hg) | 1.22 | DLHC | 0.050 | ug/g | 27-APR-21 | *0.27 | *0.27 | 1.8 | | |
| Molybdenum (Mo) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 2 | 6.9 | 6.9 | | |
| Nickel (Ni) | 4.9 | | 1.0 | ug/g | 27-APR-21 | 82 | 100 | 130 | | |
| Selenium (Se) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 1.5 | 2.4 | 2.4 | | |
| Silver (Ag) | <0.20 | | 0.20 | ug/g | 27-APR-21 | 0.5 | 20 | 25 | | |
| Thallium (Tl) | <0.50 | | 0.50 | ug/g | 27-APR-21 | 1 | 1 | 1 | | |
| Uranium (U) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 2.5 | 23 | 23 | | |
| Vanadium (V) | 19.7 | | 1.0 | ug/g | 27-APR-21 | 86 | 86 | 86 | | |
| Zinc (Zn) | 79.6 | | 5.0 | ug/g | 27-APR-21 | 290 | 340 | 340 | | |
| Speciated Metals | | | | | | | | | | |
| Chromium, Hexavalent | <0.20 | | 0.20 | ug/g | 26-APR-21 | 0.66 | 8 | 10 | | |
| Volatile Organic Compounds | | | | | | | | | | |
| Acetone | <0.50 | | 0.50 | ug/g | 22-APR-21 | 0.5 | 16 | 28 | | |
| Benzene | <0.0068 | | 0.0068 | ug/g | 22-APR-21 | 0.02 | 0.21 | 0.17 | | |
| Bromodichloromethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.5 | 1.9 | | |
| Bromoform | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.27 | 0.26 | | |
| Bromomethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| Carbon tetrachloride | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.12 | | |
| Chlorobenzene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.4 | 2.7 | | |
| Dibromochloromethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.3 | 2.9 | | |
| Chloroform | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.18 | | |
| 1,2-Dibromoethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| 1,2-Dichlorobenzene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.2 | 1.7 | | |
| 1,3-Dichlorobenzene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 4.8 | 6 | | |
| 1,4-Dichlorobenzene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.083 | 0.097 | | |
| Dichlorodifluoromethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 16 | 25 | | |
| 1,1-Dichloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.47 | 0.6 | | |
| 1,2-Dichloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| 1,1-Dichloroethylene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| cis-1,2-Dichloroethylene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.9 | 2.5 | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

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21-129-300

| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|---|---------|--------------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | Analyte | | | | | | #1 | #2 | #3 |
| L2578440-6 | GS2 | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | |
| trans-1,2-Dichloroethylene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.084 | 0.75 | | |
| Methylene Chloride | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.1 | 0.96 | | |
| 1,2-Dichloropropane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.085 | | |
| cis-1,3-Dichloropropene | <0.030 | 0.030 | ug/g | 22-APR-21 | | | | | |
| trans-1,3-Dichloropropene | <0.030 | 0.030 | ug/g | 22-APR-21 | | | | | |
| 1,3-Dichloropropene (cis & trans) | <0.042 | 0.042 | ug/g | 26-APR-21 | 0.05 | 0.05 | 0.081 | | |
| Ethylbenzene | <0.018 | 0.018 | ug/g | 22-APR-21 | 0.05 | 1.1 | 1.6 | | |
| n-Hexane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.8 | 34 | | |
| Methyl Ethyl Ketone | <0.50 | 0.50 | ug/g | 22-APR-21 | 0.5 | 16 | 44 | | |
| Methyl Isobutyl Ketone | <0.50 | 0.50 | ug/g | 22-APR-21 | 0.5 | 1.7 | 4.3 | | |
| MTBE | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.75 | 1.4 | | |
| Styrene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.7 | 2.2 | | |
| 1,1,1,2-Tetrachloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.058 | 0.05 | | |
| 1,1,2,2-Tetrachloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| Tetrachloroethylene | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.28 | 2.3 | | |
| Toluene | <0.080 | 0.080 | ug/g | 22-APR-21 | 0.2 | 2.3 | 6 | | |
| 1,1,1-Trichloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.38 | 3.4 | | |
| 1,1,2-Trichloroethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | | |
| Trichloroethylene | <0.010 | 0.010 | ug/g | 22-APR-21 | 0.05 | 0.061 | 0.52 | | |
| Trichlorofluoromethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.25 | 4 | 5.8 | | |
| Vinyl chloride | <0.020 | 0.020 | ug/g | 22-APR-21 | 0.02 | 0.02 | 0.022 | | |
| o-Xylene | <0.020 | 0.020 | ug/g | 22-APR-21 | | | | | |
| m+p-Xylenes | <0.030 | 0.030 | ug/g | 22-APR-21 | | | | | |
| Xylenes (Total) | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.05 | 3.1 | 25 | | |
| Surrogate: 4-Bromofluorobenzene | 91.9 | 50-140 | % | 22-APR-21 | | | | | |
| Surrogate: 1,4-Difluorobenzene | 138.2 | 50-140 | % | 22-APR-21 | | | | | |
| Hydrocarbons | | | | | | | | | |
| F1 (C6-C10) | <5.0 | 5.0 | ug/g | 22-APR-21 | 25 | 55 | 65 | | |
| F1-BTEX | <5.0 | 5.0 | ug/g | 26-APR-21 | 25 | 55 | 65 | | |
| F2 (C10-C16) | <10 | 10 | ug/g | 23-APR-21 | 10 | 98 | 150 | | |
| F2-Naphth | <10 | 10 | ug/g | 26-APR-21 | | | | | |
| F3 (C16-C34) | 603 | 50 | ug/g | 23-APR-21 | *240 | *300 | 1300 | | |
| F3-PAH | 603 | 50 | ug/g | 26-APR-21 | | | | | |
| F4 (C34-C50) | 222 | 50 | ug/g | 23-APR-21 | *120 | 2800 | 5600 | | |
| F4G-SG (GHH-Silica) | 940 | 250 | ug/g | 23-APR-21 | *120 | 2800 | 5600 | | |
| Total Hydrocarbons (C6-C50) | 825 | 72 | ug/g | 26-APR-21 | | | | | |
| Chrom. to baseline at nC50 | NO | | No Unit | 23-APR-21 | | | | | |
| Surrogate: 2-Bromobenzotrifluoride | 92.8 | 60-140 | % | 23-APR-21 | | | | | |
| Surrogate: 3,4-Dichlorotoluene | 90.2 | 60-140 | % | 22-APR-21 | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | |
| Acenaphthene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.072 | 7.9 | 29 | | |
| Acenaphthylene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.093 | 0.15 | 0.17 | | |
| Anthracene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.16 | 0.67 | 0.74 | | |
| Benzo(a)anthracene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.36 | 0.5 | 0.63 | | |
| Benzo(a)pyrene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.3 | 0.3 | 0.3 | | |
| Benzo(b&j)fluoranthene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.47 | 0.78 | 0.78 | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)



Environmental

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ANALYTICAL GUIDELINE REPORT

21-129-300

| Sample Details | | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|---|--------|--------------|--------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | | | | | | | | #1 | #2 | #3 |
| L2578440-6 | GS2 | | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | |
| Benzo(g,h,i)perylene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.68 | 6.6 | 7.8 | | |
| Benzo(k)fluoranthene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.48 | 0.78 | 0.78 | | |
| Chrysene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 2.8 | 7 | 7.8 | | |
| Dibenz(a,h)anthracene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.1 | 0.1 | 0.1 | | |
| Fluoranthene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.56 | 0.69 | 0.69 | | |
| Fluorene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.12 | 62 | 69 | | |
| Indeno(1,2,3-cd)pyrene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.23 | 0.38 | 0.48 | | |
| 1+2-Methylnaphthalenes | <0.042 | | 0.042 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| 1-Methylnaphthalene | <0.030 | | 0.030 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| 2-Methylnaphthalene | <0.030 | | 0.030 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| Naphthalene | <0.013 | | 0.013 | ug/g | 26-APR-21 | 0.09 | 0.6 | 0.75 | | |
| Phenanthrene | <0.046 | | 0.046 | ug/g | 26-APR-21 | 0.69 | 6.2 | 7.8 | | |
| Pyrene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 1 | 78 | 78 | | |
| Surrogate: 2-Fluorobiphenyl | 93.4 | 50-140 | % | 26-APR-21 | | | | | | |
| Surrogate: d14-Terphenyl | 97.5 | 50-140 | % | 26-APR-21 | | | | | | |
| L2578440-7 | GS3 | | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Physical Tests | | | | | | | | | | |
| Conductivity | 0.272 | | 0.0040 | mS/cm | 27-APR-21 | 0.57 | 0.7 | 0.7 | | |
| % Moisture | 17.0 | | 0.25 | % | 23-APR-21 | | | | | |
| pH | 7.20 | | 0.10 | pH units | 25-APR-21 | | | | | |
| Cyanides | | | | | | | | | | |
| Cyanide, Weak Acid Diss | <0.050 | | 0.050 | ug/g | 23-APR-21 | 0.051 | 0.051 | 0.051 | | |
| Saturated Paste Extractables | | | | | | | | | | |
| SAR | <0.10 | | 0.10 | SAR | 28-APR-21 | 2.4 | 5 | 5 | | |
| Calcium (Ca) | 44.7 | | 0.50 | mg/L | 28-APR-21 | | | | | |
| Magnesium (Mg) | 3.36 | | 0.50 | mg/L | 28-APR-21 | | | | | |
| Sodium (Na) | 0.62 | | 0.50 | mg/L | 28-APR-21 | | | | | |
| Metals | | | | | | | | | | |
| Antimony (Sb) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 1.3 | 7.5 | 7.5 | | |
| Arsenic (As) | 3.3 | | 1.0 | ug/g | 27-APR-21 | 18 | 18 | 18 | | |
| Barium (Ba) | 43.8 | | 1.0 | ug/g | 27-APR-21 | 220 | 390 | 390 | | |
| Beryllium (Be) | <0.50 | | 0.50 | ug/g | 27-APR-21 | 2.5 | 4 | 5 | | |
| Boron (B) | <5.0 | | 5.0 | ug/g | 27-APR-21 | 36 | 120 | 120 | | |
| Boron (B), Hot Water Ext. | 0.55 | | 0.10 | ug/g | 27-APR-21 | 36 | 1.5 | 1.5 | | |
| Cadmium (Cd) | <0.50 | | 0.50 | ug/g | 27-APR-21 | 1.2 | 1.2 | 1.2 | | |
| Chromium (Cr) | 12.8 | | 1.0 | ug/g | 27-APR-21 | 70 | 160 | 160 | | |
| Cobalt (Co) | 4.2 | | 1.0 | ug/g | 27-APR-21 | 21 | 22 | 22 | | |
| Copper (Cu) | 8.5 | | 1.0 | ug/g | 27-APR-21 | 92 | 140 | 180 | | |
| Lead (Pb) | 33.0 | | 1.0 | ug/g | 27-APR-21 | 120 | 120 | 120 | | |
| Mercury (Hg) | 0.329 | 0.0050 | | ug/g | 27-APR-21 | *0.27 | *0.27 | 1.8 | | |
| Molybdenum (Mo) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 2 | 6.9 | 6.9 | | |
| Nickel (Ni) | 7.4 | | 1.0 | ug/g | 27-APR-21 | 82 | 100 | 130 | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)



Environmental

ANALYTICAL GUIDELINE REPORT

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21-129-300

| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|-----------------------------------|---------|--------------|-----------|------|-----------|----------|------------------|-------|----|
| Grouping | Analyte | | | | | | #1 | #2 | #3 |
| L2578440-7 | GS3 | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Metals | | | | | | | | | |
| Selenium (Se) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 1.5 | 2.4 | 2.4 | |
| Silver (Ag) | <0.20 | | 0.20 | ug/g | 27-APR-21 | 0.5 | 20 | 25 | |
| Thallium (Tl) | <0.50 | | 0.50 | ug/g | 27-APR-21 | 1 | 1 | 1 | |
| Uranium (U) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 2.5 | 23 | 23 | |
| Vanadium (V) | 30.6 | | 1.0 | ug/g | 27-APR-21 | 86 | 86 | 86 | |
| Zinc (Zn) | 101 | | 5.0 | ug/g | 27-APR-21 | 290 | 340 | 340 | |
| Speciated Metals | | | | | | | | | |
| Chromium, Hexavalent | <0.20 | | 0.20 | ug/g | 26-APR-21 | 0.66 | 8 | 10 | |
| Volatile Organic Compounds | | | | | | | | | |
| Acetone | <0.50 | | 0.50 | ug/g | 22-APR-21 | 0.5 | 16 | 28 | |
| Benzene | <0.0068 | | 0.0068 | ug/g | 22-APR-21 | 0.02 | 0.21 | 0.17 | |
| Bromodichloromethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.5 | 1.9 | |
| Bromoform | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.27 | 0.26 | |
| Bromomethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | |
| Carbon tetrachloride | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.12 | |
| Chlorobenzene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.4 | 2.7 | |
| Dibromochloromethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.3 | 2.9 | |
| Chloroform | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.18 | |
| 1,2-Dibromoethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | |
| 1,2-Dichlorobenzene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.2 | 1.7 | |
| 1,3-Dichlorobenzene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 4.8 | 6 | |
| 1,4-Dichlorobenzene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.083 | 0.097 | |
| Dichlorodifluoromethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 16 | 25 | |
| 1,1-Dichloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.47 | 0.6 | |
| 1,2-Dichloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | |
| 1,1-Dichloroethylene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | |
| cis-1,2-Dichloroethylene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 1.9 | 2.5 | |
| trans-1,2-Dichloroethylene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.084 | 0.75 | |
| Methylene Chloride | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.1 | 0.96 | |
| 1,2-Dichloropropane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.085 | |
| cis-1,3-Dichloropropene | <0.030 | | 0.030 | ug/g | 22-APR-21 | | | | |
| trans-1,3-Dichloropropene | <0.030 | | 0.030 | ug/g | 22-APR-21 | | | | |
| 1,3-Dichloropropene (cis & trans) | <0.042 | | 0.042 | ug/g | 26-APR-21 | 0.05 | 0.05 | 0.081 | |
| Ethylbenzene | <0.018 | | 0.018 | ug/g | 22-APR-21 | 0.05 | 1.1 | 1.6 | |
| n-Hexane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 2.8 | 34 | |
| Methyl Ethyl Ketone | <0.50 | | 0.50 | ug/g | 22-APR-21 | 0.5 | 16 | 44 | |
| Methyl Isobutyl Ketone | <0.50 | | 0.50 | ug/g | 22-APR-21 | 0.5 | 1.7 | 4.3 | |
| MTBE | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.75 | 1.4 | |
| Styrene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.7 | 2.2 | |
| 1,1,1,2-Tetrachloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.058 | 0.05 | |
| 1,1,2,2-Tetrachloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | |
| Tetrachloroethylene | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.28 | 2.3 | |
| Toluene | <0.080 | | 0.080 | ug/g | 22-APR-21 | 0.2 | 2.3 | 6 | |
| 1,1,1-Trichloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.38 | 3.4 | |
| 1,1,2-Trichloroethane | <0.050 | | 0.050 | ug/g | 22-APR-21 | 0.05 | 0.05 | 0.05 | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

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| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|---|---------|--------------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | Analyte | | | | | | #1 | #2 | #3 |
| L2578440-7 | GS3 | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | |
| Trichloroethylene | <0.010 | 0.010 | ug/g | 22-APR-21 | 0.05 | 0.061 | 0.52 | | |
| Trichlorofluoromethane | <0.050 | 0.050 | ug/g | 22-APR-21 | 0.25 | 4 | 5.8 | | |
| Vinyl chloride | <0.020 | 0.020 | ug/g | 22-APR-21 | 0.02 | 0.02 | 0.022 | | |
| o-Xylene | <0.020 | 0.020 | ug/g | 22-APR-21 | | | | | |
| m+p-Xylenes | <0.030 | 0.030 | ug/g | 22-APR-21 | | | | | |
| Xylenes (Total) | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.05 | 3.1 | 25 | | |
| Surrogate: 4-Bromofluorobenzene | 82.1 | 50-140 | % | 22-APR-21 | | | | | |
| Surrogate: 1,4-Difluorobenzene | 128.7 | 50-140 | % | 22-APR-21 | | | | | |
| Hydrocarbons | | | | | | | | | |
| F1 (C6-C10) | <5.0 | 5.0 | ug/g | 22-APR-21 | 25 | 55 | 65 | | |
| F1-BTEX | <5.0 | 5.0 | ug/g | 26-APR-21 | 25 | 55 | 65 | | |
| F2 (C10-C16) | <10 | 10 | ug/g | 23-APR-21 | 10 | 98 | 150 | | |
| F2-Naphth | <10 | 10 | ug/g | 26-APR-21 | | | | | |
| F3 (C16-C34) | <50 | 50 | ug/g | 23-APR-21 | 240 | 300 | 1300 | | |
| F3-PAH | <50 | 50 | ug/g | 26-APR-21 | | | | | |
| F4 (C34-C50) | <50 | 50 | ug/g | 23-APR-21 | 120 | 2800 | 5600 | | |
| Total Hydrocarbons (C6-C50) | <72 | 72 | ug/g | 26-APR-21 | | | | | |
| Chrom. to baseline at nC50 | YES | | No Unit | 23-APR-21 | | | | | |
| Surrogate: 2-Bromobenzotrifluoride | 81.0 | 60-140 | % | 23-APR-21 | | | | | |
| Surrogate: 3,4-Dichlorotoluene | 87.0 | 60-140 | % | 22-APR-21 | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | |
| Acenaphthene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.072 | 7.9 | 29 | | |
| Acenaphthylene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.093 | 0.15 | 0.17 | | |
| Anthracene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.16 | 0.67 | 0.74 | | |
| Benzo(a)anthracene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.36 | 0.5 | 0.63 | | |
| Benzo(a)pyrene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.3 | 0.3 | 0.3 | | |
| Benzo(b&j)fluoranthene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.47 | 0.78 | 0.78 | | |
| Benzo(g,h,i)perylene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.68 | 6.6 | 7.8 | | |
| Benzo(k)fluoranthene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.48 | 0.78 | 0.78 | | |
| Chrysene | <0.050 | 0.050 | ug/g | 26-APR-21 | 2.8 | 7 | 7.8 | | |
| Dibenz(a,h)anthracene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.1 | 0.1 | 0.1 | | |
| Fluoranthene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.56 | 0.69 | 0.69 | | |
| Fluorene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.12 | 62 | 69 | | |
| Indeno(1,2,3-cd)pyrene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.23 | 0.38 | 0.48 | | |
| 1+2-Methylnaphthalenes | <0.042 | 0.042 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| 1-Methylnaphthalene | <0.030 | 0.030 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| 2-Methylnaphthalene | <0.030 | 0.030 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| Naphthalene | <0.013 | 0.013 | ug/g | 26-APR-21 | 0.09 | 0.6 | 0.75 | | |
| Phenanthrene | <0.046 | 0.046 | ug/g | 26-APR-21 | 0.69 | 6.2 | 7.8 | | |
| Pyrene | <0.050 | 0.050 | ug/g | 26-APR-21 | 1 | 78 | 78 | | |
| Surrogate: 2-Fluorobiphenyl | 92.5 | 50-140 | % | 26-APR-21 | | | | | |
| Surrogate: d14-Terphenyl | 95.7 | 50-140 | % | 26-APR-21 | | | | | |
| L2578440-8 | DUP1 | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
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Environmental

L2578440 CONTD....

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ANALYTICAL GUIDELINE REPORT

21-129-300

| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|---|---------|--------------|-----------|-----------|-----------|----------|------------------|-----|----|
| Grouping | Analyte | | | | | | #1 | #2 | #3 |
| L2578440-8 | DUP1 | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Physical Tests | | | | | | | | | |
| Conductivity | 0.198 | 0.0040 | mS/cm | 27-APR-21 | 0.57 | 0.7 | 0.7 | | |
| % Moisture | 14.4 | 0.25 | % | 23-APR-21 | | | | | |
| pH | 7.08 | 0.10 | pH units | 25-APR-21 | | | | | |
| Cyanides | | | | | | | | | |
| Cyanide, Weak Acid Diss | <0.050 | 0.050 | ug/g | 23-APR-21 | 0.051 | 0.051 | 0.051 | | |
| Saturated Paste Extractables | | | | | | | | | |
| SAR | <0.10 | 0.10 | SAR | 28-APR-21 | 2.4 | 5 | 5 | | |
| Calcium (Ca) | 35.0 | 0.50 | mg/L | 28-APR-21 | | | | | |
| Magnesium (Mg) | 2.00 | 0.50 | mg/L | 28-APR-21 | | | | | |
| Sodium (Na) | 0.73 | 0.50 | mg/L | 28-APR-21 | | | | | |
| Metals | | | | | | | | | |
| Antimony (Sb) | <1.0 | 1.0 | ug/g | 27-APR-21 | 1.3 | 7.5 | 7.5 | | |
| Arsenic (As) | 2.5 | 1.0 | ug/g | 27-APR-21 | 18 | 18 | 18 | | |
| Barium (Ba) | 20.8 | 1.0 | ug/g | 27-APR-21 | 220 | 390 | 390 | | |
| Beryllium (Be) | <0.50 | 0.50 | ug/g | 27-APR-21 | 2.5 | 4 | 5 | | |
| Boron (B) | <5.0 | 5.0 | ug/g | 27-APR-21 | 36 | 120 | 120 | | |
| Boron (B), Hot Water Ext. | 0.60 | 0.10 | ug/g | 27-APR-21 | 36 | 1.5 | 1.5 | | |
| Cadmium (Cd) | 2.01 | 0.50 | ug/g | 27-APR-21 | *1.2 | *1.2 | *1.2 | | |
| Chromium (Cr) | 8.5 | 1.0 | ug/g | 27-APR-21 | 70 | 160 | 160 | | |
| Cobalt (Co) | 2.4 | 1.0 | ug/g | 27-APR-21 | 21 | 22 | 22 | | |
| Copper (Cu) | 9.0 | 1.0 | ug/g | 27-APR-21 | 92 | 140 | 180 | | |
| Lead (Pb) | 14.3 | 1.0 | ug/g | 27-APR-21 | 120 | 120 | 120 | | |
| Mercury (Hg) | 1.17 | DLHC | 0.050 | ug/g | 27-APR-21 | *0.27 | *0.27 | 1.8 | |
| Molybdenum (Mo) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 2 | 6.9 | 6.9 | |
| Nickel (Ni) | 4.7 | | 1.0 | ug/g | 27-APR-21 | 82 | 100 | 130 | |
| Selenium (Se) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 1.5 | 2.4 | 2.4 | |
| Silver (Ag) | <0.20 | | 0.20 | ug/g | 27-APR-21 | 0.5 | 20 | 25 | |
| Thallium (Tl) | <0.50 | | 0.50 | ug/g | 27-APR-21 | 1 | 1 | 1 | |
| Uranium (U) | <1.0 | | 1.0 | ug/g | 27-APR-21 | 2.5 | 23 | 23 | |
| Vanadium (V) | 18.5 | | 1.0 | ug/g | 27-APR-21 | 86 | 86 | 86 | |
| Zinc (Zn) | 63.7 | | 5.0 | ug/g | 27-APR-21 | 290 | 340 | 340 | |
| Speciated Metals | | | | | | | | | |
| Chromium, Hexavalent | <0.20 | 0.20 | ug/g | 26-APR-21 | 0.66 | 8 | 10 | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | |
| Acenaphthene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.072 | 7.9 | 29 | | |
| Acenaphthylene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.093 | 0.15 | 0.17 | | |
| Anthracene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.16 | 0.67 | 0.74 | | |
| Benzo(a)anthracene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.36 | 0.5 | 0.63 | | |
| Benzo(a)pyrene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.3 | 0.3 | 0.3 | | |
| Benzo(b&j)fluoranthene | 0.050 | 0.050 | ug/g | 26-APR-21 | 0.47 | 0.78 | 0.78 | | |
| Benzo(g,h,i)perylene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.68 | 6.6 | 7.8 | | |
| Benzo(k)fluoranthene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.48 | 0.78 | 0.78 | | |
| Chrysene | <0.050 | 0.050 | ug/g | 26-APR-21 | 2.8 | 7 | 7.8 | | |
| Dibenz(a,h)anthracene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.1 | 0.1 | 0.1 | | |
| Fluoranthene | <0.050 | 0.050 | ug/g | 26-APR-21 | 0.56 | 0.69 | 0.69 | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)



ANALYTICAL GUIDELINE REPORT

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| Sample Details | | | | | | | Guideline Limits | | | |
|---|---------|--------------|-----------|-----------|-----------|----------|------------------|------|----|--|
| Grouping | Analyte | Result | Qualifier | D.L. | Units | Analyzed | #1 | #2 | #3 | |
| L2578440-8 | DUP1 | | | | | | | | | |
| Sampled By: | CLIENT | on 19-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | |
| Fluorene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.12 | 62 | 69 | | |
| Indeno(1,2,3-cd)pyrene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 0.23 | 0.38 | 0.48 | | |
| 1+2-Methylnaphthalenes | <0.042 | | 0.042 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| 1-Methylnaphthalene | <0.030 | | 0.030 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| 2-Methylnaphthalene | <0.030 | | 0.030 | ug/g | 26-APR-21 | 0.59 | 0.99 | 3.4 | | |
| Naphthalene | <0.013 | | 0.013 | ug/g | 26-APR-21 | 0.09 | 0.6 | 0.75 | | |
| Phenanthrene | <0.046 | | 0.046 | ug/g | 26-APR-21 | 0.69 | 6.2 | 7.8 | | |
| Pyrene | <0.050 | | 0.050 | ug/g | 26-APR-21 | 1 | 78 | 78 | | |
| Surrogate: 2-Fluorobiphenyl | 92.6 | 50-140 | % | 26-APR-21 | | | | | | |
| Surrogate: d14-Terphenyl | 96.4 | 50-140 | % | 26-APR-21 | | | | | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)

Reference Information

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|--|
| SURR-ND | Surrogate recovery marginally exceeded ALS DQO. Reported non-detect results for associated samples were deemed to be unaffected. |
| R | The ion abundance ratio(s) did not meet the acceptance criteria. Value is an estimated maximum. |
| DLQ | Detection Limit raised due to co-eluting interference. GCMS qualifier ion ratio did not meet acceptance criteria. |
| SAR:DL | SAR is incalculable due to undetectable Na. Detection Limit represents maximum possible SAR value. |
| DLM | Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity). |
| DLHC | Detection Limit Raised: Dilution required due to high concentration of test analyte(s). |

Methods Listed (if applicable):

| 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).

| | | | |
|----------------|------|--|----------------------------|
| 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).

| | | | |
|-------|------|-------------------|------------|
| 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).

Reference Information

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

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).

F4G-ADD-511-WT Soil F4G SG-O.Reg 153/04 (July 2011) MOE DECPH-E3398/CCME TIER 1

F4G, gravimetric analysis, is determined if the chromatogram does not return to baseline at or before C50. A soil sample is extracted with a solvent mix, the solvent is evaporated and the weight of the residue is determined.

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).

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).

Reference Information

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 |
| 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).

| | | | |
|-------|------|----|-------------|
| 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.

Chain of Custody numbers:

17-820071

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

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-adjusted weight

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.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



Quality Control Report

Workorder: L2578440

Report Date: 26-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------------|-----------------|-------------|---------|-----------|-------|-----|--------|-----------|
| EC-WT | Soil | | | | | | | |
| Batch | R5442031 | | | | | | | |
| WG3524431-1 | MB | | | | | | | |
| Conductivity | | | <0.0040 | | mS/cm | | 0.004 | 27-APR-21 |
| F1-HS-511-WT | Soil | | | | | | | |
| Batch | R5437536 | | | | | | | |
| WG3521292-4 | DUP | WG3521292-3 | | | | | | |
| F1 (C6-C10) | | <5.0 | <5.0 | RPD-NA | ug/g | N/A | 30 | 22-APR-21 |
| WG3521292-2 | LCS | | | | % | | 80-120 | 22-APR-21 |
| F1 (C6-C10) | | | 104.3 | | | | | |
| WG3521292-1 | MB | | | | | | | |
| F1 (C6-C10) | | <5.0 | | | ug/g | | 5 | 22-APR-21 |
| Surrogate: 3,4-Dichlorotoluene | | | 97.0 | | % | | 60-140 | 22-APR-21 |
| WG3521292-5 | MS | WG3521292-3 | | | | | | |
| F1 (C6-C10) | | | 98.9 | | % | | 60-140 | 22-APR-21 |
| F2-F4-511-WT | Soil | | | | | | | |
| Batch | R5440277 | | | | | | | |
| WG3522057-3 | DUP | WG3522057-5 | | | | | | |
| F2 (C10-C16) | | <10 | <10 | RPD-NA | ug/g | N/A | 30 | 23-APR-21 |
| F3 (C16-C34) | | <50 | <50 | RPD-NA | ug/g | N/A | 30 | 23-APR-21 |
| F4 (C34-C50) | | <50 | <50 | RPD-NA | ug/g | N/A | 30 | 23-APR-21 |
| WG3522057-2 | LCS | | | | % | | 80-120 | 23-APR-21 |
| F2 (C10-C16) | | | 95.0 | | | | | |
| F3 (C16-C34) | | | 97.1 | | % | | 80-120 | 23-APR-21 |
| F4 (C34-C50) | | | 101.2 | | % | | 80-120 | 23-APR-21 |
| WG3522057-1 | MB | | | | | | | |
| F2 (C10-C16) | | <10 | | | ug/g | | 10 | 23-APR-21 |
| F3 (C16-C34) | | <50 | | | ug/g | | 50 | 23-APR-21 |
| F4 (C34-C50) | | <50 | | | ug/g | | 50 | 23-APR-21 |
| Surrogate: 2-Bromobenzotrifluoride | | | 82.3 | | % | | 60-140 | 23-APR-21 |
| WG3522057-4 | MS | WG3522057-5 | | | | | | |
| F2 (C10-C16) | | | 96.8 | | % | | 60-140 | 23-APR-21 |
| F3 (C16-C34) | | | 97.9 | | % | | 60-140 | 23-APR-21 |
| F4 (C34-C50) | | | 102.4 | | % | | 60-140 | 23-APR-21 |
| F4G-ADD-511-WT | Soil | | | | | | | |

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------|--------|-------------|---------|-----------|--------|------|----------|-----------|
| F4G-ADD-511-WT | Soil | | | | | | | |
| Batch R5440988 | | | | | | | | |
| WG3523837-2 LCS | | | | | | | | |
| F4G-SG (GHH-Silica) | | | 72.6 | | % | | 60-140 | 23-APR-21 |
| WG3523837-1 MB | | | | | | | | |
| F4G-SG (GHH-Silica) | | | <250 | | ug/g | | 250 | 23-APR-21 |
| HG-200.2-CVAA-WT | Soil | | | | | | | |
| Batch R5441626 | | | | | | | | |
| WG3524430-2 CRM | | WT-SS-2 | | | | | | |
| Mercury (Hg) | | | 99.8 | | % | | 70-130 | 27-APR-21 |
| WG3524430-6 DUP | | WG3524430-5 | | | | | | |
| Mercury (Hg) | | | <0.0050 | <0.0050 | RPD-NA | ug/g | N/A | 40 |
| WG3524430-3 LCS | | | | | | | | |
| Mercury (Hg) | | | 110.0 | | % | | 80-120 | 27-APR-21 |
| WG3524430-1 MB | | | | | | | | |
| Mercury (Hg) | | | <0.0050 | | mg/kg | | 0.005 | 27-APR-21 |
| Batch R5468157 | | | | | | | | |
| WG3541077-2 CRM | | WT-SS-2 | | | | | | |
| Mercury (Hg) | | | 106.8 | | % | | 70-130 | 26-MAY-21 |
| WG3541077-6 DUP | | WG3541077-5 | | | | | | |
| Mercury (Hg) | | | 0.0066 | 0.0065 | | ug/g | 0.9 | 40 |
| WG3541077-3 LCS | | | | | | | | |
| Mercury (Hg) | | | 97.0 | | % | | 80-120 | 26-MAY-21 |
| WG3541077-1 MB | | | | | | | | |
| Mercury (Hg) | | | <0.0050 | | mg/kg | | 0.005 | 26-MAY-21 |
| MET-200.2-CCMS-WT | Soil | | | | | | | |
| Batch R5442229 | | | | | | | | |
| WG3524430-2 CRM | | WT-SS-2 | | | | | | |
| Antimony (Sb) | | | 97.7 | | % | | 70-130 | 27-APR-21 |
| Arsenic (As) | | | 105.9 | | % | | 70-130 | 27-APR-21 |
| Barium (Ba) | | | 108.3 | | % | | 70-130 | 27-APR-21 |
| Beryllium (Be) | | | 98.0 | | % | | 70-130 | 27-APR-21 |
| Boron (B) | | | 9.8 | | mg/kg | | 3.5-13.5 | 27-APR-21 |
| Cadmium (Cd) | | | 111.1 | | % | | 70-130 | 27-APR-21 |
| Chromium (Cr) | | | 100.9 | | % | | 70-130 | 27-APR-21 |
| Cobalt (Co) | | | 101.7 | | % | | 70-130 | 27-APR-21 |
| Copper (Cu) | | | 95.9 | | % | | 70-130 | 27-APR-21 |
| Lead (Pb) | | | 103.7 | | % | | 70-130 | 27-APR-21 |

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed | |
|-------------------|----------|-------------|--------|-----------|--------|------|-------------|-----------|-----------|
| MET-200.2-CCMS-WT | Soil | | | | | | | | |
| Batch | R5442229 | | | | | | | | |
| WG3524430-2 | CRM | WT-SS-2 | | | | | | | |
| Molybdenum (Mo) | | | 127.1 | | % | | 70-130 | 27-APR-21 | |
| Nickel (Ni) | | | 100.3 | | % | | 70-130 | 27-APR-21 | |
| Selenium (Se) | | | 0.14 | | mg/kg | | 0-0.34 | 27-APR-21 | |
| Silver (Ag) | | | 96.7 | | % | | 70-130 | 27-APR-21 | |
| Thallium (Tl) | | | 0.081 | | mg/kg | | 0.029-0.129 | 27-APR-21 | |
| Uranium (U) | | | 105.8 | | % | | 70-130 | 27-APR-21 | |
| Vanadium (V) | | | 105.5 | | % | | 70-130 | 27-APR-21 | |
| Zinc (Zn) | | | 97.0 | | % | | 70-130 | 27-APR-21 | |
| WG3524430-6 | DUP | WG3524430-5 | | | | | | | |
| Antimony (Sb) | | | 0.25 | 0.23 | ug/g | 11 | 30 | 27-APR-21 | |
| Arsenic (As) | | | 4.74 | 4.25 | ug/g | 11 | 30 | 27-APR-21 | |
| Barium (Ba) | | | 59.7 | 52.8 | ug/g | 12 | 40 | 27-APR-21 | |
| Beryllium (Be) | | | 0.63 | 0.53 | ug/g | 16 | 30 | 27-APR-21 | |
| Boron (B) | | | 17.5 | 14.0 | ug/g | 22 | 30 | 27-APR-21 | |
| Cadmium (Cd) | | | 0.069 | 0.066 | ug/g | 4.6 | 30 | 27-APR-21 | |
| Chromium (Cr) | | | 19.0 | 15.9 | ug/g | 18 | 30 | 27-APR-21 | |
| Cobalt (Co) | | | 9.38 | 8.12 | ug/g | 14 | 30 | 27-APR-21 | |
| Copper (Cu) | | | 10.8 | 9.33 | ug/g | 15 | 30 | 27-APR-21 | |
| Lead (Pb) | | | 8.61 | 7.39 | ug/g | 15 | 40 | 27-APR-21 | |
| Molybdenum (Mo) | | | 0.69 | 0.63 | ug/g | 8.5 | 40 | 27-APR-21 | |
| Nickel (Ni) | | | 20.1 | 17.8 | ug/g | 12 | 30 | 27-APR-21 | |
| Selenium (Se) | | | <0.20 | <0.20 | RPD-NA | ug/g | N/A | 30 | 27-APR-21 |
| Silver (Ag) | | | <0.10 | <0.10 | RPD-NA | ug/g | N/A | 40 | 27-APR-21 |
| Thallium (Tl) | | | 0.089 | 0.074 | ug/g | 19 | 30 | 27-APR-21 | |
| Uranium (U) | | | 0.549 | 0.454 | ug/g | 19 | 30 | 27-APR-21 | |
| Vanadium (V) | | | 30.7 | 25.9 | ug/g | 17 | 30 | 27-APR-21 | |
| Zinc (Zn) | | | 44.9 | 38.9 | ug/g | 14 | 30 | 27-APR-21 | |
| WG3524430-4 | LCS | | | | | | | | |
| Antimony (Sb) | | | 104.7 | | % | | 80-120 | 27-APR-21 | |
| Arsenic (As) | | | 101.1 | | % | | 80-120 | 27-APR-21 | |
| Barium (Ba) | | | 98.6 | | % | | 80-120 | 27-APR-21 | |
| Beryllium (Be) | | | 91.4 | | % | | 80-120 | 27-APR-21 | |
| Boron (B) | | | 90.5 | | % | | 80-120 | 27-APR-21 | |

COMMENTS: RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data is not affect by this issue

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---|----------|-----------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-CCMS-WT | Soil | | | | | | | |
| Batch | R5442229 | | | | | | | |
| WG3524430-4 | LCS | | | | | | | |
| Cadmium (Cd) | | | 99.6 | | % | | 80-120 | 27-APR-21 |
| Chromium (Cr) | | | 96.2 | | % | | 80-120 | 27-APR-21 |
| Cobalt (Co) | | | 96.8 | | % | | 80-120 | 27-APR-21 |
| Copper (Cu) | | | 97.3 | | % | | 80-120 | 27-APR-21 |
| Lead (Pb) | | | 104.3 | | % | | 80-120 | 27-APR-21 |
| Molybdenum (Mo) | | | 101.4 | | % | | 80-120 | 27-APR-21 |
| Nickel (Ni) | | | 95.6 | | % | | 80-120 | 27-APR-21 |
| Selenium (Se) | | | 102.4 | | % | | 80-120 | 27-APR-21 |
| Silver (Ag) | | | 40.6 | RRQC | % | | 80-120 | 27-APR-21 |
| Thallium (Tl) | | | 104.4 | | % | | 80-120 | 27-APR-21 |
| Uranium (U) | | | 101.9 | | % | | 80-120 | 27-APR-21 |
| Vanadium (V) | | | 102.2 | | % | | 80-120 | 27-APR-21 |
| Zinc (Zn) | | | 96.7 | | % | | 80-120 | 27-APR-21 |
| COMMENTS: RRQC: Silver recovery outside of ALS DQOs due to issue with standard. Reported data is not affected by this issue | | | | | | | | |
| WG3524430-1 | MB | | | | | | | |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 27-APR-21 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 27-APR-21 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 27-APR-21 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 27-APR-21 |
| Boron (B) | | | <5.0 | | mg/kg | | 5 | 27-APR-21 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 27-APR-21 |
| Chromium (Cr) | | | <0.50 | | mg/kg | | 0.5 | 27-APR-21 |
| Cobalt (Co) | | | <0.10 | | mg/kg | | 0.1 | 27-APR-21 |
| Copper (Cu) | | | <0.50 | | mg/kg | | 0.5 | 27-APR-21 |
| Lead (Pb) | | | <0.50 | | mg/kg | | 0.5 | 27-APR-21 |
| Molybdenum (Mo) | | | <0.10 | | mg/kg | | 0.1 | 27-APR-21 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 27-APR-21 |
| Selenium (Se) | | | <0.20 | | mg/kg | | 0.2 | 27-APR-21 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 27-APR-21 |
| Thallium (Tl) | | | <0.050 | | mg/kg | | 0.05 | 27-APR-21 |
| Uranium (U) | | | <0.050 | | mg/kg | | 0.05 | 27-APR-21 |
| Vanadium (V) | | | <0.20 | | mg/kg | | 0.2 | 27-APR-21 |
| Zinc (Zn) | | | <2.0 | | mg/kg | | 2 | 27-APR-21 |
| MOISTURE-WT | Soil | | | | | | | |

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------------|----------|-------------|--------|-----------|-------|-----|--------|-----------|
| MOISTURE-WT Soil | | | | | | | | |
| Batch | R5439441 | | | | | | | |
| WG3522058-3 | DUP | L2578036-6 | | | | | | |
| % Moisture | | 8.25 | 8.57 | | % | 3.8 | 20 | 23-APR-21 |
| WG3522058-2 | LCS | | | | | | | |
| % Moisture | | | 100.8 | | % | | 90-110 | 23-APR-21 |
| WG3522058-1 | MB | | | | | | | |
| % Moisture | | | <0.25 | | % | | 0.25 | 23-APR-21 |
| Batch | R5439442 | | | | | | | |
| WG3522059-3 | DUP | L2578440-2 | | | | | | |
| % Moisture | | 7.07 | 7.08 | | % | 0.2 | 20 | 23-APR-21 |
| WG3522059-2 | LCS | | | | | | | |
| % Moisture | | | 99.3 | | % | | 90-110 | 23-APR-21 |
| WG3522059-1 | MB | | | | | | | |
| % Moisture | | | <0.25 | | % | | 0.25 | 23-APR-21 |
| PAH-511-WT Soil | | | | | | | | |
| Batch | R5441472 | | | | | | | |
| WG3522436-3 | DUP | WG3522436-5 | | | | | | |
| 1-Methylnaphthalene | | <0.030 | <0.030 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| 2-Methylnaphthalene | | <0.030 | <0.030 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Acenaphthene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Acenaphthylene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Anthracene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Benzo(a)anthracene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Benzo(a)pyrene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Benzo(b&i;)fluoranthene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Benzo(g,h,i)perylene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Benzo(k)fluoranthene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Chrysene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Dibenz(a,h)anthracene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Fluoranthene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Fluorene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Indeno(1,2,3-cd)pyrene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Naphthalene | | <0.013 | <0.013 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Phenanthrene | | <0.046 | <0.046 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| Pyrene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 26-APR-21 |
| WG3522436-2 | LCS | | | | | | | |

Quality Control Report

Workorder: L2578440

Report Date: 26-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|-----------|--------|-----------|-------|-----|--------|-----------|
| PAH-511-WT | Soil | | | | | | | |
| Batch | R5441472 | | | | | | | |
| WG3522436-2 | LCS | | | | | | | |
| 1-Methylnaphthalene | | | 90.8 | | % | | 50-140 | 26-APR-21 |
| 2-Methylnaphthalene | | | 88.1 | | % | | 50-140 | 26-APR-21 |
| Acenaphthene | | | 88.4 | | % | | 50-140 | 26-APR-21 |
| Acenaphthylene | | | 87.8 | | % | | 50-140 | 26-APR-21 |
| Anthracene | | | 79.5 | | % | | 50-140 | 26-APR-21 |
| Benzo(a)anthracene | | | 96.5 | | % | | 50-140 | 26-APR-21 |
| Benzo(a)pyrene | | | 78.3 | | % | | 50-140 | 26-APR-21 |
| Benzo(b&j)fluoranthene | | | 86.4 | | % | | 50-140 | 26-APR-21 |
| Benzo(g,h,i)perylene | | | 87.5 | | % | | 50-140 | 26-APR-21 |
| Benzo(k)fluoranthene | | | 82.1 | | % | | 50-140 | 26-APR-21 |
| Chrysene | | | 86.6 | | % | | 50-140 | 26-APR-21 |
| Dibenz(a,h)anthracene | | | 86.7 | | % | | 50-140 | 26-APR-21 |
| Fluoranthene | | | 88.1 | | % | | 50-140 | 26-APR-21 |
| Fluorene | | | 88.7 | | % | | 50-140 | 26-APR-21 |
| Indeno(1,2,3-cd)pyrene | | | 93.4 | | % | | 50-140 | 26-APR-21 |
| Naphthalene | | | 84.3 | | % | | 50-140 | 26-APR-21 |
| Phenanthrene | | | 87.0 | | % | | 50-140 | 26-APR-21 |
| Pyrene | | | 87.2 | | % | | 50-140 | 26-APR-21 |
| WG3522436-1 | MB | | | | | | | |
| 1-Methylnaphthalene | | | <0.030 | | ug/g | | 0.03 | 26-APR-21 |
| 2-Methylnaphthalene | | | <0.030 | | ug/g | | 0.03 | 26-APR-21 |
| Acenaphthene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |
| Acenaphthylene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |
| Anthracene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |
| Benzo(a)anthracene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |
| Benzo(a)pyrene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |
| Benzo(b&j)fluoranthene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |
| Benzo(g,h,i)perylene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |
| Benzo(k)fluoranthene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |
| Chrysene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |
| Dibenz(a,h)anthracene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |
| Fluoranthene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |
| Fluorene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |
| Indeno(1,2,3-cd)pyrene | | | <0.050 | | ug/g | | 0.05 | 26-APR-21 |

Quality Control Report

Workorder: L2578440

Report Date: 26-MAY-21

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| SAR-R511-WT | Soil | | | | | | | |
| Batch | R5442489 | | | | | | | |
| WG3524431-4 | DUP | WG3524431-3 | | | | | | |
| Calcium (Ca) | | 45.4 | 44.7 | | mg/L | 1.6 | 30 | 28-APR-21 |
| Sodium (Na) | | 16.3 | 16.3 | | mg/L | 0.0 | 30 | 28-APR-21 |
| Magnesium (Mg) | | 1.77 | 1.80 | | mg/L | 1.7 | 30 | 28-APR-21 |
| WG3524431-2 | IRM | WT SAR4 | | | | | | |
| Calcium (Ca) | | | 94.4 | | % | | 70-130 | 28-APR-21 |
| Sodium (Na) | | | 89.3 | | % | | 70-130 | 28-APR-21 |
| Magnesium (Mg) | | | 94.0 | | % | | 70-130 | 28-APR-21 |
| WG3524431-5 | LCS | | | | | | | |
| Calcium (Ca) | | | 106.3 | | % | | 80-120 | 28-APR-21 |
| Sodium (Na) | | | 100.8 | | % | | 80-120 | 28-APR-21 |
| Magnesium (Mg) | | | 101.8 | | % | | 80-120 | 28-APR-21 |
| WG3524431-1 | MB | | | | | | | |
| Calcium (Ca) | | | <0.50 | | mg/L | | 0.5 | 28-APR-21 |
| Sodium (Na) | | | <0.50 | | mg/L | | 0.5 | 28-APR-21 |
| Magnesium (Mg) | | | <0.50 | | mg/L | | 0.5 | 28-APR-21 |
| VOC-511-HS-WT | Soil | | | | | | | |
| Batch | R5437536 | | | | | | | |
| WG3521292-4 | DUP | WG3521292-3 | | | | | | |
| 1,1,1,2-Tetrachloroethane | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| 1,1,2,2-Tetrachloroethane | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| 1,1,1-Trichloroethane | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| 1,1,2-Trichloroethane | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| 1,1-Dichloroethane | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| 1,1-Dichloroethylene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| 1,2-Dibromoethane | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| 1,2-Dichlorobenzene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| 1,2-Dichloroethane | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| 1,2-Dichloropropane | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| 1,3-Dichlorobenzene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| 1,4-Dichlorobenzene | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| Acetone | | <0.50 | <0.50 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| Benzene | | <0.0068 | <0.0068 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| Bromodichloromethane | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |
| Bromoform | | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 |

Quality Control Report

Workorder: L2578440

Report Date: 26-MAY-21

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-------------|--------|-----------|--------|-----------|-----------|----------|
| VOC-511-HS-WT | Soil | | | | | | | |
| Batch | R5437536 | | | | | | | |
| WG3521292-4 | DUP | WG3521292-3 | | | | | | |
| Bromomethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Carbon tetrachloride | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Chlorobenzene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Chloroform | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| cis-1,2-Dichloroethylene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| cis-1,3-Dichloropropene | <0.030 | <0.030 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Dibromochloromethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Dichlorodifluoromethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Ethylbenzene | <0.018 | <0.018 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| n-Hexane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Methylene Chloride | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| MTBE | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| m+p-Xylenes | <0.030 | <0.030 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Methyl Ethyl Ketone | <0.50 | <0.50 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Methyl Isobutyl Ketone | <0.50 | <0.50 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| o-Xylene | <0.020 | <0.020 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Styrene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Tetrachloroethylene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Toluene | <0.080 | <0.080 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| trans-1,2-Dichloroethylene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| trans-1,3-Dichloropropene | <0.030 | <0.030 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Trichloroethylene | <0.010 | <0.010 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Trichlorofluoromethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| Vinyl chloride | <0.020 | <0.020 | RPD-NA | ug/g | N/A | 40 | 22-APR-21 | |
| WG3521292-2 | LCS | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 103.1 | | % | | 60-130 | 22-APR-21 | | |
| 1,1,2,2-Tetrachloroethane | 97.0 | | % | | 60-130 | 22-APR-21 | | |
| 1,1,1-Trichloroethane | 112.4 | | % | | 60-130 | 22-APR-21 | | |
| 1,1,2-Trichloroethane | 97.0 | | % | | 60-130 | 22-APR-21 | | |
| 1,1-Dichloroethane | 89.1 | | % | | 60-130 | 22-APR-21 | | |
| 1,1-Dichloroethylene | 121.0 | | % | | 60-130 | 22-APR-21 | | |
| 1,2-Dibromoethane | 97.5 | | % | | 70-130 | 22-APR-21 | | |
| 1,2-Dichlorobenzene | 113.1 | | % | | 70-130 | 22-APR-21 | | |

Quality Control Report

Workorder: L2578440

Report Date: 26-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-----------|--------|-----------|-------|--------|-----------|----------|
| VOC-511-HS-WT | Soil | | | | | | | |
| Batch | R5437536 | | | | | | | |
| WG3521292-2 | LCS | | | | | | | |
| 1,2-Dichloroethane | | | 115.0 | | % | 60-130 | 22-APR-21 | |
| 1,2-Dichloropropane | | | 119.3 | | % | 70-130 | 22-APR-21 | |
| 1,3-Dichlorobenzene | | | 115.7 | | % | 70-130 | 22-APR-21 | |
| 1,4-Dichlorobenzene | | | 114.7 | | % | 70-130 | 22-APR-21 | |
| Acetone | | | 121.0 | | % | 60-140 | 22-APR-21 | |
| Benzene | | | 116.7 | | % | 70-130 | 22-APR-21 | |
| Bromodichloromethane | | | 123.7 | | % | 50-140 | 22-APR-21 | |
| Bromoform | | | 99.2 | | % | 70-130 | 22-APR-21 | |
| Bromomethane | | | 96.6 | | % | 50-140 | 22-APR-21 | |
| Carbon tetrachloride | | | 123.8 | | % | 70-130 | 22-APR-21 | |
| Chlorobenzene | | | 106.8 | | % | 70-130 | 22-APR-21 | |
| Chloroform | | | 121.2 | | % | 70-130 | 22-APR-21 | |
| cis-1,2-Dichloroethylene | | | 114.7 | | % | 70-130 | 22-APR-21 | |
| cis-1,3-Dichloropropene | | | 119.0 | | % | 70-130 | 22-APR-21 | |
| Dibromochloromethane | | | 97.6 | | % | 60-130 | 22-APR-21 | |
| Dichlorodifluoromethane | | | 64.2 | | % | 50-140 | 22-APR-21 | |
| Ethylbenzene | | | 103.6 | | % | 70-130 | 22-APR-21 | |
| n-Hexane | | | 116.1 | | % | 70-130 | 22-APR-21 | |
| Methylene Chloride | | | 120.3 | | % | 70-130 | 22-APR-21 | |
| MTBE | | | 110.0 | | % | 70-130 | 22-APR-21 | |
| m+p-Xylenes | | | 109.0 | | % | 70-130 | 22-APR-21 | |
| Methyl Ethyl Ketone | | | 101.2 | | % | 60-140 | 22-APR-21 | |
| Methyl Isobutyl Ketone | | | 109.4 | | % | 60-140 | 22-APR-21 | |
| o-Xylene | | | 108.0 | | % | 70-130 | 22-APR-21 | |
| Styrene | | | 104.1 | | % | 70-130 | 22-APR-21 | |
| Tetrachloroethylene | | | 106.0 | | % | 60-130 | 22-APR-21 | |
| Toluene | | | 94.7 | | % | 70-130 | 22-APR-21 | |
| trans-1,2-Dichloroethylene | | | 120.6 | | % | 60-130 | 22-APR-21 | |
| trans-1,3-Dichloropropene | | | 99.6 | | % | 70-130 | 22-APR-21 | |
| Trichloroethylene | | | 125.1 | | % | 60-130 | 22-APR-21 | |
| Trichlorofluoromethane | | | 108.0 | | % | 50-140 | 22-APR-21 | |
| Vinyl chloride | | | 108.9 | | % | 60-140 | 22-APR-21 | |
| WG3521292-1 | MB | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | <0.050 | | ug/g | 0.05 | 22-APR-21 | |

Quality Control Report

Workorder: L2578440

Report Date: 26-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|----------|-----------|---------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Soil | | | | | | | |
| Batch | R5437536 | | | | | | | |
| WG3521292-1 | MB | | | | | | | |
| 1,1,2,2-Tetrachloroethane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| 1,1,1-Trichloroethane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| 1,1,2-Trichloroethane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| 1,1-Dichloroethane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| 1,1-Dichloroethylene | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| 1,2-Dibromoethane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| 1,2-Dichlorobenzene | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| 1,2-Dichloroethane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| 1,2-Dichloropropane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| 1,3-Dichlorobenzene | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| 1,4-Dichlorobenzene | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| Acetone | | | <0.50 | | ug/g | | 0.5 | 22-APR-21 |
| Benzene | | | <0.0068 | | ug/g | | 0.0068 | 22-APR-21 |
| Bromodichloromethane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| Bromoform | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| Bromomethane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| Carbon tetrachloride | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| Chlorobenzene | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| Chloroform | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| cis-1,2-Dichloroethylene | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| cis-1,3-Dichloropropene | | | <0.030 | | ug/g | | 0.03 | 22-APR-21 |
| Dibromochloromethane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| Dichlorodifluoromethane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| Ethylbenzene | | | <0.018 | | ug/g | | 0.018 | 22-APR-21 |
| n-Hexane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| Methylene Chloride | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| MTBE | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| m+p-Xylenes | | | <0.030 | | ug/g | | 0.03 | 22-APR-21 |
| Methyl Ethyl Ketone | | | <0.50 | | ug/g | | 0.5 | 22-APR-21 |
| Methyl Isobutyl Ketone | | | <0.50 | | ug/g | | 0.5 | 22-APR-21 |
| o-Xylene | | | <0.020 | | ug/g | | 0.02 | 22-APR-21 |
| Styrene | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| Tetrachloroethylene | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |

Quality Control Report

Workorder: L2578440

Report Date: 26-MAY-21

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|----------|-------------|--------|-----------|-------|--------|-----------|-----------|
| VOC-511-HS-WT | Soil | | | | | | | |
| Batch | R5437536 | | | | | | | |
| WG3521292-1 | MB | | | | | | | |
| Toluene | | | <0.080 | | ug/g | | 0.08 | 22-APR-21 |
| trans-1,2-Dichloroethylene | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| trans-1,3-Dichloropropene | | | <0.030 | | ug/g | | 0.03 | 22-APR-21 |
| Trichloroethylene | | | <0.010 | | ug/g | | 0.01 | 22-APR-21 |
| Trichlorofluoromethane | | | <0.050 | | ug/g | | 0.05 | 22-APR-21 |
| Vinyl chloride | | | <0.020 | | ug/g | | 0.02 | 22-APR-21 |
| Surrogate: 1,4-Difluorobenzene | | 143.4 | SURQC | % | | 50-140 | 22-APR-21 | |
| Surrogate: 4-Bromofluorobenzene | | 96.0 | | % | | 50-140 | 22-APR-21 | |
| WG3521292-5 | MS | WG3521292-3 | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | 109.2 | | % | 50-140 | 22-APR-21 | |
| 1,1,2,2-Tetrachloroethane | | | 108.1 | | % | 50-140 | 22-APR-21 | |
| 1,1,1-Trichloroethane | | | 118.9 | | % | 50-140 | 22-APR-21 | |
| 1,1,2-Trichloroethane | | | 107.4 | | % | 50-140 | 22-APR-21 | |
| 1,1-Dichloroethane | | | 97.1 | | % | 50-140 | 22-APR-21 | |
| 1,1-Dichloroethylene | | | 132.3 | | % | 50-140 | 22-APR-21 | |
| 1,2-Dibromoethane | | | 110.2 | | % | 50-140 | 22-APR-21 | |
| 1,2-Dichlorobenzene | | | 117.7 | | % | 50-140 | 22-APR-21 | |
| 1,2-Dichloroethane | | | 129.9 | | % | 50-140 | 22-APR-21 | |
| 1,2-Dichloropropane | | | 130.5 | | % | 50-140 | 22-APR-21 | |
| 1,3-Dichlorobenzene | | | 118.0 | | % | 50-140 | 22-APR-21 | |
| 1,4-Dichlorobenzene | | | 117.7 | | % | 50-140 | 22-APR-21 | |
| Acetone | | 148.9 | MES | % | | 50-140 | 22-APR-21 | |
| Benzene | | 126.2 | | % | | 50-140 | 22-APR-21 | |
| Bromodichloromethane | | 134.8 | | % | | 50-140 | 22-APR-21 | |
| Bromoform | | 110.5 | | % | | 50-140 | 22-APR-21 | |
| Bromomethane | | 113.2 | | % | | 50-140 | 22-APR-21 | |
| Carbon tetrachloride | | 130.7 | | % | | 50-140 | 22-APR-21 | |
| Chlorobenzene | | 112.7 | | % | | 50-140 | 22-APR-21 | |
| Chloroform | | 130.9 | | % | | 50-140 | 22-APR-21 | |
| cis-1,2-Dichloroethylene | | 124.6 | | % | | 50-140 | 22-APR-21 | |
| cis-1,3-Dichloropropene | | 130.8 | | % | | 50-140 | 22-APR-21 | |
| Dibromochloromethane | | 106.7 | | % | | 50-140 | 22-APR-21 | |
| Dichlorodifluoromethane | | 106.4 | | % | | 50-140 | 22-APR-21 | |
| Ethylbenzene | | 107.4 | | % | | 50-140 | 22-APR-21 | |

Quality Control Report

Workorder: L2578440

Report Date: 26-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-------------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Soil | | | | | | | |
| Batch | R5437536 | | | | | | | |
| WG3521292-5 | MS | WG3521292-3 | | | | | | |
| n-Hexane | | | 129.8 | | % | | 50-140 | 22-APR-21 |
| Methylene Chloride | | | 135.9 | | % | | 50-140 | 22-APR-21 |
| MTBE | | | 115.0 | | % | | 50-140 | 22-APR-21 |
| m+p-Xylenes | | | 113.1 | | % | | 50-140 | 22-APR-21 |
| Methyl Ethyl Ketone | | | 127.7 | | % | | 50-140 | 22-APR-21 |
| Methyl Isobutyl Ketone | | | 128.4 | | % | | 50-140 | 22-APR-21 |
| o-Xylene | | | 112.7 | | % | | 50-140 | 22-APR-21 |
| Styrene | | | 109.9 | | % | | 50-140 | 22-APR-21 |
| Tetrachloroethylene | | | 109.1 | | % | | 50-140 | 22-APR-21 |
| Toluene | | | 99.5 | | % | | 50-140 | 22-APR-21 |
| trans-1,2-Dichloroethylene | | | 129.2 | | % | | 50-140 | 22-APR-21 |
| trans-1,3-Dichloropropene | | | 109.7 | | % | | 50-140 | 22-APR-21 |
| Trichloroethylene | | | 132.0 | | % | | 50-140 | 22-APR-21 |
| Trichlorofluoromethane | | | 121.2 | | % | | 50-140 | 22-APR-21 |
| Vinyl chloride | | | 131.8 | | % | | 50-140 | 22-APR-21 |

Quality Control Report

Workorder: L2578440

Report Date: 26-MAY-21

Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

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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 |
|-----------|---|
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MES | Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME). |
| 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. |
| SURQC | Surrogate recovery marginally exceeded DQO in QC sample (MB, LCS, RM, or MS). Surrogates are less important for QC samples than for test samples. Refer to regular (non-surrogate) analyte results in affected QC sample for assessment of potential impacts to those analytes. |

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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.

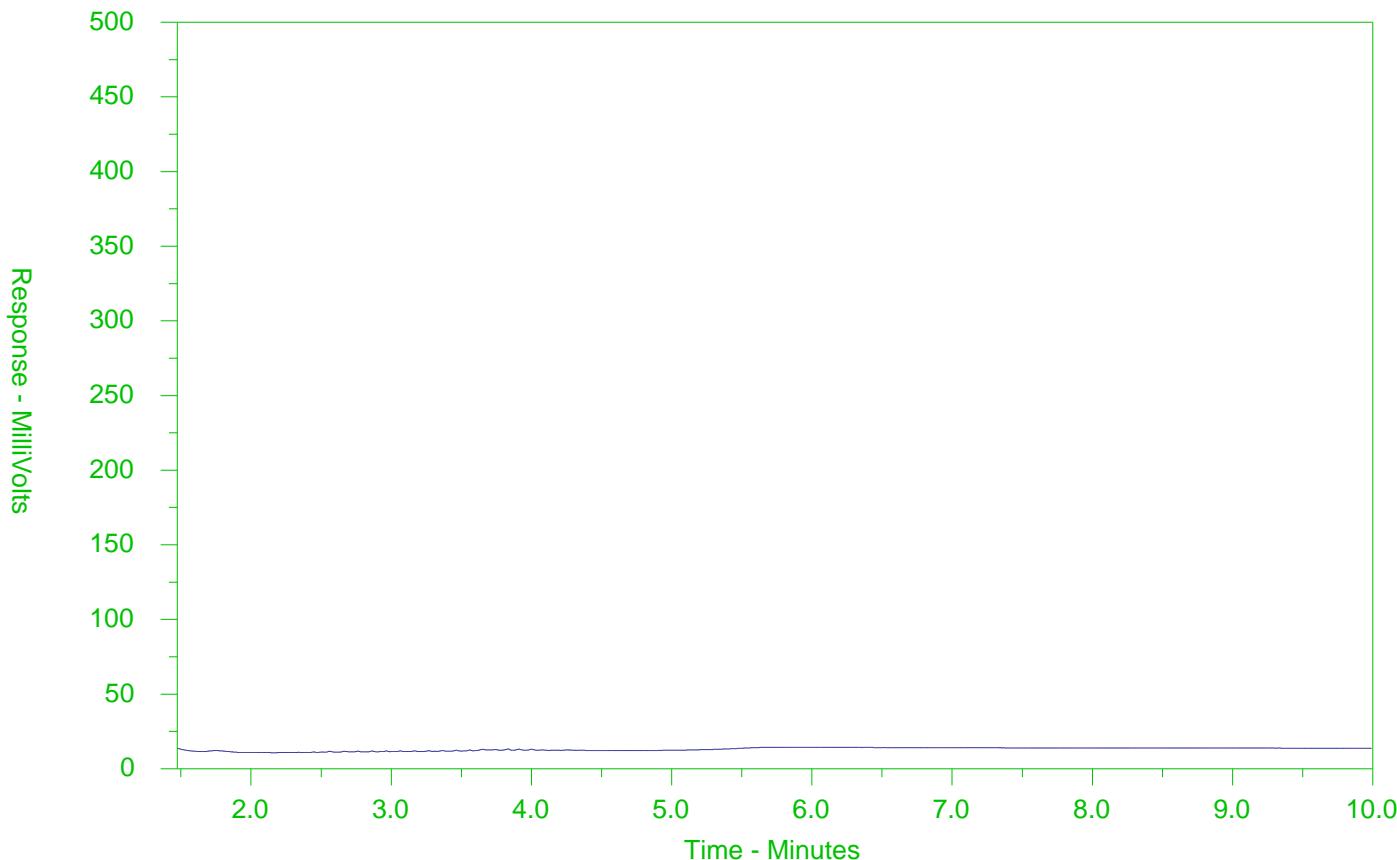
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide 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: L2578440-2
Client Sample ID: MW21-1 SS4



| 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.

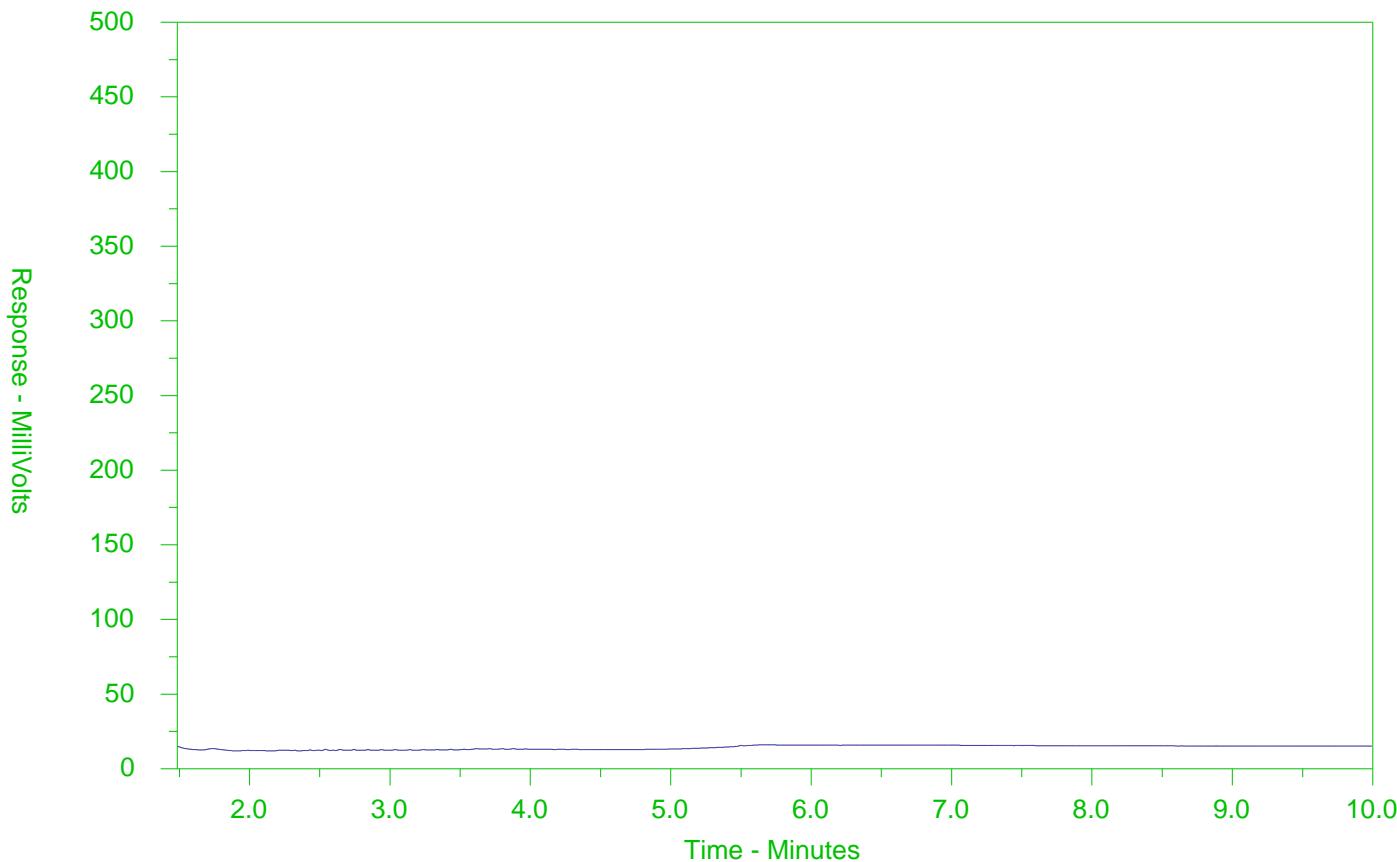
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2578440-4
Client Sample ID: MW21-10 SS3



| 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.

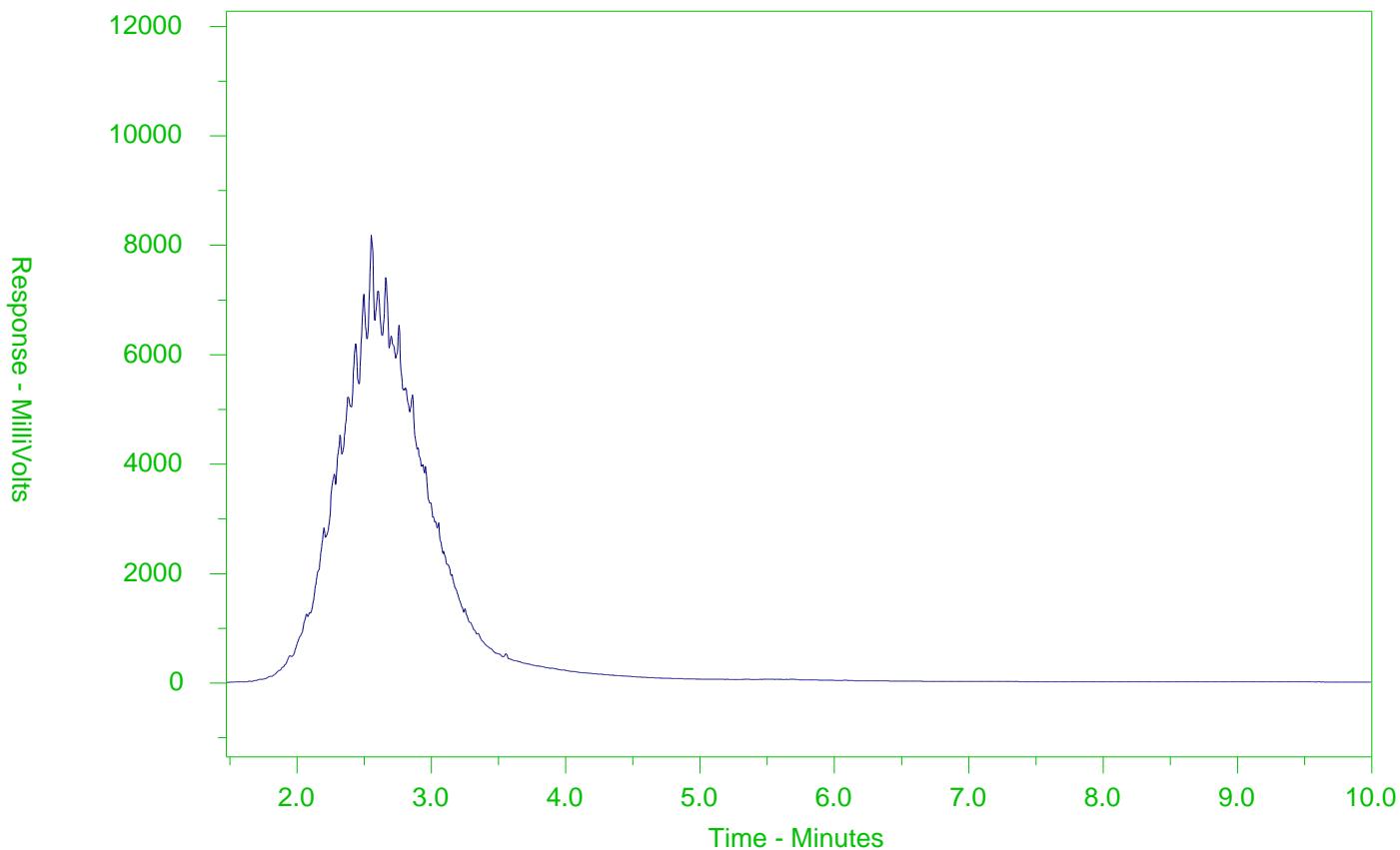
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2578440-5
Client Sample ID: GS1



| 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.

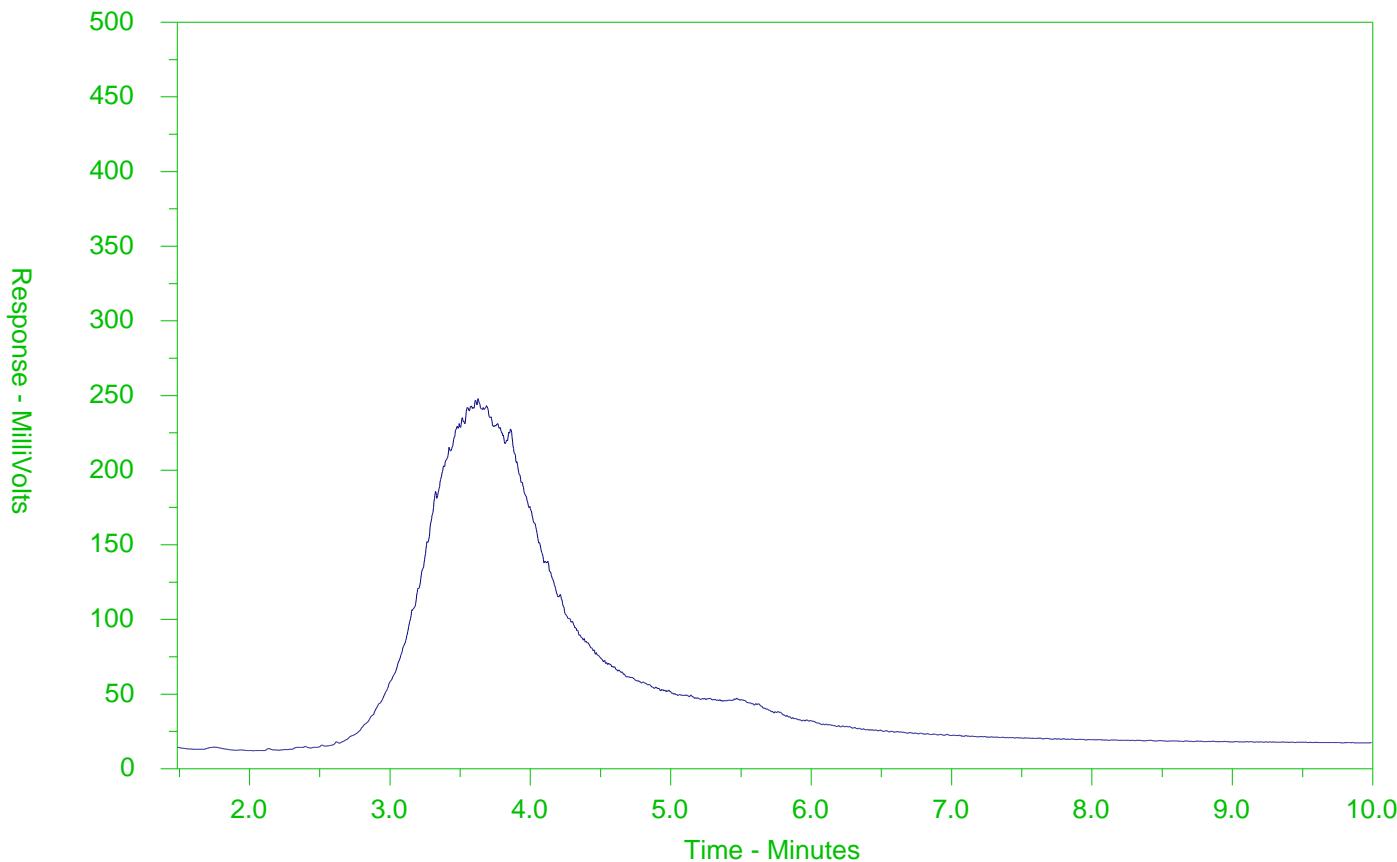
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2578440-6
Client Sample ID: GS2



| 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.

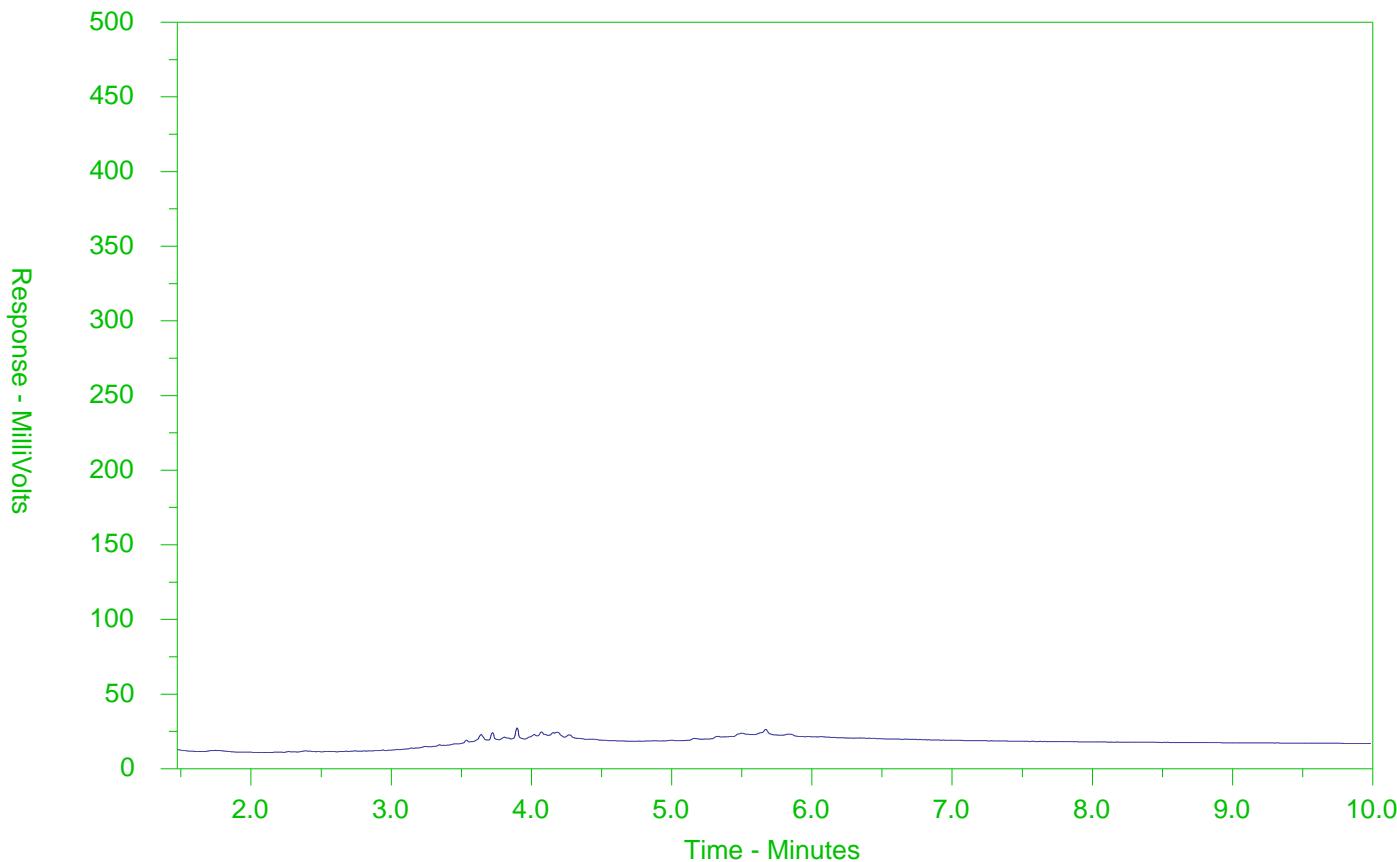
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2578440-7
Client Sample ID: GS3



| 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.



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



COC Number: 17 - 820071

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8A

| | | | | | | | | | | | | | | |
|---|--|---|--|---|---|---|--|---|------------------------------------|---|------------------------------|-----------------------------|------------------------------|--|
| Report To | | Contact and company name below will appear on the final report | | Report Format / DI | | Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply) | | | | | | | | |
| Company: | DS Longue Pointe K. Clark | | Select Report Format: | <input checked="" type="checkbox"/> PDF | <input checked="" type="checkbox"/> EXCEL | <input type="checkbox"/> EDD (DIGITAL) | Regular [R] <input checked="" type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply | | | | | | | |
| Contact: | | | Quality Control (QC) Report with Report | <input type="checkbox"/> YES | <input type="checkbox"/> NO | 4 day [P4-20%] <input type="checkbox"/> | | | | | | | | |
| Phone: | | | <input checked="" type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked | 3 day [P3-25%] <input type="checkbox"/> | | | | | | | | | | |
| Company address below will appear on the final report | | | | Select Distribution: | <input type="checkbox"/> EMAIL | <input type="checkbox"/> MAIL | <input type="checkbox"/> FAX | 2 day [P2-50%] <input type="checkbox"/> | | | | | | |
| Street: | | | Email 1 or Fax | EMERGENCY 1 Business day [E - 100%] | | | | | | | | | | |
| City/Province: | | | Email 2 Keith.Clark@discrus.com (cont'd.) | Same Day, Weekend or Statutory holiday [E2 - 200%] (Laboratory opening fees may apply) | | | | | | | | | | |
| Postal Code: | | | Email 3 | dd-mmm-yy hh:mm | | | | | | | | | | |
| Invoice To | Same as Report To <input type="checkbox"/> YES <input type="checkbox"/> NO | | Date and Time Required for all E&P TATs: | | | | | | | | | | | |
| | Copy of Invoice with Report <input type="checkbox"/> YES <input type="checkbox"/> NO | | For tests that can not be performed according to the service level selected, you will be contacted. | | | | | | | | | | | |
| Company: | | | Select Invoice Distribution: | <input type="checkbox"/> EMAIL | <input type="checkbox"/> MAIL | <input type="checkbox"/> FAX | Analysis Request | | | | | | | |
| Contact: | | | Email 1 or Fax | Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below | | | | | | | | | | |
| Project Information | | Oil and Gas Required Fields (client use) | | | | | | | | | | | | |
| ALS Account # / Quote #: | | | AFE/Cost Center: | PO# | | | | | | | | | | |
| Job #: | 21-129-300 | | Major/Minor Code: | Routing Code: | | | | | | | | | | |
| PO/AFE: | | | Requisitioner: | | | | | | | | | | | |
| LSD: | | | Location: | | | | | | | | | | | |
| ALS Lab Work Order # (lab use only): L2578440 | | ALS Contact: | | Sampler: | | | | | | | | | | |
| ALS Sample # (lab use only) | Sample Identification and/or Coordinates (This description will appear on the report) | | Date (dd-mmm-yy) | Time (hh:mm) | Sample Type | NUMBER OF CONTAINERS | | | | | | | | |
| | MW21-1 SS2 | | 15-Apr-21 | S | 1 | Rag 153 mg I | | | | | | | | |
| | MW21-1 SS4 | | 11 | S | 3 | Rag 153 PAH | | | | | | | | |
| | MW 21-10 SS1 | | 19-Apr-21 | S | 1 | Reg 153 PHC/VOC | | | | | | | | |
| | MW 21-10 SS3 | | 11 | S | 3 | | | | | | | | | |
| | GS1 | | 15-Apr-21 | S | 4 | | | | | | | | | |
| | GS2 | | 17-Apr-21 | S | 4 | | | | | | | | | |
| | GS3 | | 19-Apr-21 | S | 4 | | | | | | | | | |
| | Dup1 | | 19-Apr-21 | S | 1 | | | | | | | | | |
| Drinking Water (DW) Samples ¹ (client use) | | Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only) | | | | | | SAMPLE CONDITION AS RECEIVED (lab use only) | | | | | | |
| Are samples taken from a Regulated DW System? | | <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | | | Frozen <input type="checkbox"/> | SIF Observations | Yes <input type="checkbox"/> | No <input type="checkbox"/> | | | |
| Are samples for human consumption/ use? | | T1 RPLCC/T2 RPL | | | | | | Ice Packs <input type="checkbox"/> | Ice Cubes <input type="checkbox"/> | Custody seal intact <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/> | | |
| | | | | | | | | Cooling Initiated <input type="checkbox"/> | INITIAL COOLER TEMPERATURES °C | | | | FINAL COOLER TEMPERATURES °C | |
| SHIPMENT RELEASE (client use) | | INITIAL SHIPMENT RECEPTION (lab use only) | | | | | | FINAL SHIPMENT RECEPTION (lab use only) | | | | | | |
| Released by: K. Clark | Date: Apr 20/21 | Time: 2:30 | Received by: | Date: | Time: | Received by: Og | Date: Apr 20/21 | Time: 1:00 | | | | | | |

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

SAMPLES ON HOLD
SUSPECTED HAZARD (see Special Instructions)

JUNE 2018 FRONT

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



DS Consultants (Cambridge)
ATTN: KEITH CLARKE
380 Jamieson Parkway
Unit 6
Cambridge ON N3C 4N4

Date Received: 30-APR-21
Report Date: 17-MAY-21 11:34 (MT)
Version: FINAL

Client Phone: 519-260-9393

Certificate of Analysis

Lab Work Order #: L2582555
Project P.O. #: NOT SUBMITTED
Job Reference: 21-129-300
C of C Numbers: 17-639655
Legal Site Desc:



Emily Hansen
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 60 Northland Road, Unit 1, Waterloo, ON N2V 2B8 Canada | Phone: +1 519 886 6910 | Fax: +1 519 886 9047
ALS CANADA LTD Part of the ALS Group An ALS Limited Company



Environmental

ANALYTICAL GUIDELINE REPORT

L2582555 CONTD....

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17-MAY-21 11:34 (MT)

21-129-300

| Sample Details | | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|-------------------------------------|-------------|--------------|--------|-----------|----------|-----------|----------|------------------|-------|----|
| Grouping | | | | | | | | #1 | #2 | #3 |
| L2582555-1 | MW21-11 SS1 | | | | | | | | | |
| Sampled By: | CLIENT | on 29-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Physical Tests | | | | | | | | | | |
| Conductivity | | 0.648 | | 0.0040 | mS/cm | 10-MAY-21 | *0.57 | 0.7 | 0.7 | |
| % Moisture | | 13.2 | | 0.25 | % | 07-MAY-21 | | | | |
| pH | | 7.52 | | 0.10 | pH units | 07-MAY-21 | | | | |
| Cyanides | | | | | | | | | | |
| Cyanide, Weak Acid Diss | | <0.050 | | 0.050 | ug/g | 07-MAY-21 | 0.051 | 0.051 | 0.051 | |
| Saturated Paste Extractables | | | | | | | | | | |
| SAR | | 0.35 | | 0.10 | SAR | 10-MAY-21 | 2.4 | 5 | 5 | |
| Calcium (Ca) | | 114 | | 0.50 | mg/L | 10-MAY-21 | | | | |
| Magnesium (Mg) | | 13.6 | | 0.50 | mg/L | 10-MAY-21 | | | | |
| Sodium (Na) | | 15.0 | | 0.50 | mg/L | 10-MAY-21 | | | | |
| Metals | | | | | | | | | | |
| Antimony (Sb) | | <1.0 | | 1.0 | ug/g | 10-MAY-21 | 1.3 | 7.5 | 7.5 | |
| Arsenic (As) | | 3.5 | | 1.0 | ug/g | 10-MAY-21 | 18 | 18 | 18 | |
| Barium (Ba) | | 40.3 | | 1.0 | ug/g | 10-MAY-21 | 220 | 390 | 390 | |
| Beryllium (Be) | | <0.50 | | 0.50 | ug/g | 10-MAY-21 | 2.5 | 4 | 5 | |
| Boron (B) | | <5.0 | | 5.0 | ug/g | 10-MAY-21 | 36 | 120 | 120 | |
| Boron (B), Hot Water Ext. | | 0.53 | | 0.10 | ug/g | 10-MAY-21 | 36 | 1.5 | 1.5 | |
| Cadmium (Cd) | | <0.50 | | 0.50 | ug/g | 10-MAY-21 | 1.2 | 1.2 | 1.2 | |
| Chromium (Cr) | | 14.8 | | 1.0 | ug/g | 10-MAY-21 | 70 | 160 | 160 | |
| Cobalt (Co) | | 5.4 | | 1.0 | ug/g | 10-MAY-21 | 21 | 22 | 22 | |
| Copper (Cu) | | 10.3 | | 1.0 | ug/g | 10-MAY-21 | 92 | 140 | 180 | |
| Lead (Pb) | | 30.3 | | 1.0 | ug/g | 10-MAY-21 | 120 | 120 | 120 | |
| Mercury (Hg) | | 0.0485 | | 0.0050 | ug/g | 10-MAY-21 | 0.27 | 0.27 | 1.8 | |
| Molybdenum (Mo) | | <1.0 | | 1.0 | ug/g | 10-MAY-21 | 2 | 6.9 | 6.9 | |
| Nickel (Ni) | | 8.8 | | 1.0 | ug/g | 10-MAY-21 | 82 | 100 | 130 | |
| Selenium (Se) | | <1.0 | | 1.0 | ug/g | 10-MAY-21 | 1.5 | 2.4 | 2.4 | |
| Silver (Ag) | | <0.20 | | 0.20 | ug/g | 10-MAY-21 | 0.5 | 20 | 25 | |
| Thallium (Tl) | | <0.50 | | 0.50 | ug/g | 10-MAY-21 | 1 | 1 | 1 | |
| Uranium (U) | | <1.0 | | 1.0 | ug/g | 10-MAY-21 | 2.5 | 23 | 23 | |
| Vanadium (V) | | 33.1 | | 1.0 | ug/g | 10-MAY-21 | 86 | 86 | 86 | |
| Zinc (Zn) | | 116 | | 5.0 | ug/g | 10-MAY-21 | 290 | 340 | 340 | |
| Speciated Metals | | | | | | | | | | |
| Chromium, Hexavalent | | <0.20 | | 0.20 | ug/g | 10-MAY-21 | 0.66 | 8 | 10 | |
| L2582555-2 | MW21-11 SS7 | | | | | | | | | |
| Sampled By: | CLIENT | on 29-APR-21 | | | | | | | | |
| Matrix: | SOIL | | | | | | | | | |
| Physical Tests | | | | | | | | | | |
| % Moisture | | 7.16 | | 0.25 | % | 07-MAY-21 | | | | |
| Volatile Organic Compounds | | | | | | | | | | |
| Acetone | | <0.50 | | 0.50 | ug/g | 12-MAY-21 | 0.5 | 16 | 28 | |
| Benzene | | <0.0068 | | 0.0068 | ug/g | 12-MAY-21 | 0.02 | 0.21 | 0.17 | |
| Bromodichloromethane | | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 1.5 | 1.9 | |
| Bromoform | | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.27 | 0.26 | |
| Bromomethane | | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.05 | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

L2582555 CONTD....

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17-MAY-21 11:34 (MT)

21-129-300

| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|-----------------------------------|-------------|--------------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | Analyte | | | | | | #1 | #2 | #3 |
| L2582555-2 | MW21-11 SS7 | | | | | | | | |
| Sampled By: | CLIENT | on 29-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | |
| Carbon tetrachloride | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.12 | | |
| Chlorobenzene | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 2.4 | 2.7 | | |
| Dibromochloromethane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 2.3 | 2.9 | | |
| Chloroform | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.18 | | |
| 1,2-Dibromoethane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.05 | | |
| 1,2-Dichlorobenzene | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 1.2 | 1.7 | | |
| 1,3-Dichlorobenzene | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 4.8 | 6 | | |
| 1,4-Dichlorobenzene | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.083 | 0.097 | | |
| Dichlorodifluoromethane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 16 | 25 | | |
| 1,1-Dichloroethane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.47 | 0.6 | | |
| 1,2-Dichloroethane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.05 | | |
| 1,1-Dichloroethylene | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.05 | | |
| cis-1,2-Dichloroethylene | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 1.9 | 2.5 | | |
| trans-1,2-Dichloroethylene | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.084 | 0.75 | | |
| Methylene Chloride | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.1 | 0.96 | | |
| 1,2-Dichloropropane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.085 | | |
| cis-1,3-Dichloropropene | <0.030 | 0.030 | ug/g | 12-MAY-21 | | | | | |
| trans-1,3-Dichloropropene | <0.030 | 0.030 | ug/g | 12-MAY-21 | | | | | |
| 1,3-Dichloropropene (cis & trans) | <0.042 | 0.042 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.081 | | |
| Ethylbenzene | <0.018 | 0.018 | ug/g | 12-MAY-21 | 0.05 | 1.1 | 1.6 | | |
| n-Hexane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 2.8 | 34 | | |
| Methyl Ethyl Ketone | <0.50 | 0.50 | ug/g | 12-MAY-21 | 0.5 | 16 | 44 | | |
| Methyl Isobutyl Ketone | <0.50 | 0.50 | ug/g | 12-MAY-21 | 0.5 | 1.7 | 4.3 | | |
| MTBE | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.75 | 1.4 | | |
| Styrene | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.7 | 2.2 | | |
| 1,1,1,2-Tetrachloroethane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.058 | 0.05 | | |
| 1,1,2,2-Tetrachloroethane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.05 | | |
| Tetrachloroethylene | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.28 | 2.3 | | |
| Toluene | <0.080 | 0.080 | ug/g | 12-MAY-21 | 0.2 | 2.3 | 6 | | |
| 1,1,1-Trichloroethane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.38 | 3.4 | | |
| 1,1,2-Trichloroethane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.05 | | |
| Trichloroethylene | <0.010 | 0.010 | ug/g | 12-MAY-21 | 0.05 | 0.061 | 0.52 | | |
| Trichlorofluoromethane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.25 | 4 | 5.8 | | |
| Vinyl chloride | <0.020 | 0.020 | ug/g | 12-MAY-21 | 0.02 | 0.02 | 0.022 | | |
| o-Xylene | <0.020 | 0.020 | ug/g | 12-MAY-21 | | | | | |
| m+p-Xylenes | <0.030 | 0.030 | ug/g | 12-MAY-21 | | | | | |
| Xylenes (Total) | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 3.1 | 25 | | |
| Surrogate: 4-Bromofluorobenzene | 93.5 | 50-140 | % | 12-MAY-21 | | | | | |
| Surrogate: 1,4-Difluorobenzene | 111.3 | 50-140 | % | 12-MAY-21 | | | | | |
| Hydrocarbons | | | | | | | | | |
| F1 (C6-C10) | <5.0 | 5.0 | ug/g | 12-MAY-21 | 25 | 55 | 65 | | |
| F1-BTEX | <5.0 | 5.0 | ug/g | 12-MAY-21 | 25 | 55 | 65 | | |
| F2 (C10-C16) | <10 | 10 | ug/g | 10-MAY-21 | 10 | 98 | 150 | | |
| F3 (C16-C34) | <50 | 50 | ug/g | 10-MAY-21 | 240 | 300 | 1300 | | |
| F4 (C34-C50) | <50 | 50 | ug/g | 10-MAY-21 | 120 | 2800 | 5600 | | |
| Total Hydrocarbons (C6-C50) | <72 | 72 | ug/g | 12-MAY-21 | | | | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)



Environmental

L2582555 CONTD....

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17-MAY-21 11:34 (MT)

ANALYTICAL GUIDELINE REPORT

21-129-300

| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|------------------------------------|-------------|--------------|-----------|--------|-----------|-----------|------------------|-------|----|
| Grouping | Analyte | | | | | | #1 | #2 | #3 |
| L2582555-2 | MW21-11 SS7 | | | | | | | | |
| Sampled By: | CLIENT | on 29-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Hydrocarbons | | | | | | | | | |
| Chrom. to baseline at nC50 | YES | | | | No Unit | 10-MAY-21 | | | |
| Surrogate: 2-Bromobenzotrifluoride | 115.9 | | | 60-140 | % | 10-MAY-21 | | | |
| Surrogate: 3,4-Dichlorotoluene | 104.5 | | | 60-140 | % | 12-MAY-21 | | | |
| L2582555-3 | BH21-12 SS1 | | | | | | | | |
| Sampled By: | CLIENT | on 29-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Physical Tests | | | | | | | | | |
| % Moisture | 12.5 | | 0.25 | | % | 07-MAY-21 | | | |
| Volatile Organic Compounds | | | | | | | | | |
| Acetone | <0.50 | | 0.50 | ug/g | 12-MAY-21 | 0.5 | 16 | 28 | |
| Benzene | <0.0068 | | 0.0068 | ug/g | 12-MAY-21 | 0.02 | 0.21 | 0.17 | |
| Bromodichloromethane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 1.5 | 1.9 | |
| Bromoform | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.27 | 0.26 | |
| Bromomethane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.05 | |
| Carbon tetrachloride | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.12 | |
| Chlorobenzene | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 2.4 | 2.7 | |
| Dibromochloromethane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 2.3 | 2.9 | |
| Chloroform | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.18 | |
| 1,2-Dibromoethane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.05 | |
| 1,2-Dichlorobenzene | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 1.2 | 1.7 | |
| 1,3-Dichlorobenzene | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 4.8 | 6 | |
| 1,4-Dichlorobenzene | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.083 | 0.097 | |
| Dichlorodifluoromethane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 16 | 25 | |
| 1,1-Dichloroethane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.47 | 0.6 | |
| 1,2-Dichloroethane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.05 | |
| 1,1-Dichloroethylene | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.05 | |
| cis-1,2-Dichloroethylene | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 1.9 | 2.5 | |
| trans-1,2-Dichloroethylene | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.084 | 0.75 | |
| Methylene Chloride | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.1 | 0.96 | |
| 1,2-Dichloropropane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.085 | |
| cis-1,3-Dichloropropene | <0.030 | | 0.030 | ug/g | 12-MAY-21 | | | | |
| trans-1,3-Dichloropropene | <0.030 | | 0.030 | ug/g | 12-MAY-21 | | | | |
| 1,3-Dichloropropene (cis & trans) | <0.042 | | 0.042 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.081 | |
| Ethylbenzene | <0.018 | | 0.018 | ug/g | 12-MAY-21 | 0.05 | 1.1 | 1.6 | |
| n-Hexane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 2.8 | 34 | |
| Methyl Ethyl Ketone | <0.50 | | 0.50 | ug/g | 12-MAY-21 | 0.5 | 16 | 44 | |
| Methyl Isobutyl Ketone | <0.50 | | 0.50 | ug/g | 12-MAY-21 | 0.5 | 1.7 | 4.3 | |
| MTBE | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.75 | 1.4 | |
| Styrene | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.7 | 2.2 | |
| 1,1,1,2-Tetrachloroethane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.058 | 0.05 | |
| 1,1,2,2-Tetrachloroethane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.05 | |
| Tetrachloroethylene | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.28 | 2.3 | |
| Toluene | <0.080 | | 0.080 | ug/g | 12-MAY-21 | 0.2 | 2.3 | 6 | |
| 1,1,1-Trichloroethane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.38 | 3.4 | |
| 1,1,2-Trichloroethane | <0.050 | | 0.050 | ug/g | 12-MAY-21 | 0.05 | 0.05 | 0.05 | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)



Environmental

L2582555 CONTD....

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17-MAY-21 11:34 (MT)

ANALYTICAL GUIDELINE REPORT

21-129-300

| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|---|-------------|--------------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | Analyte | | | | | | #1 | #2 | #3 |
| L2582555-3 | BH21-12 SS1 | | | | | | | | |
| Sampled By: | CLIENT | on 29-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | |
| Trichloroethylene | <0.010 | 0.010 | ug/g | 12-MAY-21 | 0.05 | 0.061 | 0.52 | | |
| Trichlorofluoromethane | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.25 | 4 | 5.8 | | |
| Vinyl chloride | <0.020 | 0.020 | ug/g | 12-MAY-21 | 0.02 | 0.02 | 0.022 | | |
| o-Xylene | <0.020 | 0.020 | ug/g | 12-MAY-21 | | | | | |
| m+p-Xylenes | <0.030 | 0.030 | ug/g | 12-MAY-21 | | | | | |
| Xylenes (Total) | <0.050 | 0.050 | ug/g | 12-MAY-21 | 0.05 | 3.1 | 25 | | |
| Surrogate: 4-Bromofluorobenzene | 86.5 | 50-140 | % | 12-MAY-21 | | | | | |
| Surrogate: 1,4-Difluorobenzene | 105.4 | 50-140 | % | 12-MAY-21 | | | | | |
| Hydrocarbons | | | | | | | | | |
| F1 (C6-C10) | <5.0 | 5.0 | ug/g | 12-MAY-21 | 25 | 55 | 65 | | |
| F1-BTEX | <5.0 | 5.0 | ug/g | 17-MAY-21 | 25 | 55 | 65 | | |
| F2 (C10-C16) | <10 | 10 | ug/g | 10-MAY-21 | 10 | 98 | 150 | | |
| F2-Naphth | <10 | 10 | ug/g | 17-MAY-21 | | | | | |
| F3 (C16-C34) | 390 | 50 | ug/g | 10-MAY-21 | *240 | *300 | 1300 | | |
| F3-PAH | 390 | 50 | ug/g | 17-MAY-21 | | | | | |
| F4 (C34-C50) | 1270 | 50 | ug/g | 10-MAY-21 | *120 | 2800 | 5600 | | |
| F4G-SG (GHH-Silica) | 2670 | 250 | ug/g | 10-MAY-21 | *120 | 2800 | 5600 | | |
| Total Hydrocarbons (C6-C50) | 1660 | 72 | ug/g | 17-MAY-21 | | | | | |
| Chrom. to baseline at nC50 | NO | | No Unit | 10-MAY-21 | | | | | |
| Surrogate: 2-Bromobenzotrifluoride | 97.6 | 60-140 | % | 10-MAY-21 | | | | | |
| Surrogate: 3,4-Dichlorotoluene | 80.8 | 60-140 | % | 12-MAY-21 | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | |
| Acenaphthene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 0.072 | 7.9 | 29 | | |
| Acenaphthylene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 0.093 | 0.15 | 0.17 | | |
| Anthracene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 0.16 | 0.67 | 0.74 | | |
| Benzo(a)anthracene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 0.36 | 0.5 | 0.63 | | |
| Benzo(a)pyrene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 0.3 | 0.3 | 0.3 | | |
| Benzo(b&j)fluoranthene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 0.47 | 0.78 | 0.78 | | |
| Benzo(g,h,i)perylene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 0.68 | 6.6 | 7.8 | | |
| Benzo(k)fluoranthene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 0.48 | 0.78 | 0.78 | | |
| Chrysene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 2.8 | 7 | 7.8 | | |
| Dibenz(a,h)anthracene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 0.1 | 0.1 | 0.1 | | |
| Fluoranthene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 0.56 | 0.69 | 0.69 | | |
| Fluorene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 0.12 | 62 | 69 | | |
| Indeno(1,2,3-cd)pyrene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 0.23 | 0.38 | 0.48 | | |
| 1+2-Methylnaphthalenes | <0.042 | 0.042 | ug/g | 17-MAY-21 | 0.59 | 0.99 | 3.4 | | |
| 1-Methylnaphthalene | <0.030 | 0.030 | ug/g | 17-MAY-21 | 0.59 | 0.99 | 3.4 | | |
| 2-Methylnaphthalene | <0.030 | 0.030 | ug/g | 17-MAY-21 | 0.59 | 0.99 | 3.4 | | |
| Naphthalene | <0.013 | 0.013 | ug/g | 17-MAY-21 | 0.09 | 0.6 | 0.75 | | |
| Phenanthrene | <0.046 | 0.046 | ug/g | 17-MAY-21 | 0.69 | 6.2 | 7.8 | | |
| Pyrene | <0.050 | 0.050 | ug/g | 17-MAY-21 | 1 | 78 | 78 | | |
| Surrogate: 2-Fluorobiphenyl | 90.6 | 50-140 | % | 17-MAY-21 | | | | | |
| Surrogate: d14-Terphenyl | 97.0 | 50-140 | % | 17-MAY-21 | | | | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)

ANALYTICAL GUIDELINE REPORT

L2582555 CONTD....

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17-MAY-21 11:34 (MT)

21-129-300

| Sample Details | | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|-------------------------------------|-------------|--------------|-----------|--------|----------|-----------|------------------|-------|-------|
| Grouping | Analyte | | | | | | #1 | #2 | #3 |
| L2582555-4 | BH21-12 SS2 | | | | | | | | |
| Sampled By: | CLIENT | on 29-APR-21 | | | | | | | |
| Matrix: | SOIL | | | | | | | | |
| Physical Tests | | | | | | | | | |
| Conductivity | | 0.250 | | 0.0040 | mS/cm | 10-MAY-21 | 0.57 | 0.7 | 0.7 |
| % Moisture | | 12.0 | | 0.25 | % | 07-MAY-21 | | | |
| pH | | 7.79 | | 0.10 | pH units | 07-MAY-21 | | | |
| Cyanides | | | | | | | | | |
| Cyanide, Weak Acid Diss | | <0.050 | | 0.050 | ug/g | 07-MAY-21 | 0.051 | 0.051 | 0.051 |
| Saturated Paste Extractables | | | | | | | | | |
| SAR | | 0.26 | | 0.10 | SAR | 10-MAY-21 | 2.4 | 5 | 5 |
| Calcium (Ca) | | 38.6 | | 0.50 | mg/L | 10-MAY-21 | | | |
| Magnesium (Mg) | | 5.53 | | 0.50 | mg/L | 10-MAY-21 | | | |
| Sodium (Na) | | 6.46 | | 0.50 | mg/L | 10-MAY-21 | | | |
| Metals | | | | | | | | | |
| Antimony (Sb) | | <1.0 | | 1.0 | ug/g | 10-MAY-21 | 1.3 | 7.5 | 7.5 |
| Arsenic (As) | | 3.5 | | 1.0 | ug/g | 10-MAY-21 | 18 | 18 | 18 |
| Barium (Ba) | | 29.3 | | 1.0 | ug/g | 10-MAY-21 | 220 | 390 | 390 |
| Beryllium (Be) | | <0.50 | | 0.50 | ug/g | 10-MAY-21 | 2.5 | 4 | 5 |
| Boron (B) | | 6.5 | | 5.0 | ug/g | 10-MAY-21 | 36 | 120 | 120 |
| Boron (B), Hot Water Ext. | | 0.40 | | 0.10 | ug/g | 10-MAY-21 | 36 | 1.5 | 1.5 |
| Cadmium (Cd) | | 0.50 | | 0.50 | ug/g | 10-MAY-21 | 1.2 | 1.2 | 1.2 |
| Chromium (Cr) | | 12.6 | | 1.0 | ug/g | 10-MAY-21 | 70 | 160 | 160 |
| Cobalt (Co) | | 4.1 | | 1.0 | ug/g | 10-MAY-21 | 21 | 22 | 22 |
| Copper (Cu) | | 15.5 | | 1.0 | ug/g | 10-MAY-21 | 92 | 140 | 180 |
| Lead (Pb) | | 40.4 | | 1.0 | ug/g | 10-MAY-21 | 120 | 120 | 120 |
| Mercury (Hg) | | 0.0536 | | 0.0050 | ug/g | 10-MAY-21 | 0.27 | 0.27 | 1.8 |
| Molybdenum (Mo) | | <1.0 | | 1.0 | ug/g | 10-MAY-21 | 2 | 6.9 | 6.9 |
| Nickel (Ni) | | 8.6 | | 1.0 | ug/g | 10-MAY-21 | 82 | 100 | 130 |
| Selenium (Se) | | <1.0 | | 1.0 | ug/g | 10-MAY-21 | 1.5 | 2.4 | 2.4 |
| Silver (Ag) | | <0.20 | | 0.20 | ug/g | 10-MAY-21 | 0.5 | 20 | 25 |
| Thallium (Tl) | | <0.50 | | 0.50 | ug/g | 10-MAY-21 | 1 | 1 | 1 |
| Uranium (U) | | <1.0 | | 1.0 | ug/g | 10-MAY-21 | 2.5 | 23 | 23 |
| Vanadium (V) | | 24.0 | | 1.0 | ug/g | 10-MAY-21 | 86 | 86 | 86 |
| Zinc (Zn) | | 167 | | 5.0 | ug/g | 10-MAY-21 | 290 | 340 | 340 |
| Speciated Metals | | | | | | | | | |
| Chromium, Hexavalent | | <0.20 | | 0.20 | ug/g | 10-MAY-21 | 0.66 | 8 | 10 |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-SOIL-RPIICC/RPI-C/F

#1: T1-Soil-Res/Park/Inst/Ind/Com/Commu Property Use

#2: T2-Soil-Res/Park/Inst. Property Use (Coarse)

#3: T2-Soil-Res/Park/Inst. Property Use (Fine)

Reference Information

Methods Listed (if applicable):

| 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).

| | | | |
|----------------|------|--|----------------------------|
| 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).

| | | | |
|-------|------|-------------------|------------|
| 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).

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

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).

Reference Information

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).

F4G-ADD-511-WT Soil F4G SG-O.Reg 153/04 (July 2011) MOE DECPH-E3398/CCME TIER 1

F4G, gravimetric analysis, is determined if the chromatogram does not return to baseline at or before C50. A soil sample is extracted with a solvent mix, the solvent is evaporated and the weight of the residue is determined.

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).

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, Ti, 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

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 technique is 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).

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).

Reference Information

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.

Chain of Custody numbers:

17-639655

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

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-adjusted weight

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.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2582555

Report Date: 17-MAY-21

Page 2 of 14

Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| EC-WT | Soil | | | | | | | |
| Batch | R5455229 | | | | | | | |
| WG3531583-1 | MB | | | | | | | |
| Conductivity | | | <0.0040 | | mS/cm | | 0.004 | 10-MAY-21 |
| F1-HS-511-WT | Soil | | | | | | | |
| Batch | R5456432 | | | | | | | |
| WG3528806-4 | DUP | WG3528806-3 | | | | | | |
| F1 (C6-C10) | | <5.0 | <5.0 | RPD-NA | ug/g | N/A | 30 | 12-MAY-21 |
| WG3528806-2 | LCS | | | | | | | |
| F1 (C6-C10) | | 106.1 | | | % | | 80-120 | 12-MAY-21 |
| WG3528806-1 | MB | | | | | | | |
| F1 (C6-C10) | | <5.0 | | | ug/g | | 5 | 12-MAY-21 |
| Surrogate: 3,4-Dichlorotoluene | | 108.3 | | | % | | 60-140 | 12-MAY-21 |
| WG3528806-5 | MS | WG3528806-3 | | | | | | |
| F1 (C6-C10) | | 122.8 | | | % | | 60-140 | 12-MAY-21 |
| F2-F4-511-WT | Soil | | | | | | | |
| Batch | R5455273 | | | | | | | |
| WG3530543-3 | DUP | WG3530543-5 | | | | | | |
| F2 (C10-C16) | | <10 | <10 | RPD-NA | ug/g | N/A | 30 | 10-MAY-21 |
| F3 (C16-C34) | | <50 | <50 | RPD-NA | ug/g | N/A | 30 | 10-MAY-21 |
| F4 (C34-C50) | | <50 | <50 | RPD-NA | ug/g | N/A | 30 | 10-MAY-21 |
| WG3530543-2 | LCS | | | | | | | |
| F2 (C10-C16) | | 96.2 | | | % | | 80-120 | 10-MAY-21 |
| F3 (C16-C34) | | 100.2 | | | % | | 80-120 | 10-MAY-21 |
| F4 (C34-C50) | | 104.8 | | | % | | 80-120 | 10-MAY-21 |
| WG3530543-1 | MB | | | | | | | |
| F2 (C10-C16) | | <10 | | | ug/g | | 10 | 10-MAY-21 |
| F3 (C16-C34) | | <50 | | | ug/g | | 50 | 10-MAY-21 |
| F4 (C34-C50) | | <50 | | | ug/g | | 50 | 10-MAY-21 |
| Surrogate: 2-Bromobenzotrifluoride | | 110.9 | | | % | | 60-140 | 10-MAY-21 |
| WG3530543-4 | MS | WG3530543-5 | | | | | | |
| F2 (C10-C16) | | 118.1 | | | % | | 60-140 | 10-MAY-21 |
| F3 (C16-C34) | | 123.3 | | | % | | 60-140 | 10-MAY-21 |
| F4 (C34-C50) | | 130.9 | | | % | | 60-140 | 10-MAY-21 |
| F4G-ADD-511-WT | Soil | | | | | | | |

Quality Control Report

Workorder: L2582555

Report Date: 17-MAY-21

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------|--------|-------------|---------|-----------|-------|-----|-------------|-----------|
| F4G-ADD-511-WT | Soil | | | | | | | |
| Batch R5455331 | | | | | | | | |
| WG3532090-2 LCS | | | | | | | | |
| F4G-SG (GHH-Silica) | | | 66.6 | | % | | 60-140 | 10-MAY-21 |
| WG3532090-1 MB | | | | | | | | |
| F4G-SG (GHH-Silica) | | | <250 | | ug/g | | 250 | 10-MAY-21 |
| HG-200.2-CVAA-WT | Soil | | | | | | | |
| Batch R5455045 | | | | | | | | |
| WG3531569-2 CRM | | WT-SS-2 | | | | | | |
| Mercury (Hg) | | | 115.0 | | % | | 70-130 | 10-MAY-21 |
| WG3531569-6 DUP | | WG3531569-5 | | | | | | |
| Mercury (Hg) | | | 0.0095 | 0.0115 | ug/g | 20 | 40 | 10-MAY-21 |
| WG3531569-3 LCS | | | | | | | | |
| Mercury (Hg) | | | 114.5 | | % | | 80-120 | 10-MAY-21 |
| WG3531569-1 MB | | | | | | | | |
| Mercury (Hg) | | | <0.0050 | | mg/kg | | 0.005 | 10-MAY-21 |
| MET-200.2-CCMS-WT | Soil | | | | | | | |
| Batch R5455519 | | | | | | | | |
| WG3531569-2 CRM | | WT-SS-2 | | | | | | |
| Antimony (Sb) | | | 108.0 | | % | | 70-130 | 10-MAY-21 |
| Arsenic (As) | | | 108.4 | | % | | 70-130 | 10-MAY-21 |
| Barium (Ba) | | | 112.0 | | % | | 70-130 | 10-MAY-21 |
| Beryllium (Be) | | | 105.8 | | % | | 70-130 | 10-MAY-21 |
| Boron (B) | | | 9.8 | | mg/kg | | 3.5-13.5 | 10-MAY-21 |
| Cadmium (Cd) | | | 113.3 | | % | | 70-130 | 10-MAY-21 |
| Chromium (Cr) | | | 116.3 | | % | | 70-130 | 10-MAY-21 |
| Cobalt (Co) | | | 111.6 | | % | | 70-130 | 10-MAY-21 |
| Copper (Cu) | | | 113.0 | | % | | 70-130 | 10-MAY-21 |
| Lead (Pb) | | | 109.9 | | % | | 70-130 | 10-MAY-21 |
| Molybdenum (Mo) | | | 107.1 | | % | | 70-130 | 10-MAY-21 |
| Nickel (Ni) | | | 112.4 | | % | | 70-130 | 10-MAY-21 |
| Selenium (Se) | | | 0.15 | | mg/kg | | 0-0.34 | 10-MAY-21 |
| Silver (Ag) | | | 117.7 | | % | | 70-130 | 10-MAY-21 |
| Thallium (Tl) | | | 0.084 | | mg/kg | | 0.029-0.129 | 10-MAY-21 |
| Uranium (U) | | | 103.5 | | % | | 70-130 | 10-MAY-21 |
| Vanadium (V) | | | 114.7 | | % | | 70-130 | 10-MAY-21 |
| Zinc (Zn) | | | 108.6 | | % | | 70-130 | 10-MAY-21 |
| WG3531569-6 DUP | | WG3531569-5 | | | | | | |

Quality Control Report

Workorder: L2582555

Report Date: 17-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-------------------|----------|-------------|--------|-----------|-------|--------|-----------|-----------|
| MET-200.2-CCMS-WT | Soil | | | | | | | |
| Batch | R5455519 | | | | | | | |
| WG3531569-6 | DUP | WG3531569-5 | | | | | | |
| Antimony (Sb) | | <0.10 | <0.10 | RPD-NA | ug/g | N/A | 30 | 10-MAY-21 |
| Arsenic (As) | | 2.48 | 2.56 | | ug/g | 3.2 | 30 | 10-MAY-21 |
| Barium (Ba) | | 61.6 | 66.7 | | ug/g | 7.9 | 40 | 10-MAY-21 |
| Beryllium (Be) | | 0.42 | 0.44 | | ug/g | 6.2 | 30 | 10-MAY-21 |
| Boron (B) | | 6.6 | 7.6 | | ug/g | 14 | 30 | 10-MAY-21 |
| Cadmium (Cd) | | 0.084 | 0.080 | | ug/g | 4.8 | 30 | 10-MAY-21 |
| Chromium (Cr) | | 19.5 | 20.3 | | ug/g | 4.3 | 30 | 10-MAY-21 |
| Cobalt (Co) | | 7.62 | 8.11 | | ug/g | 6.3 | 30 | 10-MAY-21 |
| Copper (Cu) | | 15.0 | 16.2 | | ug/g | 7.2 | 30 | 10-MAY-21 |
| Lead (Pb) | | 6.37 | 6.84 | | ug/g | 7.2 | 40 | 10-MAY-21 |
| Molybdenum (Mo) | | 0.39 | 0.40 | | ug/g | 2.6 | 40 | 10-MAY-21 |
| Nickel (Ni) | | 15.9 | 17.0 | | ug/g | 6.7 | 30 | 10-MAY-21 |
| Selenium (Se) | | <0.20 | <0.20 | RPD-NA | ug/g | N/A | 30 | 10-MAY-21 |
| Silver (Ag) | | <0.10 | <0.10 | RPD-NA | ug/g | N/A | 40 | 10-MAY-21 |
| Thallium (Tl) | | 0.131 | 0.139 | | ug/g | 5.8 | 30 | 10-MAY-21 |
| Uranium (U) | | 0.484 | 0.497 | | ug/g | 2.5 | 30 | 10-MAY-21 |
| Vanadium (V) | | 32.7 | 34.1 | | ug/g | 4.4 | 30 | 10-MAY-21 |
| Zinc (Zn) | | 40.6 | 42.6 | | ug/g | 4.9 | 30 | 10-MAY-21 |
| WG3531569-4 | LCS | | | | | | | |
| Antimony (Sb) | | 103.8 | | % | | 80-120 | 10-MAY-21 | |
| Arsenic (As) | | 101.1 | | % | | 80-120 | 10-MAY-21 | |
| Barium (Ba) | | 96.9 | | % | | 80-120 | 10-MAY-21 | |
| Beryllium (Be) | | 94.3 | | % | | 80-120 | 10-MAY-21 | |
| Boron (B) | | 91.6 | | % | | 80-120 | 10-MAY-21 | |
| Cadmium (Cd) | | 99.7 | | % | | 80-120 | 10-MAY-21 | |
| Chromium (Cr) | | 101.1 | | % | | 80-120 | 10-MAY-21 | |
| Cobalt (Co) | | 98.6 | | % | | 80-120 | 10-MAY-21 | |
| Copper (Cu) | | 98.1 | | % | | 80-120 | 10-MAY-21 | |
| Lead (Pb) | | 102.5 | | % | | 80-120 | 10-MAY-21 | |
| Molybdenum (Mo) | | 100.6 | | % | | 80-120 | 10-MAY-21 | |
| Nickel (Ni) | | 97.7 | | % | | 80-120 | 10-MAY-21 | |
| Selenium (Se) | | 102.9 | | % | | 80-120 | 10-MAY-21 | |
| Silver (Ag) | | 102.1 | | % | | 80-120 | 10-MAY-21 | |

Quality Control Report

Workorder: L2582555

Report Date: 17-MAY-21

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-200.2-CCMS-WT | Soil | | | | | | | |
| Batch | R5455519 | | | | | | | |
| WG3531569-4 | LCS | | | | | | | |
| Thallium (Tl) | | | 102.8 | | % | | 80-120 | 10-MAY-21 |
| Uranium (U) | | | 100.1 | | % | | 80-120 | 10-MAY-21 |
| Vanadium (V) | | | 102.2 | | % | | 80-120 | 10-MAY-21 |
| Zinc (Zn) | | | 96.7 | | % | | 80-120 | 10-MAY-21 |
| WG3531569-1 | MB | | | | | | | |
| Antimony (Sb) | | | <0.10 | | mg/kg | | 0.1 | 10-MAY-21 |
| Arsenic (As) | | | <0.10 | | mg/kg | | 0.1 | 10-MAY-21 |
| Barium (Ba) | | | <0.50 | | mg/kg | | 0.5 | 10-MAY-21 |
| Beryllium (Be) | | | <0.10 | | mg/kg | | 0.1 | 10-MAY-21 |
| Boron (B) | | | <5.0 | | mg/kg | | 5 | 10-MAY-21 |
| Cadmium (Cd) | | | <0.020 | | mg/kg | | 0.02 | 10-MAY-21 |
| Chromium (Cr) | | | <0.50 | | mg/kg | | 0.5 | 10-MAY-21 |
| Cobalt (Co) | | | <0.10 | | mg/kg | | 0.1 | 10-MAY-21 |
| Copper (Cu) | | | <0.50 | | mg/kg | | 0.5 | 10-MAY-21 |
| Lead (Pb) | | | <0.50 | | mg/kg | | 0.5 | 10-MAY-21 |
| Molybdenum (Mo) | | | <0.10 | | mg/kg | | 0.1 | 10-MAY-21 |
| Nickel (Ni) | | | <0.50 | | mg/kg | | 0.5 | 10-MAY-21 |
| Selenium (Se) | | | <0.20 | | mg/kg | | 0.2 | 10-MAY-21 |
| Silver (Ag) | | | <0.10 | | mg/kg | | 0.1 | 10-MAY-21 |
| Thallium (Tl) | | | <0.050 | | mg/kg | | 0.05 | 10-MAY-21 |
| Uranium (U) | | | <0.050 | | mg/kg | | 0.05 | 10-MAY-21 |
| Vanadium (V) | | | <0.20 | | mg/kg | | 0.2 | 10-MAY-21 |
| Zinc (Zn) | | | <2.0 | | mg/kg | | 2 | 10-MAY-21 |
| MOISTURE-WT | Soil | | | | | | | |
| Batch | R5454125 | | | | | | | |
| WG3530538-3 | DUP | L2582616-13 | | | | | | |
| % Moisture | | | 10.1 | 9.68 | % | 3.8 | 20 | 07-MAY-21 |
| WG3530538-2 | LCS | | | | | | | |
| % Moisture | | | | 99.7 | % | | 90-110 | 07-MAY-21 |
| WG3530538-1 | MB | | | | | | | |
| % Moisture | | | | <0.25 | % | | 0.25 | 07-MAY-21 |
| PAH-511-WT | Soil | | | | | | | |

Quality Control Report

Workorder: L2582555

Report Date: 17-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------|-----------------|--------------------|--------|-----------|--------|-----------|-----------|----------|
| PAH-511-WT | Soil | | | | | | | |
| Batch | R5458483 | | | | | | | |
| WG3534576-3 DUP | | WG3534576-5 | | | | | | |
| 1-Methylnaphthalene | <0.030 | <0.030 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| 2-Methylnaphthalene | <0.030 | <0.030 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Acenaphthene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Acenaphthylene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Anthracene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Benzo(a)anthracene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Benzo(a)pyrene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Benzo(b&j)fluoranthene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Benzo(g,h,i)perylene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Benzo(k)fluoranthene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Chrysene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Dibenz(a,h)anthracene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Fluoranthene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Fluorene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Indeno(1,2,3-cd)pyrene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Naphthalene | <0.013 | <0.013 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Phenanthrene | <0.046 | <0.046 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| Pyrene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 17-MAY-21 | |
| WG3534576-2 LCS | | | | | | | | |
| 1-Methylnaphthalene | 91.9 | | % | | 50-140 | 17-MAY-21 | | |
| 2-Methylnaphthalene | 89.2 | | % | | 50-140 | 17-MAY-21 | | |
| Acenaphthene | 87.6 | | % | | 50-140 | 17-MAY-21 | | |
| Acenaphthylene | 84.6 | | % | | 50-140 | 17-MAY-21 | | |
| Anthracene | 77.4 | | % | | 50-140 | 17-MAY-21 | | |
| Benzo(a)anthracene | 89.3 | | % | | 50-140 | 17-MAY-21 | | |
| Benzo(a)pyrene | 76.3 | | % | | 50-140 | 17-MAY-21 | | |
| Benzo(b&j)fluoranthene | 73.2 | | % | | 50-140 | 17-MAY-21 | | |
| Benzo(g,h,i)perylene | 86.9 | | % | | 50-140 | 17-MAY-21 | | |
| Benzo(k)fluoranthene | 105.8 | | % | | 50-140 | 17-MAY-21 | | |
| Chrysene | 85.5 | | % | | 50-140 | 17-MAY-21 | | |
| Dibenz(a,h)anthracene | 85.5 | | % | | 50-140 | 17-MAY-21 | | |
| Fluoranthene | 83.8 | | % | | 50-140 | 17-MAY-21 | | |
| Fluorene | 85.2 | | % | | 50-140 | 17-MAY-21 | | |

Quality Control Report

Workorder: L2582555

Report Date: 17-MAY-21

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| PAH-511-WT | Soil | | | | | | | |
| Batch | R5458483 | | | | | | | |
| WG3534576-2 | LCS | | | | | | | |
| Indeno(1,2,3-cd)pyrene | | | 94.4 | | % | | 50-140 | 17-MAY-21 |
| Naphthalene | | | 87.3 | | % | | 50-140 | 17-MAY-21 |
| Phenanthrene | | | 88.2 | | % | | 50-140 | 17-MAY-21 |
| Pyrene | | | 82.5 | | % | | 50-140 | 17-MAY-21 |
| WG3534576-1 | MB | | | | | | | |
| 1-Methylnaphthalene | | | <0.030 | | ug/g | | 0.03 | 17-MAY-21 |
| 2-Methylnaphthalene | | | <0.030 | | ug/g | | 0.03 | 17-MAY-21 |
| Acenaphthene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Acenaphthylene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Anthracene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Benzo(a)anthracene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Benzo(a)pyrene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Benzo(b&j)fluoranthene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Benzo(g,h,i)perylene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Benzo(k)fluoranthene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Chrysene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Dibenz(a,h)anthracene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Fluoranthene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Fluorene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Indeno(1,2,3-cd)pyrene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Naphthalene | | | <0.013 | | ug/g | | 0.013 | 17-MAY-21 |
| Phenanthrene | | | <0.046 | | ug/g | | 0.046 | 17-MAY-21 |
| Pyrene | | | <0.050 | | ug/g | | 0.05 | 17-MAY-21 |
| Surrogate: 2-Fluorobiphenyl | | | 88.7 | | % | | 50-140 | 17-MAY-21 |
| Surrogate: d14-Terphenyl | | | 91.4 | | % | | 50-140 | 17-MAY-21 |
| WG3534576-4 | MS | WG3534576-5 | | | | | | |
| 1-Methylnaphthalene | | | 90.3 | | % | | 50-140 | 17-MAY-21 |
| 2-Methylnaphthalene | | | 87.4 | | % | | 50-140 | 17-MAY-21 |
| Acenaphthene | | | 87.6 | | % | | 50-140 | 17-MAY-21 |
| Acenaphthylene | | | 83.9 | | % | | 50-140 | 17-MAY-21 |
| Anthracene | | | 78.1 | | % | | 50-140 | 17-MAY-21 |
| Benzo(a)anthracene | | | 92.8 | | % | | 50-140 | 17-MAY-21 |
| Benzo(a)pyrene | | | 78.6 | | % | | 50-140 | 17-MAY-21 |
| Benzo(b&j)fluoranthene | | | 71.7 | | % | | 50-140 | 17-MAY-21 |

Quality Control Report

Workorder: L2582555

Report Date: 17-MAY-21

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------------|--------|-------------|--------|-----------|-------|----------|--------|-----------|
| PAH-511-WT Soil | | | | | | | | |
| Batch R5458483 | | | | | | | | |
| WG3534576-4 | MS | WG3534576-5 | | | | | | |
| Benzo(g,h,i)perylene | | | 88.1 | | % | | 50-140 | 17-MAY-21 |
| Benzo(k)fluoranthene | | | 111.2 | | % | | 50-140 | 17-MAY-21 |
| Chrysene | | | 84.2 | | % | | 50-140 | 17-MAY-21 |
| Dibenz(a,h)anthracene | | | 87.9 | | % | | 50-140 | 17-MAY-21 |
| Fluoranthene | | | 84.5 | | % | | 50-140 | 17-MAY-21 |
| Fluorene | | | 86.8 | | % | | 50-140 | 17-MAY-21 |
| Indeno(1,2,3-cd)pyrene | | | 95.9 | | % | | 50-140 | 17-MAY-21 |
| Naphthalene | | | 84.2 | | % | | 50-140 | 17-MAY-21 |
| Phenanthrene | | | 86.4 | | % | | 50-140 | 17-MAY-21 |
| Pyrene | | | 83.1 | | % | | 50-140 | 17-MAY-21 |
| PH-WT Soil | | | | | | | | |
| Batch R5454316 | | | | | | | | |
| WG3530415-1 | DUP | L2582585-1 | | | | | | |
| pH | | | 7.53 | 7.30 | J | pH units | 0.23 | 0.3 |
| WG3530792-1 | LCS | | | | | | | |
| pH | | | | 6.98 | | pH units | | 6.9-7.1 |
| SAR-R511-WT Soil | | | | | | | | |
| Batch R5455280 | | | | | | | | |
| WG3531583-4 | DUP | WG3531583-3 | | | | | | |
| Calcium (Ca) | | | 114 | 109 | | mg/L | 4.5 | 30 |
| Sodium (Na) | | | 15.0 | 14.6 | | mg/L | 2.7 | 30 |
| Magnesium (Mg) | | | 13.6 | 13.0 | | mg/L | 4.5 | 30 |
| WG3531583-2 | IRM | WT SAR4 | | | | | | |
| Calcium (Ca) | | | | 90.6 | | % | | 70-130 |
| Sodium (Na) | | | | 99.1 | | % | | 70-130 |
| Magnesium (Mg) | | | | 96.6 | | % | | 70-130 |
| WG3531583-5 | LCS | | | | | | | |
| Calcium (Ca) | | | | 105.7 | | % | | 80-120 |
| Sodium (Na) | | | | 100.0 | | % | | 80-120 |
| Magnesium (Mg) | | | | 100.8 | | % | | 80-120 |
| WG3531583-1 | MB | | | | | | | |
| Calcium (Ca) | | | | <0.50 | | mg/L | 0.5 | 10-MAY-21 |
| Sodium (Na) | | | | <0.50 | | mg/L | 0.5 | 10-MAY-21 |
| Magnesium (Mg) | | | | <0.50 | | mg/L | 0.5 | 10-MAY-21 |

Quality Control Report

Workorder: L2582555

Report Date: 17-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|----------|-------------|--------|-----------|-------|-----|-----------|-----------|
| VOC-511-HS-WT | Soil | | | | | | | |
| Batch | R5456432 | | | | | | | |
| WG3528806-4 | DUP | WG3528806-3 | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| 1,1,2,2-Tetrachloroethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| 1,1,1-Trichloroethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| 1,1,2-Trichloroethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| 1,1-Dichloroethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| 1,1-Dichloroethylene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| 1,2-Dibromoethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| 1,2-Dichlorobenzene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| 1,2-Dichloroethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| 1,2-Dichloropropane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| 1,3-Dichlorobenzene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| 1,4-Dichlorobenzene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Acetone | <0.50 | <0.50 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Benzene | <0.0068 | <0.0068 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Bromodichloromethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Bromoform | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Bromomethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Carbon tetrachloride | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Chlorobenzene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Chloroform | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| cis-1,2-Dichloroethylene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| cis-1,3-Dichloropropene | <0.030 | <0.030 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Dibromochloromethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Dichlorodifluoromethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Ethylbenzene | <0.018 | <0.018 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| n-Hexane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Methylene Chloride | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| MTBE | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| m+p-Xylenes | <0.030 | <0.030 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Methyl Ethyl Ketone | <0.50 | <0.50 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Methyl Isobutyl Ketone | <0.50 | <0.50 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| o-Xylene | <0.020 | <0.020 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Styrene | <0.050 | <0.050 | | ug/g | | | | 12-MAY-21 |

Quality Control Report

Workorder: L2582555

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-------------|--------|-----------|-------|--------|-----------|----------|
| VOC-511-HS-WT | Soil | | | | | | | |
| Batch | R5456432 | | | | | | | |
| WG3528806-4 | DUP | WG3528806-3 | | | | | | |
| Styrene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Tetrachloroethylene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Toluene | <0.080 | <0.080 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| trans-1,2-Dichloroethylene | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| trans-1,3-Dichloropropene | <0.030 | <0.030 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Trichloroethylene | <0.010 | <0.010 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Trichlorofluoromethane | <0.050 | <0.050 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| Vinyl chloride | <0.020 | <0.020 | RPD-NA | ug/g | N/A | 40 | 12-MAY-21 | |
| WG3528806-2 | LCS | | | | | | | |
| 1,1,1,2-Tetrachloroethane | 108.2 | | | % | | 60-130 | 12-MAY-21 | |
| 1,1,2,2-Tetrachloroethane | 115.9 | | | % | | 60-130 | 12-MAY-21 | |
| 1,1,1-Trichloroethane | 104.6 | | | % | | 60-130 | 12-MAY-21 | |
| 1,1,2-Trichloroethane | 107.3 | | | % | | 60-130 | 12-MAY-21 | |
| 1,1-Dichloroethane | 62.1 | | | % | | 60-130 | 12-MAY-21 | |
| 1,1-Dichloroethylene | 102.8 | | | % | | 60-130 | 12-MAY-21 | |
| 1,2-Dibromoethane | 105.0 | | | % | | 70-130 | 12-MAY-21 | |
| 1,2-Dichlorobenzene | 108.8 | | | % | | 70-130 | 12-MAY-21 | |
| 1,2-Dichloroethane | 110.6 | | | % | | 60-130 | 12-MAY-21 | |
| 1,2-Dichloropropane | 106.1 | | | % | | 70-130 | 12-MAY-21 | |
| 1,3-Dichlorobenzene | 107.7 | | | % | | 70-130 | 12-MAY-21 | |
| 1,4-Dichlorobenzene | 106.9 | | | % | | 70-130 | 12-MAY-21 | |
| Acetone | 146.1 | LCS-ND | | % | | 60-140 | 12-MAY-21 | |
| Benzene | 102.3 | | | % | | 70-130 | 12-MAY-21 | |
| Bromodichloromethane | 110.2 | | | % | | 50-140 | 12-MAY-21 | |
| Bromoform | 116.4 | | | % | | 70-130 | 12-MAY-21 | |
| Bromomethane | 95.0 | | | % | | 50-140 | 12-MAY-21 | |
| Carbon tetrachloride | 106.5 | | | % | | 70-130 | 12-MAY-21 | |
| Chlorobenzene | 110.4 | | | % | | 70-130 | 12-MAY-21 | |
| Chloroform | 108.8 | | | % | | 70-130 | 12-MAY-21 | |
| cis-1,2-Dichloroethylene | 107.4 | | | % | | 70-130 | 12-MAY-21 | |
| cis-1,3-Dichloropropene | 96.5 | | | % | | 70-130 | 12-MAY-21 | |
| Dibromochloromethane | 104.2 | | | % | | 60-130 | 12-MAY-21 | |
| Dichlorodifluoromethane | 72.3 | | | % | | 50-140 | 12-MAY-21 | |

Quality Control Report

Workorder: L2582555

Report Date: 17-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|-----------|---------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Soil | | | | | | | |
| Batch | R5456432 | | | | | | | |
| WG3528806-2 | LCS | | | | | | | |
| Ethylbenzene | | | 101.6 | | % | | 70-130 | 12-MAY-21 |
| n-Hexane | | | 95.2 | | % | | 70-130 | 12-MAY-21 |
| Methylene Chloride | | | 109.0 | | % | | 70-130 | 12-MAY-21 |
| MTBE | | | 102.4 | | % | | 70-130 | 12-MAY-21 |
| m+p-Xylenes | | | 109.1 | | % | | 70-130 | 12-MAY-21 |
| Methyl Ethyl Ketone | | | 138.6 | | % | | 60-140 | 12-MAY-21 |
| Methyl Isobutyl Ketone | | | 112.4 | | % | | 60-140 | 12-MAY-21 |
| o-Xylene | | | 111.4 | | % | | 70-130 | 12-MAY-21 |
| Styrene | | | 108.3 | | % | | 70-130 | 12-MAY-21 |
| Tetrachloroethylene | | | 97.8 | | % | | 60-130 | 12-MAY-21 |
| Toluene | | | 103.3 | | % | | 70-130 | 12-MAY-21 |
| trans-1,2-Dichloroethylene | | | 106.0 | | % | | 60-130 | 12-MAY-21 |
| trans-1,3-Dichloropropene | | | 103.5 | | % | | 70-130 | 12-MAY-21 |
| Trichloroethylene | | | 105.9 | | % | | 60-130 | 12-MAY-21 |
| Trichlorofluoromethane | | | 101.7 | | % | | 50-140 | 12-MAY-21 |
| Vinyl chloride | | | 95.0 | | % | | 60-140 | 12-MAY-21 |
| WG3528806-1 | MB | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| 1,1,2,2-Tetrachloroethane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| 1,1,1-Trichloroethane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| 1,1,2-Trichloroethane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| 1,1-Dichloroethane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| 1,1-Dichloroethylene | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| 1,2-Dibromoethane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| 1,2-Dichlorobenzene | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| 1,2-Dichloroethane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| 1,2-Dichloropropane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| 1,3-Dichlorobenzene | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| 1,4-Dichlorobenzene | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| Acetone | | | <0.50 | | ug/g | | 0.5 | 12-MAY-21 |
| Benzene | | | <0.0068 | | ug/g | | 0.0068 | 12-MAY-21 |
| Bromodichloromethane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| Bromoform | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| Bromomethane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |

Quality Control Report

Workorder: L2582555

Report Date: 17-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|----------|-------------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Soil | | | | | | | |
| Batch | R5456432 | | | | | | | |
| WG3528806-1 | MB | | | | | | | |
| Carbon tetrachloride | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| Chlorobenzene | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| Chloroform | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| cis-1,2-Dichloroethylene | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| cis-1,3-Dichloropropene | | | <0.030 | | ug/g | | 0.03 | 12-MAY-21 |
| Dibromochloromethane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| Dichlorodifluoromethane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| Ethylbenzene | | | <0.018 | | ug/g | | 0.018 | 12-MAY-21 |
| n-Hexane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| Methylene Chloride | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| MTBE | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| m+p-Xylenes | | | <0.030 | | ug/g | | 0.03 | 12-MAY-21 |
| Methyl Ethyl Ketone | | | <0.50 | | ug/g | | 0.5 | 12-MAY-21 |
| Methyl Isobutyl Ketone | | | <0.50 | | ug/g | | 0.5 | 12-MAY-21 |
| o-Xylene | | | <0.020 | | ug/g | | 0.02 | 12-MAY-21 |
| Styrene | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| Tetrachloroethylene | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| Toluene | | | <0.080 | | ug/g | | 0.08 | 12-MAY-21 |
| trans-1,2-Dichloroethylene | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| trans-1,3-Dichloropropene | | | <0.030 | | ug/g | | 0.03 | 12-MAY-21 |
| Trichloroethylene | | | <0.010 | | ug/g | | 0.01 | 12-MAY-21 |
| Trichlorofluoromethane | | | <0.050 | | ug/g | | 0.05 | 12-MAY-21 |
| Vinyl chloride | | | <0.020 | | ug/g | | 0.02 | 12-MAY-21 |
| Surrogate: 1,4-Difluorobenzene | | | 121.9 | | % | | 50-140 | 12-MAY-21 |
| Surrogate: 4-Bromofluorobenzene | | | 101.1 | | % | | 50-140 | 12-MAY-21 |
| WG3528806-5 | MS | WG3528806-3 | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | 116.5 | | % | | 50-140 | 12-MAY-21 |
| 1,1,2,2-Tetrachloroethane | | | 129.0 | | % | | 50-140 | 12-MAY-21 |
| 1,1,1-Trichloroethane | | | 113.1 | | % | | 50-140 | 12-MAY-21 |
| 1,1,2-Trichloroethane | | | 121.1 | | % | | 50-140 | 12-MAY-21 |
| 1,1-Dichloroethane | | | 113.0 | | % | | 50-140 | 12-MAY-21 |
| 1,1-Dichloroethylene | | | 115.5 | | % | | 50-140 | 12-MAY-21 |
| 1,2-Dibromoethane | | | 120.9 | | % | | 50-140 | 12-MAY-21 |
| 1,2-Dichlorobenzene | | | 116.9 | | % | | 50-140 | 12-MAY-21 |

Quality Control Report

Workorder: L2582555

Report Date: 17-MAY-21

Page 13 of 14

Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-------------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Soil | | | | | | | |
| Batch | R5456432 | | | | | | | |
| WG3528806-5 | MS | WG3528806-3 | | | | | | |
| 1,2-Dichloroethane | | | 129.4 | | % | | 50-140 | 12-MAY-21 |
| 1,2-Dichloropropane | | | 117.6 | | % | | 50-140 | 12-MAY-21 |
| 1,3-Dichlorobenzene | | | 112.8 | | % | | 50-140 | 12-MAY-21 |
| 1,4-Dichlorobenzene | | | 112.1 | | % | | 50-140 | 12-MAY-21 |
| Acetone | | | 167.5 | RRQC | % | | 50-140 | 12-MAY-21 |
| Benzene | | | 112.5 | | % | | 50-140 | 12-MAY-21 |
| Bromodichloromethane | | | 123.4 | | % | | 50-140 | 12-MAY-21 |
| Bromoform | | | 130.9 | | % | | 50-140 | 12-MAY-21 |
| Bromomethane | | | 115.0 | | % | | 50-140 | 12-MAY-21 |
| Carbon tetrachloride | | | 115.5 | | % | | 50-140 | 12-MAY-21 |
| Chlorobenzene | | | 118.5 | | % | | 50-140 | 12-MAY-21 |
| Chloroform | | | 120.2 | | % | | 50-140 | 12-MAY-21 |
| cis-1,2-Dichloroethylene | | | 118.5 | | % | | 50-140 | 12-MAY-21 |
| cis-1,3-Dichloropropene | | | 113.0 | | % | | 50-140 | 12-MAY-21 |
| Dibromochloromethane | | | 116.2 | | % | | 50-140 | 12-MAY-21 |
| Dichlorodifluoromethane | | | 108.5 | | % | | 50-140 | 12-MAY-21 |
| Ethylbenzene | | | 107.4 | | % | | 50-140 | 12-MAY-21 |
| n-Hexane | | | 110.3 | | % | | 50-140 | 12-MAY-21 |
| Methylene Chloride | | | 125.5 | | % | | 50-140 | 12-MAY-21 |
| MTBE | | | 112.5 | | % | | 50-140 | 12-MAY-21 |
| m+p-Xylenes | | | 114.2 | | % | | 50-140 | 12-MAY-21 |
| Methyl Ethyl Ketone | | | 148.7 | MES | % | | 50-140 | 12-MAY-21 |
| Methyl Isobutyl Ketone | | | 122.3 | | % | | 50-140 | 12-MAY-21 |
| o-Xylene | | | 118.8 | | % | | 50-140 | 12-MAY-21 |
| Styrene | | | 116.9 | | % | | 50-140 | 12-MAY-21 |
| Tetrachloroethylene | | | 102.1 | | % | | 50-140 | 12-MAY-21 |
| Toluene | | | 111.3 | | % | | 50-140 | 12-MAY-21 |
| trans-1,2-Dichloroethylene | | | 115.3 | | % | | 50-140 | 12-MAY-21 |
| trans-1,3-Dichloropropene | | | 116.2 | | % | | 50-140 | 12-MAY-21 |
| Trichloroethylene | | | 112.5 | | % | | 50-140 | 12-MAY-21 |
| Trichlorofluoromethane | | | 115.7 | | % | | 50-140 | 12-MAY-21 |
| Vinyl chloride | | | 114.4 | | % | | 50-140 | 12-MAY-21 |

COMMENTS: RRQC - Acetone recovery in the matrix spike exceeds ALS DQO. Non-detected samples are considered reliable.

Quality Control Report

Workorder: L2582555

Report Date: 17-MAY-21

Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4
Contact: KEITH CLARKE

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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 |
|-----------|---|
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| LCS-ND | Lab Control Sample recovery was slightly outside ALS DQO. Reported non-detect results for associated samples were unaffected. |
| MES | Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME). |
| 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. |

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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.

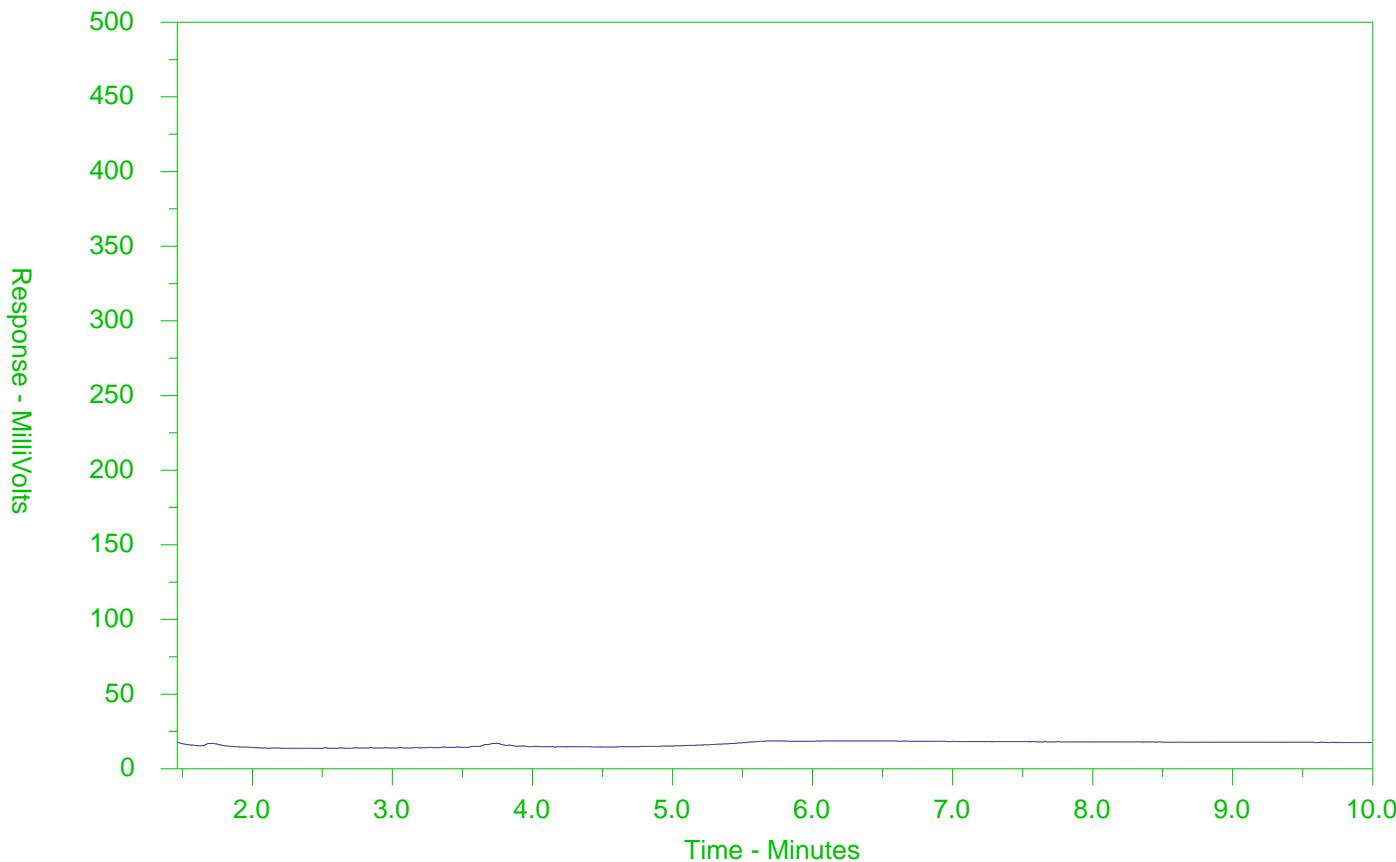
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide 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: L2582555-2
Client Sample ID: MW21-11 SS7



| 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.

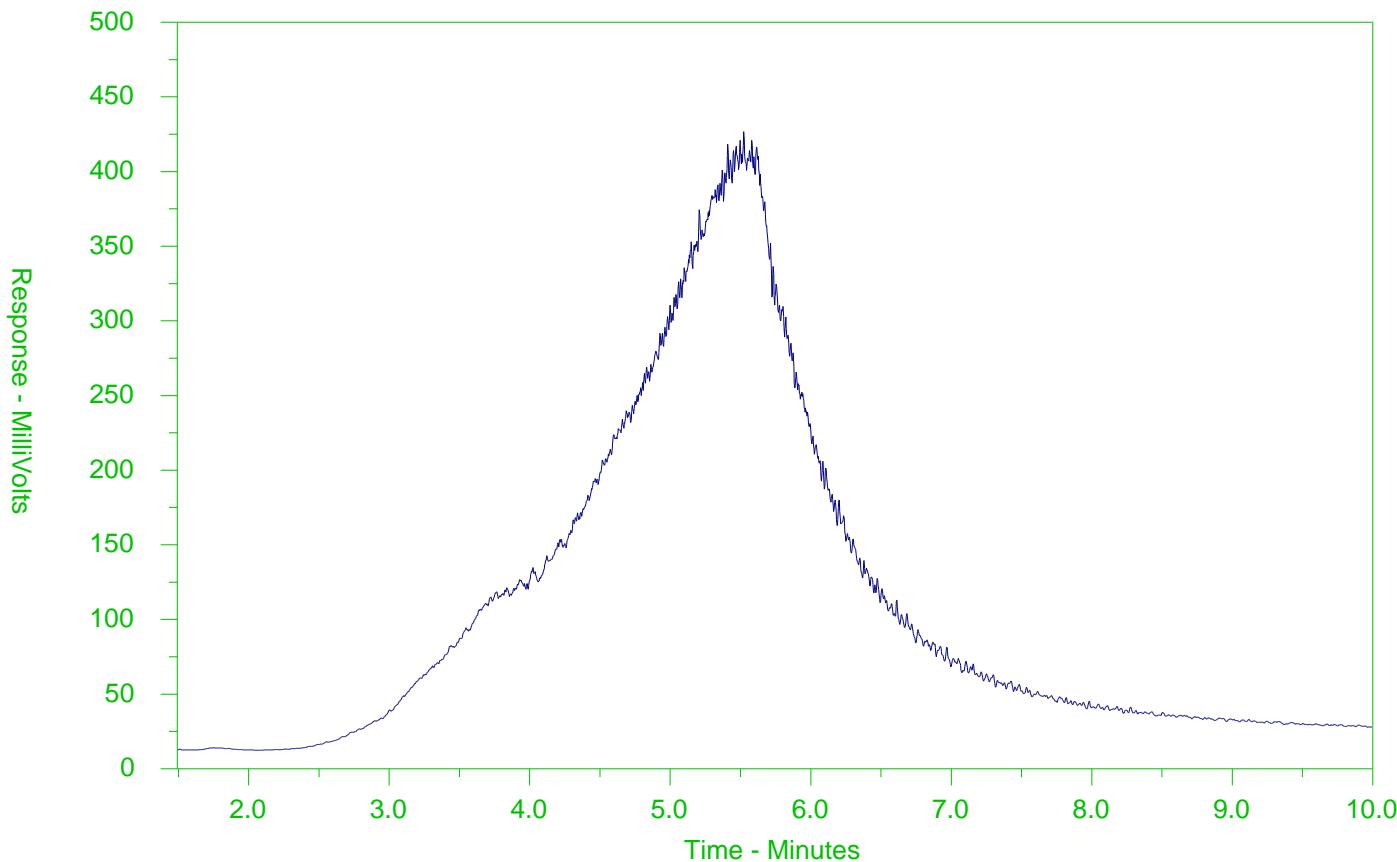
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2582555-3
Client Sample ID: BH21-12 SS1



| 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.



Chain of Custody (COC) / Analytical
Request Form

Canada Toll Free: 1 800 668 9878



COC Number: 17-639655

Page 1 of 1

L2582555-COFC

| | | | | | | | | | | | | |
|--|---|--|---|--|--|---|---|---|-------------------------|------------------------------|--|----------------------|
| Report To | | Contact and company name below will appear on the final report | | Report Format / Distribution | | Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply) | | | | | | |
| Company: | OS Coopers Inc. | | Select Report Format: | <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL) | Regular [R] <input checked="" type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply | | | | | | | |
| Contact: | Keith Clarke | | Quality Control (QC) Report with Report | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | PRIORITY (Business Days) | 4 day [P4-20%] | <input type="checkbox"/> | EMERGENCY | 1 Business day [E-100%] | | | |
| Phone: | | | <input checked="" type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked | Same Day, Weekend or Statutory holiday [E2-200%] (Laboratory opening fees may apply) | | | | | | | | |
| Company address below will appear on the final report | | | | Select Distribution: | <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX | Data and Time Required for all E&P TATs: | | | | | | |
| Street: | | | Email 1 or Fax: | For tests that can not be performed according to the service level selected, you will be contacted. | | | | | | | | |
| City/Province: | | | Email 2 | Analysis Request | | | | | | | | |
| Postal Code: | | | Email 3 | Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below | | | | | | | | |
| Invoice To | Same as Report To <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | Invoice Distribution | | | | | | | | | |
| | Copy of Invoice with Report <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | Select Invoice Distribution: | <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX | | | | | | | | |
| Company: | | | Email 1 or Fax: | | | | | | | | | |
| Contact: | | | Email 2 | | | | | | | | | |
| Project Information | | | | | | | | ALS Lab Work Order # (lab use only): L0082855 | | SAMPLES ON HOLD | | |
| ALS Account # / Quote #: | | | AFE/Cost Center: | PO# | | | | | | | | |
| Job #: | 21-129-300 AP | | Major/Minor Code: | Routing Code: | | | | | | | | |
| PO / AFE: | | | Requisitioner: | | | | | | | | | |
| LSD: | | | Location: | | | | | | | | | |
| ALS Sample # (lab use only) | Sample Identification and/or Coordinates (This description will appear on the report) | | Date (dd-mmm-yy) | Time (hh:mm) | Sample Type | | | | | | | NUMBER OF CONTAINERS |
| | ██████████ MW 21-11 SS1 | | 29-AUG-21 | 5 | ✓ | | | | | | | 1 |
| | ██████████ MW 21-11 SS7 | | | ↓ | ✓ | | | | | | | 3 |
| | ██████████ BH 21-12 SS1 | | | ↓ | ✓ | | | | | | | 1 |
| | ██████████ BH 21-12 SS2 | | | | ✓ | | | | | | | |
| Drinking Water (DW) Samples ¹ (client use) | | | Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only) | | | SAMPLE CONDITION AS RECEIVED (lab use only) | | | | | | |
| Are samples taken from a Regulated DW System? | | | | | | Frozen <input type="checkbox"/> | SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/> | | | | | |
| <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | | | Ice Packs <input type="checkbox"/> Ice Cubes <input checked="" type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/> | | | | | | |
| Are samples for human consumption/ use? | | | | | | Cooling Initiated <input type="checkbox"/> | INITIAL COOLER TEMPERATURES °C | | | FINAL COOLER TEMPERATURES °C | | |
| <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | | | | 13 | | | 13 | | |
| SHIPMENT RELEASE (client use) | | | | INITIAL SHIPMENT RECEIPTION (lab use only) | | | FINAL SHIPMENT RECEIPTION (lab use only) | | | | | |
| Released by: Keith Clarke | Date: Apr 30, 2021 | Time: 4pm | Received by: | Date: | Time: | Received by: SP | Date: Apr 30, 2021 | Time: 1030 | | | | |

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



GROUNDWATER



DS Consultants (Vaughan)
ATTN: KEITH CLARK
6221 Highway 7
Unit 16
Vaughan ON L4H 0K8

Date Received: 21-APR-21
Report Date: 28-APR-21 12:31 (MT)
Version: FINAL

Client Phone: 905-264-9393

Certificate of Analysis

Lab Work Order #: L2579308
Project P.O. #: NOT SUBMITTED
Job Reference: 21-129-300
C of C Numbers: 20-894372
Legal Site Desc:



Emily Hansen
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 5730 Coopers Avenue, Unit #26 , Mississauga, ON L4Z 2E9 Canada | Phone: +1 905 507 6910 | Fax: +1 905 507 6927
ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

| Sample Details/Parameters | Result | Qualifier* | D.L. | Units | Extracted | Analyzed | Batch |
|---|---------|------------|--------|----------|-----------|-----------|----------|
| L2579308-1 MW21-1 Sampled By: CLIENT on 21-APR-21 Matrix: WATER | | | | | | | |
| Physical Tests | | | | | | | |
| Conductivity | 0.902 | | 0.0030 | mS/cm | | 24-APR-21 | R5441399 |
| pH | 7.29 | | 0.10 | pH units | | 24-APR-21 | R5441399 |
| Anions and Nutrients | | | | | | | |
| Chloride (Cl) | 9.42 | | 0.50 | mg/L | | 26-APR-21 | R5441939 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <2.0 | | 2.0 | ug/L | | 23-APR-21 | R5440560 |
| Dissolved Metals | | | | | | | |
| Dissolved Mercury Filtration Location | FIELD | | | | | 23-APR-21 | R5440102 |
| Dissolved Metals Filtration Location | FIELD | | | | | 23-APR-21 | R5439480 |
| Antimony (Sb)-Dissolved | 0.10 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Arsenic (As)-Dissolved | 0.48 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Barium (Ba)-Dissolved | 65.7 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Beryllium (Be)-Dissolved | <0.10 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Boron (B)-Dissolved | 55 | | 10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Cadmium (Cd)-Dissolved | 0.013 | | 0.010 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Chromium (Cr)-Dissolved | <0.50 | | 0.50 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Cobalt (Co)-Dissolved | 0.22 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Copper (Cu)-Dissolved | 1.30 | | 0.20 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Lead (Pb)-Dissolved | 0.089 | | 0.050 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Mercury (Hg)-Dissolved | <0.0050 | | 0.0050 | ug/L | 23-APR-21 | 26-APR-21 | R5441237 |
| Molybdenum (Mo)-Dissolved | 1.47 | | 0.050 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Nickel (Ni)-Dissolved | 1.21 | | 0.50 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Selenium (Se)-Dissolved | 0.514 | | 0.050 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Silver (Ag)-Dissolved | <0.050 | | 0.050 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Sodium (Na)-Dissolved | 22500 | | 500 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Thallium (Tl)-Dissolved | 0.022 | | 0.010 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Uranium (U)-Dissolved | 0.966 | | 0.010 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Vanadium (V)-Dissolved | 0.84 | | 0.50 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Zinc (Zn)-Dissolved | 3.5 | | 1.0 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Speciated Metals | | | | | | | |
| Chromium, Hexavalent | <0.50 | | 0.50 | ug/L | | 23-APR-21 | R5441277 |
| Volatile Organic Compounds | | | | | | | |
| Acetone | <30 | | 30 | ug/L | | 26-APR-21 | R5441102 |
| Benzene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| Bromodichloromethane | <2.0 | | 2.0 | ug/L | | 26-APR-21 | R5441102 |
| Bromoform | <5.0 | | 5.0 | ug/L | | 26-APR-21 | R5441102 |
| Bromomethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| Carbon tetrachloride | <0.20 | | 0.20 | ug/L | | 26-APR-21 | R5441102 |
| Chlorobenzene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| Dibromochloromethane | <2.0 | | 2.0 | ug/L | | 26-APR-21 | R5441102 |
| Chloroform | <1.0 | | 1.0 | ug/L | | 26-APR-21 | R5441102 |
| 1,2-Dibromoethane | <0.20 | | 0.20 | ug/L | | 26-APR-21 | R5441102 |

* 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 |
|-----------------------------------|--------|------------|--------|-------|-----------|-----------|----------|
| L2579308-1 MW21-1 | | | | | | | |
| Sampled By: CLIENT on 21-APR-21 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Volatile Organic Compounds | | | | | | | |
| 1,2-Dichlorobenzene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| 1,3-Dichlorobenzene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| 1,4-Dichlorobenzene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| Dichlorodifluoromethane | <2.0 | | 2.0 | ug/L | | 26-APR-21 | R5441102 |
| 1,1-Dichloroethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| 1,2-Dichloroethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| 1,1-Dichloroethylene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| cis-1,2-Dichloroethylene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| trans-1,2-Dichloroethylene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| Methylene Chloride | <5.0 | | 5.0 | ug/L | | 26-APR-21 | R5441102 |
| 1,2-Dichloropropane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| cis-1,3-Dichloropropene | <0.30 | | 0.30 | ug/L | | 26-APR-21 | R5441102 |
| trans-1,3-Dichloropropene | <0.30 | | 0.30 | ug/L | | 26-APR-21 | R5441102 |
| 1,3-Dichloropropene (cis & trans) | <0.50 | | 0.50 | ug/L | | 26-APR-21 | |
| Ethylbenzene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| n-Hexane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| Methyl Ethyl Ketone | <20 | | 20 | ug/L | | 26-APR-21 | R5441102 |
| Methyl Isobutyl Ketone | <20 | | 20 | ug/L | | 26-APR-21 | R5441102 |
| MTBE | <2.0 | | 2.0 | ug/L | | 26-APR-21 | R5441102 |
| Styrene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| 1,1,1,2-Tetrachloroethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| 1,1,2,2-Tetrachloroethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| Tetrachloroethylene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| Toluene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| 1,1,1-Trichloroethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| 1,1,2-Trichloroethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| Trichloroethylene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| Trichlorofluoromethane | <5.0 | | 5.0 | ug/L | | 26-APR-21 | R5441102 |
| Vinyl chloride | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441102 |
| o-Xylene | <0.30 | | 0.30 | ug/L | | 26-APR-21 | R5441102 |
| m+p-Xylenes | <0.40 | | 0.40 | ug/L | | 26-APR-21 | R5441102 |
| Xylenes (Total) | <0.50 | | 0.50 | ug/L | | 26-APR-21 | |
| Surrogate: 4-Bromofluorobenzene | 92.6 | | 70-130 | % | | 26-APR-21 | R5441102 |
| Surrogate: 1,4-Difluorobenzene | 100.8 | | 70-130 | % | | 26-APR-21 | R5441102 |
| Hydrocarbons | | | | | | | |
| F1 (C6-C10) | <25 | | 25 | ug/L | | 26-APR-21 | R5441102 |
| F1-BTEX | <25 | | 25 | ug/L | | 28-APR-21 | |
| F2 (C10-C16) | <100 | | 100 | ug/L | 23-APR-21 | 26-APR-21 | R5441107 |
| F2-Naphth | <100 | | 100 | ug/L | | 28-APR-21 | |
| F3 (C16-C34) | <250 | | 250 | ug/L | 23-APR-21 | 26-APR-21 | R5441107 |
| F3-PAH | <250 | | 250 | ug/L | | 28-APR-21 | |

* 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 |
|---|---------------------|--------|------------|--------|----------|-----------|-----------|----------|
| L2579308-1 | MW21-1 | | | | | | | |
| Sampled By: | CLIENT on 21-APR-21 | | | | | | | |
| Matrix: | WATER | | | | | | | |
| Hydrocarbons | | | | | | | | |
| F4 (C34-C50) | | <250 | | 250 | ug/L | 23-APR-21 | 26-APR-21 | R5441107 |
| Total Hydrocarbons (C6-C50) | | <370 | | 370 | ug/L | | 28-APR-21 | |
| Chrom. to baseline at nC50 | | YES | | | | 23-APR-21 | 26-APR-21 | R5441107 |
| Surrogate: 2-Bromobenzotrifluoride | | 86.0 | | 60-140 | % | 23-APR-21 | 26-APR-21 | R5441107 |
| Surrogate: 3,4-Dichlorotoluene | | 100.6 | | 60-140 | % | | 26-APR-21 | R5441102 |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | |
| Acenaphthene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Acenaphthylene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Anthracene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(a)anthracene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(a)pyrene | | <0.010 | | 0.010 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(b&j)fluoranthene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(g,h,i)perylene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(k)fluoranthene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Chrysene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Dibenz(a,h)anthracene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Fluoranthene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Fluorene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Indeno(1,2,3-cd)pyrene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| 1+2-Methylnaphthalenes | | <0.028 | | 0.028 | ug/L | | 28-APR-21 | |
| 1-Methylnaphthalene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| 2-Methylnaphthalene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Naphthalene | | <0.050 | | 0.050 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Phenanthrene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Pyrene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Surrogate: Chrysene d12 | | 99.9 | | 50-150 | % | 23-APR-21 | 28-APR-21 | R5441303 |
| Surrogate: Naphthalene d8 | | 94.5 | | 60-140 | % | 23-APR-21 | 28-APR-21 | R5441303 |
| Surrogate: Phenanthrene d10 | | 98.4 | | 60-140 | % | 23-APR-21 | 28-APR-21 | R5441303 |
| L2579308-2 | MW20-24 | | | | | | | |
| Sampled By: | CLIENT on 21-APR-21 | | | | | | | |
| Matrix: | WATER | | | | | | | |
| Physical Tests | | | | | | | | |
| Conductivity | | 0.915 | | 0.0030 | mS/cm | | 24-APR-21 | R5441399 |
| pH | | 7.39 | | 0.10 | pH units | | 24-APR-21 | R5441399 |
| Anions and Nutrients | | | | | | | | |
| Chloride (Cl) | | 9.49 | | 0.50 | mg/L | | 26-APR-21 | R5441939 |
| Cyanides | | | | | | | | |
| Cyanide, Weak Acid Diss | | <2.0 | | 2.0 | ug/L | | 23-APR-21 | R5440560 |
| Dissolved Metals | | | | | | | | |
| Dissolved Mercury Filtration Location | | FIELD | | | | | 23-APR-21 | R5440102 |
| Dissolved Metals Filtration Location | | FIELD | | | | | 23-APR-21 | R5439480 |
| Antimony (Sb)-Dissolved | | 0.10 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |

* 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 |
|-----------------------------------|---------|------------|--------|-------|-----------|-----------|----------|
| L2579308-2 MW20-24 | | | | | | | |
| Sampled By: CLIENT on 21-APR-21 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals | | | | | | | |
| Arsenic (As)-Dissolved | 0.45 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Barium (Ba)-Dissolved | 65.9 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Beryllium (Be)-Dissolved | <0.10 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Boron (B)-Dissolved | 54 | | 10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Cadmium (Cd)-Dissolved | 0.015 | | 0.010 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Chromium (Cr)-Dissolved | <0.50 | | 0.50 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Cobalt (Co)-Dissolved | 0.21 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Copper (Cu)-Dissolved | 1.23 | | 0.20 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Lead (Pb)-Dissolved | 0.090 | | 0.050 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Mercury (Hg)-Dissolved | <0.0050 | | 0.0050 | ug/L | 23-APR-21 | 26-APR-21 | R5441237 |
| Molybdenum (Mo)-Dissolved | 1.46 | | 0.050 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Nickel (Ni)-Dissolved | 1.15 | | 0.50 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Selenium (Se)-Dissolved | 0.518 | | 0.050 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Silver (Ag)-Dissolved | <0.050 | | 0.050 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Sodium (Na)-Dissolved | 22000 | | 500 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Thallium (Tl)-Dissolved | 0.021 | | 0.010 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Uranium (U)-Dissolved | 0.977 | | 0.010 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Vanadium (V)-Dissolved | 0.84 | | 0.50 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Zinc (Zn)-Dissolved | 3.4 | | 1.0 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Speciated Metals | | | | | | | |
| Chromium, Hexavalent | <0.50 | | 0.50 | ug/L | | 23-APR-21 | R5441277 |
| Volatile Organic Compounds | | | | | | | |
| Acetone | <30 | | 30 | ug/L | | 26-APR-21 | R5441142 |
| Benzene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Bromodichloromethane | <2.0 | | 2.0 | ug/L | | 26-APR-21 | R5441142 |
| Bromoform | <5.0 | | 5.0 | ug/L | | 26-APR-21 | R5441142 |
| Bromomethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Carbon tetrachloride | <0.20 | | 0.20 | ug/L | | 26-APR-21 | R5441142 |
| Chlorobenzene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Dibromochloromethane | <2.0 | | 2.0 | ug/L | | 26-APR-21 | R5441142 |
| Chloroform | <1.0 | | 1.0 | ug/L | | 26-APR-21 | R5441142 |
| 1,2-Dibromoethane | <0.20 | | 0.20 | ug/L | | 26-APR-21 | R5441142 |
| 1,2-Dichlorobenzene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,3-Dichlorobenzene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,4-Dichlorobenzene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Dichlorodifluoromethane | <2.0 | | 2.0 | ug/L | | 26-APR-21 | R5441142 |
| 1,1-Dichloroethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,2-Dichloroethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,1-Dichloroethylene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| cis-1,2-Dichloroethylene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| trans-1,2-Dichloroethylene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |

* 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 |
|---|--------|------------|--------|-------|-----------|-----------|----------|
| L2579308-2 MW20-24 | | | | | | | |
| Sampled By: CLIENT on 21-APR-21 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Volatile Organic Compounds | | | | | | | |
| Methylene Chloride | <5.0 | | 5.0 | ug/L | | 26-APR-21 | R5441142 |
| 1,2-Dichloropropane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| cis-1,3-Dichloropropene | <0.30 | | 0.30 | ug/L | | 26-APR-21 | R5441142 |
| trans-1,3-Dichloropropene | <0.30 | | 0.30 | ug/L | | 26-APR-21 | R5441142 |
| 1,3-Dichloropropene (cis & trans) | <0.50 | | 0.50 | ug/L | | 26-APR-21 | |
| Ethylbenzene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| n-Hexane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Methyl Ethyl Ketone | <20 | | 20 | ug/L | | 26-APR-21 | R5441142 |
| Methyl Isobutyl Ketone | <20 | | 20 | ug/L | | 26-APR-21 | R5441142 |
| MTBE | <2.0 | | 2.0 | ug/L | | 26-APR-21 | R5441142 |
| Styrene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,1,1,2-Tetrachloroethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,1,2,2-Tetrachloroethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Tetrachloroethylene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Toluene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,1,1-Trichloroethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,1,2-Trichloroethane | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Trichloroethylene | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Trichlorofluoromethane | <5.0 | | 5.0 | ug/L | | 26-APR-21 | R5441142 |
| Vinyl chloride | <0.50 | | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| o-Xylene | <0.30 | | 0.30 | ug/L | | 26-APR-21 | R5441142 |
| m+p-Xylenes | <0.40 | | 0.40 | ug/L | | 26-APR-21 | R5441142 |
| Xylenes (Total) | <0.50 | | 0.50 | ug/L | | 26-APR-21 | |
| Surrogate: 4-Bromofluorobenzene | 79.7 | | 70-130 | % | | 26-APR-21 | R5441142 |
| Surrogate: 1,4-Difluorobenzene | 97.3 | | 70-130 | % | | 26-APR-21 | R5441142 |
| Hydrocarbons | | | | | | | |
| F1 (C6-C10) | <25 | | 25 | ug/L | | 26-APR-21 | R5441142 |
| F1-BTEX | <25 | | 25 | ug/L | | 28-APR-21 | |
| F2 (C10-C16) | <100 | | 100 | ug/L | 23-APR-21 | 26-APR-21 | R5441107 |
| F2-Naphth | <100 | | 100 | ug/L | | 28-APR-21 | |
| F3 (C16-C34) | <250 | | 250 | ug/L | 23-APR-21 | 26-APR-21 | R5441107 |
| F3-PAH | <250 | | 250 | ug/L | | 28-APR-21 | |
| F4 (C34-C50) | <250 | | 250 | ug/L | 23-APR-21 | 26-APR-21 | R5441107 |
| Total Hydrocarbons (C6-C50) | <370 | | 370 | ug/L | | 28-APR-21 | |
| Chrom. to baseline at nC50 | YES | | | | 23-APR-21 | 26-APR-21 | R5441107 |
| Surrogate: 2-Bromobenzotrifluoride | 92.6 | | 60-140 | % | 23-APR-21 | 26-APR-21 | R5441107 |
| Surrogate: 3,4-Dichlorotoluene | 69.9 | | 60-140 | % | | 26-APR-21 | R5441142 |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Acenaphthene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Acenaphthylene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Anthracene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |

* 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 |
|--|--------|------------|--------|----------|-----------|-----------|----------|
| L2579308-2 MW20-24 Sampled By: CLIENT on 21-APR-21 Matrix: WATER | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Benzo(a)anthracene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(a)pyrene | <0.010 | | 0.010 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(b&j)fluoranthene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(g,h,i)perylene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(k)fluoranthene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Chrysene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Dibenz(a,h)anthracene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Fluoranthene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Fluorene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Indeno(1,2,3-cd)pyrene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| 1+2-Methylnaphthalenes | <0.028 | | 0.028 | ug/L | | 28-APR-21 | |
| 1-Methylnaphthalene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| 2-Methylnaphthalene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Naphthalene | <0.050 | | 0.050 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Phenanthrene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Pyrene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Surrogate: Chrysene d12 | 106.6 | | 50-150 | % | 23-APR-21 | 28-APR-21 | R5441303 |
| Surrogate: Naphthalene d8 | 104.0 | | 60-140 | % | 23-APR-21 | 28-APR-21 | R5441303 |
| Surrogate: Phenanthrene d10 | 105.3 | | 60-140 | % | 23-APR-21 | 28-APR-21 | R5441303 |
| L2579308-3 MW10 Sampled By: CLIENT on 21-APR-21 Matrix: WATER | | | | | | | |
| Physical Tests | | | | | | | |
| Conductivity | 1.15 | | 0.0030 | mS/cm | | 24-APR-21 | R5441399 |
| pH | 7.39 | | 0.10 | pH units | | 24-APR-21 | R5441399 |
| Anions and Nutrients | | | | | | | |
| Chloride (Cl) | 26.8 | DLHC | 2.5 | mg/L | | 26-APR-21 | R5441939 |
| Cyanides | | | | | | | |
| Cyanide, Weak Acid Diss | <2.0 | | 2.0 | ug/L | | 23-APR-21 | R5440560 |
| Dissolved Metals | | | | | | | |
| Dissolved Mercury Filtration Location | FIELD | | | | | 23-APR-21 | R5440102 |
| Dissolved Metals Filtration Location | FIELD | | | | | 23-APR-21 | R5439480 |
| Antimony (Sb)-Dissolved | <0.10 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Arsenic (As)-Dissolved | 0.30 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Barium (Ba)-Dissolved | 114 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Beryllium (Be)-Dissolved | <0.10 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Boron (B)-Dissolved | 46 | | 10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Cadmium (Cd)-Dissolved | 0.041 | | 0.010 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Chromium (Cr)-Dissolved | <0.50 | | 0.50 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Cobalt (Co)-Dissolved | 0.22 | | 0.10 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Copper (Cu)-Dissolved | 2.79 | | 0.20 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Lead (Pb)-Dissolved | 0.318 | | 0.050 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |

* 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 |
|-----------------------------------|---------|------------|--------|-------|-----------|-----------|----------|
| L2579308-3 MW10 | | | | | | | |
| Sampled By: CLIENT on 21-APR-21 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Dissolved Metals | | | | | | | |
| Mercury (Hg)-Dissolved | <0.0050 | | 0.0050 | ug/L | 23-APR-21 | 26-APR-21 | R5441237 |
| Molybdenum (Mo)-Dissolved | 0.718 | | 0.050 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Nickel (Ni)-Dissolved | 1.45 | | 0.50 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Selenium (Se)-Dissolved | 0.204 | | 0.050 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Silver (Ag)-Dissolved | <0.050 | | 0.050 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Sodium (Na)-Dissolved | 7520 | | 500 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Thallium (Tl)-Dissolved | 0.026 | | 0.010 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Uranium (U)-Dissolved | 1.07 | | 0.010 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Vanadium (V)-Dissolved | <0.50 | | 0.50 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Zinc (Zn)-Dissolved | 9.3 | | 1.0 | ug/L | 23-APR-21 | 26-APR-21 | R5440992 |
| Speciated Metals | | | | | | | |
| Chromium, Hexavalent | <0.50 | | 0.50 | ug/L | | 23-APR-21 | R5441277 |
| Volatile Organic Compounds | | | | | | | |
| Acetone | <30 | OWP | 30 | ug/L | | 26-APR-21 | R5441142 |
| Benzene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Bromodichloromethane | <2.0 | OWP | 2.0 | ug/L | | 26-APR-21 | R5441142 |
| Bromoform | <5.0 | OWP | 5.0 | ug/L | | 26-APR-21 | R5441142 |
| Bromomethane | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Carbon tetrachloride | <0.20 | OWP | 0.20 | ug/L | | 26-APR-21 | R5441142 |
| Chlorobenzene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Dibromochloromethane | <2.0 | OWP | 2.0 | ug/L | | 26-APR-21 | R5441142 |
| Chloroform | <1.0 | OWP | 1.0 | ug/L | | 26-APR-21 | R5441142 |
| 1,2-Dibromoethane | <0.20 | OWP | 0.20 | ug/L | | 26-APR-21 | R5441142 |
| 1,2-Dichlorobenzene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,3-Dichlorobenzene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,4-Dichlorobenzene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Dichlorodifluoromethane | <2.0 | OWP | 2.0 | ug/L | | 26-APR-21 | R5441142 |
| 1,1-Dichloroethane | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,2-Dichloroethane | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,1-Dichloroethylene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| cis-1,2-Dichloroethylene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| trans-1,2-Dichloroethylene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Methylene Chloride | <5.0 | OWP | 5.0 | ug/L | | 26-APR-21 | R5441142 |
| 1,2-Dichloropropane | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| cis-1,3-Dichloropropene | <0.30 | OWP | 0.30 | ug/L | | 26-APR-21 | R5441142 |
| trans-1,3-Dichloropropene | <0.30 | OWP | 0.30 | ug/L | | 26-APR-21 | R5441142 |
| 1,3-Dichloropropene (cis & trans) | <0.50 | | 0.50 | ug/L | | 26-APR-21 | |
| Ethylbenzene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| n-Hexane | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Methyl Ethyl Ketone | <20 | OWP | 20 | ug/L | | 26-APR-21 | R5441142 |
| Methyl Isobutyl Ketone | <20 | OWP | 20 | ug/L | | 26-APR-21 | R5441142 |

* 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 |
|---|--------|------------|--------|-------|-----------|-----------|----------|
| L2579308-3 MW10 | | | | | | | |
| Sampled By: CLIENT on 21-APR-21 | | | | | | | |
| Matrix: WATER | | | | | | | |
| Volatile Organic Compounds | | | | | | | |
| MTBE | <2.0 | OWP | 2.0 | ug/L | | 26-APR-21 | R5441142 |
| Styrene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,1,1,2-Tetrachloroethane | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,1,2,2-Tetrachloroethane | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Tetrachloroethylene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Toluene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,1,1-Trichloroethane | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| 1,1,2-Trichloroethane | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Trichloroethylene | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| Trichlorofluoromethane | <5.0 | OWP | 5.0 | ug/L | | 26-APR-21 | R5441142 |
| Vinyl chloride | <0.50 | OWP | 0.50 | ug/L | | 26-APR-21 | R5441142 |
| o-Xylene | <0.30 | OWP | 0.30 | ug/L | | 26-APR-21 | R5441142 |
| m+p-Xylenes | <0.40 | OWP | 0.40 | ug/L | | 26-APR-21 | R5441142 |
| Xylenes (Total) | <0.50 | | 0.50 | ug/L | | 26-APR-21 | |
| Surrogate: 4-Bromofluorobenzene | 80.7 | | 70-130 | % | | 26-APR-21 | R5441142 |
| Surrogate: 1,4-Difluorobenzene | 96.8 | | 70-130 | % | | 26-APR-21 | R5441142 |
| Hydrocarbons | | | | | | | |
| F1 (C6-C10) | <25 | OWP | 25 | ug/L | | 26-APR-21 | R5441142 |
| F1-BTEX | <25 | | 25 | ug/L | | 28-APR-21 | |
| F2 (C10-C16) | <100 | | 100 | ug/L | 23-APR-21 | 26-APR-21 | R5441107 |
| F2-Naphth | <100 | | 100 | ug/L | | 28-APR-21 | |
| F3 (C16-C34) | <250 | | 250 | ug/L | 23-APR-21 | 26-APR-21 | R5441107 |
| F3-PAH | <250 | | 250 | ug/L | | 28-APR-21 | |
| F4 (C34-C50) | <250 | | 250 | ug/L | 23-APR-21 | 26-APR-21 | R5441107 |
| Total Hydrocarbons (C6-C50) | <370 | | 370 | ug/L | | 28-APR-21 | |
| Chrom. to baseline at nC50 | YES | | | | 23-APR-21 | 26-APR-21 | R5441107 |
| Surrogate: 2-Bromobenzotrifluoride | 87.2 | | 60-140 | % | 23-APR-21 | 26-APR-21 | R5441107 |
| Surrogate: 3,4-Dichlorotoluene | 75.2 | | 60-140 | % | | 26-APR-21 | R5441142 |
| Polycyclic Aromatic Hydrocarbons | | | | | | | |
| Acenaphthene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Acenaphthylene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Anthracene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(a)anthracene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(a)pyrene | <0.010 | | 0.010 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(b&j)fluoranthene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(g,h,i)perylene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Benzo(k)fluoranthene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Chrysene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Dibenz(a,h)anthracene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Fluoranthene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Fluorene | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |

* 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 |
|---|---------------------|--------|------------|--------|-------|-----------|-----------|----------|
| L2579308-3 | MW10 | | | | | | | |
| Sampled By: | CLIENT on 21-APR-21 | | | | | | | |
| Matrix: | WATER | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| 1+2-Methylnaphthalenes | | <0.028 | | 0.028 | ug/L | | 28-APR-21 | |
| 1-Methylnaphthalene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| 2-Methylnaphthalene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Naphthalene | | <0.050 | | 0.050 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Phenanthrene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Pyrene | | <0.020 | | 0.020 | ug/L | 23-APR-21 | 28-APR-21 | R5441303 |
| Surrogate: Chrysene d12 | | 100.2 | | 50-150 | % | 23-APR-21 | 28-APR-21 | R5441303 |
| Surrogate: Naphthalene d8 | | 97.0 | | 60-140 | % | 23-APR-21 | 28-APR-21 | R5441303 |
| Surrogate: Phenanthrene d10 | | 97.8 | | 60-140 | % | 23-APR-21 | 28-APR-21 | R5441303 |
| L2579308-4 | TRIP BLANK | | | | | | | |
| Sampled By: | CLIENT on 21-APR-21 | | | | | | | |
| Matrix: | WATER | | | | | | | |
| Volatile Organic Compounds | | | | | | | | |
| Acetone | | <30 | | 30 | ug/L | | 28-APR-21 | R5442254 |
| Benzene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| Bromodichloromethane | | <2.0 | | 2.0 | ug/L | | 28-APR-21 | R5442254 |
| Bromoform | | <5.0 | | 5.0 | ug/L | | 28-APR-21 | R5442254 |
| Bromomethane | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| Carbon tetrachloride | | <0.20 | | 0.20 | ug/L | | 28-APR-21 | R5442254 |
| Chlorobenzene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| Dibromochloromethane | | <2.0 | | 2.0 | ug/L | | 28-APR-21 | R5442254 |
| Chloroform | | <1.0 | | 1.0 | ug/L | | 28-APR-21 | R5442254 |
| 1,2-Dibromoethane | | <0.20 | | 0.20 | ug/L | | 28-APR-21 | R5442254 |
| 1,2-Dichlorobenzene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| 1,3-Dichlorobenzene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| 1,4-Dichlorobenzene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| Dichlorodifluoromethane | | <2.0 | | 2.0 | ug/L | | 28-APR-21 | R5442254 |
| 1,1-Dichloroethane | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| 1,2-Dichloroethane | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| 1,1-Dichloroethylene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| cis-1,2-Dichloroethylene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| trans-1,2-Dichloroethylene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| Methylene Chloride | | <5.0 | | 5.0 | ug/L | | 28-APR-21 | R5442254 |
| 1,2-Dichloropropane | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| cis-1,3-Dichloropropene | | <0.30 | | 0.30 | ug/L | | 28-APR-21 | R5442254 |
| trans-1,3-Dichloropropene | | <0.30 | | 0.30 | ug/L | | 28-APR-21 | R5442254 |
| 1,3-Dichloropropene (cis & trans) | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | |
| Ethylbenzene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| n-Hexane | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| Methyl Ethyl Ketone | | <20 | | 20 | ug/L | | 28-APR-21 | R5442254 |
| Methyl Isobutyl Ketone | | <20 | | 20 | ug/L | | 28-APR-21 | R5442254 |

* 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 |
|-----------------------------------|------------|--------------|------------|--------|-------|-----------|-----------|----------|
| L2579308-4 | TRIP BLANK | | | | | | | |
| Sampled By: | CLIENT | on 21-APR-21 | | | | | | |
| Matrix: | WATER | | | | | | | |
| Volatile Organic Compounds | | | | | | | | |
| MTBE | | <2.0 | | 2.0 | ug/L | | 28-APR-21 | R5442254 |
| Styrene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| 1,1,1,2-Tetrachloroethane | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| 1,1,2,2-Tetrachloroethane | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| Tetrachloroethylene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| Toluene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| 1,1,1-Trichloroethane | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| 1,1,2-Trichloroethane | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| Trichloroethylene | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| Trichlorofluoromethane | | <5.0 | | 5.0 | ug/L | | 28-APR-21 | R5442254 |
| Vinyl chloride | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | R5442254 |
| o-Xylene | | <0.30 | | 0.30 | ug/L | | 28-APR-21 | R5442254 |
| m+p-Xylenes | | <0.40 | | 0.40 | ug/L | | 28-APR-21 | R5442254 |
| Xylenes (Total) | | <0.50 | | 0.50 | ug/L | | 28-APR-21 | |
| Surrogate: 4-Bromofluorobenzene | | 104.9 | | 70-130 | % | | 28-APR-21 | R5442254 |
| Surrogate: 1,4-Difluorobenzene | | 100.7 | | 70-130 | % | | 28-APR-21 | R5442254 |

* 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 | Barium (Ba)-Dissolved | MS-B | L2579308-1, -2, -3 |
| Matrix Spike | Boron (B)-Dissolved | MS-B | L2579308-1, -2, -3 |
| Matrix Spike | Sodium (Na)-Dissolved | MS-B | L2579308-1, -2, -3 |

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|--|
| DLHC | Detection Limit Raised: Dilution required due to high concentration of test analyte(s). |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| OWP | Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment. |

Test Method References:

| ALS Test Code | Matrix | Test Description | Method Reference** |
|-------------------|--------|--|--|
| CL-IC-N-WT | Water | Chloride by IC | EPA 300.1 (mod) |
| | | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. | |
| | | 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). | |
| CN-WAD-R511-WT | Water | Cyanide (WAD)-O.Reg 153/04 | APHA 4500CN I-Weak acid Dist Colorimet |
| | | Weak acid dissociable cyanide (WAD) is determined by undergoing a distillation procedure. 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-R511-WT | Water | Hex Chrom-O.Reg 153/04 (July 2011) | EPA 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. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results. | |
| | | 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). | |
| EC-R511-WT | Water | Conductivity-O.Reg 153/04 (July 2011) | APHA 2510 B |
| | | Water samples can be measured directly by immersing the conductivity cell into 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). | |
| EC-SCREEN-WT | Water | Conductivity Screen (Internal Use Only) | APHA 2510 |
| | | Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc. | |
| F1-F4-511-CALC-WT | Water | F1-F4 Hydrocarbon Calculated Parameters | CCME CWS-PHC, Pub #1310, Dec 2001-L |
| | | Analytical methods used for analysis of CCME Petroleum Hydrocarbons have been validated and comply with the Reference Method for the CWS PHC. | |
| | | 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. | |

Reference Information

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

Fraction F1 is determined by 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 Water F2-F4-O.Reg 153/04 (July 2011) EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

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-D-UG/L-CVAA-WT Water Diss. Mercury in Water by CVAAS EPA 1631E (mod)
(ug/L)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed 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-D-UG/L-MS-WT Water Diss. Metals in Water by ICPMS EPA 200.8
(ug/L)

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

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 Water PAH-Calculated Parameters SW846 8270

PAH-511-WT Water PAH-O. Reg 153/04 (July 2011) SW846 3510/8270

Aqueous samples, fortified with surrogates, are extracted using liquid/liquid extraction technique. The sample extracts are concentrated and then analyzed using 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).

PH-WT Water pH APHA 4500 H-Electrode

Water samples are analyzed directly by a calibrated pH 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). Holdtime for samples under this regulation is 28 days

VOC-1,3-DCP-CALC-WT Water Regulation 153 VOCs SW8260B/SW8270C

VOC-511-HS-WT Water VOC by GCMS HS O.Reg 153/04 (July 2011) SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

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 Water Sum of Xylene Isomer Concentrations CALCULATION

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

Reference Information

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:

20-894372

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: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|--------------------------|-------------------------|--------------|--------|-----------|-------|-----|--------|-----------|
| CL-IC-N-WT | Water | | | | | | | |
| Batch R5441939 | | | | | | | | |
| WG3524385-15 DUP | Chloride (Cl) | WG3524385-13 | 7.34 | 7.32 | mg/L | 0.3 | 20 | 26-APR-21 |
| WG3524385-12 LCS | Chloride (Cl) | | 100.5 | | % | | 90-110 | 26-APR-21 |
| WG3524385-11 MB | Chloride (Cl) | | <0.50 | | mg/L | | 0.5 | 26-APR-21 |
| WG3524385-14 MS | Chloride (Cl) | WG3524385-13 | 99.1 | | % | | 75-125 | 26-APR-21 |
| CN-WAD-R511-WT | Water | | | | | | | |
| Batch R5440560 | | | | | | | | |
| WG3523208-15 DUP | Cyanide, Weak Acid Diss | WG3523208-13 | <2.0 | <2.0 | ug/L | N/A | 20 | 23-APR-21 |
| WG3523208-12 LCS | Cyanide, Weak Acid Diss | | 102.3 | | % | | 80-120 | 23-APR-21 |
| WG3523208-11 MB | Cyanide, Weak Acid Diss | | <2.0 | | ug/L | | 2 | 23-APR-21 |
| WG3523208-14 MS | Cyanide, Weak Acid Diss | WG3523208-13 | 99.6 | | % | | 75-125 | 23-APR-21 |
| CR-CR6-IC-R511-WT | Water | | | | | | | |
| Batch R5441277 | | | | | | | | |
| WG3523228-4 DUP | Chromium, Hexavalent | WG3523228-3 | <0.50 | <0.50 | ug/L | N/A | 20 | 23-APR-21 |
| WG3523228-2 LCS | Chromium, Hexavalent | | 100.8 | | % | | 80-120 | 23-APR-21 |
| WG3523228-1 MB | Chromium, Hexavalent | | <0.50 | | ug/L | | 0.5 | 23-APR-21 |
| WG3523228-5 MS | Chromium, Hexavalent | WG3523228-3 | 100.2 | | % | | 70-130 | 23-APR-21 |
| EC-R511-WT | Water | | | | | | | |
| Batch R5441399 | | | | | | | | |
| WG3523503-4 DUP | Conductivity | WG3523503-3 | 0.742 | 0.741 | mS/cm | 0.1 | 10 | 24-APR-21 |
| WG3523503-2 LCS | Conductivity | | 101.3 | | % | | 90-110 | 24-APR-21 |
| F1-HS-511-WT | Water | | | | | | | |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
6221 Highway 7 Unit 16
Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| HG-D-UG/L-CVAA-WT | Water | | | | | | | |
| Batch | R5441237 | | | | | | | |
| WG3523110-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | | <0.0050 | | ug/L | | 0.005 | 26-APR-21 |
| WG3523110-6 | MS | WG3523110-5 | | | | | | |
| Mercury (Hg)-Dissolved | | | 105.4 | | % | | 70-130 | 26-APR-21 |
| MET-D-UG/L-MS-WT | Water | | | | | | | |
| Batch | R5440992 | | | | | | | |
| WG3522793-4 | DUP | WG3522793-3 | | | | | | |
| Antimony (Sb)-Dissolved | 0.56 | 0.56 | | | ug/L | 0.5 | 20 | 26-APR-21 |
| Arsenic (As)-Dissolved | 4.07 | 4.10 | | | ug/L | 0.6 | 20 | 26-APR-21 |
| Barium (Ba)-Dissolved | 121 | 123 | | | ug/L | 1.4 | 20 | 26-APR-21 |
| Beryllium (Be)-Dissolved | <0.10 | <0.10 | RPD-NA | | ug/L | N/A | 20 | 26-APR-21 |
| Boron (B)-Dissolved | 26 | 27 | | | ug/L | 3.8 | 20 | 26-APR-21 |
| Cadmium (Cd)-Dissolved | <0.0050 | <0.0050 | RPD-NA | | ug/L | N/A | 20 | 26-APR-21 |
| Chromium (Cr)-Dissolved | <0.50 | <0.50 | RPD-NA | | ug/L | N/A | 20 | 26-APR-21 |
| Cobalt (Co)-Dissolved | <0.10 | <0.10 | RPD-NA | | ug/L | N/A | 20 | 26-APR-21 |
| Copper (Cu)-Dissolved | 0.57 | 0.58 | | | ug/L | 1.7 | 20 | 26-APR-21 |
| Lead (Pb)-Dissolved | 0.069 | 0.068 | | | ug/L | 1.3 | 20 | 26-APR-21 |
| Molybdenum (Mo)-Dissolved | 0.676 | 0.664 | | | ug/L | 1.7 | 20 | 26-APR-21 |
| Nickel (Ni)-Dissolved | <0.50 | <0.50 | RPD-NA | | ug/L | N/A | 20 | 26-APR-21 |
| Selenium (Se)-Dissolved | 0.063 | 0.057 | | | ug/L | 10 | 20 | 26-APR-21 |
| Silver (Ag)-Dissolved | <0.050 | <0.050 | RPD-NA | | ug/L | N/A | 20 | 26-APR-21 |
| Sodium (Na)-Dissolved | 13500 | 13600 | | | ug/L | 0.3 | 20 | 26-APR-21 |
| Thallium (Tl)-Dissolved | <0.010 | <0.010 | RPD-NA | | ug/L | N/A | 20 | 26-APR-21 |
| Uranium (U)-Dissolved | 0.543 | 0.549 | | | ug/L | 1.1 | 20 | 26-APR-21 |
| Vanadium (V)-Dissolved | 1.67 | 1.69 | | | ug/L | 1.5 | 20 | 26-APR-21 |
| Zinc (Zn)-Dissolved | 1.0 | 1.1 | | | ug/L | 0.8 | 20 | 26-APR-21 |
| WG3522793-2 | LCS | | | | | | | |
| Antimony (Sb)-Dissolved | | 100.2 | | | % | | 80-120 | 23-APR-21 |
| Arsenic (As)-Dissolved | | 101.3 | | | % | | 80-120 | 23-APR-21 |
| Barium (Ba)-Dissolved | | 104.9 | | | % | | 80-120 | 23-APR-21 |
| Beryllium (Be)-Dissolved | | 110.7 | | | % | | 80-120 | 23-APR-21 |
| Boron (B)-Dissolved | | 107.9 | | | % | | 80-120 | 23-APR-21 |
| Cadmium (Cd)-Dissolved | | 100.5 | | | % | | 80-120 | 23-APR-21 |
| Chromium (Cr)-Dissolved | | 100.9 | | | % | | 80-120 | 23-APR-21 |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| MET-D-UG/L-MS-WT | Water | | | | | | | |
| Batch | R5440992 | | | | | | | |
| WG3522793-2 LCS | | | | | | | | |
| Cobalt (Co)-Dissolved | | | 100.7 | | % | | 80-120 | 23-APR-21 |
| Copper (Cu)-Dissolved | | | 97.7 | | % | | 80-120 | 23-APR-21 |
| Lead (Pb)-Dissolved | | | 100.4 | | % | | 80-120 | 23-APR-21 |
| Molybdenum (Mo)-Dissolved | | | 101.4 | | % | | 80-120 | 23-APR-21 |
| Nickel (Ni)-Dissolved | | | 98.9 | | % | | 80-120 | 23-APR-21 |
| Selenium (Se)-Dissolved | | | 101.0 | | % | | 80-120 | 23-APR-21 |
| Silver (Ag)-Dissolved | | | 101.0 | | % | | 80-120 | 23-APR-21 |
| Sodium (Na)-Dissolved | | | 103.8 | | % | | 80-120 | 23-APR-21 |
| Thallium (Tl)-Dissolved | | | 100.1 | | % | | 80-120 | 23-APR-21 |
| Uranium (U)-Dissolved | | | 102.9 | | % | | 80-120 | 23-APR-21 |
| Vanadium (V)-Dissolved | | | 104.1 | | % | | 80-120 | 23-APR-21 |
| Zinc (Zn)-Dissolved | | | 95.1 | | % | | 80-120 | 23-APR-21 |
| WG3522793-1 MB | | | | | | | | |
| Antimony (Sb)-Dissolved | | | <0.10 | | ug/L | | 0.1 | 23-APR-21 |
| Arsenic (As)-Dissolved | | | <0.10 | | ug/L | | 0.1 | 23-APR-21 |
| Barium (Ba)-Dissolved | | | <0.10 | | ug/L | | 0.1 | 23-APR-21 |
| Beryllium (Be)-Dissolved | | | <0.10 | | ug/L | | 0.1 | 23-APR-21 |
| Boron (B)-Dissolved | | | <10 | | ug/L | | 10 | 23-APR-21 |
| Cadmium (Cd)-Dissolved | | | <0.0050 | | ug/L | | 0.005 | 23-APR-21 |
| Chromium (Cr)-Dissolved | | | <0.50 | | ug/L | | 0.5 | 23-APR-21 |
| Cobalt (Co)-Dissolved | | | <0.10 | | ug/L | | 0.1 | 23-APR-21 |
| Copper (Cu)-Dissolved | | | <0.20 | | ug/L | | 0.2 | 23-APR-21 |
| Lead (Pb)-Dissolved | | | <0.050 | | ug/L | | 0.05 | 23-APR-21 |
| Molybdenum (Mo)-Dissolved | | | <0.050 | | ug/L | | 0.05 | 23-APR-21 |
| Nickel (Ni)-Dissolved | | | <0.50 | | ug/L | | 0.5 | 23-APR-21 |
| Selenium (Se)-Dissolved | | | <0.050 | | ug/L | | 0.05 | 23-APR-21 |
| Silver (Ag)-Dissolved | | | <0.050 | | ug/L | | 0.05 | 23-APR-21 |
| Sodium (Na)-Dissolved | | | <50 | | ug/L | | 50 | 23-APR-21 |
| Thallium (Tl)-Dissolved | | | <0.010 | | ug/L | | 0.01 | 23-APR-21 |
| Uranium (U)-Dissolved | | | <0.010 | | ug/L | | 0.01 | 23-APR-21 |
| Vanadium (V)-Dissolved | | | <0.50 | | ug/L | | 0.5 | 23-APR-21 |
| Zinc (Zn)-Dissolved | | | <1.0 | | ug/L | | 1 | 23-APR-21 |
| WG3522793-5 MS | | WG3522793-6 | | | | | | |
| Antimony (Sb)-Dissolved | | | 98.3 | | % | | 70-130 | 23-APR-21 |

Quality Control Report

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|--------|-----------|-------|-----|--------|-----------|
| MET-D-UG/L-MS-WT | Water | | | | | | | |
| Batch | R5440992 | | | | | | | |
| WG3522793-5 MS | | WG3522793-6 | | | | | | |
| Arsenic (As)-Dissolved | | | 96.7 | | % | | 70-130 | 23-APR-21 |
| Barium (Ba)-Dissolved | | | N/A | MS-B | % | | - | 23-APR-21 |
| Beryllium (Be)-Dissolved | | | 104.2 | | % | | 70-130 | 23-APR-21 |
| Boron (B)-Dissolved | | | N/A | MS-B | % | | - | 23-APR-21 |
| Cadmium (Cd)-Dissolved | | | 96.0 | | % | | 70-130 | 23-APR-21 |
| Chromium (Cr)-Dissolved | | | 86.1 | | % | | 70-130 | 23-APR-21 |
| Cobalt (Co)-Dissolved | | | 85.6 | | % | | 70-130 | 23-APR-21 |
| Copper (Cu)-Dissolved | | | 82.8 | | % | | 70-130 | 23-APR-21 |
| Lead (Pb)-Dissolved | | | 95.2 | | % | | 70-130 | 23-APR-21 |
| Molybdenum (Mo)-Dissolved | | | 98.8 | | % | | 70-130 | 23-APR-21 |
| Nickel (Ni)-Dissolved | | | 72.2 | | % | | 70-130 | 23-APR-21 |
| Selenium (Se)-Dissolved | | | 97.7 | | % | | 70-130 | 23-APR-21 |
| Silver (Ag)-Dissolved | | | 74.1 | | % | | 70-130 | 23-APR-21 |
| Sodium (Na)-Dissolved | | | N/A | MS-B | % | | - | 23-APR-21 |
| Thallium (Tl)-Dissolved | | | 96.5 | | % | | 70-130 | 23-APR-21 |
| Uranium (U)-Dissolved | | | 92.3 | | % | | 70-130 | 23-APR-21 |
| Vanadium (V)-Dissolved | | | 96.5 | | % | | 70-130 | 23-APR-21 |
| Zinc (Zn)-Dissolved | | | 72.3 | | % | | 70-130 | 23-APR-21 |
| PAH-511-WT | Water | | | | | | | |
| Batch | R5441303 | | | | | | | |
| WG3522860-2 LCS | | | | | | | | |
| 1-Methylnaphthalene | | | 90.8 | | % | | 50-140 | 26-APR-21 |
| 2-Methylnaphthalene | | | 87.6 | | % | | 50-140 | 26-APR-21 |
| Acenaphthene | | | 90.0 | | % | | 50-140 | 26-APR-21 |
| Acenaphthylene | | | 89.3 | | % | | 50-140 | 26-APR-21 |
| Anthracene | | | 89.6 | | % | | 50-140 | 26-APR-21 |
| Benzo(a)anthracene | | | 99.0 | | % | | 50-140 | 26-APR-21 |
| Benzo(a)pyrene | | | 87.8 | | % | | 50-140 | 26-APR-21 |
| Benzo(b&j)fluoranthene | | | 88.7 | | % | | 50-140 | 26-APR-21 |
| Benzo(g,h,i)perylene | | | 93.0 | | % | | 50-140 | 26-APR-21 |
| Benzo(k)fluoranthene | | | 89.5 | | % | | 50-140 | 26-APR-21 |
| Chrysene | | | 97.7 | | % | | 50-140 | 26-APR-21 |
| Dibenz(a,h)anthracene | | | 92.2 | | % | | 50-140 | 26-APR-21 |
| Fluoranthene | | | 89.8 | | % | | 50-140 | |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------------|--------|-------------|--------|-----------|-------|----------|-----------|-----------|
| PAH-511-WT Water | | | | | | | | |
| Batch R5441303 | | | | | | | | |
| WG3522860-2 LCS | | | | | | | | |
| Fluoranthene | | | 89.8 | | % | 50-140 | 26-APR-21 | |
| Fluorene | | | 93.2 | | % | 50-140 | 26-APR-21 | |
| Indeno(1,2,3-cd)pyrene | | | 99.4 | | % | 50-140 | 26-APR-21 | |
| Naphthalene | | | 90.0 | | % | 50-140 | 26-APR-21 | |
| Phenanthrene | | | 94.7 | | % | 50-140 | 26-APR-21 | |
| Pyrene | | | 87.8 | | % | 50-140 | 26-APR-21 | |
| WG3522860-1 MB | | | | | | | | |
| 1-Methylnaphthalene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| 2-Methylnaphthalene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Acenaphthene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Acenaphthylene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Anthracene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Benzo(a)anthracene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Benzo(a)pyrene | | | <0.010 | | ug/L | 0.01 | 26-APR-21 | |
| Benzo(b&j)fluoranthene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Benzo(g,h,i)perylene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Benzo(k)fluoranthene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Chrysene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Dibenz(a,h)anthracene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Fluoranthene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Fluorene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Indeno(1,2,3-cd)pyrene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Naphthalene | | | <0.050 | | ug/L | 0.05 | 26-APR-21 | |
| Phenanthrene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Pyrene | | | <0.020 | | ug/L | 0.02 | 26-APR-21 | |
| Surrogate: Naphthalene d8 | | | 102.7 | | % | 60-140 | 26-APR-21 | |
| Surrogate: Phenanthrene d10 | | | 105.2 | | % | 60-140 | 26-APR-21 | |
| Surrogate: Chrysene d12 | | | 98.7 | | % | 50-150 | 26-APR-21 | |
| PH-WT Water | | | | | | | | |
| Batch R5441399 | | | | | | | | |
| WG3523503-4 DUP | | | | | | | | |
| pH | | WG3523503-3 | 8.34 | 8.34 | J | pH units | 0.00 | 0.2 |
| WG3523503-2 LCS | | | | | | | | |
| pH | | | 7.01 | | | pH units | 6.9-7.1 | 24-APR-21 |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|----------|-------------|--------|-----------|-------|-----|-----------|-----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5441102 | | | | | | | |
| WG3523767-4 | DUP | WG3523767-3 | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,1,2,2-Tetrachloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,1,1-Trichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,1,2-Trichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,1-Dichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,1-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,2-Dibromoethane | <0.20 | <0.20 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,2-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,2-Dichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,2-Dichloropropane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,3-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,4-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Acetone | <30 | <30 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Benzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Bromodichloromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Bromoform | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Bromomethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Carbon tetrachloride | <0.20 | <0.20 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Chlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Chloroform | <1.0 | <1.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| cis-1,2-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| cis-1,3-Dichloropropene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Dibromochloromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Dichlorodifluoromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Ethylbenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| n-Hexane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| m+p-Xylenes | <0.40 | <0.40 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Methyl Ethyl Ketone | <20 | <20 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Methyl Isobutyl Ketone | <20 | <20 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Methylene Chloride | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| MTBE | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| o-Xylene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Styrene | <0.50 | <0.50 | | ug/L | | | | 26-APR-21 |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-------------|--------|-----------|-------|--------|-----------|----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5441102 | | | | | | | |
| WG3523767-4 | DUP | WG3523767-3 | | | | | | |
| Styrene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Tetrachloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Toluene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| trans-1,2-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| trans-1,3-Dichloropropene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Trichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Trichlorofluoromethane | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Vinyl chloride | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| WG3523767-1 | LCS | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | 96.4 | | % | | 70-130 | 26-APR-21 | |
| 1,1,2,2-Tetrachloroethane | | 83.2 | | % | | 70-130 | 26-APR-21 | |
| 1,1,1-Trichloroethane | | 95.8 | | % | | 70-130 | 26-APR-21 | |
| 1,1,2-Trichloroethane | | 92.0 | | % | | 70-130 | 26-APR-21 | |
| 1,1-Dichloroethane | | 91.8 | | % | | 70-130 | 26-APR-21 | |
| 1,1-Dichloroethylene | | 93.7 | | % | | 70-130 | 26-APR-21 | |
| 1,2-Dibromoethane | | 96.7 | | % | | 70-130 | 26-APR-21 | |
| 1,2-Dichlorobenzene | | 96.4 | | % | | 70-130 | 26-APR-21 | |
| 1,2-Dichloroethane | | 91.9 | | % | | 70-130 | 26-APR-21 | |
| 1,2-Dichloropropane | | 94.8 | | % | | 70-130 | 26-APR-21 | |
| 1,3-Dichlorobenzene | | 95.7 | | % | | 70-130 | 26-APR-21 | |
| 1,4-Dichlorobenzene | | 97.6 | | % | | 70-130 | 26-APR-21 | |
| Acetone | | 87.1 | | % | | 60-140 | 26-APR-21 | |
| Benzene | | 89.7 | | % | | 70-130 | 26-APR-21 | |
| Bromodichloromethane | | 95.9 | | % | | 70-130 | 26-APR-21 | |
| Bromoform | | 99.0 | | % | | 70-130 | 26-APR-21 | |
| Bromomethane | | 93.5 | | % | | 60-140 | 26-APR-21 | |
| Carbon tetrachloride | | 98.8 | | % | | 70-130 | 26-APR-21 | |
| Chlorobenzene | | 93.9 | | % | | 70-130 | 26-APR-21 | |
| Chloroform | | 95.3 | | % | | 70-130 | 26-APR-21 | |
| cis-1,2-Dichloroethylene | | 94.9 | | % | | 70-130 | 26-APR-21 | |
| cis-1,3-Dichloropropene | | 94.1 | | % | | 70-130 | 26-APR-21 | |
| Dibromochloromethane | | 89.6 | | % | | 70-130 | 26-APR-21 | |
| Dichlorodifluoromethane | | 85.6 | | % | | 50-140 | 26-APR-21 | |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
6221 Highway 7 Unit 16
Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|------------|-----------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | | Water | | | | | | |
| Batch R5441102 | | | | | | | | |
| WG3523767-1 | LCS | | | | | | | |
| Ethylbenzene | | | 98.6 | | % | | 70-130 | 26-APR-21 |
| n-Hexane | | | 90.5 | | % | | 70-130 | 26-APR-21 |
| m+p-Xylenes | | | 97.5 | | % | | 70-130 | 26-APR-21 |
| Methyl Ethyl Ketone | | | 100.9 | | % | | 60-140 | 26-APR-21 |
| Methyl Isobutyl Ketone | | | 79.1 | | % | | 60-140 | 26-APR-21 |
| Methylene Chloride | | | 95.6 | | % | | 70-130 | 26-APR-21 |
| MTBE | | | 92.8 | | % | | 70-130 | 26-APR-21 |
| o-Xylene | | | 102.9 | | % | | 70-130 | 26-APR-21 |
| Styrene | | | 97.5 | | % | | 70-130 | 26-APR-21 |
| Tetrachloroethylene | | | 102.2 | | % | | 70-130 | 26-APR-21 |
| Toluene | | | 99.1 | | % | | 70-130 | 26-APR-21 |
| trans-1,2-Dichloroethylene | | | 96.0 | | % | | 70-130 | 26-APR-21 |
| trans-1,3-Dichloropropene | | | 103.5 | | % | | 70-130 | 26-APR-21 |
| Trichloroethylene | | | 95.2 | | % | | 70-130 | 26-APR-21 |
| Trichlorofluoromethane | | | 95.4 | | % | | 60-140 | 26-APR-21 |
| Vinyl chloride | | | 96.3 | | % | | 60-140 | 26-APR-21 |
| WG3523767-2 | MB | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,1,2,2-Tetrachloroethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,1,1-Trichloroethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,1,2-Trichloroethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,1-Dichloroethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,1-Dichloroethylene | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,2-Dibromoethane | | | <0.20 | | ug/L | | 0.2 | 26-APR-21 |
| 1,2-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,2-Dichloroethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,2-Dichloropropane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,3-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,4-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| Acetone | | | <30 | | ug/L | | 30 | 26-APR-21 |
| Benzene | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| Bromodichloromethane | | | <2.0 | | ug/L | | 2 | 26-APR-21 |
| Bromoform | | | <5.0 | | ug/L | | 5 | 26-APR-21 |
| Bromomethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|----------|------------|--------|-----------|-------|--------|-----------|----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5441102 | | | | | | | |
| WG3523767-2 | MB | | | | | | | |
| Carbon tetrachloride | | | <0.20 | | ug/L | 0.2 | 26-APR-21 | |
| Chlorobenzene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| Chloroform | | | <1.0 | | ug/L | 1 | 26-APR-21 | |
| cis-1,2-Dichloroethylene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| cis-1,3-Dichloropropene | | | <0.30 | | ug/L | 0.3 | 26-APR-21 | |
| Dibromochloromethane | | | <2.0 | | ug/L | 2 | 26-APR-21 | |
| Dichlorodifluoromethane | | | <2.0 | | ug/L | 2 | 26-APR-21 | |
| Ethylbenzene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| n-Hexane | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| m+p-Xylenes | | | <0.40 | | ug/L | 0.4 | 26-APR-21 | |
| Methyl Ethyl Ketone | | | <20 | | ug/L | 20 | 26-APR-21 | |
| Methyl Isobutyl Ketone | | | <20 | | ug/L | 20 | 26-APR-21 | |
| Methylene Chloride | | | <5.0 | | ug/L | 5 | 26-APR-21 | |
| MTBE | | | <2.0 | | ug/L | 2 | 26-APR-21 | |
| o-Xylene | | | <0.30 | | ug/L | 0.3 | 26-APR-21 | |
| Styrene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| Tetrachloroethylene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| Toluene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| trans-1,2-Dichloroethylene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| trans-1,3-Dichloropropene | | | <0.30 | | ug/L | 0.3 | 26-APR-21 | |
| Trichloroethylene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| Trichlorofluoromethane | | | <5.0 | | ug/L | 5 | 26-APR-21 | |
| Vinyl chloride | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| Surrogate: 1,4-Difluorobenzene | | | 101.0 | | % | 70-130 | 26-APR-21 | |
| Surrogate: 4-Bromofluorobenzene | | | 97.2 | | % | 70-130 | 26-APR-21 | |
| WG3523767-5 | MS | L2578947-1 | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | 94.8 | | % | 50-140 | 26-APR-21 | |
| 1,1,2,2-Tetrachloroethane | | | 59.3 | | % | 50-140 | 26-APR-21 | |
| 1,1,1-Trichloroethane | | | 91.7 | | % | 50-140 | 26-APR-21 | |
| 1,1,2-Trichloroethane | | | 89.5 | | % | 50-140 | 26-APR-21 | |
| 1,1-Dichloroethane | | | 123.9 | | % | 50-140 | 26-APR-21 | |
| 1,1-Dichloroethylene | | | 89.7 | | % | 50-140 | 26-APR-21 | |
| 1,2-Dibromoethane | | | 93.5 | | % | 50-140 | 26-APR-21 | |
| 1,2-Dichlorobenzene | | | 95.0 | | % | 50-140 | 26-APR-21 | |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|------------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5441102 | | | | | | | |
| WG3523767-5 | MS | L2578947-1 | | | | | | |
| 1,2-Dichloroethane | | | 90.5 | | % | | 50-140 | 26-APR-21 |
| 1,2-Dichloropropane | | | 92.7 | | % | | 50-140 | 26-APR-21 |
| 1,3-Dichlorobenzene | | | 108.9 | | % | | 50-140 | 26-APR-21 |
| 1,4-Dichlorobenzene | | | 108.2 | | % | | 50-140 | 26-APR-21 |
| Acetone | | | 80.5 | | % | | 50-140 | 26-APR-21 |
| Benzene | | | 86.8 | | % | | 50-140 | 26-APR-21 |
| Bromodichloromethane | | | 94.6 | | % | | 50-140 | 26-APR-21 |
| Bromoform | | | 91.1 | | % | | 50-140 | 26-APR-21 |
| Bromomethane | | | 90.1 | | % | | 50-140 | 26-APR-21 |
| Carbon tetrachloride | | | 94.9 | | % | | 50-140 | 26-APR-21 |
| Chlorobenzene | | | 90.9 | | % | | 50-140 | 26-APR-21 |
| Chloroform | | | 92.8 | | % | | 50-140 | 26-APR-21 |
| cis-1,2-Dichloroethylene | | | 92.1 | | % | | 50-140 | 26-APR-21 |
| cis-1,3-Dichloropropene | | | 91.9 | | % | | 50-140 | 26-APR-21 |
| Dibromochloromethane | | | 87.5 | | % | | 50-140 | 26-APR-21 |
| Dichlorodifluoromethane | | | 79.2 | | % | | 50-140 | 26-APR-21 |
| Ethylbenzene | | | 94.9 | | % | | 50-140 | 26-APR-21 |
| n-Hexane | | | 86.2 | | % | | 50-140 | 26-APR-21 |
| m+p-Xylenes | | | 93.5 | | % | | 50-140 | 26-APR-21 |
| Methyl Ethyl Ketone | | | 89.6 | | % | | 50-140 | 26-APR-21 |
| Methyl Isobutyl Ketone | | | 67.8 | | % | | 50-140 | 26-APR-21 |
| Methylene Chloride | | | 93.1 | | % | | 50-140 | 26-APR-21 |
| MTBE | | | 91.7 | | % | | 50-140 | 26-APR-21 |
| o-Xylene | | | 99.9 | | % | | 50-140 | 26-APR-21 |
| Styrene | | | 95.5 | | % | | 50-140 | 26-APR-21 |
| Tetrachloroethylene | | | 97.5 | | % | | 50-140 | 26-APR-21 |
| Toluene | | | 94.1 | | % | | 50-140 | 26-APR-21 |
| trans-1,2-Dichloroethylene | | | 92.6 | | % | | 50-140 | 26-APR-21 |
| trans-1,3-Dichloropropene | | | 100.6 | | % | | 50-140 | 26-APR-21 |
| Trichloroethylene | | | 92.5 | | % | | 50-140 | 26-APR-21 |
| Trichlorofluoromethane | | | 92.1 | | % | | 50-140 | 26-APR-21 |
| Vinyl chloride | | | 92.1 | | % | | 50-140 | 26-APR-21 |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|----------|-------------|--------|-----------|-------|-----|-----------|-----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5441142 | | | | | | | |
| WG3523782-4 | DUP | WG3523782-3 | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,1,2,2-Tetrachloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,1,1-Trichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,1,2-Trichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,1-Dichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,1-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,2-Dibromoethane | <0.20 | <0.20 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,2-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,2-Dichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,2-Dichloropropane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,3-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| 1,4-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Acetone | <30 | <30 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Benzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Bromodichloromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Bromoform | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Bromomethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Carbon tetrachloride | <0.20 | <0.20 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Chlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Chloroform | <1.0 | <1.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| cis-1,2-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| cis-1,3-Dichloropropene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Dibromochloromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Dichlorodifluoromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Ethylbenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| n-Hexane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| m+p-Xylenes | <0.40 | <0.40 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Methyl Ethyl Ketone | <20 | <20 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Methyl Isobutyl Ketone | <20 | <20 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Methylene Chloride | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| MTBE | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| o-Xylene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Styrene | <0.50 | <0.50 | | ug/L | | | | 26-APR-21 |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-------------|--------|-----------|-------|--------|-----------|----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5441142 | | | | | | | |
| WG3523782-4 | DUP | WG3523782-3 | | | | | | |
| Styrene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Tetrachloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Toluene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| trans-1,2-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| trans-1,3-Dichloropropene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Trichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Trichlorofluoromethane | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| Vinyl chloride | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 26-APR-21 | |
| WG3523782-1 | LCS | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | 97.0 | | % | | 70-130 | 26-APR-21 | |
| 1,1,2,2-Tetrachloroethane | | 92.4 | | % | | 70-130 | 26-APR-21 | |
| 1,1,1-Trichloroethane | | 98.5 | | % | | 70-130 | 26-APR-21 | |
| 1,1,2-Trichloroethane | | 91.1 | | % | | 70-130 | 26-APR-21 | |
| 1,1-Dichloroethane | | 104.1 | | % | | 70-130 | 26-APR-21 | |
| 1,1-Dichloroethylene | | 108.9 | | % | | 70-130 | 26-APR-21 | |
| 1,2-Dibromoethane | | 88.7 | | % | | 70-130 | 26-APR-21 | |
| 1,2-Dichlorobenzene | | 100.7 | | % | | 70-130 | 26-APR-21 | |
| 1,2-Dichloroethane | | 97.3 | | % | | 70-130 | 26-APR-21 | |
| 1,2-Dichloropropane | | 103.1 | | % | | 70-130 | 26-APR-21 | |
| 1,3-Dichlorobenzene | | 104.2 | | % | | 70-130 | 26-APR-21 | |
| 1,4-Dichlorobenzene | | 105.4 | | % | | 70-130 | 26-APR-21 | |
| Acetone | | 106.8 | | % | | 60-140 | 26-APR-21 | |
| Benzene | | 100.1 | | % | | 70-130 | 26-APR-21 | |
| Bromodichloromethane | | 102.0 | | % | | 70-130 | 26-APR-21 | |
| Bromoform | | 93.1 | | % | | 70-130 | 26-APR-21 | |
| Bromomethane | | 93.2 | | % | | 60-140 | 26-APR-21 | |
| Carbon tetrachloride | | 101.1 | | % | | 70-130 | 26-APR-21 | |
| Chlorobenzene | | 100.2 | | % | | 70-130 | 26-APR-21 | |
| Chloroform | | 102.6 | | % | | 70-130 | 26-APR-21 | |
| cis-1,2-Dichloroethylene | | 99.4 | | % | | 70-130 | 26-APR-21 | |
| cis-1,3-Dichloropropene | | 99.7 | | % | | 70-130 | 26-APR-21 | |
| Dibromochloromethane | | 87.4 | | % | | 70-130 | 26-APR-21 | |
| Dichlorodifluoromethane | | 87.4 | | % | | 50-140 | 26-APR-21 | |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
6221 Highway 7 Unit 16
Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-----------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5441142 | | | | | | | |
| WG3523782-1 | LCS | | | | | | | |
| Ethylbenzene | | | 104.2 | | % | | 70-130 | 26-APR-21 |
| n-Hexane | | | 109.4 | | % | | 70-130 | 26-APR-21 |
| m+p-Xylenes | | | 104.0 | | % | | 70-130 | 26-APR-21 |
| Methyl Ethyl Ketone | | | 90.7 | | % | | 60-140 | 26-APR-21 |
| Methyl Isobutyl Ketone | | | 99.3 | | % | | 60-140 | 26-APR-21 |
| Methylene Chloride | | | 104.5 | | % | | 70-130 | 26-APR-21 |
| MTBE | | | 98.7 | | % | | 70-130 | 26-APR-21 |
| o-Xylene | | | 110.1 | | % | | 70-130 | 26-APR-21 |
| Styrene | | | 99.4 | | % | | 70-130 | 26-APR-21 |
| Tetrachloroethylene | | | 92.6 | | % | | 70-130 | 26-APR-21 |
| Toluene | | | 102.2 | | % | | 70-130 | 26-APR-21 |
| trans-1,2-Dichloroethylene | | | 111.9 | | % | | 70-130 | 26-APR-21 |
| trans-1,3-Dichloropropene | | | 99.7 | | % | | 70-130 | 26-APR-21 |
| Trichloroethylene | | | 96.7 | | % | | 70-130 | 26-APR-21 |
| Trichlorofluoromethane | | | 103.4 | | % | | 60-140 | 26-APR-21 |
| Vinyl chloride | | | 108.1 | | % | | 60-140 | 26-APR-21 |
| WG3523782-2 | MB | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,1,2,2-Tetrachloroethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,1,1-Trichloroethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,1,2-Trichloroethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,1-Dichloroethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,1-Dichloroethylene | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,2-Dibromoethane | | | <0.20 | | ug/L | | 0.2 | 26-APR-21 |
| 1,2-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,2-Dichloroethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,2-Dichloropropane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,3-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| 1,4-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| Acetone | | | <30 | | ug/L | | 30 | 26-APR-21 |
| Benzene | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |
| Bromodichloromethane | | | <2.0 | | ug/L | | 2 | 26-APR-21 |
| Bromoform | | | <5.0 | | ug/L | | 5 | 26-APR-21 |
| Bromomethane | | | <0.50 | | ug/L | | 0.5 | 26-APR-21 |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
6221 Highway 7 Unit 16
Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|----------|-------------|--------|-----------|-------|--------|-----------|----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5441142 | | | | | | | |
| WG3523782-2 | MB | | | | | | | |
| Carbon tetrachloride | | | <0.20 | | ug/L | 0.2 | 26-APR-21 | |
| Chlorobenzene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| Chloroform | | | <1.0 | | ug/L | 1 | 26-APR-21 | |
| cis-1,2-Dichloroethylene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| cis-1,3-Dichloropropene | | | <0.30 | | ug/L | 0.3 | 26-APR-21 | |
| Dibromochloromethane | | | <2.0 | | ug/L | 2 | 26-APR-21 | |
| Dichlorodifluoromethane | | | <2.0 | | ug/L | 2 | 26-APR-21 | |
| Ethylbenzene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| n-Hexane | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| m+p-Xylenes | | | <0.40 | | ug/L | 0.4 | 26-APR-21 | |
| Methyl Ethyl Ketone | | | <20 | | ug/L | 20 | 26-APR-21 | |
| Methyl Isobutyl Ketone | | | <20 | | ug/L | 20 | 26-APR-21 | |
| Methylene Chloride | | | <5.0 | | ug/L | 5 | 26-APR-21 | |
| MTBE | | | <2.0 | | ug/L | 2 | 26-APR-21 | |
| o-Xylene | | | <0.30 | | ug/L | 0.3 | 26-APR-21 | |
| Styrene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| Tetrachloroethylene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| Toluene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| trans-1,2-Dichloroethylene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| trans-1,3-Dichloropropene | | | <0.30 | | ug/L | 0.3 | 26-APR-21 | |
| Trichloroethylene | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| Trichlorofluoromethane | | | <5.0 | | ug/L | 5 | 26-APR-21 | |
| Vinyl chloride | | | <0.50 | | ug/L | 0.5 | 26-APR-21 | |
| Surrogate: 1,4-Difluorobenzene | | | 97.6 | | % | 70-130 | 26-APR-21 | |
| Surrogate: 4-Bromofluorobenzene | | | 84.4 | | % | 70-130 | 26-APR-21 | |
| WG3523782-5 | MS | WG3523782-3 | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | 88.5 | | % | 50-140 | 26-APR-21 | |
| 1,1,2,2-Tetrachloroethane | | | 58.8 | | % | 50-140 | 26-APR-21 | |
| 1,1,1-Trichloroethane | | | 90.7 | | % | 50-140 | 26-APR-21 | |
| 1,1,2-Trichloroethane | | | 88.6 | | % | 50-140 | 26-APR-21 | |
| 1,1-Dichloroethane | | | 97.0 | | % | 50-140 | 26-APR-21 | |
| 1,1-Dichloroethylene | | | 99.5 | | % | 50-140 | 26-APR-21 | |
| 1,2-Dibromoethane | | | 85.0 | | % | 50-140 | 26-APR-21 | |
| 1,2-Dichlorobenzene | | | 96.6 | | % | 50-140 | 26-APR-21 | |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-------------|--------|-----------|-------|--------|-----------|----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5441142 | | | | | | | |
| WG3523782-5 | MS | WG3523782-3 | | | | | | |
| 1,2-Dichloroethane | | | 93.7 | | % | 50-140 | 26-APR-21 | |
| 1,2-Dichloropropane | | | 97.9 | | % | 50-140 | 26-APR-21 | |
| 1,3-Dichlorobenzene | | | 111.9 | | % | 50-140 | 26-APR-21 | |
| 1,4-Dichlorobenzene | | | 107.2 | | % | 50-140 | 26-APR-21 | |
| Acetone | | | 102.0 | | % | 50-140 | 26-APR-21 | |
| Benzene | | | 93.5 | | % | 50-140 | 26-APR-21 | |
| Bromodichloromethane | | | 97.4 | | % | 50-140 | 26-APR-21 | |
| Bromoform | | | 68.0 | | % | 50-140 | 26-APR-21 | |
| Bromomethane | | | 84.6 | | % | 50-140 | 26-APR-21 | |
| Carbon tetrachloride | | | 93.2 | | % | 50-140 | 26-APR-21 | |
| Chlorobenzene | | | 94.8 | | % | 50-140 | 26-APR-21 | |
| Chloroform | | | 96.4 | | % | 50-140 | 26-APR-21 | |
| cis-1,2-Dichloroethylene | | | 93.7 | | % | 50-140 | 26-APR-21 | |
| cis-1,3-Dichloropropene | | | 93.5 | | % | 50-140 | 26-APR-21 | |
| Dibromochloromethane | | | 80.1 | | % | 50-140 | 26-APR-21 | |
| Dichlorodifluoromethane | | | 74.3 | | % | 50-140 | 26-APR-21 | |
| Ethylbenzene | | | 98.8 | | % | 50-140 | 26-APR-21 | |
| n-Hexane | | | 99.4 | | % | 50-140 | 26-APR-21 | |
| m+p-Xylenes | | | 98.6 | | % | 50-140 | 26-APR-21 | |
| Methyl Ethyl Ketone | | | 84.7 | | % | 50-140 | 26-APR-21 | |
| Methyl Isobutyl Ketone | | | 84.9 | | % | 50-140 | 26-APR-21 | |
| Methylene Chloride | | | 98.6 | | % | 50-140 | 26-APR-21 | |
| MTBE | | | 95.8 | | % | 50-140 | 26-APR-21 | |
| o-Xylene | | | 103.3 | | % | 50-140 | 26-APR-21 | |
| Styrene | | | 90.0 | | % | 50-140 | 26-APR-21 | |
| Tetrachloroethylene | | | 88.7 | | % | 50-140 | 26-APR-21 | |
| Toluene | | | 99.3 | | % | 50-140 | 26-APR-21 | |
| trans-1,2-Dichloroethylene | | | 103.5 | | % | 50-140 | 26-APR-21 | |
| trans-1,3-Dichloropropene | | | 95.7 | | % | 50-140 | 26-APR-21 | |
| Trichloroethylene | | | 89.5 | | % | 50-140 | 26-APR-21 | |
| Trichlorofluoromethane | | | 93.4 | | % | 50-140 | 26-APR-21 | |
| Vinyl chloride | | | 96.8 | | % | 50-140 | 26-APR-21 | |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|----------|-------------|--------|-----------|-------|-----|-----------|-----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5442254 | | | | | | | |
| WG3524797-4 | DUP | WG3524797-3 | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| 1,1,2,2-Tetrachloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| 1,1,1-Trichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| 1,1,2-Trichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| 1,1-Dichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| 1,1-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| 1,2-Dibromoethane | <0.20 | <0.20 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| 1,2-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| 1,2-Dichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| 1,2-Dichloropropane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| 1,3-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| 1,4-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Acetone | <30 | <30 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Benzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Bromodichloromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Bromoform | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Bromomethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Carbon tetrachloride | <0.20 | <0.20 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Chlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Chloroform | <1.0 | <1.0 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| cis-1,2-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| cis-1,3-Dichloropropene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Dibromochloromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Dichlorodifluoromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Ethylbenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| n-Hexane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| m+p-Xylenes | <0.40 | <0.40 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Methyl Ethyl Ketone | <20 | <20 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Methyl Isobutyl Ketone | <20 | <20 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Methylene Chloride | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| MTBE | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| o-Xylene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Styrene | <0.50 | <0.50 | | ug/L | | | | 28-APR-21 |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
6221 Highway 7 Unit 16
Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-------------|--------|-----------|-------|--------|-----------|----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5442254 | | | | | | | |
| WG3524797-4 | DUP | WG3524797-3 | | | | | | |
| Styrene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Tetrachloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Toluene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| trans-1,2-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| trans-1,3-Dichloropropene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Trichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Trichlorofluoromethane | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 28-APR-21 | |
| Vinyl chloride | 0.50 | 0.56 | | ug/L | 11 | 30 | 28-APR-21 | |
| WG3524797-1 | LCS | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | 104.9 | | % | | 70-130 | 28-APR-21 | |
| 1,1,2,2-Tetrachloroethane | | 120.0 | | % | | 70-130 | 28-APR-21 | |
| 1,1,1-Trichloroethane | | 99.6 | | % | | 70-130 | 28-APR-21 | |
| 1,1,2-Trichloroethane | | 105.8 | | % | | 70-130 | 28-APR-21 | |
| 1,1-Dichloroethane | | 98.5 | | % | | 70-130 | 28-APR-21 | |
| 1,1-Dichloroethylene | | 98.5 | | % | | 70-130 | 28-APR-21 | |
| 1,2-Dibromoethane | | 105.3 | | % | | 70-130 | 28-APR-21 | |
| 1,2-Dichlorobenzene | | 106.2 | | % | | 70-130 | 28-APR-21 | |
| 1,2-Dichloroethane | | 110.1 | | % | | 70-130 | 28-APR-21 | |
| 1,2-Dichloropropane | | 103.8 | | % | | 70-130 | 28-APR-21 | |
| 1,3-Dichlorobenzene | | 98.1 | | % | | 70-130 | 28-APR-21 | |
| 1,4-Dichlorobenzene | | 97.2 | | % | | 70-130 | 28-APR-21 | |
| Acetone | | 114.8 | | % | | 60-140 | 28-APR-21 | |
| Benzene | | 96.3 | | % | | 70-130 | 28-APR-21 | |
| Bromodichloromethane | | 107.5 | | % | | 70-130 | 28-APR-21 | |
| Bromoform | | 106.5 | | % | | 70-130 | 28-APR-21 | |
| Bromomethane | | 97.5 | | % | | 60-140 | 28-APR-21 | |
| Carbon tetrachloride | | 100.9 | | % | | 70-130 | 28-APR-21 | |
| Chlorobenzene | | 106.0 | | % | | 70-130 | 28-APR-21 | |
| Chloroform | | 104.0 | | % | | 70-130 | 28-APR-21 | |
| cis-1,2-Dichloroethylene | | 104.0 | | % | | 70-130 | 28-APR-21 | |
| cis-1,3-Dichloropropene | | 99.0 | | % | | 70-130 | 28-APR-21 | |
| Dibromochloromethane | | 101.4 | | % | | 70-130 | 28-APR-21 | |
| Dichlorodifluoromethane | | 85.3 | | % | | 50-140 | 28-APR-21 | |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
 6221 Highway 7 Unit 16
 Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-----------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5442254 | | | | | | | |
| WG3524797-1 | LCS | | | | | | | |
| Ethylbenzene | | | 99.8 | | % | | 70-130 | 28-APR-21 |
| n-Hexane | | | 94.9 | | % | | 70-130 | 28-APR-21 |
| m+p-Xylenes | | | 100.1 | | % | | 70-130 | 28-APR-21 |
| Methyl Ethyl Ketone | | | 114.4 | | % | | 60-140 | 28-APR-21 |
| Methyl Isobutyl Ketone | | | 101.2 | | % | | 60-140 | 28-APR-21 |
| Methylene Chloride | | | 102.3 | | % | | 70-130 | 28-APR-21 |
| MTBE | | | 101.3 | | % | | 70-130 | 28-APR-21 |
| o-Xylene | | | 110.8 | | % | | 70-130 | 28-APR-21 |
| Styrene | | | 103.7 | | % | | 70-130 | 28-APR-21 |
| Tetrachloroethylene | | | 97.8 | | % | | 70-130 | 28-APR-21 |
| Toluene | | | 97.7 | | % | | 70-130 | 28-APR-21 |
| trans-1,2-Dichloroethylene | | | 97.9 | | % | | 70-130 | 28-APR-21 |
| trans-1,3-Dichloropropene | | | 104.4 | | % | | 70-130 | 28-APR-21 |
| Trichloroethylene | | | 106.5 | | % | | 70-130 | 28-APR-21 |
| Trichlorofluoromethane | | | 100.7 | | % | | 60-140 | 28-APR-21 |
| Vinyl chloride | | | 108.4 | | % | | 60-140 | 28-APR-21 |
| WG3524797-2 | MB | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| 1,1,2,2-Tetrachloroethane | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| 1,1,1-Trichloroethane | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| 1,1,2-Trichloroethane | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| 1,1-Dichloroethane | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| 1,1-Dichloroethylene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| 1,2-Dibromoethane | | | <0.20 | | ug/L | | 0.2 | 28-APR-21 |
| 1,2-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| 1,2-Dichloroethane | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| 1,2-Dichloropropane | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| 1,3-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| 1,4-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| Acetone | | | <30 | | ug/L | | 30 | 28-APR-21 |
| Benzene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| Bromodichloromethane | | | <2.0 | | ug/L | | 2 | 28-APR-21 |
| Bromoform | | | <5.0 | | ug/L | | 5 | 28-APR-21 |
| Bromomethane | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
6221 Highway 7 Unit 16
Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|----------|-------------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5442254 | | | | | | | |
| WG3524797-2 | MB | | | | | | | |
| Carbon tetrachloride | | | <0.20 | | ug/L | | 0.2 | 28-APR-21 |
| Chlorobenzene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| Chloroform | | | <1.0 | | ug/L | | 1 | 28-APR-21 |
| cis-1,2-Dichloroethylene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| cis-1,3-Dichloropropene | | | <0.30 | | ug/L | | 0.3 | 28-APR-21 |
| Dibromochloromethane | | | <2.0 | | ug/L | | 2 | 28-APR-21 |
| Dichlorodifluoromethane | | | <2.0 | | ug/L | | 2 | 28-APR-21 |
| Ethylbenzene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| n-Hexane | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| m+p-Xylenes | | | <0.40 | | ug/L | | 0.4 | 28-APR-21 |
| Methyl Ethyl Ketone | | | <20 | | ug/L | | 20 | 28-APR-21 |
| Methyl Isobutyl Ketone | | | <20 | | ug/L | | 20 | 28-APR-21 |
| Methylene Chloride | | | <5.0 | | ug/L | | 5 | 28-APR-21 |
| MTBE | | | <2.0 | | ug/L | | 2 | 28-APR-21 |
| o-Xylene | | | <0.30 | | ug/L | | 0.3 | 28-APR-21 |
| Styrene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| Tetrachloroethylene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| Toluene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| trans-1,2-Dichloroethylene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| trans-1,3-Dichloropropene | | | <0.30 | | ug/L | | 0.3 | 28-APR-21 |
| Trichloroethylene | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| Trichlorofluoromethane | | | <5.0 | | ug/L | | 5 | 28-APR-21 |
| Vinyl chloride | | | <0.50 | | ug/L | | 0.5 | 28-APR-21 |
| Surrogate: 1,4-Difluorobenzene | | | 99.7 | | % | | 70-130 | 28-APR-21 |
| Surrogate: 4-Bromofluorobenzene | | | 100.9 | | % | | 70-130 | 28-APR-21 |
| WG3524797-5 | MS | WG3524797-3 | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | 90.6 | | % | | 50-140 | 28-APR-21 |
| 1,1,2,2-Tetrachloroethane | | | 98.6 | | % | | 50-140 | 28-APR-21 |
| 1,1,1-Trichloroethane | | | 84.9 | | % | | 50-140 | 28-APR-21 |
| 1,1,2-Trichloroethane | | | 92.5 | | % | | 50-140 | 28-APR-21 |
| 1,1-Dichloroethane | | | 85.4 | | % | | 50-140 | 28-APR-21 |
| 1,1-Dichloroethylene | | | 81.3 | | % | | 50-140 | 28-APR-21 |
| 1,2-Dibromoethane | | | 91.7 | | % | | 50-140 | 28-APR-21 |
| 1,2-Dichlorobenzene | | | 95.3 | | % | | 50-140 | 28-APR-21 |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

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Client: DS Consultants (Vaughan)
6221 Highway 7 Unit 16
Vaughan ON L4H 0K8

Contact: KEITH CLARK

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-------------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5442254 | | | | | | | |
| WG3524797-5 | MS | WG3524797-3 | | | | | | |
| 1,2-Dichloroethane | | | 90.7 | | % | | 50-140 | 28-APR-21 |
| 1,2-Dichloropropane | | | 89.0 | | % | | 50-140 | 28-APR-21 |
| 1,3-Dichlorobenzene | | | 86.8 | | % | | 50-140 | 28-APR-21 |
| 1,4-Dichlorobenzene | | | 83.8 | | % | | 50-140 | 28-APR-21 |
| Acetone | | | 89.6 | | % | | 50-140 | 28-APR-21 |
| Benzene | | | 82.0 | | % | | 50-140 | 28-APR-21 |
| Bromodichloromethane | | | 89.4 | | % | | 50-140 | 28-APR-21 |
| Bromoform | | | 83.3 | | % | | 50-140 | 28-APR-21 |
| Bromomethane | | | 79.8 | | % | | 50-140 | 28-APR-21 |
| Carbon tetrachloride | | | 85.2 | | % | | 50-140 | 28-APR-21 |
| Chlorobenzene | | | 88.7 | | % | | 50-140 | 28-APR-21 |
| Chloroform | | | 88.1 | | % | | 50-140 | 28-APR-21 |
| cis-1,2-Dichloroethylene | | | 87.9 | | % | | 50-140 | 28-APR-21 |
| cis-1,3-Dichloropropene | | | 82.1 | | % | | 50-140 | 28-APR-21 |
| Dibromochloromethane | | | 87.9 | | % | | 50-140 | 28-APR-21 |
| Dichlorodifluoromethane | | | 74.2 | | % | | 50-140 | 28-APR-21 |
| Ethylbenzene | | | 87.3 | | % | | 50-140 | 28-APR-21 |
| n-Hexane | | | 70.5 | | % | | 50-140 | 28-APR-21 |
| m+p-Xylenes | | | 84.5 | | % | | 50-140 | 28-APR-21 |
| Methyl Ethyl Ketone | | | 101.1 | | % | | 50-140 | 28-APR-21 |
| Methyl Isobutyl Ketone | | | 80.2 | | % | | 50-140 | 28-APR-21 |
| Methylene Chloride | | | 72.5 | | % | | 50-140 | 28-APR-21 |
| MTBE | | | 91.7 | | % | | 50-140 | 28-APR-21 |
| o-Xylene | | | 96.8 | | % | | 50-140 | 28-APR-21 |
| Styrene | | | 87.8 | | % | | 50-140 | 28-APR-21 |
| Tetrachloroethylene | | | 86.6 | | % | | 50-140 | 28-APR-21 |
| Toluene | | | 84.1 | | % | | 50-140 | 28-APR-21 |
| trans-1,2-Dichloroethylene | | | 71.0 | | % | | 50-140 | 28-APR-21 |
| trans-1,3-Dichloropropene | | | 93.9 | | % | | 50-140 | 28-APR-21 |
| Trichloroethylene | | | 89.0 | | % | | 50-140 | 28-APR-21 |
| Trichlorofluoromethane | | | 79.5 | | % | | 50-140 | 28-APR-21 |
| Vinyl chloride | | | 90.5 | | % | | 50-140 | 28-APR-21 |

Quality Control Report

Workorder: L2579308

Report Date: 28-APR-21

Client: DS Consultants (Vaughan)
6221 Highway 7 Unit 16
Vaughan ON L4H 0K8

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Contact: KEITH CLARK

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 |
|-----------|---|
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |
| SURQC | Surrogate recovery marginally exceeded DQO in QC sample (MB, LCS, RM, or MS). Surrogates are less important for QC samples than for test samples. Refer to regular (non-surrogate) analyte results in affected QC sample for assessment of potential impacts to those analytes. |

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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.

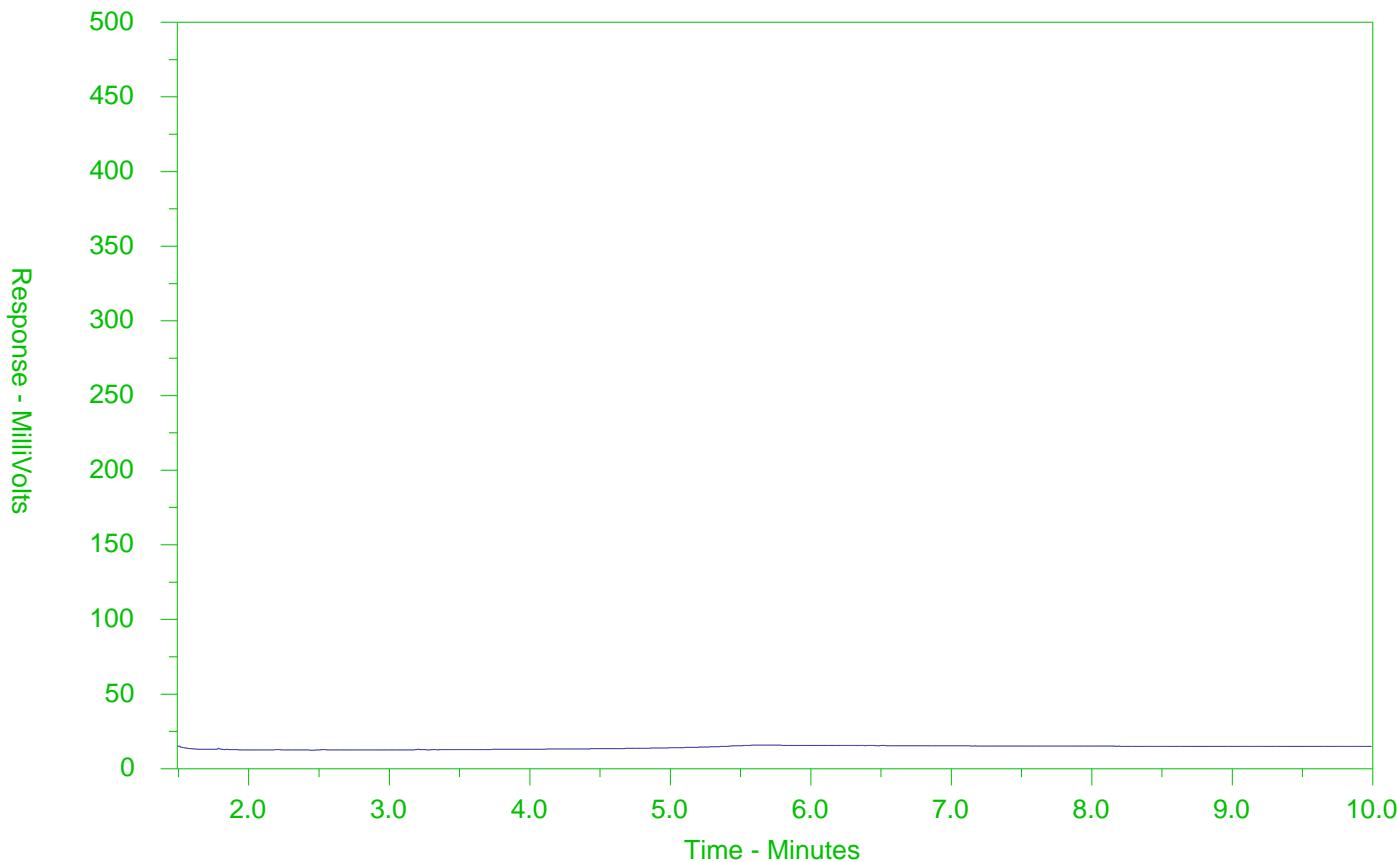
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide 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: L2579308-1
Client Sample ID: MW21-1



| 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.

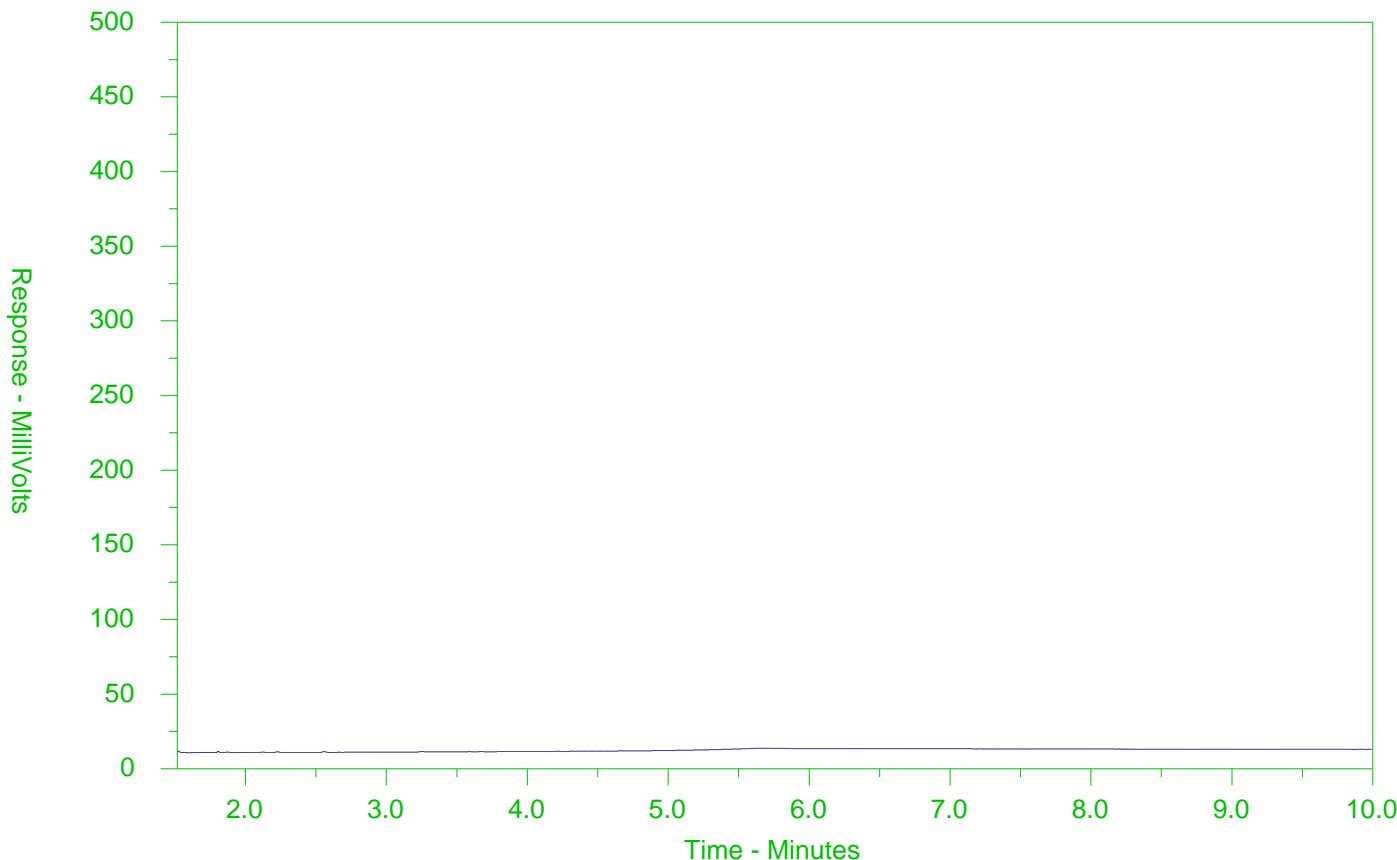
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2579308-2
Client Sample ID: MW20-24



| Hydrocarbon Distribution Report (F2-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.

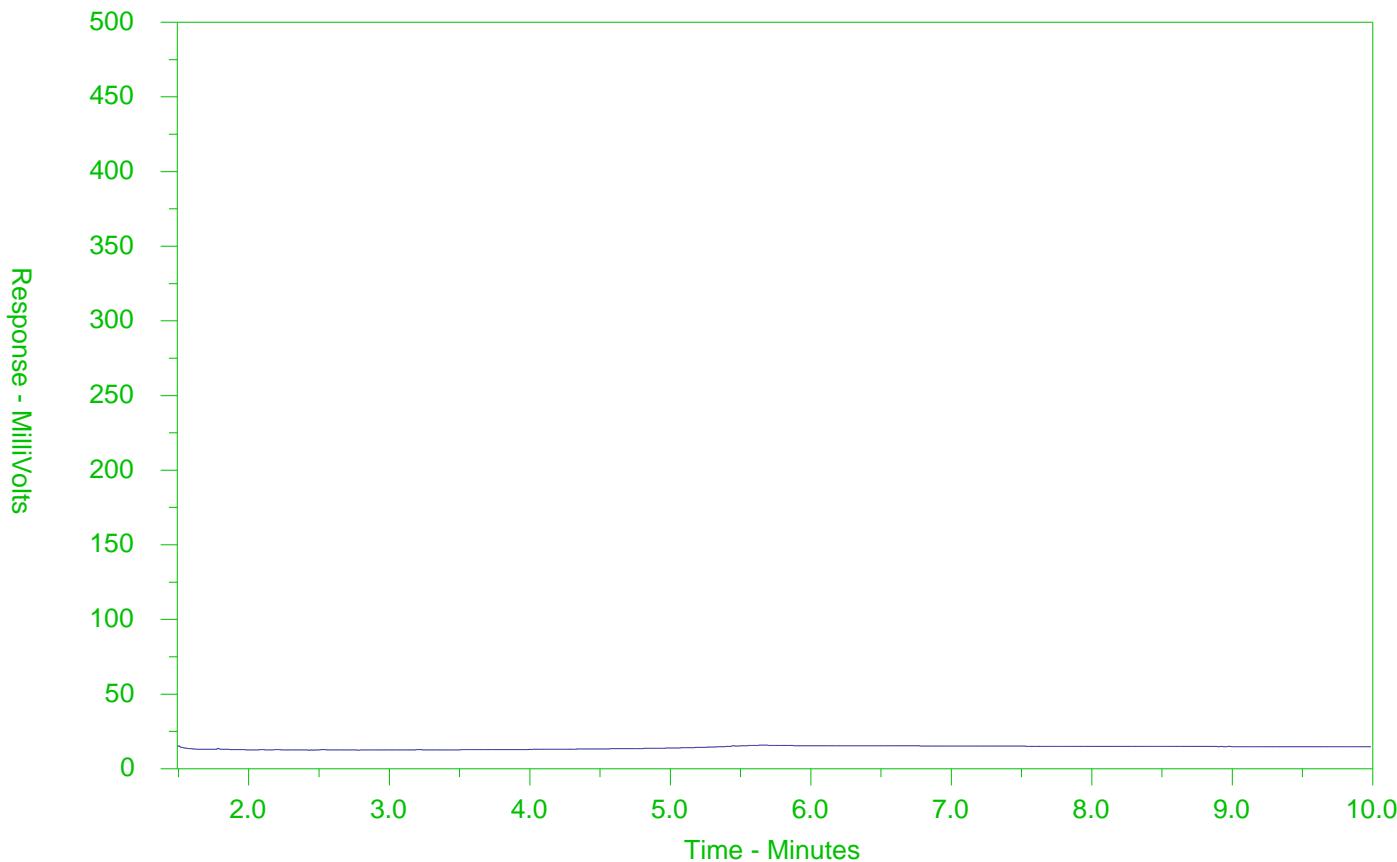
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

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: L2579308-3
Client Sample ID: MW10



| 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.



www.alsglobal.com

Chain of C



COC Number: 20-894372

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| | | | | | | | | | | | |
|--|--|--|---|--|--|--|--|--|---|--------------------------------|------------------------------|
| Report To | | Contact and company name below will appear on the final report | | Reports / Recipients | | Turnaround Time (TAT) Requested | | | | | |
| Company: | DS Consultants | | Select Report Format: | <input checked="" type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input checked="" type="checkbox"/> EDD (DIGITAL) | <input checked="" type="checkbox"/> Routine [R] if received by 3pm M-F - no surcharges apply | | | | | | |
| Contact: | Keith Clark | | Merge QC/QCI Reports with COA | <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A | <input type="checkbox"/> 4 day [P4] if received by 3pm M-F - 20% rush surcharge minimum | | | | AFFIX ALS BARCODE LABEL HERE (ALS use only) | | |
| Phone: | 519 463 7013 | | <input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked | | <input type="checkbox"/> 3 day [P3] if received by 3pm M-F - 25% rush surcharge minimum | | | | | | |
| Company address below will appear on the final report | | | | Select Distribution: | <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX | <input type="checkbox"/> 2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum | | | | | |
| Street: | 6221 Hwy 7, unit 16 | | Email 1 or Fax | Keith.Clark@dsconsultants.ca | | <input type="checkbox"/> 1 day [E] if received by 3pm M-F - 100% rush surcharge minimum | | | | | |
| City/Province: | Vaughan ON | | Email 2 | | | <input type="checkbox"/> Same day [E2] if received by 10am M-S - 200% rush surcharge. Additional fees may apply to rush requests on weekends, statutory holidays and non-routine tests | | | | | |
| Postal Code: | L4M 0L8 | | Email 3 | | | | | | | | |
| Invoice To | Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO | | Invoice Recipients | | Date and Time Required for all E&P TATs: | | For all tests with rush TATs requested, please contact your AM to confirm availability. | | | | |
| | | | | Select Invoice Distribution: | <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX | | | | | | |
| Company: | DS consultants | | Email 1 or Fax | | | | | | | | |
| Contact: | Keith Clark | | Email 2 | | | | | | | | |
| Project Information | | | | Oil and Gas Required Fields (client use) | | Analysis Request | | | | | |
| ALS Account # / Quote #: | | | AFE/Cost Center: | PO# | | Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below | | | | | |
| Job #: | 21-129-300 | | Major/Minor Code: | Routing Code: | | | | | | | |
| PO / AFE: | | | Requisitioner: | | | | | | | | |
| LSD: | | | Location: | | | | | | | | |
| ALS Lab Work Order # (ALS use only): L0579308 | | ALS Contact: | Sampler: | | | | | | | | |
| ALS Sample # (ALS use only) | Sample Identification and/or Coordinates (This description will appear on the report) | | Date (dd-mmm-yy) | Time (hh:mm) | Sample Type | NUMBER OF CONTAINERS | | | | SAMPLES ON HOLD | |
| | MW21-1 | | 021 APR 21 | 6W | 1 | F | | | | EXTENDED STORAGE REQUIRED | |
| | MW20-24 | | 21 APR 21 | 6W | 1 | F | | | | | |
| | MW10 | | 21 APR 21 | 6W | 1 | F | | | | SUSPECTED HAZARD (see notes) | |
| Drinking Water (DW) Samples ¹ (client use) | | Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only) | | | | SAMPLE RECEIPT DETAILS (ALS use only) | | | | | |
| Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | | | | | Cooling Method: | <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input type="checkbox"/> COOLING INITIATED | | | | |
| Are samples for human consumption/ use? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | | | | | Submission Comments identified on Sample Receipt Notification: | <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | |
| SHIPMENT RELEASE (client use) | | INITIAL SHIPMENT RECEIPTION (ALS use only) | | | | Cooler Custody Seals Intact: | <input type="checkbox"/> YES <input type="checkbox"/> N/A | Sample Custody Seals Intact: | <input type="checkbox"/> YES <input type="checkbox"/> N/A | INITIAL COOLER TEMPERATURES °C | FINAL COOLER TEMPERATURES °C |
| Released by: Braden Williams | Date: 21 APR 2021 | Time: | Received by: JL | Date: 1/2/2021 | Time: 5pm | Initial Temp: 19°C | Final Temp: 1.4 | FINAL SHIPMENT RECEIPTION (ALS use only) | | | |

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Failure to complete all sections of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

AUG 2020 FRONT



DS Consultants (Cambridge)
ATTN: KEITH CLARKE
380 Jamieson Parkway
Unit 6
Cambridge ON N3C 4N4

Date Received: 03-MAY-21
Report Date: 13-MAY-21 10:45 (MT)
Version: FINAL

Client Phone: 519-260-9393

Certificate of Analysis

Lab Work Order #: L2582823

Project P.O. #: NOT SUBMITTED

Job Reference: 21-129-300

C of C Numbers: 20-894436

Legal Site Desc:



Emily Hansen
Account Manager

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ANALYTICAL GUIDELINE REPORT

L2582823 CONTD....

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13-MAY-21 10:45 (MT)

21-129-300

| Sample Details | | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|---------------------------------------|---------|--------------|--------|-----------|-----------|--------|----------|------------------|----|----|
| Grouping | | | | | | | | #1 | #2 | #3 |
| L2582823-1 | MW21-11 | | | | | | | | | |
| Sampled By: | BHOOMI | on 03-MAY-21 | | | | | | | | |
| Matrix: | WATER | | | | | | | | | |
| Physical Tests | | | | | | | | | | |
| Conductivity | 0.539 | | 0.0030 | mS/cm | 06-MAY-21 | | | | | |
| pH | 7.73 | | 0.10 | pH units | 06-MAY-21 | | | | | |
| Anions and Nutrients | | | | | | | | | | |
| Chloride (Cl) | 3.40 | | 0.50 | mg/L | 06-MAY-21 | 790 | 790 | 790 | | |
| Cyanides | | | | | | | | | | |
| Cyanide, Weak Acid Diss | <2.0 | | 2.0 | ug/L | 04-MAY-21 | 5 | 66 | 66 | | |
| Dissolved Metals | | | | | | | | | | |
| Dissolved Mercury Filtration Location | FIELD | | | No Unit | 05-MAY-21 | | | | | |
| Dissolved Metals Filtration Location | FIELD | | | No Unit | 04-MAY-21 | | | | | |
| Antimony (Sb)-Dissolved | <0.10 | | 0.10 | ug/L | 05-MAY-21 | 1.5 | 6 | 6 | | |
| Arsenic (As)-Dissolved | 0.27 | | 0.10 | ug/L | 05-MAY-21 | 13 | 25 | 25 | | |
| Barium (Ba)-Dissolved | 31.9 | | 0.10 | ug/L | 05-MAY-21 | 610 | 1000 | 1000 | | |
| Beryllium (Be)-Dissolved | <0.10 | | 0.10 | ug/L | 05-MAY-21 | 0.5 | 4 | 4 | | |
| Boron (B)-Dissolved | 13 | | 10 | ug/L | 05-MAY-21 | 1700 | 5000 | 5000 | | |
| Cadmium (Cd)-Dissolved | 0.019 | | 0.010 | ug/L | 05-MAY-21 | 0.5 | 2.7 | 2.7 | | |
| Chromium (Cr)-Dissolved | 0.53 | | 0.50 | ug/L | 05-MAY-21 | 11 | 50 | 50 | | |
| Cobalt (Co)-Dissolved | 0.43 | | 0.10 | ug/L | 05-MAY-21 | 3.8 | 3.8 | 3.8 | | |
| Copper (Cu)-Dissolved | 0.66 | | 0.20 | ug/L | 05-MAY-21 | 5 | 87 | 87 | | |
| Lead (Pb)-Dissolved | 0.389 | | 0.050 | ug/L | 05-MAY-21 | 1.9 | 10 | 10 | | |
| Mercury (Hg)-Dissolved | <0.0050 | | 0.0050 | ug/L | 06-MAY-21 | 0.1 | 0.29 | 1 | | |
| Molybdenum (Mo)-Dissolved | 0.874 | | 0.050 | ug/L | 05-MAY-21 | 23 | 70 | 70 | | |
| Nickel (Ni)-Dissolved | 0.68 | | 0.50 | ug/L | 05-MAY-21 | 14 | 100 | 100 | | |
| Selenium (Se)-Dissolved | 0.234 | | 0.050 | ug/L | 05-MAY-21 | 5 | 10 | 10 | | |
| Silver (Ag)-Dissolved | <0.050 | | 0.050 | ug/L | 05-MAY-21 | 0.3 | 1.5 | 1.5 | | |
| Sodium (Na)-Dissolved | 2060 | | 500 | ug/L | 05-MAY-21 | 490000 | 490000 | 490000 | | |
| Thallium (Tl)-Dissolved | 0.011 | | 0.010 | ug/L | 05-MAY-21 | 0.5 | 2 | 2 | | |
| Uranium (U)-Dissolved | 0.322 | | 0.010 | ug/L | 05-MAY-21 | 8.9 | 20 | 20 | | |
| Vanadium (V)-Dissolved | <0.50 | | 0.50 | ug/L | 05-MAY-21 | 3.9 | 6.2 | 6.2 | | |
| Zinc (Zn)-Dissolved | 4.2 | | 1.0 | ug/L | 05-MAY-21 | 160 | 1100 | 1100 | | |
| Speciated Metals | | | | | | | | | | |
| Chromium, Hexavalent | <0.50 | | 0.50 | ug/L | 04-MAY-21 | 25 | 25 | 25 | | |
| Volatile Organic Compounds | | | | | | | | | | |
| Acetone | <30 | OWP | 30 | ug/L | 11-MAY-21 | 2700 | 2700 | 2700 | | |
| Benzene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 5 | 5 | | |
| Bromodichloromethane | <2.0 | OWP | 2.0 | ug/L | 11-MAY-21 | 2 | 16 | 16 | | |
| Bromoform | <5.0 | OWP | 5.0 | ug/L | 11-MAY-21 | 5 | 25 | 25 | | |
| Bromomethane | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.89 | 0.89 | 0.89 | | |
| Carbon tetrachloride | <0.20 | OWP | 0.20 | ug/L | 11-MAY-21 | 0.2 | 0.79 | 5 | | |
| Chlorobenzene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 30 | 30 | | |
| Dibromochloromethane | <2.0 | OWP | 2.0 | ug/L | 11-MAY-21 | 2 | 25 | 25 | | |
| Chloroform | <1.0 | OWP | 1.0 | ug/L | 11-MAY-21 | 2 | 2.4 | 22 | | |
| 1,2-Dibromoethane | <0.20 | OWP | 0.20 | ug/L | 11-MAY-21 | 0.2 | 0.2 | 0.2 | | |
| 1,2-Dichlorobenzene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 3 | 3 | | |
| 1,3-Dichlorobenzene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 59 | 59 | | |
| 1,4-Dichlorobenzene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 1 | 1 | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-WATER

#1: T1-Ground Water-All Types of Property Uses

#2: T2-Ground Water (Coarse Soil)-All Types of Property Use

#3: T2-Ground Water (Fine Soil)-All Types of Property Use



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ANALYTICAL GUIDELINE REPORT

21-129-300

| Sample Details | | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|---|---------|--------------|--------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | | | | | | | | #1 | #2 | #3 |
| L2582823-1 | MW21-11 | | | | | | | | | |
| Sampled By: | BHOOMI | on 03-MAY-21 | | | | | | | | |
| Matrix: | WATER | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | |
| Dichlorodifluoromethane | <2.0 | OWP | 2.0 | ug/L | 11-MAY-21 | 590 | 590 | 590 | | |
| 1,1-Dichloroethane | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 5 | 5 | | |
| 1,2-Dichloroethane | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 1.6 | 5 | | |
| 1,1-Dichloroethylene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 1.6 | 14 | | |
| cis-1,2-Dichloroethylene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 1.6 | 1.6 | 17 | | |
| trans-1,2-Dichloroethylene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 1.6 | 1.6 | 17 | | |
| Methylene Chloride | <5.0 | OWP | 5.0 | ug/L | 11-MAY-21 | 5 | 50 | 50 | | |
| 1,2-Dichloropropane | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 5 | 5 | | |
| cis-1,3-Dichloropropene | <0.30 | OWP | 0.30 | ug/L | 11-MAY-21 | | | | | |
| trans-1,3-Dichloropropene | <0.30 | OWP | 0.30 | ug/L | 11-MAY-21 | | | | | |
| 1,3-Dichloropropene (cis & trans) | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 0.5 | 0.5 | | |
| Ethylbenzene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 2.4 | 2.4 | | |
| n-Hexane | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 5 | 51 | 520 | | |
| Methyl Ethyl Ketone | <20 | OWP | 20 | ug/L | 11-MAY-21 | 400 | 1800 | 1800 | | |
| Methyl Isobutyl Ketone | <20 | OWP | 20 | ug/L | 11-MAY-21 | 640 | 640 | 640 | | |
| MTBE | <2.0 | OWP | 2.0 | ug/L | 11-MAY-21 | 15 | 15 | 15 | | |
| Styrene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 5.4 | 5.4 | | |
| 1,1,1,2-Tetrachloroethane | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 1.1 | 1.1 | 1.1 | | |
| 1,1,2,2-Tetrachloroethane | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 1 | 1 | | |
| Tetrachloroethylene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 1.6 | 17 | | |
| Toluene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.8 | 24 | 24 | | |
| 1,1,1-Trichloroethane | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 200 | 200 | | |
| 1,1,2-Trichloroethane | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 4.7 | 5 | | |
| Trichloroethylene | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 1.6 | 5 | | |
| Trichlorofluoromethane | <5.0 | OWP | 5.0 | ug/L | 11-MAY-21 | 150 | 150 | 150 | | |
| Vinyl chloride | <0.50 | OWP | 0.50 | ug/L | 11-MAY-21 | 0.5 | 0.5 | 1.7 | | |
| o-Xylene | <0.30 | OWP | 0.30 | ug/L | 11-MAY-21 | | | | | |
| m+p-Xylenes | <0.40 | OWP | 0.40 | ug/L | 11-MAY-21 | | | | | |
| Xylenes (Total) | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 72 | 300 | 300 | | |
| Surrogate: 4-Bromofluorobenzene | 110.8 | | 70-130 | % | 11-MAY-21 | | | | | |
| Surrogate: 1,4-Difluorobenzene | 99.6 | | 70-130 | % | 11-MAY-21 | | | | | |
| Hydrocarbons | | | | | | | | | | |
| F1 (C6-C10) | <25 | OWP | 25 | ug/L | 11-MAY-21 | 420 | 750 | 750 | | |
| F1-BTEX | <25 | | 25 | ug/L | 13-MAY-21 | 420 | 750 | 750 | | |
| F2 (C10-C16) | <100 | | 100 | ug/L | 06-MAY-21 | 150 | 150 | 150 | | |
| F2-Naphth | <100 | | 100 | ug/L | 13-MAY-21 | | | | | |
| F3 (C16-C34) | <250 | | 250 | ug/L | 06-MAY-21 | 500 | 500 | 500 | | |
| F3-PAH | <250 | | 250 | ug/L | 13-MAY-21 | | | | | |
| F4 (C34-C50) | <250 | | 250 | ug/L | 06-MAY-21 | 500 | 500 | 500 | | |
| Total Hydrocarbons (C6-C50) | <370 | | 370 | ug/L | 13-MAY-21 | | | | | |
| Chrom. to baseline at nC50 | YES | | | No Unit | 06-MAY-21 | | | | | |
| Surrogate: 2-Bromobenzotrifluoride | 96.1 | | 60-140 | % | 06-MAY-21 | | | | | |
| Surrogate: 3,4-Dichlorotoluene | 95.6 | | 60-140 | % | 11-MAY-21 | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | |
| Acenaphthene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 4.1 | 4.1 | 4.1 | | |
| Acenaphthylene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 1 | 1 | 1 | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-WATER

#1: T1-Ground Water-All Types of Property Uses

#2: T2-Ground Water (Coarse Soil)-All Types of Property Use

#3: T2-Ground Water (Fine Soil)-All Types of Property Use

ANALYTICAL GUIDELINE REPORT

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13-MAY-21 10:45 (MT)

21-129-300

| Sample Details | | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|---|------------|--------------|--------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | | | | | | | | #1 | #2 | #3 |
| L2582823-1 | MW21-11 | | | | | | | | | |
| Sampled By: | BHOOMI | on 03-MAY-21 | | | | | | | | |
| Matrix: | WATER | | | | | | | | | |
| Polycyclic Aromatic Hydrocarbons | | | | | | | | | | |
| Anthracene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 0.1 | 2.4 | 2.4 | | |
| Benzo(a)anthracene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 0.2 | 1 | 1 | | |
| Benzo(a)pyrene | <0.010 | | 0.010 | ug/L | 13-MAY-21 | 0.01 | 0.01 | 0.01 | | |
| Benzo(b&j)fluoranthene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 0.1 | 0.1 | 0.1 | | |
| Benzo(g,h,i)perylene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 0.2 | 0.2 | 0.2 | | |
| Benzo(k)fluoranthene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 0.1 | 0.1 | 0.1 | | |
| Chrysene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 0.1 | 0.1 | 0.1 | | |
| Dibenz(a,h)anthracene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 0.2 | 0.2 | 0.2 | | |
| Fluoranthene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 0.4 | 0.41 | 0.41 | | |
| Fluorene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 120 | 120 | 120 | | |
| Indeno(1,2,3-cd)pyrene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 0.2 | 0.2 | 0.2 | | |
| 1+2-Methylnaphthalenes | 0.086 | | 0.028 | ug/L | 13-MAY-21 | 2 | 3.2 | 3.2 | | |
| 1-Methylnaphthalene | 0.034 | | 0.020 | ug/L | 13-MAY-21 | 2 | 3.2 | 3.2 | | |
| 2-Methylnaphthalene | 0.052 | | 0.020 | ug/L | 13-MAY-21 | 2 | 3.2 | 3.2 | | |
| Naphthalene | <0.050 | | 0.050 | ug/L | 13-MAY-21 | 7 | 11 | 11 | | |
| Phenanthrene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 0.1 | 1 | 1 | | |
| Pyrene | <0.020 | | 0.020 | ug/L | 13-MAY-21 | 0.2 | 4.1 | 4.1 | | |
| Surrogate: Naphthalene d8 | 98.3 | | 60-140 | % | 13-MAY-21 | | | | | |
| Surrogate: Phenanthrene d10 | 104.0 | | 60-140 | % | 13-MAY-21 | | | | | |
| L2582823-2 | TRIP BLANK | | | | | | | | | |
| Sampled By: | BHOOMI | on 03-MAY-21 | | | | | | | | |
| Matrix: | WATER | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | |
| Acetone | <30 | | 30 | ug/L | 11-MAY-21 | 2700 | 2700 | 2700 | | |
| Benzene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 5 | 5 | | |
| Bromodichloromethane | <2.0 | | 2.0 | ug/L | 11-MAY-21 | 2 | 16 | 16 | | |
| Bromoform | <5.0 | | 5.0 | ug/L | 11-MAY-21 | 5 | 25 | 25 | | |
| Bromomethane | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.89 | 0.89 | 0.89 | | |
| Carbon tetrachloride | <0.20 | | 0.20 | ug/L | 11-MAY-21 | 0.2 | 0.79 | 5 | | |
| Chlorobenzene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 30 | 30 | | |
| Dibromochloromethane | <2.0 | | 2.0 | ug/L | 11-MAY-21 | 2 | 25 | 25 | | |
| Chloroform | <1.0 | | 1.0 | ug/L | 11-MAY-21 | 2 | 2.4 | 22 | | |
| 1,2-Dibromoethane | <0.20 | | 0.20 | ug/L | 11-MAY-21 | 0.2 | 0.2 | 0.2 | | |
| 1,2-Dichlorobenzene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 3 | 3 | | |
| 1,3-Dichlorobenzene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 59 | 59 | | |
| 1,4-Dichlorobenzene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 1 | 1 | | |
| Dichlorodifluoromethane | <2.0 | | 2.0 | ug/L | 11-MAY-21 | 590 | 590 | 590 | | |
| 1,1-Dichloroethane | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 5 | 5 | | |
| 1,2-Dichloroethane | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 1.6 | 5 | | |
| 1,1-Dichloroethylene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 1.6 | 14 | | |
| cis-1,2-Dichloroethylene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 1.6 | 1.6 | 17 | | |
| trans-1,2-Dichloroethylene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 1.6 | 1.6 | 17 | | |
| Methylene Chloride | <5.0 | | 5.0 | ug/L | 11-MAY-21 | 5 | 50 | 50 | | |
| 1,2-Dichloropropane | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 5 | 5 | | |
| cis-1,3-Dichloropropene | <0.30 | | 0.30 | ug/L | 11-MAY-21 | | | | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-WATER

#1: T1-Ground Water-All Types of Property Uses

#2: T2-Ground Water (Coarse Soil)-All Types of Property Use

#3: T2-Ground Water (Fine Soil)-All Types of Property Use



ANALYTICAL GUIDELINE REPORT

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21-129-300

| Sample Details | | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | |
|-----------------------------------|------------|--------------|--------|-----------|-----------|-------|----------|------------------|----|----|
| Grouping | | | | | | | | #1 | #2 | #3 |
| L2582823-2 | TRIP BLANK | | | | | | | | | |
| Sampled By: | BHOOMI | on 03-MAY-21 | | | | | | | | |
| Matrix: | WATER | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | |
| trans-1,3-Dichloropropene | <0.30 | | 0.30 | ug/L | 11-MAY-21 | | | | | |
| 1,3-Dichloropropene (cis & trans) | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 0.5 | 0.5 | | |
| Ethylbenzene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 2.4 | 2.4 | | |
| n-Hexane | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 5 | 51 | 520 | | |
| Methyl Ethyl Ketone | <20 | | 20 | ug/L | 11-MAY-21 | 400 | 1800 | 1800 | | |
| Methyl Isobutyl Ketone | <20 | | 20 | ug/L | 11-MAY-21 | 640 | 640 | 640 | | |
| MTBE | <2.0 | | 2.0 | ug/L | 11-MAY-21 | 15 | 15 | 15 | | |
| Styrene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 5.4 | 5.4 | | |
| 1,1,1,2-Tetrachloroethane | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 1.1 | 1.1 | 1.1 | | |
| 1,1,2,2-Tetrachloroethane | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 1 | 1 | | |
| Tetrachloroethylene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 1.6 | 17 | | |
| Toluene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.8 | 24 | 24 | | |
| 1,1,1-Trichloroethane | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 200 | 200 | | |
| 1,1,2-Trichloroethane | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 4.7 | 5 | | |
| Trichloroethylene | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 1.6 | 5 | | |
| Trichlorofluoromethane | <5.0 | | 5.0 | ug/L | 11-MAY-21 | 150 | 150 | 150 | | |
| Vinyl chloride | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 0.5 | 0.5 | 1.7 | | |
| o-Xylene | <0.30 | | 0.30 | ug/L | 11-MAY-21 | | | | | |
| m+p-Xylenes | <0.40 | | 0.40 | ug/L | 11-MAY-21 | | | | | |
| Xylenes (Total) | <0.50 | | 0.50 | ug/L | 11-MAY-21 | 72 | 300 | 300 | | |
| Surrogate: 4-Bromofluorobenzene | 97.4 | | 70-130 | % | 11-MAY-21 | | | | | |
| Surrogate: 1,4-Difluorobenzene | 100.7 | | 70-130 | % | 11-MAY-21 | | | | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Regulation 153/04 - April 15, 2011 Standards = [Suite] - ON-511-T1/T2-WATER

#1: T1-Ground Water-All Types of Property Uses

#2: T2-Ground Water (Coarse Soil)-All Types of Property Use

#3: T2-Ground Water (Fine Soil)-All Types of Property Use

Reference Information

Sample Parameter Qualifier key listed:

| Qualifier | Description |
|-----------|--|
| OWP | Organic water sample contained visible sediment (must be included as part of analysis). Measured concentrations of organic substances in water can be biased high due to presence of sediment. |

Methods Listed (if applicable):

| ALS Test Code | Matrix | Test Description | Method Reference*** |
|---------------|--------|------------------|---------------------|
| CL-IC-N-WT | Water | Chloride by IC | EPA 300.1 (mod) |

Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.

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).

| | | | |
|----------------|-------|----------------------------|--|
| CN-WAD-R511-WT | Water | Cyanide (WAD)-O.Reg 153/04 | APHA 4500CN I-Weak acid Dist Colorimet |
|----------------|-------|----------------------------|--|

Weak acid dissociable cyanide (WAD) is determined by undergoing a distillation procedure. 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-R511-WT | Water | Hex Chrom-O.Reg 153/04 (July 2011) | EPA 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. Chromium (III) is calculated as the difference between the total chromium and the chromium (VI) results.

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).

| | | | |
|------------|-------|---------------------------------------|-------------|
| EC-R511-WT | Water | Conductivity-O.Reg 153/04 (July 2011) | APHA 2510 B |
|------------|-------|---------------------------------------|-------------|

Water samples can be measured directly by immersing the conductivity cell into 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).

| | | | |
|--------------|-------|---|-----------|
| EC-SCREEN-WT | Water | Conductivity Screen (Internal Use Only) | APHA 2510 |
|--------------|-------|---|-----------|

Qualitative analysis of conductivity where required during preparation of other tests - e.g. TDS, metals, etc.

| | | | |
|-------------------|-------|---|-------------------------------------|
| F1-F4-511-CALC-WT | Water | F1-F4 Hydrocarbon Calculated Parameters | CCME CWS-PHC, Pub #1310, Dec 2001-L |
|-------------------|-------|---|-------------------------------------|

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

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 | Water | F1-O.Reg 153/04 (July 2011) | E3398/CCME TIER 1-HS |
|--------------|-------|-----------------------------|----------------------|

Fraction F1 is determined by 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).

Reference Information

F2-F4-511-WT Water F2-F4-O.Reg 153/04 (July 2011) EPA 3511/CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from water using a hexane micro-extraction technique. Instrumental analysis is by GC-FID, as per the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Tier 1 Method, CCME, 2001.

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-D-UG/L-CVAA-WT Water Diss. Mercury in Water by CVAAS (ug/L) EPA 1631E (mod)

Water samples are filtered (0.45 um), preserved with hydrochloric acid, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed 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-D-UG/L-MS-WT Water Diss. Metals in Water by ICPMS EPA 200.8 (ug/L)

The metal constituents of a non-acidified sample that pass through a membrane filter prior to ICP/MS analysis.

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 Water PAH-Calculated Parameters SW846 8270

PAH-511-WT Water PAH-O. Reg 153/04 (July 2011) SW846 3510/8270

Aqueous samples, fortified with surrogates, are extracted using liquid/liquid extraction technique. The sample extracts are concentrated and then analyzed using 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).

PH-WT Water pH APHA 4500 H-Electrode

Water samples are analyzed directly by a calibrated pH 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). Holdtime for samples under this regulation is 28 days

VOC-1,3-DCP-CALC-WT Water Regulation 153 VOCs SW8260B/SW8270C

VOC-511-HS-WT Water VOC by GCMS HS O.Reg 153/04 (July 2011) SW846 8260

Liquid samples are analyzed by headspace GC/MSD.

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 Water 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.

Chain of Custody numbers:

20-894436

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

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-adjusted weight

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.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------------------------|----------|-------------|---------|-----------|-------|-----|--------|-----------|
| F1-HS-511-WT | Water | | | | | | | |
| Batch | R5455351 | | | | | | | |
| WG3531645-4 | DUP | WG3531645-3 | | | | | | |
| F1 (C6-C10) | | <25 | <25 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 |
| WG3531645-1 | LCS | | | | | | | |
| F1 (C6-C10) | | 105.6 | | | % | | 80-120 | 10-MAY-21 |
| WG3531645-2 | MB | | | | | | | |
| F1 (C6-C10) | | <25 | | | ug/L | | 25 | 10-MAY-21 |
| Surrogate: 3,4-Dichlorotoluene | | 114.1 | | | % | | 60-140 | 10-MAY-21 |
| WG3531645-5 | MS | WG3531645-3 | | | | | | |
| F1 (C6-C10) | | 79.0 | | | % | | 60-140 | 11-MAY-21 |
| F2-F4-511-WT | Water | | | | | | | |
| Batch | R5453276 | | | | | | | |
| WG3528819-2 | LCS | | | | | | | |
| F2 (C10-C16) | | 99.5 | | | % | | 70-130 | 06-MAY-21 |
| F3 (C16-C34) | | 100.8 | | | % | | 70-130 | 06-MAY-21 |
| F4 (C34-C50) | | 98.5 | | | % | | 70-130 | 06-MAY-21 |
| WG3528819-1 | MB | | | | | | | |
| F2 (C10-C16) | | <100 | | | ug/L | | 100 | 06-MAY-21 |
| F3 (C16-C34) | | <250 | | | ug/L | | 250 | 06-MAY-21 |
| F4 (C34-C50) | | <250 | | | ug/L | | 250 | 06-MAY-21 |
| Surrogate: 2-Bromobenzotrifluoride | | 86.5 | | | % | | 60-140 | 06-MAY-21 |
| HG-D-UG/L-CVAA-WT | Water | | | | | | | |
| Batch | R5452461 | | | | | | | |
| WG3529752-4 | DUP | WG3529752-3 | | | | | | |
| Mercury (Hg)-Dissolved | | <0.0050 | <0.0050 | RPD-NA | ug/L | N/A | 20 | 06-MAY-21 |
| WG3529752-2 | LCS | | | | | | | |
| Mercury (Hg)-Dissolved | | 95.4 | | | % | | 80-120 | 06-MAY-21 |
| WG3529752-1 | MB | | | | | | | |
| Mercury (Hg)-Dissolved | | <0.0050 | | | ug/L | | 0.005 | 06-MAY-21 |
| WG3529752-6 | MS | WG3529752-5 | | | | | | |
| Mercury (Hg)-Dissolved | | 100.5 | | | % | | 70-130 | 06-MAY-21 |
| MET-D-UG/L-MS-WT | Water | | | | | | | |
| Batch | R5448979 | | | | | | | |
| WG3528382-4 | DUP | WG3528382-3 | | | | | | |
| Antimony (Sb)-Dissolved | | 0.21 | 0.21 | | ug/L | 0.9 | 20 | 04-MAY-21 |
| Arsenic (As)-Dissolved | | 0.92 | 0.91 | | ug/L | 1.1 | 20 | 04-MAY-21 |
| Barium (Ba)-Dissolved | | 66.0 | 67.7 | | ug/L | 2.6 | 20 | 04-MAY-21 |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|----------|-------------|--------|-----------|-------|--------|-----------|----------|
| MET-D-UG/L-MS-WT | Water | | | | | | | |
| Batch | R5448979 | | | | | | | |
| WG3528382-4 DUP | | WG3528382-3 | | | | | | |
| Beryllium (Be)-Dissolved | <0.10 | <0.10 | RPD-NA | ug/L | N/A | 20 | 04-MAY-21 | |
| Boron (B)-Dissolved | 78 | 77 | | ug/L | 0.6 | 20 | 04-MAY-21 | |
| Cadmium (Cd)-Dissolved | 0.0834 | 0.0802 | | ug/L | 3.9 | 20 | 04-MAY-21 | |
| Chromium (Cr)-Dissolved | 0.61 | 0.56 | | ug/L | 8.7 | 20 | 04-MAY-21 | |
| Cobalt (Co)-Dissolved | <0.10 | <0.10 | RPD-NA | ug/L | N/A | 20 | 04-MAY-21 | |
| Copper (Cu)-Dissolved | 4.43 | 4.45 | | ug/L | 0.4 | 20 | 04-MAY-21 | |
| Lead (Pb)-Dissolved | 0.177 | 0.179 | | ug/L | 1.1 | 20 | 04-MAY-21 | |
| Molybdenum (Mo)-Dissolved | 2.15 | 2.13 | | ug/L | 1.3 | 20 | 04-MAY-21 | |
| Nickel (Ni)-Dissolved | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 20 | 04-MAY-21 | |
| Selenium (Se)-Dissolved | 0.447 | 0.437 | | ug/L | 2.1 | 20 | 04-MAY-21 | |
| Silver (Ag)-Dissolved | <0.050 | <0.050 | RPD-NA | ug/L | N/A | 20 | 04-MAY-21 | |
| Sodium (Na)-Dissolved | 39900 | 39000 | | ug/L | 2.5 | 20 | 04-MAY-21 | |
| Thallium (Tl)-Dissolved | <0.010 | <0.010 | RPD-NA | ug/L | N/A | 20 | 04-MAY-21 | |
| Uranium (U)-Dissolved | 2.33 | 2.34 | | ug/L | 0.3 | 20 | 04-MAY-21 | |
| Vanadium (V)-Dissolved | 5.66 | 5.70 | | ug/L | 0.7 | 20 | 04-MAY-21 | |
| Zinc (Zn)-Dissolved | 44.8 | 45.2 | | ug/L | 1.0 | 20 | 04-MAY-21 | |
| WG3528382-2 LCS | | | | | | | | |
| Antimony (Sb)-Dissolved | | 94.6 | | % | | 80-120 | 04-MAY-21 | |
| Arsenic (As)-Dissolved | | 100.8 | | % | | 80-120 | 04-MAY-21 | |
| Barium (Ba)-Dissolved | | 101.4 | | % | | 80-120 | 04-MAY-21 | |
| Beryllium (Be)-Dissolved | | 99.9 | | % | | 80-120 | 04-MAY-21 | |
| Boron (B)-Dissolved | | 101.7 | | % | | 80-120 | 04-MAY-21 | |
| Cadmium (Cd)-Dissolved | | 97.9 | | % | | 80-120 | 04-MAY-21 | |
| Chromium (Cr)-Dissolved | | 97.7 | | % | | 80-120 | 04-MAY-21 | |
| Cobalt (Co)-Dissolved | | 96.5 | | % | | 80-120 | 04-MAY-21 | |
| Copper (Cu)-Dissolved | | 94.1 | | % | | 80-120 | 04-MAY-21 | |
| Lead (Pb)-Dissolved | | 98.0 | | % | | 80-120 | 04-MAY-21 | |
| Molybdenum (Mo)-Dissolved | | 93.5 | | % | | 80-120 | 04-MAY-21 | |
| Nickel (Ni)-Dissolved | | 94.0 | | % | | 80-120 | 04-MAY-21 | |
| Selenium (Se)-Dissolved | | 95.3 | | % | | 80-120 | 04-MAY-21 | |
| Silver (Ag)-Dissolved | | 98.1 | | % | | 80-120 | 04-MAY-21 | |
| Sodium (Na)-Dissolved | | 100.1 | | % | | 80-120 | 04-MAY-21 | |
| Thallium (Tl)-Dissolved | | 96.0 | | % | | 80-120 | 04-MAY-21 | |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|-----------------|--------------------|---------|-----------|-------|-----|--------|-----------|
| MET-D-UG/L-MS-WT | Water | | | | | | | |
| Batch | R5448979 | | | | | | | |
| WG3528382-2 LCS | | | | | | | | |
| Uranium (U)-Dissolved | | | 96.3 | | % | | 80-120 | 04-MAY-21 |
| Vanadium (V)-Dissolved | | | 102.0 | | % | | 80-120 | 04-MAY-21 |
| Zinc (Zn)-Dissolved | | | 96.5 | | % | | 80-120 | 04-MAY-21 |
| WG3528382-1 MB | | | | | | | | |
| Antimony (Sb)-Dissolved | | | <0.10 | | ug/L | | 0.1 | 04-MAY-21 |
| Arsenic (As)-Dissolved | | | <0.10 | | ug/L | | 0.1 | 04-MAY-21 |
| Barium (Ba)-Dissolved | | | <0.10 | | ug/L | | 0.1 | 04-MAY-21 |
| Beryllium (Be)-Dissolved | | | <0.10 | | ug/L | | 0.1 | 04-MAY-21 |
| Boron (B)-Dissolved | | | <10 | | ug/L | | 10 | 04-MAY-21 |
| Cadmium (Cd)-Dissolved | | | <0.0050 | | ug/L | | 0.005 | 04-MAY-21 |
| Chromium (Cr)-Dissolved | | | <0.50 | | ug/L | | 0.5 | 04-MAY-21 |
| Cobalt (Co)-Dissolved | | | <0.10 | | ug/L | | 0.1 | 04-MAY-21 |
| Copper (Cu)-Dissolved | | | <0.20 | | ug/L | | 0.2 | 04-MAY-21 |
| Lead (Pb)-Dissolved | | | <0.050 | | ug/L | | 0.05 | 04-MAY-21 |
| Molybdenum (Mo)-Dissolved | | | <0.050 | | ug/L | | 0.05 | 04-MAY-21 |
| Nickel (Ni)-Dissolved | | | <0.50 | | ug/L | | 0.5 | 04-MAY-21 |
| Selenium (Se)-Dissolved | | | <0.050 | | ug/L | | 0.05 | 04-MAY-21 |
| Silver (Ag)-Dissolved | | | <0.050 | | ug/L | | 0.05 | 04-MAY-21 |
| Sodium (Na)-Dissolved | | | <50 | | ug/L | | 50 | 04-MAY-21 |
| Thallium (Tl)-Dissolved | | | <0.010 | | ug/L | | 0.01 | 04-MAY-21 |
| Uranium (U)-Dissolved | | | <0.010 | | ug/L | | 0.01 | 04-MAY-21 |
| Vanadium (V)-Dissolved | | | <0.50 | | ug/L | | 0.5 | 04-MAY-21 |
| Zinc (Zn)-Dissolved | | | <1.0 | | ug/L | | 1 | 04-MAY-21 |
| WG3528382-5 MS | | WG3528382-6 | | | | | | |
| Antimony (Sb)-Dissolved | | | 100.6 | | % | | 70-130 | 04-MAY-21 |
| Arsenic (As)-Dissolved | | | 105.7 | | % | | 70-130 | 04-MAY-21 |
| Barium (Ba)-Dissolved | | | N/A | MS-B | % | | - | 04-MAY-21 |
| Beryllium (Be)-Dissolved | | | 104.9 | | % | | 70-130 | 04-MAY-21 |
| Boron (B)-Dissolved | | | N/A | MS-B | % | | - | 04-MAY-21 |
| Cadmium (Cd)-Dissolved | | | 96.9 | | % | | 70-130 | 04-MAY-21 |
| Chromium (Cr)-Dissolved | | | 98.3 | | % | | 70-130 | 04-MAY-21 |
| Cobalt (Co)-Dissolved | | | 95.5 | | % | | 70-130 | 04-MAY-21 |
| Copper (Cu)-Dissolved | | | 89.9 | | % | | 70-130 | 04-MAY-21 |
| Lead (Pb)-Dissolved | | | 95.3 | | % | | 70-130 | 04-MAY-21 |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------------------|--------|-----------|--------|-----------|-------|--------|-----------|----------|
| MET-D-UG/L-MS-WT Water | | | | | | | | |
| Batch R5448979 | | | | | | | | |
| WG3528382-5 MS WG3528382-6 | | | | | | | | |
| Molybdenum (Mo)-Dissolved | | N/A | | MS-B | % | - | 04-MAY-21 | |
| Nickel (Ni)-Dissolved | | 91.7 | | | % | 70-130 | 04-MAY-21 | |
| Selenium (Se)-Dissolved | | 99.5 | | | % | 70-130 | 04-MAY-21 | |
| Silver (Ag)-Dissolved | | 100.5 | | | % | 70-130 | 04-MAY-21 | |
| Sodium (Na)-Dissolved | | N/A | | MS-B | % | - | 04-MAY-21 | |
| Thallium (Tl)-Dissolved | | 95.0 | | | % | 70-130 | 04-MAY-21 | |
| Uranium (U)-Dissolved | | N/A | | MS-B | % | - | 04-MAY-21 | |
| Vanadium (V)-Dissolved | | 103.9 | | | % | 70-130 | 04-MAY-21 | |
| Zinc (Zn)-Dissolved | | 92.2 | | | % | 70-130 | 04-MAY-21 | |
| PAH-511-WT Water | | | | | | | | |
| Batch R5455570 | | | | | | | | |
| WG3532131-2 LCS | | | | | | | | |
| 1-Methylnaphthalene | | 84.1 | | | % | 50-140 | 11-MAY-21 | |
| 2-Methylnaphthalene | | 80.0 | | | % | 50-140 | 11-MAY-21 | |
| Acenaphthene | | 92.3 | | | % | 50-140 | 11-MAY-21 | |
| Acenaphthylene | | 91.0 | | | % | 50-140 | 11-MAY-21 | |
| Anthracene | | 95.1 | | | % | 50-140 | 11-MAY-21 | |
| Benzo(a)anthracene | | 96.2 | | | % | 50-140 | 11-MAY-21 | |
| Benzo(a)pyrene | | 92.9 | | | % | 50-140 | 11-MAY-21 | |
| Benzo(b&j)fluoranthene | | 91.8 | | | % | 50-140 | 11-MAY-21 | |
| Benzo(g,h,i)perylene | | 116.3 | | | % | 50-140 | 11-MAY-21 | |
| Benzo(k)fluoranthene | | 92.5 | | | % | 50-140 | 11-MAY-21 | |
| Chrysene | | 94.2 | | | % | 50-140 | 11-MAY-21 | |
| Dibenz(a,h)anthracene | | 99.1 | | | % | 50-140 | 11-MAY-21 | |
| Fluoranthene | | 97.8 | | | % | 50-140 | 11-MAY-21 | |
| Fluorene | | 93.6 | | | % | 50-140 | 11-MAY-21 | |
| Indeno(1,2,3-cd)pyrene | | 115.5 | | | % | 50-140 | 11-MAY-21 | |
| Naphthalene | | 86.9 | | | % | 50-140 | 11-MAY-21 | |
| Phenanthrene | | 99.0 | | | % | 50-140 | 11-MAY-21 | |
| Pyrene | | 95.0 | | | % | 50-140 | 11-MAY-21 | |
| WG3532131-1 MB | | | | | | | | |
| 1-Methylnaphthalene | | <0.020 | | | ug/L | 0.02 | 11-MAY-21 | |
| 2-Methylnaphthalene | | <0.020 | | | ug/L | 0.02 | 11-MAY-21 | |
| Acenaphthene | | <0.020 | | | ug/L | 0.02 | 11-MAY-21 | |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|-----------------------------|-----------------|--------------------|--------|-----------|----------|------|-----------|-----------|
| PAH-511-WT | Water | | | | | | | |
| Batch | R5455570 | | | | | | | |
| WG3532131-1 MB | | | | | | | | |
| Acenaphthylene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Anthracene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Benzo(a)anthracene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Benzo(a)pyrene | | | <0.010 | | ug/L | | 0.01 | 11-MAY-21 |
| Benzo(b&j)fluoranthene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Benzo(g,h,i)perylene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Benzo(k)fluoranthene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Chrysene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Dibenz(a,h)anthracene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Fluoranthene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Fluorene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Indeno(1,2,3-cd)pyrene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Naphthalene | | | <0.050 | | ug/L | | 0.05 | 11-MAY-21 |
| Phenanthrene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Pyrene | | | <0.020 | | ug/L | | 0.02 | 11-MAY-21 |
| Surrogate: Naphthalene d8 | | | 99.9 | | % | | 60-140 | 11-MAY-21 |
| Surrogate: Phenanthrene d10 | | | 96.4 | | % | | 60-140 | 11-MAY-21 |
| PH-WT | Water | | | | | | | |
| Batch | R5455110 | | | | | | | |
| WG3530200-4 DUP | | WG3530200-3 | | | | | | |
| pH | 7.86 | 7.79 | J | | pH units | 0.07 | 0.2 | 06-MAY-21 |
| WG3530200-2 LCS | | | | | | | | |
| pH | | 7.01 | | | pH units | | 6.9-7.1 | 06-MAY-21 |
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5455351 | | | | | | | |
| WG3531645-4 DUP | | WG3531645-3 | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,1,2,2-Tetrachloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,1,1-Trichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,1,2-Trichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,1-Dichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,1-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,2-Dibromoethane | <0.20 | <0.20 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,2-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-------------|--------|-----------|-------|-----|-----------|----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5455351 | | | | | | | |
| WG3531645-4 | DUP | WG3531645-3 | | | | | | |
| 1,2-Dichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,2-Dichloropropane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,3-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,4-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Acetone | <30 | <30 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Benzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Bromodichloromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Bromoform | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Bromomethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Carbon tetrachloride | <0.20 | <0.20 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Chlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Chloroform | <1.0 | <1.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| cis-1,2-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| cis-1,3-Dichloropropene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Dibromochloromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Dichlorodifluoromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Ethylbenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| n-Hexane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| m+p-Xylenes | <0.40 | <0.40 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Methyl Ethyl Ketone | <20 | <20 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Methyl Isobutyl Ketone | <20 | <20 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Methylene Chloride | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| MTBE | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| o-Xylene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Styrene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Tetrachloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Toluene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| trans-1,2-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| trans-1,3-Dichloropropene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Trichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Trichlorofluoromethane | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Vinyl chloride | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |

WG3531645-1 LCS

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|----------|-----------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5455351 | | | | | | | |
| WG3531645-1 | LCS | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | 111.6 | | % | | 70-130 | 10-MAY-21 |
| 1,1,2,2-Tetrachloroethane | | | 123.5 | | % | | 70-130 | 10-MAY-21 |
| 1,1,1-Trichloroethane | | | 106.4 | | % | | 70-130 | 10-MAY-21 |
| 1,1,2-Trichloroethane | | | 106.2 | | % | | 70-130 | 10-MAY-21 |
| 1,1-Dichloroethane | | | 106.8 | | % | | 70-130 | 10-MAY-21 |
| 1,1-Dichloroethylene | | | 108.4 | | % | | 70-130 | 10-MAY-21 |
| 1,2-Dibromoethane | | | 104.9 | | % | | 70-130 | 10-MAY-21 |
| 1,2-Dichlorobenzene | | | 101.7 | | % | | 70-130 | 10-MAY-21 |
| 1,2-Dichloroethane | | | 100.9 | | % | | 70-130 | 10-MAY-21 |
| 1,2-Dichloropropane | | | 104.1 | | % | | 70-130 | 10-MAY-21 |
| 1,3-Dichlorobenzene | | | 101.4 | | % | | 70-130 | 10-MAY-21 |
| 1,4-Dichlorobenzene | | | 103.3 | | % | | 70-130 | 10-MAY-21 |
| Acetone | | | 112.1 | | % | | 60-140 | 10-MAY-21 |
| Benzene | | | 103.3 | | % | | 70-130 | 10-MAY-21 |
| Bromodichloromethane | | | 111.2 | | % | | 70-130 | 10-MAY-21 |
| Bromoform | | | 131.4 | MES | % | | 70-130 | 10-MAY-21 |
| Bromomethane | | | 103.1 | | % | | 60-140 | 10-MAY-21 |
| Carbon tetrachloride | | | 109.1 | | % | | 70-130 | 10-MAY-21 |
| Chlorobenzene | | | 101.8 | | % | | 70-130 | 10-MAY-21 |
| Chloroform | | | 109.7 | | % | | 70-130 | 10-MAY-21 |
| cis-1,2-Dichloroethylene | | | 108.8 | | % | | 70-130 | 10-MAY-21 |
| cis-1,3-Dichloropropene | | | 101.4 | | % | | 70-130 | 10-MAY-21 |
| Dibromochloromethane | | | 109.1 | | % | | 70-130 | 10-MAY-21 |
| Dichlorodifluoromethane | | | 102.2 | | % | | 50-140 | 10-MAY-21 |
| Ethylbenzene | | | 104.9 | | % | | 70-130 | 10-MAY-21 |
| n-Hexane | | | 104.8 | | % | | 70-130 | 10-MAY-21 |
| m+p-Xylenes | | | 100.6 | | % | | 70-130 | 10-MAY-21 |
| Methyl Ethyl Ketone | | | 104.9 | | % | | 60-140 | 10-MAY-21 |
| Methyl Isobutyl Ketone | | | 115.2 | | % | | 60-140 | 10-MAY-21 |
| Methylene Chloride | | | 108.0 | | % | | 70-130 | 10-MAY-21 |
| MTBE | | | 100.8 | | % | | 70-130 | 10-MAY-21 |
| o-Xylene | | | 114.3 | | % | | 70-130 | 10-MAY-21 |
| Styrene | | | 116.2 | | % | | 70-130 | 10-MAY-21 |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-----------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5455351 | | | | | | | |
| WG3531645-1 | LCS | | | | | | | |
| Tetrachloroethylene | | | 100.1 | | % | | 70-130 | 10-MAY-21 |
| Toluene | | | 102.7 | | % | | 70-130 | 10-MAY-21 |
| trans-1,2-Dichloroethylene | | | 106.8 | | % | | 70-130 | 10-MAY-21 |
| trans-1,3-Dichloropropene | | | 100.1 | | % | | 70-130 | 10-MAY-21 |
| Trichloroethylene | | | 101.2 | | % | | 70-130 | 10-MAY-21 |
| Trichlorofluoromethane | | | 109.4 | | % | | 60-140 | 10-MAY-21 |
| Vinyl chloride | | | 114.4 | | % | | 60-140 | 10-MAY-21 |
| WG3531645-2 | MB | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| 1,1,2,2-Tetrachloroethane | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| 1,1,1-Trichloroethane | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| 1,1,2-Trichloroethane | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| 1,1-Dichloroethane | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| 1,1-Dichloroethylene | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| 1,2-Dibromoethane | | | <0.20 | | ug/L | | 0.2 | 10-MAY-21 |
| 1,2-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| 1,2-Dichloroethane | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| 1,2-Dichloropropane | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| 1,3-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| 1,4-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| Acetone | | | <30 | | ug/L | | 30 | 10-MAY-21 |
| Benzene | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| Bromodichloromethane | | | <2.0 | | ug/L | | 2 | 10-MAY-21 |
| Bromoform | | | <5.0 | | ug/L | | 5 | 10-MAY-21 |
| Bromomethane | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| Carbon tetrachloride | | | <0.20 | | ug/L | | 0.2 | 10-MAY-21 |
| Chlorobenzene | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| Chloroform | | | <1.0 | | ug/L | | 1 | 10-MAY-21 |
| cis-1,2-Dichloroethylene | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| cis-1,3-Dichloropropene | | | <0.30 | | ug/L | | 0.3 | 10-MAY-21 |
| Dibromochloromethane | | | <2.0 | | ug/L | | 2 | 10-MAY-21 |
| Dichlorodifluoromethane | | | <2.0 | | ug/L | | 2 | 10-MAY-21 |
| Ethylbenzene | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |
| n-Hexane | | | <0.50 | | ug/L | | 0.5 | 10-MAY-21 |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|----------|-------------|--------|-----------|-------|--------|-----------|----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5455351 | | | | | | | |
| WG3531645-2 | MB | | | | | | | |
| m+p-Xylenes | | | <0.40 | | ug/L | 0.4 | 10-MAY-21 | |
| Methyl Ethyl Ketone | | | <20 | | ug/L | 20 | 10-MAY-21 | |
| Methyl Isobutyl Ketone | | | <20 | | ug/L | 20 | 10-MAY-21 | |
| Methylene Chloride | | | <5.0 | | ug/L | 5 | 10-MAY-21 | |
| MTBE | | | <2.0 | | ug/L | 2 | 10-MAY-21 | |
| o-Xylene | | | <0.30 | | ug/L | 0.3 | 10-MAY-21 | |
| Styrene | | | <0.50 | | ug/L | 0.5 | 10-MAY-21 | |
| Tetrachloroethylene | | | <0.50 | | ug/L | 0.5 | 10-MAY-21 | |
| Toluene | | | <0.50 | | ug/L | 0.5 | 10-MAY-21 | |
| trans-1,2-Dichloroethylene | | | <0.50 | | ug/L | 0.5 | 10-MAY-21 | |
| trans-1,3-Dichloropropene | | | <0.30 | | ug/L | 0.3 | 10-MAY-21 | |
| Trichloroethylene | | | <0.50 | | ug/L | 0.5 | 10-MAY-21 | |
| Trichlorofluoromethane | | | <5.0 | | ug/L | 5 | 10-MAY-21 | |
| Vinyl chloride | | | <0.50 | | ug/L | 0.5 | 10-MAY-21 | |
| Surrogate: 1,4-Difluorobenzene | | | 99.8 | | % | 70-130 | 10-MAY-21 | |
| Surrogate: 4-Bromofluorobenzene | | | 110.5 | | % | 70-130 | 10-MAY-21 | |
| WG3531645-5 | MS | WG3531645-3 | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | 97.8 | | % | 50-140 | 11-MAY-21 | |
| 1,1,2,2-Tetrachloroethane | | | 100.7 | | % | 50-140 | 11-MAY-21 | |
| 1,1,1-Trichloroethane | | | 94.6 | | % | 50-140 | 11-MAY-21 | |
| 1,1,2-Trichloroethane | | | 94.4 | | % | 50-140 | 11-MAY-21 | |
| 1,1-Dichloroethane | | | 95.2 | | % | 50-140 | 11-MAY-21 | |
| 1,1-Dichloroethylene | | | 96.8 | | % | 50-140 | 11-MAY-21 | |
| 1,2-Dibromoethane | | | 94.9 | | % | 50-140 | 11-MAY-21 | |
| 1,2-Dichlorobenzene | | | 92.3 | | % | 50-140 | 11-MAY-21 | |
| 1,2-Dichloroethane | | | 90.1 | | % | 50-140 | 11-MAY-21 | |
| 1,2-Dichloropropane | | | 92.6 | | % | 50-140 | 11-MAY-21 | |
| 1,3-Dichlorobenzene | | | 92.7 | | % | 50-140 | 11-MAY-21 | |
| 1,4-Dichlorobenzene | | | 93.0 | | % | 50-140 | 11-MAY-21 | |
| Acetone | | | 97.5 | | % | 50-140 | 11-MAY-21 | |
| Benzene | | | 91.6 | | % | 50-140 | 11-MAY-21 | |
| Bromodichloromethane | | | 98.8 | | % | 50-140 | 11-MAY-21 | |
| Bromoform | | | 105.3 | | % | 50-140 | 11-MAY-21 | |
| Bromomethane | | | 91.6 | | % | 50-140 | 11-MAY-21 | |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|-----------------|-------------|--------|-----------|-------|--------|-----------|----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch R5455351 | WG3531645-5 MS | WG3531645-3 | | | | | | |
| Carbon tetrachloride | 97.3 | | | % | | 50-140 | 11-MAY-21 | |
| Chlorobenzene | 91.7 | | | % | | 50-140 | 11-MAY-21 | |
| Chloroform | 98.1 | | | % | | 50-140 | 11-MAY-21 | |
| cis-1,2-Dichloroethylene | 97.1 | | | % | | 50-140 | 11-MAY-21 | |
| cis-1,3-Dichloropropene | 90.5 | | | % | | 50-140 | 11-MAY-21 | |
| Dibromochloromethane | 96.1 | | | % | | 50-140 | 11-MAY-21 | |
| Dichlorodifluoromethane | 101.1 | | | % | | 50-140 | 11-MAY-21 | |
| Ethylbenzene | 93.9 | | | % | | 50-140 | 11-MAY-21 | |
| n-Hexane | 92.0 | | | % | | 50-140 | 11-MAY-21 | |
| m+p-Xylenes | 90.4 | | | % | | 50-140 | 11-MAY-21 | |
| Methyl Ethyl Ketone | 90.6 | | | % | | 50-140 | 11-MAY-21 | |
| Methyl Isobutyl Ketone | 97.2 | | | % | | 50-140 | 11-MAY-21 | |
| Methylene Chloride | 95.9 | | | % | | 50-140 | 11-MAY-21 | |
| MTBE | 93.8 | | | % | | 50-140 | 11-MAY-21 | |
| o-Xylene | 101.7 | | | % | | 50-140 | 11-MAY-21 | |
| Styrene | 100.5 | | | % | | 50-140 | 11-MAY-21 | |
| Tetrachloroethylene | 92.7 | | | % | | 50-140 | 11-MAY-21 | |
| Toluene | 93.7 | | | % | | 50-140 | 11-MAY-21 | |
| trans-1,2-Dichloroethylene | 95.6 | | | % | | 50-140 | 11-MAY-21 | |
| trans-1,3-Dichloropropene | 89.8 | | | % | | 50-140 | 11-MAY-21 | |
| Trichloroethylene | 90.8 | | | % | | 50-140 | 11-MAY-21 | |
| Trichlorofluoromethane | 98.4 | | | % | | 50-140 | 11-MAY-21 | |
| Vinyl chloride | 103.8 | | | % | | 50-140 | 11-MAY-21 | |
| Batch R5455648 | WG3532222-4 DUP | WG3532222-3 | | | | | | |
| 1,1,1,2-Tetrachloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,1,2,2-Tetrachloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,1,1-Trichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,1,2-Trichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,1-Dichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,1-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,2-Dibromoethane | <0.20 | <0.20 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,2-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|-------------|--------|-----------|-------|-----|-----------|----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5455648 | | | | | | | |
| WG3532222-4 | DUP | WG3532222-3 | | | | | | |
| 1,2-Dichloroethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,2-Dichloropropane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,3-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| 1,4-Dichlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Acetone | <30 | <30 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Benzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Bromodichloromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Bromoform | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Bromomethane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Carbon tetrachloride | <0.20 | <0.20 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Chlorobenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Chloroform | <1.0 | <1.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| cis-1,2-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| cis-1,3-Dichloropropene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Dibromochloromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Dichlorodifluoromethane | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Ethylbenzene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| n-Hexane | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| m+p-Xylenes | <0.40 | <0.40 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Methyl Ethyl Ketone | <20 | <20 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Methyl Isobutyl Ketone | <20 | <20 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Methylene Chloride | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| MTBE | <2.0 | <2.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| o-Xylene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Styrene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Tetrachloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Toluene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| trans-1,2-Dichloroethylene | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| trans-1,3-Dichloropropene | <0.30 | <0.30 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Trichloroethylene | 0.55 | 0.59 | | ug/L | 7.0 | 30 | 11-MAY-21 | |
| Trichlorofluoromethane | <5.0 | <5.0 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |
| Vinyl chloride | <0.50 | <0.50 | RPD-NA | ug/L | N/A | 30 | 11-MAY-21 | |

WG3532222-1 LCS

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------|----------|-----------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5455648 | | | | | | | |
| WG3532222-1 | LCS | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | 95.6 | | % | | 70-130 | 11-MAY-21 |
| 1,1,2,2-Tetrachloroethane | | | 91.9 | | % | | 70-130 | 11-MAY-21 |
| 1,1,1-Trichloroethane | | | 94.0 | | % | | 70-130 | 11-MAY-21 |
| 1,1,2-Trichloroethane | | | 91.9 | | % | | 70-130 | 11-MAY-21 |
| 1,1-Dichloroethane | | | 90.2 | | % | | 70-130 | 11-MAY-21 |
| 1,1-Dichloroethylene | | | 97.1 | | % | | 70-130 | 11-MAY-21 |
| 1,2-Dibromoethane | | | 89.9 | | % | | 70-130 | 11-MAY-21 |
| 1,2-Dichlorobenzene | | | 98.6 | | % | | 70-130 | 11-MAY-21 |
| 1,2-Dichloroethane | | | 91.0 | | % | | 70-130 | 11-MAY-21 |
| 1,2-Dichloropropane | | | 96.9 | | % | | 70-130 | 11-MAY-21 |
| 1,3-Dichlorobenzene | | | 104.0 | | % | | 70-130 | 11-MAY-21 |
| 1,4-Dichlorobenzene | | | 104.0 | | % | | 70-130 | 11-MAY-21 |
| Acetone | | | 92.5 | | % | | 60-140 | 11-MAY-21 |
| Benzene | | | 94.0 | | % | | 70-130 | 11-MAY-21 |
| Bromodichloromethane | | | 99.0 | | % | | 70-130 | 11-MAY-21 |
| Bromoform | | | 102.3 | | % | | 70-130 | 11-MAY-21 |
| Bromomethane | | | 94.2 | | % | | 60-140 | 11-MAY-21 |
| Carbon tetrachloride | | | 97.0 | | % | | 70-130 | 11-MAY-21 |
| Chlorobenzene | | | 95.6 | | % | | 70-130 | 11-MAY-21 |
| Chloroform | | | 97.6 | | % | | 70-130 | 11-MAY-21 |
| cis-1,2-Dichloroethylene | | | 99.2 | | % | | 70-130 | 11-MAY-21 |
| cis-1,3-Dichloropropene | | | 104.5 | | % | | 70-130 | 11-MAY-21 |
| Dibromochloromethane | | | 88.4 | | % | | 70-130 | 11-MAY-21 |
| Dichlorodifluoromethane | | | 91.4 | | % | | 50-140 | 11-MAY-21 |
| Ethylbenzene | | | 96.2 | | % | | 70-130 | 11-MAY-21 |
| n-Hexane | | | 94.5 | | % | | 70-130 | 11-MAY-21 |
| m+p-Xylenes | | | 100.1 | | % | | 70-130 | 11-MAY-21 |
| Methyl Ethyl Ketone | | | 85.1 | | % | | 60-140 | 11-MAY-21 |
| Methyl Isobutyl Ketone | | | 78.2 | | % | | 60-140 | 11-MAY-21 |
| Methylene Chloride | | | 98.0 | | % | | 70-130 | 11-MAY-21 |
| MTBE | | | 94.3 | | % | | 70-130 | 11-MAY-21 |
| o-Xylene | | | 105.4 | | % | | 70-130 | 11-MAY-21 |
| Styrene | | | 100.6 | | % | | 70-130 | 11-MAY-21 |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|------------|-----------|--------|-----------|-------|-----|--------|-----------|
| VOC-511-HS-WT | | Water | | | | | | |
| Batch R5455648 | | | | | | | | |
| WG3532222-1 | LCS | | | | | | | |
| Tetrachloroethylene | | | 96.5 | | % | | 70-130 | 11-MAY-21 |
| Toluene | | | 94.0 | | % | | 70-130 | 11-MAY-21 |
| trans-1,2-Dichloroethylene | | | 99.7 | | % | | 70-130 | 11-MAY-21 |
| trans-1,3-Dichloropropene | | | 99.3 | | % | | 70-130 | 11-MAY-21 |
| Trichloroethylene | | | 97.1 | | % | | 70-130 | 11-MAY-21 |
| Trichlorofluoromethane | | | 96.5 | | % | | 60-140 | 11-MAY-21 |
| Vinyl chloride | | | 101.7 | | % | | 60-140 | 11-MAY-21 |
| WG3532222-2 | MB | | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| 1,1,2,2-Tetrachloroethane | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| 1,1,1-Trichloroethane | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| 1,1,2-Trichloroethane | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| 1,1-Dichloroethane | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| 1,1-Dichloroethylene | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| 1,2-Dibromoethane | | | <0.20 | | ug/L | | 0.2 | 11-MAY-21 |
| 1,2-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| 1,2-Dichloroethane | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| 1,2-Dichloropropane | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| 1,3-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| 1,4-Dichlorobenzene | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| Acetone | | | <30 | | ug/L | | 30 | 11-MAY-21 |
| Benzene | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| Bromodichloromethane | | | <2.0 | | ug/L | | 2 | 11-MAY-21 |
| Bromoform | | | <5.0 | | ug/L | | 5 | 11-MAY-21 |
| Bromomethane | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| Carbon tetrachloride | | | <0.20 | | ug/L | | 0.2 | 11-MAY-21 |
| Chlorobenzene | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| Chloroform | | | <1.0 | | ug/L | | 1 | 11-MAY-21 |
| cis-1,2-Dichloroethylene | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| cis-1,3-Dichloropropene | | | <0.30 | | ug/L | | 0.3 | 11-MAY-21 |
| Dibromochloromethane | | | <2.0 | | ug/L | | 2 | 11-MAY-21 |
| Dichlorodifluoromethane | | | <2.0 | | ug/L | | 2 | 11-MAY-21 |
| Ethylbenzene | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |
| n-Hexane | | | <0.50 | | ug/L | | 0.5 | 11-MAY-21 |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|---------------------------------|----------|------------|--------|-----------|-------|--------|-----------|----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5455648 | | | | | | | |
| WG3532222-2 | MB | | | | | | | |
| m+p-Xylenes | | | <0.40 | | ug/L | 0.4 | 11-MAY-21 | |
| Methyl Ethyl Ketone | | | <20 | | ug/L | 20 | 11-MAY-21 | |
| Methyl Isobutyl Ketone | | | <20 | | ug/L | 20 | 11-MAY-21 | |
| Methylene Chloride | | | <5.0 | | ug/L | 5 | 11-MAY-21 | |
| MTBE | | | <2.0 | | ug/L | 2 | 11-MAY-21 | |
| o-Xylene | | | <0.30 | | ug/L | 0.3 | 11-MAY-21 | |
| Styrene | | | <0.50 | | ug/L | 0.5 | 11-MAY-21 | |
| Tetrachloroethylene | | | <0.50 | | ug/L | 0.5 | 11-MAY-21 | |
| Toluene | | | <0.50 | | ug/L | 0.5 | 11-MAY-21 | |
| trans-1,2-Dichloroethylene | | | <0.50 | | ug/L | 0.5 | 11-MAY-21 | |
| trans-1,3-Dichloropropene | | | <0.30 | | ug/L | 0.3 | 11-MAY-21 | |
| Trichloroethylene | | | <0.50 | | ug/L | 0.5 | 11-MAY-21 | |
| Trichlorofluoromethane | | | <5.0 | | ug/L | 5 | 11-MAY-21 | |
| Vinyl chloride | | | <0.50 | | ug/L | 0.5 | 11-MAY-21 | |
| Surrogate: 1,4-Difluorobenzene | | | 100.8 | | % | 70-130 | 11-MAY-21 | |
| Surrogate: 4-Bromofluorobenzene | | | 100.0 | | % | 70-130 | 11-MAY-21 | |
| WG3532222-5 | MS | L2583105-1 | | | | | | |
| 1,1,1,2-Tetrachloroethane | | | 86.8 | | % | 50-140 | 11-MAY-21 | |
| 1,1,2,2-Tetrachloroethane | | | 82.9 | | % | 50-140 | 11-MAY-21 | |
| 1,1,1-Trichloroethane | | | 87.0 | | % | 50-140 | 11-MAY-21 | |
| 1,1,2-Trichloroethane | | | 87.2 | | % | 50-140 | 11-MAY-21 | |
| 1,1-Dichloroethane | | | 87.4 | | % | 50-140 | 11-MAY-21 | |
| 1,1-Dichloroethylene | | | 85.7 | | % | 50-140 | 11-MAY-21 | |
| 1,2-Dibromoethane | | | 85.9 | | % | 50-140 | 11-MAY-21 | |
| 1,2-Dichlorobenzene | | | 91.7 | | % | 50-140 | 11-MAY-21 | |
| 1,2-Dichloroethane | | | 87.6 | | % | 50-140 | 11-MAY-21 | |
| 1,2-Dichloropropane | | | 89.8 | | % | 50-140 | 11-MAY-21 | |
| 1,3-Dichlorobenzene | | | 98.1 | | % | 50-140 | 11-MAY-21 | |
| 1,4-Dichlorobenzene | | | 96.3 | | % | 50-140 | 11-MAY-21 | |
| Acetone | | | 98.1 | | % | 50-140 | 11-MAY-21 | |
| Benzene | | | 85.9 | | % | 50-140 | 11-MAY-21 | |
| Bromodichloromethane | | | 91.6 | | % | 50-140 | 11-MAY-21 | |
| Bromoform | | | 95.7 | | % | 50-140 | 11-MAY-21 | |
| Bromomethane | | | 80.6 | | % | 50-140 | 11-MAY-21 | |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

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Client: DS Consultants (Cambridge)
 380 Jamieson Parkway Unit 6
 Cambridge ON N3C 4N4

Contact: KEITH CLARKE

| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|----------------------------|----------|------------|--------|-----------|-------|--------|-----------|----------|
| VOC-511-HS-WT | Water | | | | | | | |
| Batch | R5455648 | | | | | | | |
| WG3532222-5 | MS | L2583105-1 | | | | | | |
| Carbon tetrachloride | | | 87.0 | | % | 50-140 | 11-MAY-21 | |
| Chlorobenzene | | | 87.9 | | % | 50-140 | 11-MAY-21 | |
| Chloroform | | | 89.3 | | % | 50-140 | 11-MAY-21 | |
| cis-1,2-Dichloroethylene | | | 90.7 | | % | 50-140 | 11-MAY-21 | |
| cis-1,3-Dichloropropene | | | 92.6 | | % | 50-140 | 11-MAY-21 | |
| Dibromochloromethane | | | 83.2 | | % | 50-140 | 11-MAY-21 | |
| Dichlorodifluoromethane | | | 73.8 | | % | 50-140 | 11-MAY-21 | |
| Ethylbenzene | | | 86.4 | | % | 50-140 | 11-MAY-21 | |
| n-Hexane | | | 82.0 | | % | 50-140 | 11-MAY-21 | |
| m+p-Xylenes | | | 86.3 | | % | 50-140 | 11-MAY-21 | |
| Methyl Ethyl Ketone | | | 96.4 | | % | 50-140 | 11-MAY-21 | |
| Methyl Isobutyl Ketone | | | 89.0 | | % | 50-140 | 11-MAY-21 | |
| Methylene Chloride | | | 89.7 | | % | 50-140 | 11-MAY-21 | |
| MTBE | | | 89.1 | | % | 50-140 | 11-MAY-21 | |
| o-Xylene | | | 95.5 | | % | 50-140 | 11-MAY-21 | |
| Styrene | | | 91.1 | | % | 50-140 | 11-MAY-21 | |
| Tetrachloroethylene | | | 84.5 | | % | 50-140 | 11-MAY-21 | |
| Toluene | | | 86.0 | | % | 50-140 | 11-MAY-21 | |
| trans-1,2-Dichloroethylene | | | 88.0 | | % | 50-140 | 11-MAY-21 | |
| trans-1,3-Dichloropropene | | | 88.4 | | % | 50-140 | 11-MAY-21 | |
| Trichloroethylene | | | 87.1 | | % | 50-140 | 11-MAY-21 | |
| Trichlorofluoromethane | | | 84.1 | | % | 50-140 | 11-MAY-21 | |
| Vinyl chloride | | | 87.0 | | % | 50-140 | 11-MAY-21 | |

Quality Control Report

Workorder: L2582823

Report Date: 13-MAY-21

Client: DS Consultants (Cambridge)
380 Jamieson Parkway Unit 6
Cambridge ON N3C 4N4

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Contact: KEITH CLARKE

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 |
|-----------|---|
| J | Duplicate results and limits are expressed in terms of absolute difference. |
| MES | Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME). |
| MS-B | Matrix Spike recovery could not be accurately calculated due to high analyte background in sample. |
| RPD-NA | Relative Percent Difference Not Available due to result(s) being less than detection limit. |

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

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.

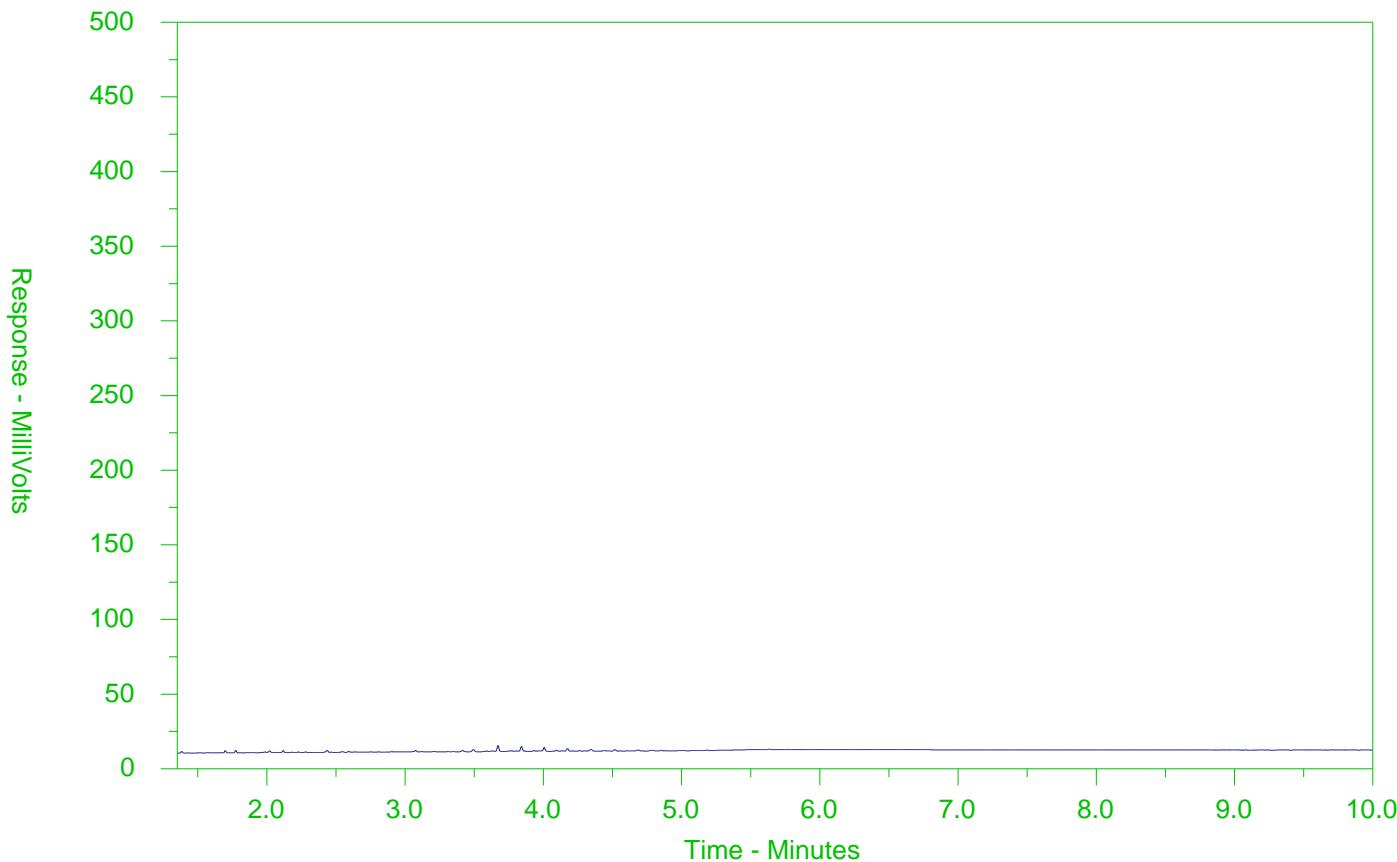
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide 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: L2582823-1
Client Sample ID: MW21-11



| 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.



www.alsqglobal.com

Chain o



COC Number: 20-894436

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SHIPMENT RELEASE (client use)

Released by: _____

YES NO

**Notes / Specify Limits for result evaluation by selecting from drop-down below
(Excel COC only)**

SAMPLE RECEIPT DETAILS (ALS use only)

NONE **ICE** **ICE PACKS** **FROZEN** **COOLING INITIATED**

Submission Comments identified on Sample Receipt Notification: YES NO

Custodian Seals Intact: YES NO **Sample Custody Seals Intact:** YES NO

INITIAL SHIPMENT RECEIPT (ALS use only)

Released by: _____

Bhanmi Solanki | 3 May, 2021

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges:

Aug 2021 FROM