

# Soil Characterization

9541 Weston Road, Vaughan, Ontario

**City of Vaughan**

Final Report

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**eNGLOBE**

City of Vaughan  
Client Reference No. 02112512.000

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# Summary

Englobe Corp. (Englobe) was retained by the City of Vaughan (hereinafter referred to as the “Client”) to complete a Soil Characterization Report for the property located at 9541 Weston Road in Vaughan, Ontario (hereinafter referred to as the “Project Area” or “Site”). The location of the Project Area is shown on the Site Location Plan, Figure 1 in Appendix A.

The Site is located on the east side of Weston Road, approximately 200 m south of the intersection of Weston Road and Ashberry Boulevard in the City of Vaughan, Ontario. It is an irregularly shaped parcel of land with approximately 4,092 m<sup>2</sup> in area, currently comprised of an asphalt paved parking lot and grassed area. The Site is surrounded by residential, commercial community and institutional buildings to the north and west, and woodlands to the south and east. Weston Road runs from north to south at west adjacent to the Site. The Site and surrounding properties are presented on the Site and Surrounding Land Use Plan, Figure 2 in Appendix A.

Based on the information provided by the Client, the total estimated quantity of soil to be excavated/managed at the Site during the proposed construction of the new Fire Hall is approximately 4,000 m<sup>3</sup>. Englobe understands that this Soil Characterization Report is being completed for the Client for excess soil management purposes prior to the proposed Fire Station development. The work described herein was completed in general accordance with the Ontario Regulation (O. Reg.) 406/19, On-Site and Excess Soil Management. Furthermore, Englobe understands that filing a Record of Site Condition (RSC) for the Site with the Ontario Ministry of the Environment, Conservation and Parks (MECP) is not required at this time.

The purpose of this Soil Characterization Report is to present the findings of the Field Program completed to investigate the Areas of Potential Environmental Concern (APECs) resulting from the Potentially Contaminating Activities (PCAs) associated with the Project Area and surrounding properties within the study area, as identified in the Assessment of Past Uses, which may have affected the soil quality within the areas where soil excavation is required as part of the construction activities on the Project Area. This Soil Characterization Report has been completed to document the field activities and methods used, review and evaluate the field data and analytical results generated, and to identify and categorize areas (or zones) of soils that are appropriate for reuse at the Site, and which would be required for off-site reuse and/or disposal.

The Soil Characterization Field Program consisted of advancement of fifteen (15) boreholes (BH-1 to BH-13, BH-15 and BH-16) to a drilling depth of approximately 4.4 m or 8.2 m below ground surface (bgs) at the Project Area. The boreholes were drilled between January 13, 14 and January 21, 2022, using continuous flight solid stem auger equipment supplied by Drilltech Drilling Limited, operated under the continuous supervision of an Englobe field technician. Overall, the following soil samples were collected and submitted for laboratory analyses during the Englobe 2022 Field Program:

- Fifteen (15) boreholes were advanced at the Site;
- Forty-eight (48) soil samples (including six duplicates) for analysis for one or more of PHCs (fractions F1 to F4), BTEX, metals/inorganics including EC and SAR, VOCs, PAHs, PCBs, and/or OCPs;



- Six (6) representative soil samples for analysis of modified Synthetic Precipitation Leaching Procedure (mSPLP) parameters for reuse purposes, for one or more of metals, VOCs, semi-VOCs, and OCPs analysis; and
- Five (5) representative or composite soil samples for analysis of Toxicity Characteristic Leaching Procedure (TCLP) parameters for disposal to the landfill facility.

The soil sample analytical results have been assessed using the MECP Excess Soil Standards:

- Table 1: Full Depth Background Site Condition Standards (SCS) for Residential/Parkland/Institutional (RPI) and Industrial/Commercial/Community (ICC) property use, presented in O. Reg. 406/19 (Table 1 Standards);
- Table 2.1: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition for ICC and RPI property use, presented in O. Reg. 406/19 (Table 2.1 Standards); and
- Table 3.1: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water Condition for ICC and RPI property use, presented in O. Reg. 406/19 (Table 3.1 Standards).

The soil analytical results for analyses of mSPLP were compared to the Leachate Screening Levels,

- Table 1: Leachate Screening Levels for Excess Soil Reuse for RPI and ICC property use (Table 1 Leachate Screening Levels);
- Table 2.1: Leachate Screening Levels for Full Depth Excess Soil in a Potable Groundwater Conditions for RPI and ICC property use (Table 2.1 Leachate Screening Levels); and
- Table 3.1: Leachate Screening Levels for Full Depth Excess Soil in a Non-Potable Groundwater Conditions for RPI and ICC property use (Table 3.1 Leachate Screening Levels).

The analytical results for the samples submitted for TCLP were compared to the applicable Standards in Schedule 4 Leachate Quality Criteria presented in O. Reg. 558/00.

Based on a review of the laboratory analytical results, the following exceedances were identified in the soil samples analyzed:

- EC was measured at concentrations above Table 1, Table 2.1 and Table 3.1 Standard for RPI and ICC Property use in soil samples BH 1-1, BH 1-2, BH 2-1, BH 3-1, BH 4-1, BH 5-1, BH 6-1, BH 7-1, BH 8-1, BH 8-2, BH 9-1, BH 9-2, BH 10-1, BH 11-1, BH 12-1, and BH 12-2.
- SAR was measured at concentrations above Table 1, Table 2.1 and Table 3.1 Standard for RPI and/or ICC Property use in soil samples BH 1-1, BH 1-2, BH 2-1, BH 3-1, BH 4-1, BH 5-1, BH 6-1, BH 7-1, BH 8-1, BH 9-1, BH 9-2, BH 10-1, BH 11-1, BH 12-1, BH 12-2 and BH15-2.
- Methyl ethyl ketone (MEK) was measured at concentrations above Table 1 and Table 2.1 Standard for RPI and ICC Property use in soil samples BH1-5, BH 2-6, BH 8-7, BH 9-3, BH 11-7, BH 12-8, BH 16-6 and Dup-4 (duplicate sample of BH 2-6).
- All other measured parameters were not detected above the laboratory method detection limits or were measured at concentrations less than the applicable Table 1, 2.1 and 3.1 RPI and ICC Standards in the soil samples analyzed.

Based on a review of the laboratory mSPLP analytical results, the following exceedances were identified in the soil samples analyzed:

- Copper (Cu) was measured at a concentration above Table 2.1 and 3.1 Leachate Screening Levels for RPI and ICC property use in soil sample BH 10-1.
- All other measured parameters were not detected above the laboratory method detection limits or were measured at concentrations less than the applicable Table 1, 2.1 and 3.1 RPI and ICC Leachate Screening Levels in the soil samples analyzed.

Based on a review of the laboratory analytical results, all analyzed parameters were reported below the Schedule 4 Leachate Quality Criteria in O. Reg. 558/00 in the soil samples analyzed.

According to a review of the laboratory QA/QC sample results, calculated relative percent difference (RPD) values didn't exceed the alert limits, and were deemed to meet the objectives of this soil characterization investigation. Therefore, the quality of analytical data is reliable.

Based on the findings of this Soil Characterization Report, the Client should be aware that Methyl ethyl ketone (MEK) was measured above the MECP Table 1, 2.1 Standards for RPI and/or ICC property use at some borehole locations. Therefore, excess soil with those exceedances in the vicinity of these boreholes should be shipped offsite and disposed of an appropriate soil receiving site or landfill facilities.

EC and/or SAR were detected in all borehole locations above Table 2.1, 3.1 RPI and/or ICC Standards. Since the EC and SAR exceedances are likely related to the application of de-icing and salting substances in the Project Area, in accordance with section 49.1, paragraph 1 of O. Reg. 153/04, as amended, the Standards are deemed to be met. The excess soil with EC and/or SAR exceedances generated from the Project Area may only be reused onsite or reused at a receiving facility that would accept soil containing EC and SAR.

The Client should be also aware that some metals were measured above Table 1, 2.1 and/or Table 3.1 Leachate Screening Levels for RPI and ICC property use at BH10. Therefore, excess soil with the exceedance in the vicinity of BH10 should be disposed of at landfill facilities.

This Soil Characterization Report is based on the field observations made by Englobe and soil samples collected from the investigated locations and submitted for selected chemical analysis. The environmental quality of the soils may vary beyond and between the sampling locations. Furthermore, in the event, during the construction activities, if soils are appeared to be environmentally impacted (i.e., staining, odours and/or debris, etc.), such soils should be segregated into separate stockpiles (plastic sheeting placed below and above the stockpile), inspected, and analyzed to determine appropriate handling and/or disposal requirements at that time.

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If tests have been carried out, the results of these tests are valid only for the sample described in this report.

Englobe Corp.’s subcontractors who have carried out on-site or laboratory work are duly assessed according to the purchase procedure of our quality system. For further information, please contact your project manager.”

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# 1 Introduction

Englobe Corp. (Englobe) was retained by the City of Vaughan (hereinafter referred to as the “Client”) to complete a Soil Characterization Report for the property located at 9541 Weston Road in Vaughan, Ontario (hereinafter referred to as the “Project Area” or “Site”). The location of the Project Area is shown on the Site Location Plan, Figure 1 in Appendix A.

The Site is located on the east side of Weston Road, approximately 200 m south of the intersection of Weston Road and Ashberry Boulevard in the City of Vaughan, Ontario. It is an irregularly shaped parcel of land with approximately 4,092 m<sup>2</sup> in area, currently comprised of an asphalt paved parking lot and grassed area. The Site is surrounded by residential, commercial community and institutional buildings to the north and west, and woodlands to the south and east. Weston Road is adjacent to the west of the Site. The Site and surrounding properties are presented on the Site and Surrounding Land Use Plan, Figure 2 in Appendix A.

Based on the information provided by the Client, the total estimated quantity of soil to be excavated/managed at the Site during the proposed construction of the new Fire Hall is approximately 4,000 m<sup>3</sup>. Englobe understands that this Soil Characterization Report is being completed for the Client for excess soil management purposes prior to the proposed Fire Station development. The work described herein was completed in general accordance with the Ontario Regulation (O. Reg.) 406/19, On-Site and Excess Soil Management. Furthermore, Englobe understands that filing a Record of Site Condition (RSC) for the Site with the Ontario Ministry of the Environment, Conservation and Parks (MECP) is not required at this time.

Englobe previously completed an Assessment of Past Uses and a Sampling and Analysis Plan for the Site, which should be read in conjunction with this Soil Characterization Report.

This Soil Characterization Report aims to present the findings of the Field Program, which were completed to investigate the Areas of Potential Environmental Concern (APECs). APECs are resulting from the Potentially Contaminating Activities (PCAs) associated with the Project Area and surrounding properties within the study area, as identified in the Assessment of Past Uses, which may affect the soil quality within the areas where soil excavation is required as part of the construction activities on the Project Area. This Soil Characterization Report has been completed to document the field activities and methods used, review and evaluate the field data and analytical results generated, and to identify and categorize areas (or zones) of soils that are appropriate for reuse at the Site, and which would be required for off-site reuse and/or disposal.

The work described herein was carried out according to Englobe’s scope of work and cost estimation in correspondence with the Client and authorized via email on December 16, 2021. This report was developed and published in April of 2022.

# 2 Background Information

## 2.1 Englobe: Geotechnical Investigation Report

Englobe completed a Geotechnical Investigation Report for the Project in March 2022, and the findings are summarized in a document titled “Vaughan Fire Station 7-12, 9541 Weston Road, Woodbridge, Ontario”, dated March 30, 2022. The geotechnical investigation aimed to determine the subsurface conditions at the borehole locations and provide engineering recommendations for the development and relative construction of the proposed Fire Station.

Fifteen (15) boreholes (BH1 to BH13, BH15 and BH16) were advanced at the Project Area; seven (7) of them were advanced to the depth of approximately 4.4 m, and eight (8) boreholes to the depth of 8.2 m bgs. The boreholes were drilled on January 13, 14 and January 21, 2022, using continuous flight solid stem auger equipment, supplied by Drilltech Drilling Limited, operated under the continuous supervision of an Englobe field technician.

In general, the soils encountered underneath the Asphalt concrete and/or top soil, overlaying sand and gravel as granular base/subbase, followed by native silty sand and clayey silt.

The Geotechnical investigation recommendation can be referred to the Englobe Geotechnical Investigation report.

## 2.2 Englobe: Assessment of Past Uses

Englobe completed an Assessment of Past Uses for the Project Area. The findings are summarized in a document titled “Assessment of Past Uses, 9541 Weston Road, Vaughan, Ontario, Englobe File: 021122512.000”, dated April 6, 2022.

Based on the information obtained and reviewed as part of the Assessment of Past Uses, current and/or historic PCAs associated with the Project Area and surrounding properties were identified, resulting in APECs at the Project Area. A summary of the PCAs and associated APECs identified at the Project Area are summarized as follows in Table 1. The PCAs and APECs are identified on the figure of Potentially Contaminating Activities (PCAs) and Areas of Potential Environmental Concern (APECs) in Appendix A, Figure 3.

**Table 1: Areas of Potential Environmental Concern**

APEC	Location of APEC	Potentially Contaminating Activity	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
APEC 1	Entire Site	Historical use of fill materials # 30 - Importation of Fill Materials of Unknown Quality	On-site	Metals As, Sb, Se, Cr (VI), Hg, B-HWS, CN, EC, SAR and pH, PHCs, BTEX, VOCs, PAHs, PCBs, OCPs	Soil

APEC	Location of APEC	Potentially Contaminating Activity	Location of PCA	Contaminants of Potential Concern	Media Potentially Impacted
APEC 2	The north portion of the Site	Registered as a waste generator of photo processing wastes and inorganic laboratory chemicals # Undefined PCA No.	Off-site	Metals, As, Sb, Se, Cr (VI), Hg, B-HWS, CN, and VOCs	Soil

Notes:\*

PHCs - Petroleum Hydrocarbon Fractions F1 to F4  
 BTEX - Benzene, Toluene, Ethylbenzene and Xylenes  
 VOCs - Volatile Organic Compounds  
 PAHs - Polycyclic Aromatic Hydrocarbons  
 PCBs- Polychlorinated Biphenyl  
 OCPs - Organochlorine Pesticides  
 B-HWS-Hot Water Soluble Boron  
 EC-Electrical Conductivity  
 SAR-Sodium Absorption Ratio

## 2.3 Englobe: Sampling and Analysis Plan

Englobe completed a Sampling and Analysis Plan for the Project Area that is summarized in a document titled “Sampling and Analysis Plan, 9541 Weston Road, Vaughan, Ontario, Englobe File: 021122512.000”, dated January 11, 2022.

The Sampling and Analysis Plan outlines the Field Program developed to investigate the soil quality with respect to the APECs identified at the Project Area and corresponding PCAs. Sampling locations are across the parking lot, located at 9541 Weston Road, Vaughan, Ontario, from BH-1 on the northwest to BH-16 on the northeast, sequentially. A summary of the sampling frequency and associated analytical parameters included in the Sampling and Analysis Plan are summarized in Table 2.

**Table 2: Sampling and Analysis Plan**

Borehole ID	Associated APEC	Location	Total Borehole Depth	Soil Sample Collection Intervals	Parameters for Sample Submission*
BH-1	APEC 1 and APEC 2	Northwest portion of the Site	4.0 m bgs	Topsoil and every 0.75 m interval in the underlying native material	PHCs, BTEX, VOCs, PAHs, Metals, As, Sb, Se, Cr (VI), Hg, B-HWS, CN, EC, SAR, mSPLP, and TCLP
BH-2	APEC 1 and APEC 2	Central north portion of the Site	4.0 m bgs	Topsoil and every 0.75 m interval in the underlying native material	PHCs, BTEX, VOCs, PAHs, EC and SAR
BH-3	APEC 1 and APEC 2	Northeast portion of the Site	4.0 m bgs	Topsoil and every 0.75 m interval in the underlying native material	PHCs, BTEX, PCBs, Metals, mSPLP, TCLP, pH, EC and SAR
BH-4	APEC 1	Central west portion of the Site	8.0 m bgs	Topsoil and every 0.75 m interval in the underlying native material	PHCs, BTEX, PAHs, Metals, EC and SAR,



Borehole ID	Associated APEC	Location	Total Borehole Depth	Soil Sample Collection Intervals	Parameters for Sample Submission*
BH-5	APEC 1	Central east portion of the Site	8.0 m bgs	Topsoil and every 0.7 m interval in the underlying native material	PHCs, BTEX, Metals, OCPs
BH-6	APEC 1	Central east portion of the Site	8.0 m bgs	Topsoil and every 0.7 m interval in the underlying native material	PHCs, BTEX, PAHs, Metals, EC and SAR
BH-7	APEC 1	Southwest portion of the Site	4.0 m bgs	Topsoil and every 0.7 m interval in the underlying native material	PHCs, BTEX, PAHs, Metals, EC and SAR,
BH-8	APEC 1	Central portion of the Site	8.0 m bgs	Topsoil and every 0.7 m interval in the underlying native material	PHCs, BTEX, VOCs, PAHs, Metals, As, Sb, Se, Cr (VI), Hg, B-HWS, CN, EC, SAR, mSPLP, and TCLP
BH-9	APEC 1	Southwest portion of the Site	8.0 m bgs	Topsoil and every 0.7 m interval in the underlying native material	PHCs, BTEX, VOCs, PAHs, PCBs, Metals, As, Sb, Se, Cr (VI), Hg, B-HWS, CN, EC, SAR, and mSPLP
BH-10	APEC 1	Southeast portion of the Site	8.0 m bgs	Topsoil and every 0.7 m interval in the underlying native material	PHCs, BTEX, Metals, EC and SAR, mSPLP
BH-11	APEC 1	Southcentral portion of the Site	8.0 m bgs	Topsoil and every 0.7 m interval in the underlying native material	PHCs, BTEX, VOCs, Metals, EC and SAR,
BH-12	APEC 1	Southeast portion of the Site	8.0 m bgs	Topsoil and every 0.7 m interval in the underlying native material	PHCs, BTEX, VOCs, PAHs, Metals, As, Sb, Se, Cr (VI), Hg, B-HWS, CN, EC, SAR, and TCLP
BH-13	APEC 1	Southeast side out of the Site	4.0 m bgs	Topsoil and every 0.7 m interval in the underlying native material	PHCs, BTEX, Metals, EC and SAR, pH
BH-15	APEC 1	Northeast side out of the Site	4.0 m bgs	Topsoil and every 0.7 m interval in the underlying native material	Metals, As, Sb, Se, Cr (VI), Hg, B-HWS, CN, EC, SAR, and TCLP
BH-16	APEC 1	Northeast side out of the Site	4.0 m bgs	Topsoil and every 0.7 m interval in the underlying native material	PHCs, BTEX, VOCs, Metals, EC and SAR, mSPLP, and OCPs

Notes: \* Selected sample is to be submitted for laboratory analysis  
 PHCs - Petroleum Hydrocarbon Fractions F1 to F4  
 BTEX - Benzene, Toluene, Ethylbenzene and Xylenes  
 VOCs - Volatile Organic Compounds  
 PAHs - Polycyclic Aromatic Hydrocarbons  
 PCBs - Polychlorinated Biphenyl  
 OCPs - Organochlorine Pesticides  
 B-HWS - Hot Water Soluble Boron  
 EC - Electrical Conductivity  
 SAR - Sodium Absorption Ratio  
 mSPLP - modified Synthetic Precipitation Leaching Procedure  
 TCLP - Toxicity Characteristic Leaching Procedure

# 3 Scope of Work

## 3.1 Overview of the Field Program

The scope of work for the Field Program was developed to characterize the environmental quality of soil at the Project Area and consisted of the following tasks:

- Prepare a Site-specific health and safety plan;
- Coordinate the mobilization and demobilization of all personnel and equipment required to complete the work;
- Obtain public and private utility locates;
- Advance fifteen (15) boreholes, seven (7) of which to a depth of 4 m bgs, and eight (8) of which to a depth of 8 m bgs;
- Submit selected soil samples from each borehole to an accredited laboratory for chemical analysis for one or more following parameters: PHCs (fractions F1 to F4), BTEX, VOCs, metals/inorganics, EC, SAR, PAHs, PCBs, OCPs, mSPLP, and/or TCLP;
- Prepare and submit field duplicate soil samples for quality assurance/quality control (QA/QC) purposes. Duplicate samples submitted at a frequency of one (1) for every ten (10) samples for each parameter analyzed;
- Evaluate and interpret the field data and analytical results; and
- Prepare a soil characterization report documenting the field methodologies and the findings of the Field Program.

## 3.2 Medium Investigated

Medium investigated as part of this Soil Characterization Report consisted of soil collected during the Field Program completed by Englobe in January 2022. The numbers of soil samples collected and chemical parameters analyzed in this soil characterization investigation met the requirements as outlined in the O. Reg. 406/19.

The following soil samples were collected and submitted for laboratory analyses during the Englobe 2022 Field Program:

- Fifteen (15) boreholes were advanced at the Site;
- Four-eight (48) soil samples (including six duplicates) for analysis for one or more of PHCs (fractions F1 to F4), BTEX, VOCs, metals/inorganics including EC and SAR, PAHs, PCBs and/or OCPs;
- Six (6) soil samples for analysis of mSPLP parameters for reuse purposes; and
- Five (5) soil samples to analyze TCLP parameters for disposal to the landfill facility.

### **3.3 Deviations from the Sampling and Analysis Plan**

No significant deviations from the sampling and analysis plan were encountered that would impact the proposed soil characterization investigation at the Site.

### **3.4 Physical Impediments**

No physical impediments were encountered during the drilling activities for this soil characterization project.

# 4 Methodology

## 4.1 Borehole Drilling

Following clearance of public utility locates, a total of fifteen (15) boreholes (BH-1 to BH-13, BH-15 and BH-16) were advanced at the Project Area on January 13, January 14 and January 21, 2022. The boreholes were advanced to approximate depths of 4.4 and 8.2 m bgs. The approximate borehole locations are shown in the Borehole Location Plan, Figure 4 in Appendix A.

The boreholes were advanced in accordance with O. Reg. 903 using a solid stem auger supplied and operated by an MECP-licensed drilling contractor, Drilltech Drilling. Subsoil samples were recovered at regular intervals of depth using a 50 mm O.D. split-barrel sampler driven into the subsoil in accordance with the Standard Penetration Test (SPT) procedure (ASTM D1586). The recovered subsoil samples were visually examined in the field and then preserved and transported to the Englobe Toronto laboratory for further examination and testing by an Englobe project engineer.

The Field Program was overseen by a member of Englobe's field staff, who documented the drilling and sampling procedures, logged stratigraphic details of recovered soil cores, and collected samples from recovered soil cores for laboratory chemical analyses.

## 4.2 Soil Screening and Sampling

During the drilling activities, soil cores were recovered from the boreholes at discontinuous sampling 0.7 m intervals, with samples being retrieved from 0.6 m lengths per interval using split-spoon samplers. Augers and split spoon sampler were cleaned with soap and distilled water between each use to prevent cross-contamination between samples.

Soil samples selected for laboratory analysis were collected into pre-cleaned, laboratory-supplied containers provided with necessary preservatives and placed in an ice-chilled cooler to minimize sample degradation prior to and during transportation to the laboratory. One COC relating to repeat mSPLP for metals analysis stated "no ice". Sample containers were labelled with a unique sample number, project reference, date, and sampling time.

Soil samples were selected for laboratory analysis based on olfactory evidence of odours, physical evidence of staining or deleterious matter, and/or evaluation of analytical test groups associated with specific APECs. The soil samples selected for laboratory chemical testing were submitted to a Canadian Association for Laboratory Accreditation Inc. (CALA)-accredited laboratory, Eurofins Environment Testing Canada Inc., Ottawa, Ontario.

The soil descriptions and stratigraphy details for each borehole advanced at the Site by Englobe in 2022 are shown on the Borehole Logs in Appendix B.

## 4.3 Borehole Mapping and Elevation Surveying

An elevation survey was conducted for boreholes at the Site.

The references obtained for each borehole advanced as part of the Field Program are shown on the Borehole Logs in Appendix B.

## 4.4 Quality Assurance/Quality Control

Quality assurance/quality control (QA/QC) measures were incorporated into the field sampling and laboratory analytical programs to evaluate the field and analytical data for acceptable accuracy, precision, representativeness, and comparability. Specific QA/QC measures were followed regarding equipment decontamination, equipment calibration, sample collection and handling, field documentation, and contractor provision.

The borehole drilling was undertaken by an MECP-licensed drilling contractor in accordance with the O. Reg. 903 using appropriate equipment, methodologies, and materials as documented by Englobe field personnel. Specific procedures pertaining to the characterization and description of soil cores and, by extension, subsurface conditions were followed by trained field personnel.

Decontamination procedures were followed during the soil sampling activities, including:

- All drilling and sampling equipment potential to come into contact with contaminated soil and/or groundwater was decontaminated prior to and following each sample. Decontamination consisted of washing equipment with a non-phosphate detergent and distilled water.
- New disposable chemical-resistant nitrile gloves were worn to handle and collect soil samples from each retrieved core to minimize the potential of cross-contamination.

Specific procedures were followed for the documentation, handling, and transport of the soil samples, including:

- Soil samples, upon collection, were placed directly in ice-chilled coolers to minimize the potential for chemical activity and sample degradation.
- Soil samples were assigned unique identification numbers and submitted by the sampler to the contractual laboratory following chain of custody protocols within required holding times.

The contractual laboratory, Eurofins, performed chemical analyses following referenced methods incorporating QA/QC protocols as provided by the MECP and Canada Wide Standards for Petroleum Hydrocarbons. Chemical analyses for specific analytical test groups were performed in general accordance with the MECP document titled “Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act,” dated March 9, 2004, amended as of July 1, 2011.

Analytical test group specific quality control samples were prepared and analyzed by the contractual laboratory, including:

- Laboratory duplicate samples to evaluate method reproducibility and sample homogeneity.

- Method blanks to evaluate potential bias.
- Spike blanks to evaluate method accuracy.
- Surrogate compounds to evaluate extraction efficiency.
- Matrix spikes to evaluate extraction efficiency and matrix interferences.
- Quality control standards to evaluate method accuracy.

Quality control results reported by the contractual laboratory were compared to applicable alert and control criteria and were presented in the quality control reports accompanying the certificates of analysis (COAs). The laboratory QA/QC results are discussed in Section 5.5.

# 5 Results

## 5.1 Geology

Based on Ontario Base Map (OBM), most of the region is characterized by flat topography with gentle slopes to south. The Project Area is generally flat, with an elevation ranging from approximately 225 m to 226 m above sea level (asl). The Project Area consists of Halton Till, including predominantly silt to silty clay matrix, high in matrix carbonate content and clast poor Pleistocene. The surficial geology of the Project Area and Study Area consists of clayey silt to sandy silt. The bedrock geology consists of Georgina Bay Formation, Blue Mountain Formation, Billings Formation, Collingwood Member, Eastview Member with shale, limestone, dolostone and siltstone.

Based on the site visit and aerial photographs, the nearest water body is a water pond and/or an unnamed creek located approximately 600 m northeast of the Project Area, which drains southeast. The shallow groundwater in the Project Area appears to flow in a south direction. Depending on climate conditions, surface water, seasonal fluctuation, ditching, underground services, and ground surface cover may affect the shallow groundwater flow on a local level.

Based on the Englobe 2022 Field Program described herein and a review of the borehole logs completed as part of the geotechnical investigation by Englobe in 2022, the stratigraphy is generally comprised of the Asphalt concrete and/or top soil, overlaying sand and gravel as granular base/subbase, followed by native silty sand and clayey silt.

The soil stratigraphic profile is shown in the Borehole Logs provided in Appendix B.

## 5.2 Chemical Analysis

Representative soil samples were selected from each borehole for chemical analysis based on locations where potential contaminants may be expected (i.e., fill materials or soil near the water table, etc.). Selected soil samples collected from the boreholes were submitted to Eurofins for analysis of the following parameters:

- PHCs (fractions F1 to F4) and BTEX;
- Metals, As, Sb, Se, Cr (VI), Hg, B-HWS, CN, pH, EC and SAR;
- VOCs;
- PAHs;
- PCBs;
- OCPs;
- Leachable metals, VOCs and SVOCs using the mSPLP; and/or
- Leachate metals, VOCs, benzo(a)pyrene and ignitibility using TCLP.

## 5.3 Applicable Site Condition Standards

### 5.3.1 Reuse Soil Quality Assessment Criteria

The soil analytical results were compared to the criteria presented in the MECP document titled “Rules for Soil Management and Excess Soil Quality Standards,” dated December 2020 (hereinafter referred to as the MECP Excess Soil Standards). Based on the anticipated quantity of 4,000 m<sup>3</sup> of excess soil to be excavated/managed (i.e., volume greater than 350 m<sup>3</sup>), the volume independent MECP Excess Soil Standards were selected to assess the soil quality at the Site. To determine appropriate off-site reuse of the excess soil, the following O. Reg. 406/19 Excess Soil Quality Standards were used to assess the soil quality:

- Table 1: Full Depth Background Site Condition Standards for residential/parkland/institutional (RPI) and industrial/commercial/community (ICC) property use, presented in O. Reg. 406/19 (Table 1 Standards);
- Table 2.1: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition for RPI and ICC property use, presented in O. Reg. 406/19 (Table 2.1 Standards);
- Table 3.1: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water Condition for RPI and ICC property use, presented in O. Reg. 406/19 (Table 3.1 Standards).

### 5.3.2 Reuse Soil Leachate Assessment Criteria

The soil analytical results for the samples submitted for mSPLP analysis were compared to the volume independent MECP Leachate Screening Levels:

- Table 1: Leachate Screening Levels for Excess Soils Reuse for RPI and ICC property use (Table 1 Leachate Screening Levels);
- Table 2.1: Leachate Screening Levels for Full Depth Soils in a Potable Groundwater Conditions for RPI and ICC property use (Table 2.1 Leachate Screening Levels); and
- Table 3.1: Leachate Screening Levels for Full Depth Soils in a Non-Potable Groundwater Conditions for RPI and ICC property use (Table 3.1 Leachate Screening Levels).

### 5.3.3 Waste Management Leachate Quality Criteria

The soil analytical results for the samples submitted for TCLP were compared to the applicable Standards in Schedule 4 Leachate Quality Criteria presented in O. Reg. 558/00, as amended.

## 5.4 Soil Quality

The soil analytical results for PHCs (fractions F1 to F4) and BTEX, VOCs, metals, As, Sb, Se, Cr (VI), Hg, B-HWS, EC, SAR, pH, PAHs, PCBs, OCPs, mSPLP and/or TCLP, are summarized in Tables 201 to 209, respectively, which are contained in Appendix C. In addition, the laboratory



certificates of analysis provided by Eurofins for soil samples analyzed during the Englobe 2022 Field Program are contained in Appendix D.

#### **5.4.1 Assessment to Table 1, 2.1 and 3.1 Excess Soil Quality Standards for RPI and ICC Property Use**

Based on a review of the laboratory analytical results, the following exceedances were identified in the soil samples analyzed:

Metals and Inorganic Parameters:

- EC was measured at concentrations above Table 1, Table 2.1 and Table 3.1 Standard for RPI and ICC Property use in soil samples BH 1-1, BH 1-2, BH 2-1, BH 3-1, BH 4-1, BH 5-1, BH 6-1, BH 7-1, BH 8-1, BH 8-2, BH 9-1, BH 9-2, BH 10-1, BH 11-1, BH 12-1, and BH 12-2.
- SAR was measured at concentrations above Table 1, Table 2.1 and Table 3.1 Standard for RPI and/or ICC Property use in soil samples BH 1-1, BH 1-2, BH 2-1, BH 3-1, BH 4-1, BH 5-1, BH 6-1, BH 7-1, BH 8-1, BH 9-1, BH 9-2, BH 10-1, BH 11-1, BH 12-1, BH 12-2 and BH15-2.

VOCs:

- Methyl ethyl ketone (MEK) was measured at concentrations above Table 1 and Table 2.1 Standard for RPI and ICC Property use in soil samples BH1-5, BH 2-6, BH 8-7, BH 9-3, BH 11-7, BH 12-8, BH 16-6 and Dup-4 (duplicate sample of BH 2-6).

All other measured parameters were not detected above the laboratory method detection limits or were measured at concentrations less than the applicable Table 1, 2.1 and 3.1 RPI and ICC Standards in the soil samples analyzed. The lateral distribution of EC and SAR exceedances in the soil is presented on Figure 5 in Appendix A. The lateral distribution and the estimated extent of MEK exceedance in soil is presented on Figure 6 in Appendix A.

#### **5.4.2 Assessment to Table 1, 2.1 and 3.1 Leachate Screening Levels for RPI and ICC Property Use**

Based on a review of the laboratory mSPLP analytical results, the following exceedances were identified in the soil samples analyzed:

- Copper (Cu) was measured at a concentration above Table 2.1 and 3.1 Leachate Screening Levels for RPI and ICC property use in soil sample BH 10-1.

All other measured parameters were not detected above the laboratory method detection limits or were measured at concentrations less than the applicable Table 1, 2.1 and 3.1 RPI and ICC Leachate Screening Levels in the soil samples analyzed. The lateral distribution and the estimated extent of mSPLP metals exceedances in soil is presented on Figure 7 in Appendix A.

### 5.4.3 Assessment to Schedule 4 Leachate Quality Criteria in O. Reg. 558/00

Based on a review of the laboratory analytical results, all analyzed parameters were reported below the Schedule 4 Leachate Quality Criteria in O. Reg. 558/00 in the soil samples analyzed.

## 5.5 Quality Assurance/Quality Control

Soil sampling undertaken during the Field Program followed written procedures to ensure sample integrity and reliable data collection. Soil samples were collected into pre-cleaned test group specific containers prepared with any necessary preservatives by the contractual laboratory, Eurofins. Sample integrity was maintained by placing containerized samples immediately upon collection into ice-chilled insulated coolers to minimize chemical activity or sample degradation and delivered to the laboratory within test group specific holding times. One COC relating to repeat mSPLP for metals analysis stated “no ice”. Decontamination protocols were followed, and new/clean disposable sampling equipment (i.e., gloves) was used to minimize the potential for sample cross contamination and bias.

Certificates of analysis prepared by the contractual laboratory were received for all soil samples analyzed. Review of the certificates of analysis indicated that they were prepared in a manner consistent with the requirements of O. Reg. 153/04, as amended and O. Reg. 406/19. Copies of the laboratory certificates of analysis are presented in Appendix D.

Six (6) duplicate samples were collected and sent for laboratory analyses. Based on the review of the laboratory QA/QC sample results from Dup-1 (duplication of BH 11-1), Dup-2 (duplication of BH 7.1), Dup-3 (duplication of BH 7-3), and Dup-4 (duplication of BH 2-6), Dup-5 (duplication of BH 5-1), and Dup-7 (duplication of BH 3-2), calculated relative percent difference (RPD) values didn't exceed the alert limits, and were deemed to meet the objectives of this soil characterization investigation. Therefore, the quality of analytical data is reliable. A summary of the RPD calculations for soil samples is shown in the table below:

**Table 3 Soil RPD**

Sample ID	Sample Depth	Parameters	Analyzed Concentration (µg/g)	Duplicate Concentration (µg/g)	RPD (%)	Alert Criteria
Dup1 (Duplicate of BH 11-1)	0.1-0.7 mbgs	Chromium	30	20	10	60%
		Cobalt	6	7	4	
		Copper	16	17	2	
		Lead	17	21	5	
		Nickel	19	16	4	
		Vanadium	26	27	1	
		Zinc	56	64	3	

# 6 Conclusions

The findings of this Soil Characterization Report, taking into consideration of the Assessment of Past Uses and the Sampling and Analysis Plan previously completed by Englobe, are summarized as follows:

- The Project Area, which is currently owned by the City of Vaughan, consists of an asphalt paved parking lot and grassed area. The Project Area is approximately 4,092 m<sup>2</sup> in area.
- Englobe understands that this Soil Characterization Report was completed for the Client for excess soil management purposes prior to the proposed Fire Station development activities. The work described herein was completed in general accordance with O. Reg. 406/19, On-Site and Excess Soil Management. Furthermore, Englobe understands that filing a Record of Site Condition (RSC) with the MECP is not required at this time. The Client has indicated to Englobe that the total estimated quantity of soil to be excavated/managed during the proposed development activities is approximately 4,000 m<sup>3</sup>.
- Englobe previously completed an Assessment of Past Uses and a Sampling and Analysis Plan for the Project Area, which should be read in conjunction with this Soil Characterization Report. The purpose of this Soil Characterization Report was to present the findings of the Field Program completed to investigate the APECs resulting from the PCAs associated with the Project Area and/or surrounding areas that may have affected the soil quality at the areas where soil excavation is required as part of the proposed development activities.
- A total of fifteen (15) boreholes (BH1 to BH16, excluding BH14) were advanced at the Site by Englobe in 2022 to approximate depths ranging from 4.4 m to 8.2 m bgs.
- To meet sampling requirements outlined in O. Reg. 406/19, the numbers of soil samples collected and parameters analyzed during the Englobe 2022 Field Program were applied. A total of 48 soil samples (including six (6) duplicates) were collected for analyses of PHCs (fractions F1 to F4), BTEX, VOCs, metals/inorganics including EC and SAR, PAHs, PCBs, and/or OCPs; six (6) samples collected for mSPLP analysis and five (5) samples collected for TCLP analysis were submitted to the laboratory.
- The soil stratigraphy at the Site generally comprised of the Asphalt concrete and/or top soil, overlaying sand and gravel as granular base/subbase, followed by native silty sand and clayey silt.
- Based on a review of the laboratory analytical results, the following exceedances were identified in the soil samples analyzed:
  - EC was measured at concentrations above Table 1, Table 2.1 and Table 3.1 Standard for RPI and ICC Property use in soil samples BH 1-1, BH 1-2, BH 2-1, BH 3-1, BH 4-1, BH 5-1, BH 6-1, BH 7-1, BH 8-1, BH 8-2, BH 9-1, BH 9-2, BH 10-1, BH 11-1, BH 12-1, and BH 12-2.
  - SAR was measured at concentrations above Table 1, Table 2.1 and Table 3.1 Standard for RPI and/or ICC Property use in soil samples BH 1-1, BH 1-2, BH 2-1, BH 3-1, BH 4-1, BH 5-1, BH 6-1, BH 7-1, BH 8-1, BH 9-1, BH 9-2, BH 10-1, BH 11-1, BH 12-1, BH 12-2 and BH15-2.

- Methyl ethyl ketone (MEK) was measured at concentrations above Table 1 and Table 2.1 Standard for RPI and ICC Property use in soil samples BH1-5, BH 2-6, BH 8-7, BH 9-3, BH 11-7, BH 12-8, BH 16-6 and Dup-4 (duplicate sample of BH 2-6).
- All other measured parameters were not detected above the laboratory method detection limits or were measured at concentrations less than the applicable Table 1, 2.1 and 3.1 RPI and ICC Standards in the soil samples analyzed.
- Based on a review of the laboratory mSPLP analytical results, the following exceedances were identified in the soil samples analyzed:
  - Copper (Cu) was measured at a concentration above Table 2.1 and 3.1 Leachate Screening Levels for RPI and ICC property use in soil sample BH 10-1.
  - All other measured parameters were not detected above the laboratory method detection limits or were measured at concentrations less than the applicable Table 1, 2.1 and 3.1 RPI and ICC Leachate Screening Levels in the soil samples analyzed.
- Based on a review of the laboratory analytical results, all analyzed parameters were reported below the Schedule 4 Leachate Quality Criteria in O. Reg. 558/00 in the soil samples analyzed.
- Based on a review of the laboratory QA/QC sample results, no relative percent difference (RPD) values exceeded the alert limits were deemed to meet the objectives of this soil characterization investigation, and the quality of analytical data is reliable.
- Based on the findings of this Soil Characterization Report, the Client should be aware that Methyl ethyl ketone (MEK) was measured above the MECP Table 1, 2.1 Standards for RPI and/or ICC property use at some borehole locations. Therefore, excess soil with those exceedances in the vicinity of these boreholes should be shipped offsite and disposed of an appropriate soil receiving site or landfill facilities.
- EC and/or SAR were detected in all borehole locations above Table 2.1, 3.1 RPI and/or ICC Standards. Since the EC and SAR exceedances are likely related to the application of de-icing and salting substances in the Project Area, in accordance with section 49.1, paragraph 1 of O. Reg. 153/04, as amended, the Standards are deemed to be met. The excess soil with EC and/or SAR exceedances generated from the Project Area may only be reused onsite or reused at a receiving facility that would accept soil containing EC and SAR.
- The Client should be also aware that some metals were measured above Table 1, 2.1 and/or Table 3.1 Leachate Screening Levels for RPI and ICC property use at BH10. Therefore, excess soil with the exceedance in the vicinity of BH10 should be disposed of at landfill facilities.
- This Soil Characterization Report is based on the field observations made by Englobe and soil samples collected from the investigated locations and submitted for selected chemical analysis. The environmental quality of the soils may vary beyond and between the sampling locations. Furthermore, in the event, during the construction activities, if soils are appeared to be environmentally impacted (i.e., staining, odours and/or debris, etc.), such soils should be segregated into separate stockpiles (plastic sheeting placed below and above the stockpile), inspected, and analyzed to determine appropriate handling and/or disposal requirements at that time.

# 7 Statement of Limitations

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This Report should be considered in its entirety; selecting specific portions of the Report may result in the misinterpretation of the content.

The work performed by the Company was carried out in accordance with the terms and conditions specified in the Professional Services Agreement between the Company and the Client, in accordance with currently accepted engineering standards and practices and in a manner consistent with the level of skill, care and competence ordinarily exercised by members of the same profession currently practicing under similar conditions and like circumstances in the same jurisdiction in which the services were provided. Standards, guidelines and practices may change over time; those which were applied to produce this Report may be obsolete or unacceptable at a later date.

The findings, recommendations, suggestions, or opinions expressed in this Report reflect the Company’s best professional judgement based on observations and/or information reasonably available at the time the work was performed, as appropriate for the scope, work schedule and budgetary constraints established by the Client. No other warranty or representation, expressed or implied, is included in this Report including, but not limited to, that the Report deals with all issues potentially applicable to the Site and/or that the Report deals with any and all of the important features of the Site, except as expressly provided in the scope of work.

This Report has been prepared for the specific Site, development, building, design or building assessment objectives and/or purposes that were described to the Company by the Client. The applicability and reliability of the content of this Report, subject to the limitations provided herein, are only valid to the extent that there has been no material alteration or variation thereto, and the Company expressly disclaims any obligation to update the Report. However, the Company reserves the right to amend or supplement this Report based on additional information, documentation or evidence made available to it.

The Company makes no representation concerning the legal significance of its findings, nor as to the present or future value of the property, or its fitness for a particular purpose and hereby disclaims any responsibility or liability for consequential financial effects on transactions or property values, or requirements for follow-up actions and costs.

Since the passage of time, natural occurrences, and direct or indirect human intervention may affect the views, conclusions and recommendations (if any) provided in this Report, it is intended for immediate use.

In preparing this Report, the Company has relied in good faith on information provided by others and has assumed that such information is factual, accurate and complete. The Company accepts no responsibility or liability for any deficiency, misstatement or inaccuracy in this Report resulting from the information provided, concealed or not fully disclosed by those individuals.

The conclusions presented herein are based on information gathered from a limited historical review of readily available geological, historical and regulatory information and a field inspection program. Sampling and analysis of soil, groundwater or any other material were not carried out as part of this assessment. Consequently, the presence and/or extent of any adverse environmental impact cannot be verified. The potential for environmental liability and/or environmental impact is an opinion that has been arrived at within the scope of this assessment.

It is recommended practice that the Company be retained during subsequent phases of the project, to confirm that the conditions throughout the Site do not deviate materially from those encountered throughout the Sampling program.

Any description of the Site and its physical setting documented in this Report is presented for informational purposes only, to provide the reader a better understanding of the Site and scope of work. Any topographic benchmarks and elevations are primarily to establish relative elevation differences between sampling locations and should not be used for other purposes such as grading, excavation, planning, development, or similar purposes.

Any results from laboratory or other subcontractors reported herein have been carried out by others, and the Company cannot warrant their accuracy.

This Statement of Limitations forms an integral part of this report.

# REFERENCES

Englobe Corp. October 2021. Geotechnical Investigation Report, Stormwater Management Improvements Site 3, Villa Park Pond, City of Vaughan, Ontario, Project Number: OC01-02101989.000-03-GE-R-001-0A.

Englobe Corp. April 2022. Assessment of Past Uses Report, 9541 Weston Road, Vaughan, Ontario, Englobe File: 021122512.000

Englobe Corp. April 2022. Sampling and Analysis Plan, 9541 Weston Road, Vaughan, Ontario, Englobe File: 021122512.000

Ministry of Environment and Energy. December 1996. Guidance on Sampling and Analytical Methods for use at Contaminated Sites in Ontario.

Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act,” dated March 9, 2004, amended as of July 1, 2011

Ontario Geological Survey. 2011. Bedrock Geology of Ontario. Miscellaneous Release - Data 126-Revision 1.

Ontario Geological Survey. 2010. Surficial Geology of Southern Ontario. Miscellaneous Release-Data 128-Revised.

Ontario Ministry of Environment, Conservation and Parks. December 24, 2020. Rules for Soil Management and Excess Soil Quality Standards.

# Appendix A

## Figures

Figure 1: Project Area Location Plan

Figure 2: Project Area and Surrounding Land Use Location Plan

Figure 3: Potentially Contaminating Activities and Areas of Potential Environmental Concern

Figure 4: Borehole Location Plan

Figure 5: Lateral Distribution of EC and SAR Exceedance in Soil

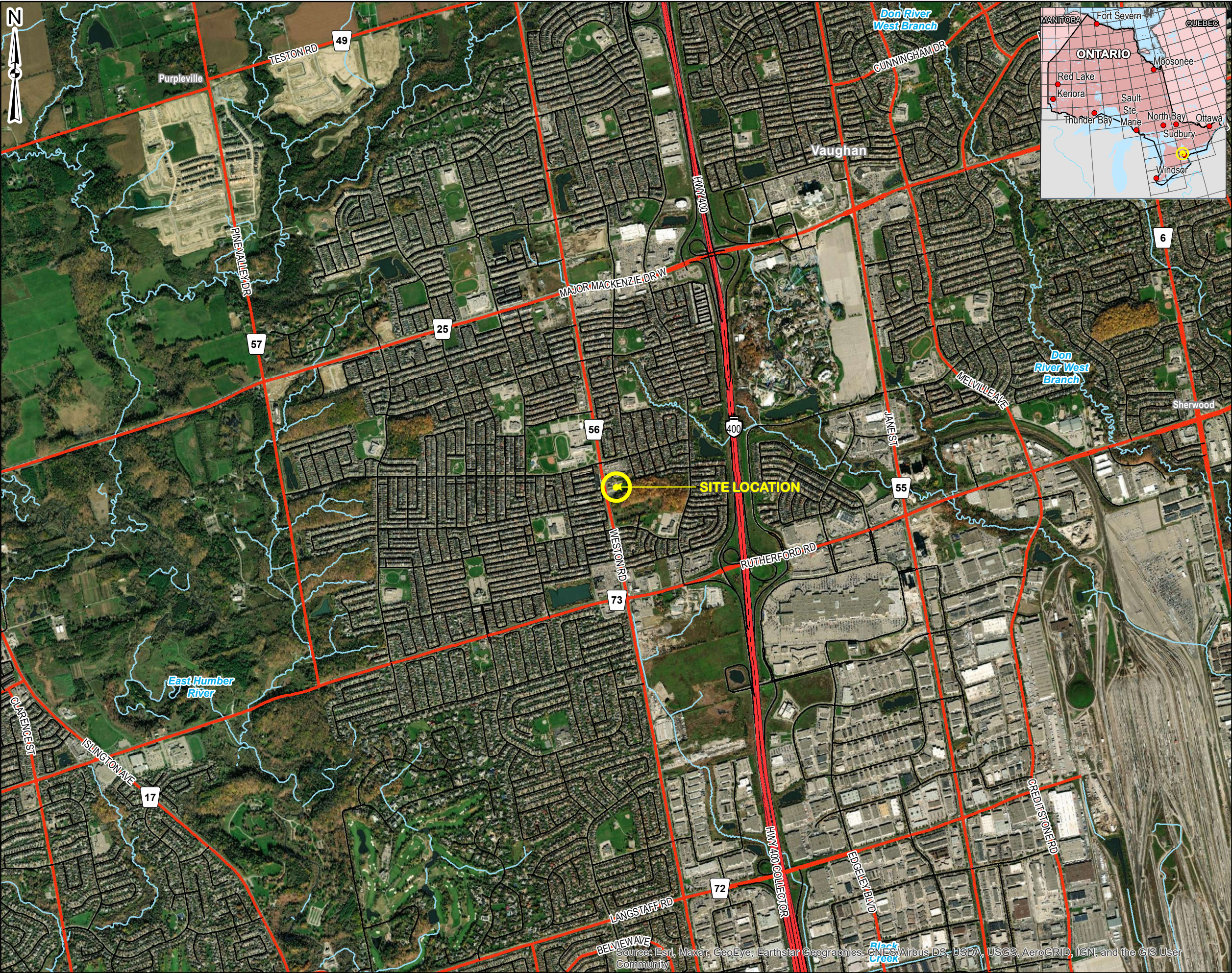
Figure 6: Lateral Distribution of VOCs Exceedance in Soil

Figure 7: Lateral Distribution of mSPLP (metals) Exceedance in Soil





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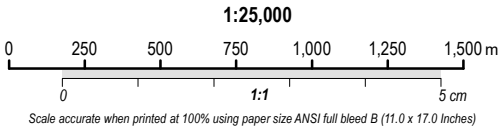


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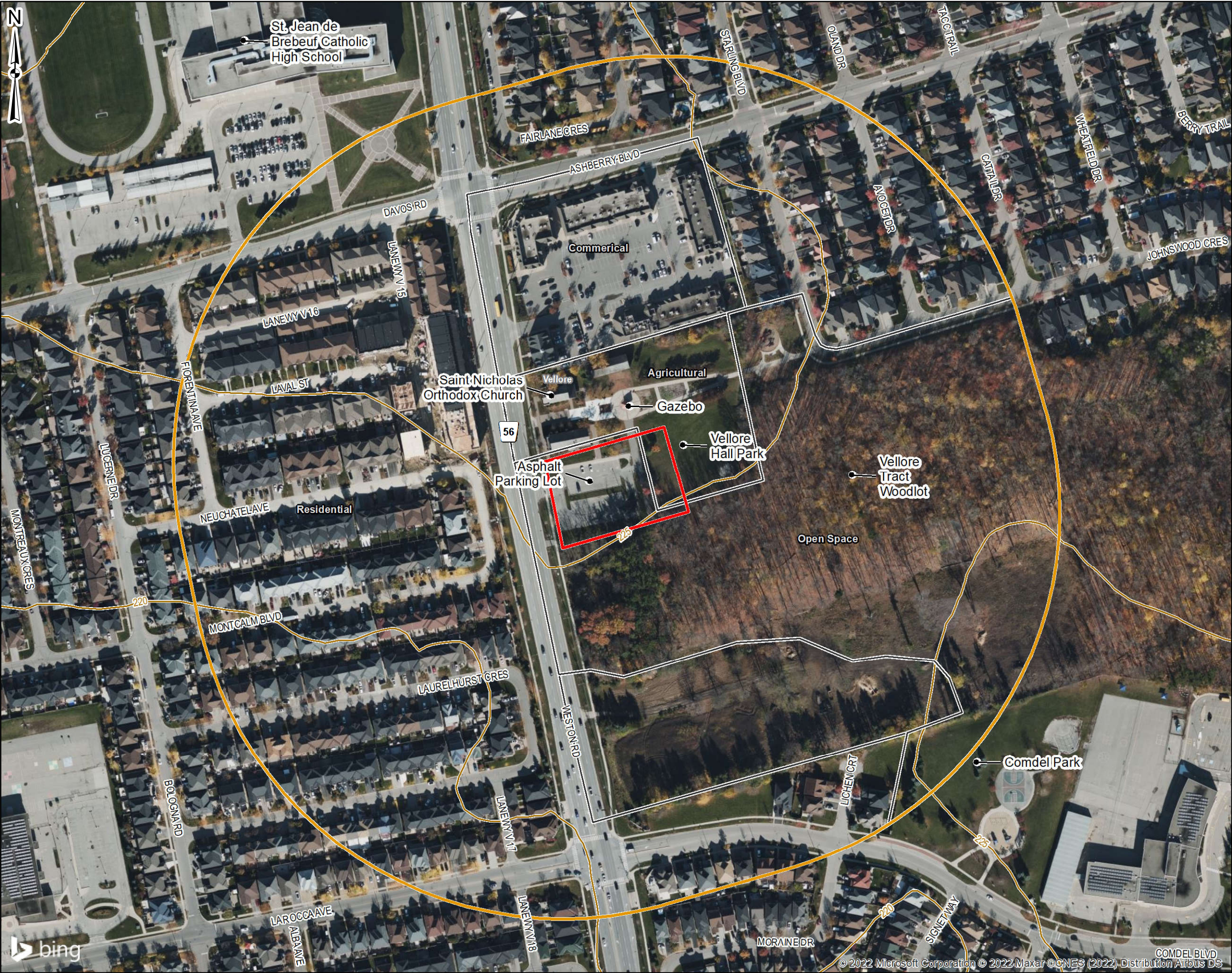
- Site Location
- Expressway / Highway
- Major Road
- Minor Road
- Railway
- Watercourse



A	2022-04-05	-	02112512
Revision	Date	Issue	GIS #
Client			
City of Vaughan			
Site			
9541 Weston Road, Vaughan, Ontario			
Report Title			
Soil Characterization Report			
Drawing Title			
Site Location Plan			
Designed By	S.W.	Scale	1:25,000
Drawn By	C.M.	Date	April, 2022
Approved By	W.J.	Project No.	02112512.000
Figure No.	1		

Drawing: Figure 01 - Site Location Folder: A:\GIS\02112512 Weston Road\Map Documents\SCR\Figure 01 - Site Location.mxd Tuesday, April 5, 2022 @ Time: 2:30:35 PM by Christopher Mitchell



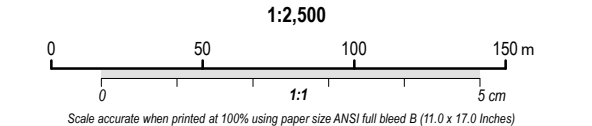


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- 1. This drawing shall be read in conjunction with the associated technical report.
- 2. Coordinate System: NAD 1983 UTM Zone 17 T  
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Legend

- Site Boundary
- 250 m Study Area
- City of Vaughn Zoning
- Contour (5 m Interval)



A	2022-04-05	-	02112512
Revision	Date	Issue	GIS #

Client

City of Vaughan

Site

9541 Weston Road, Vaughan, Ontario

Report Title

Soil Characterization Report

Drawing Title

Study Area and Surrounding Land Use Plan

Designed By

S.W.

Scale

1:2,500

Drawn By

C.M.

Date

April, 2022

Approved By

W.J.

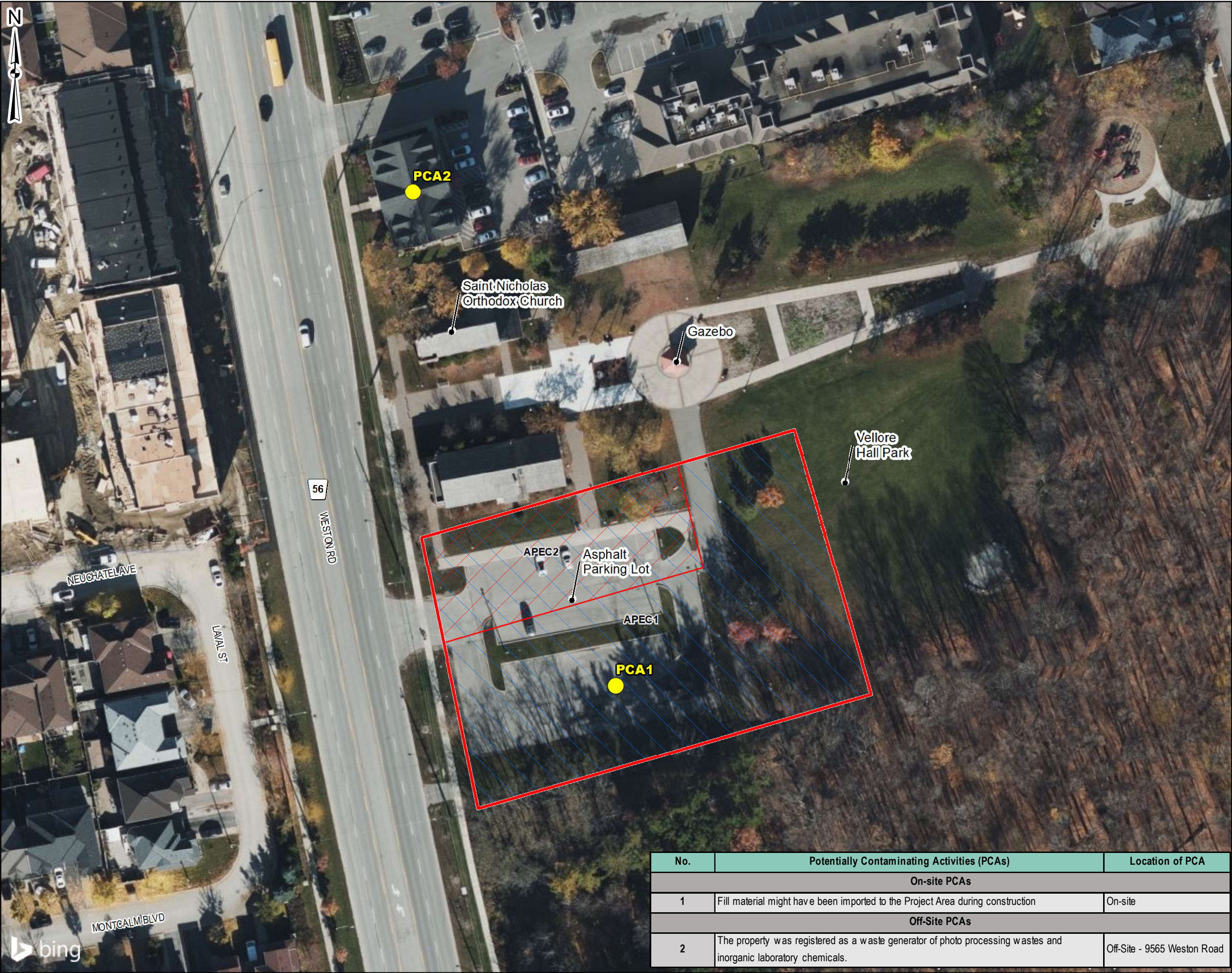
Project No.

02112512.000

Figure No.

2





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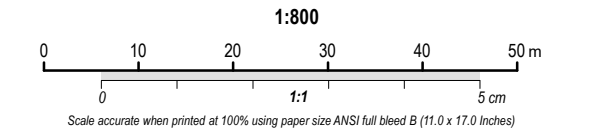
● Potentially Contaminating Activity (PCA)

Site Boundary

**Area of Potential Environmental Concern (APEC)**

APEC1

APEC2



A	2022-04-19	-	02112512
Revision	Date	Issue	GIS #

Client  
**City of Vaughan**

Site  
**9541 Weston Road, Vaughan, Ontario**

Report Title  
**Soil Characterization Report**

Drawing Title  
**Site Plan**

Designed By	S.W.	Scale	1:800
Drawn By	C.M.	Date	April, 2022
Approved By	W.J.	Project No.	02112512.000

Figure No.  
**3**

No.	Potentially Contaminating Activities (PCAs)	Location of PCA
On-site PCAs		
1	Fill material might have been imported to the Project Area during construction	On-site
Off-Site PCAs		
2	The property was registered as a waste generator of photo processing wastes and inorganic laboratory chemicals.	Off-Site - 9565 Weston Road

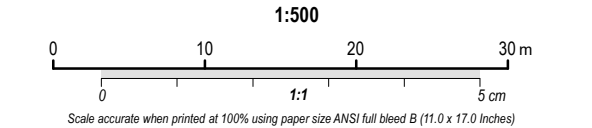


Drawing: Figure 04 - Borehole Location Plan Folder: A:\GIS\02112512 Weston Road\Map Documents\SCR\Figure 04 - Borehole Location Plan.mxd Tuesday, April 5, 2022 @ Time: 2:49:28 PM by Christopher Mitchell



- Notes**
- 1. This drawing shall be read in conjunction with the associated technical report.
  - 2. Coordinate System: NAD 1983 UTM Zone 17 T  
Projection: Transverse Mercator  
Datum: North American 1983

- Legend**
- Borehole
  - Site Boundary



A	2022-04-05	-	02112512
Revision	Date	Issue	GIS #

Client  
**City of Vaughan**

Site  
**9541 Weston Road, Vaughan, Ontario**

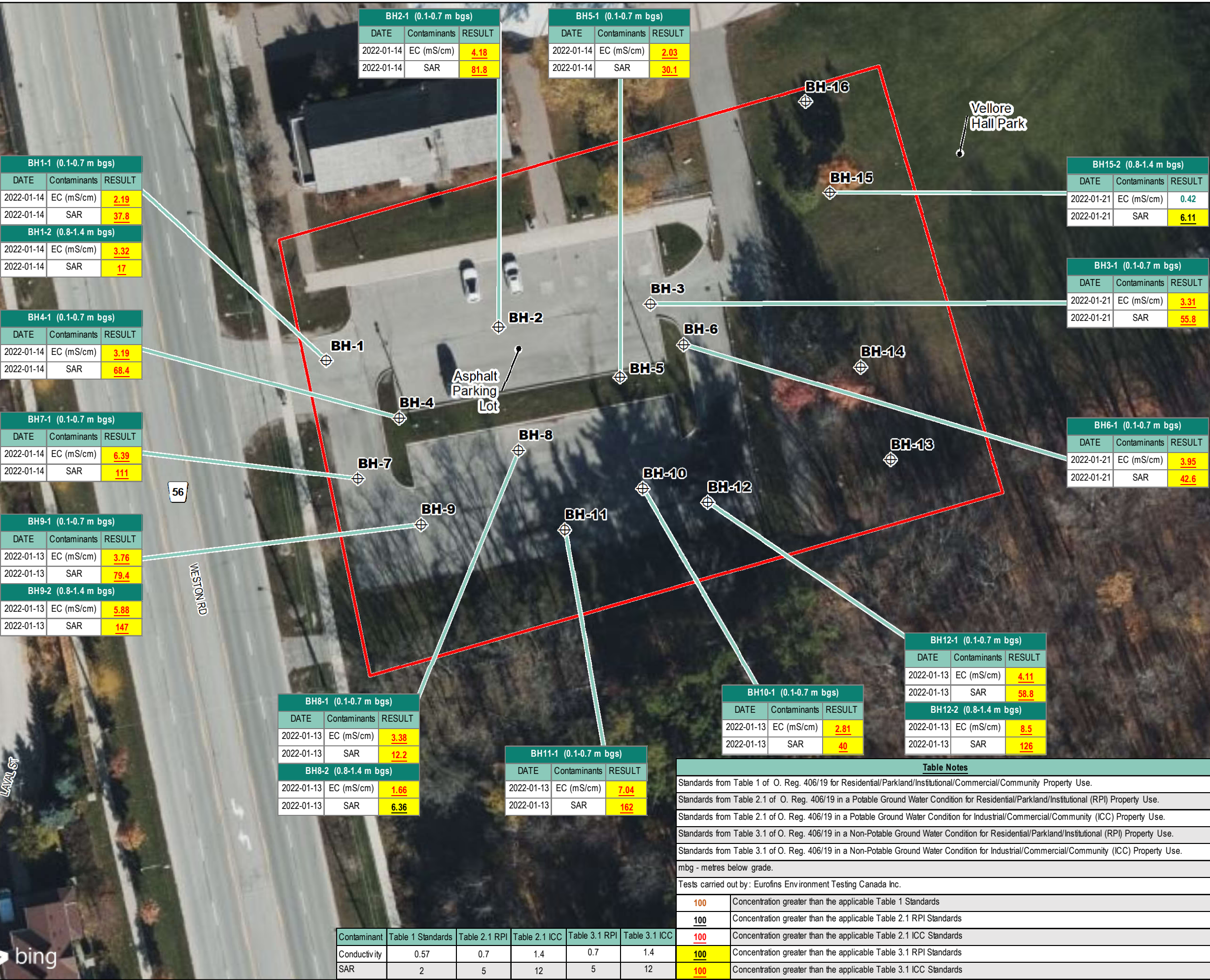
Report Title  
**Soil Characterization Report**

Drawing Title  
**Borehole Location Plan**

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Drawn By	C.M.	Date	April, 2022
Approved By	W.J.	Project No.	02112512.000

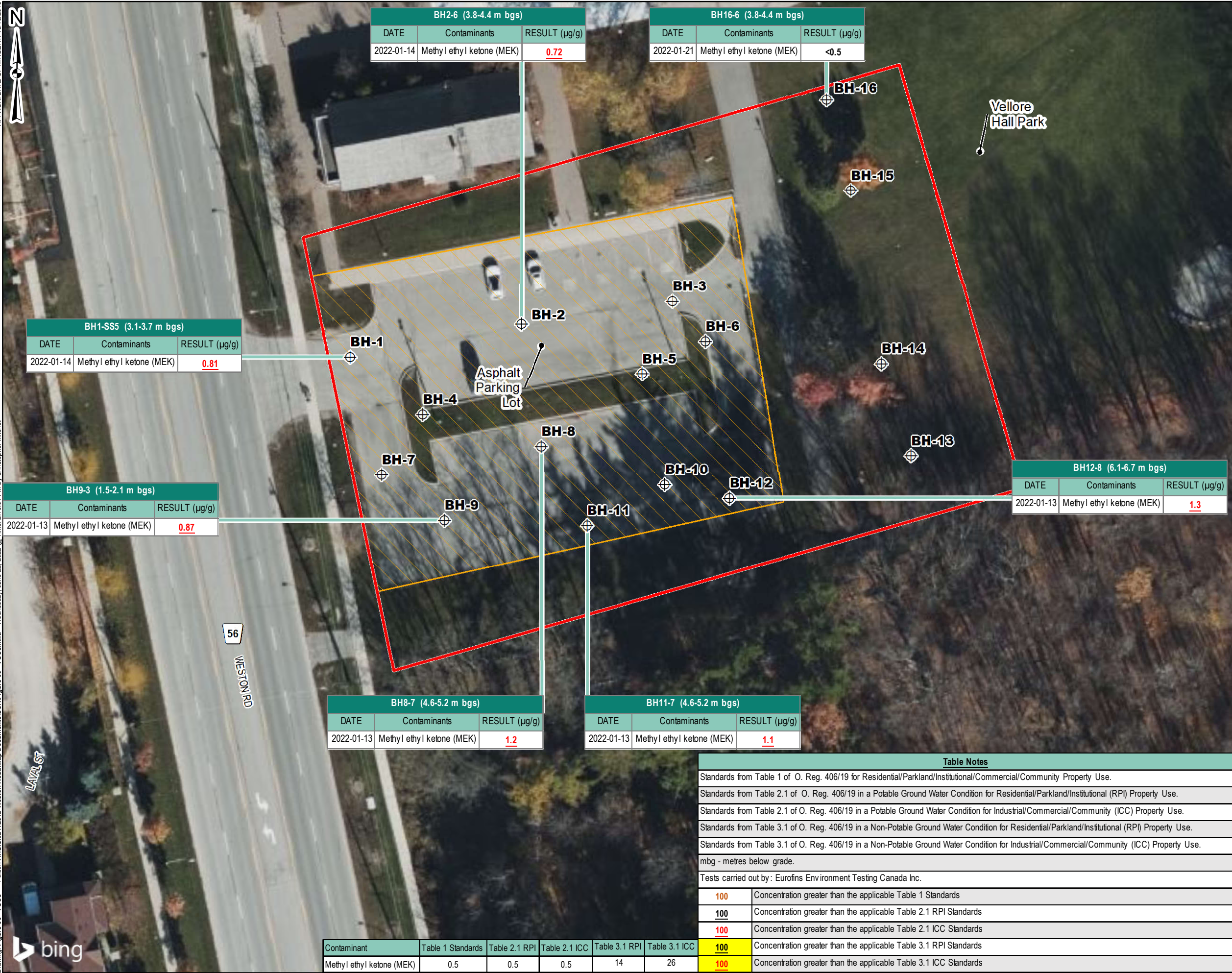
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Wednesday, June 22, 2022 @ 2:10:04 PM by Christopher Mitchell

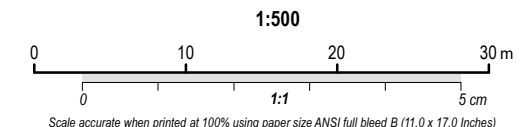


**Notes**

- This drawing shall be read in conjunction with the associated technical report.
- Coordinate System: NAD 1983 UTM Zone 17 T  
Projection: Transverse Mercator  
Datum: North American 1983

**Legend**

- Borehole
- Site Boundary
- Estimated area of VOCs exceedance in soil



A	2022-06-22	-	02112512
Revision	Date	Issue	GIS #

Client  
**City of Vaughan**

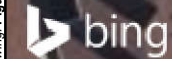
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Report Title  
**Soil Characterization Report**

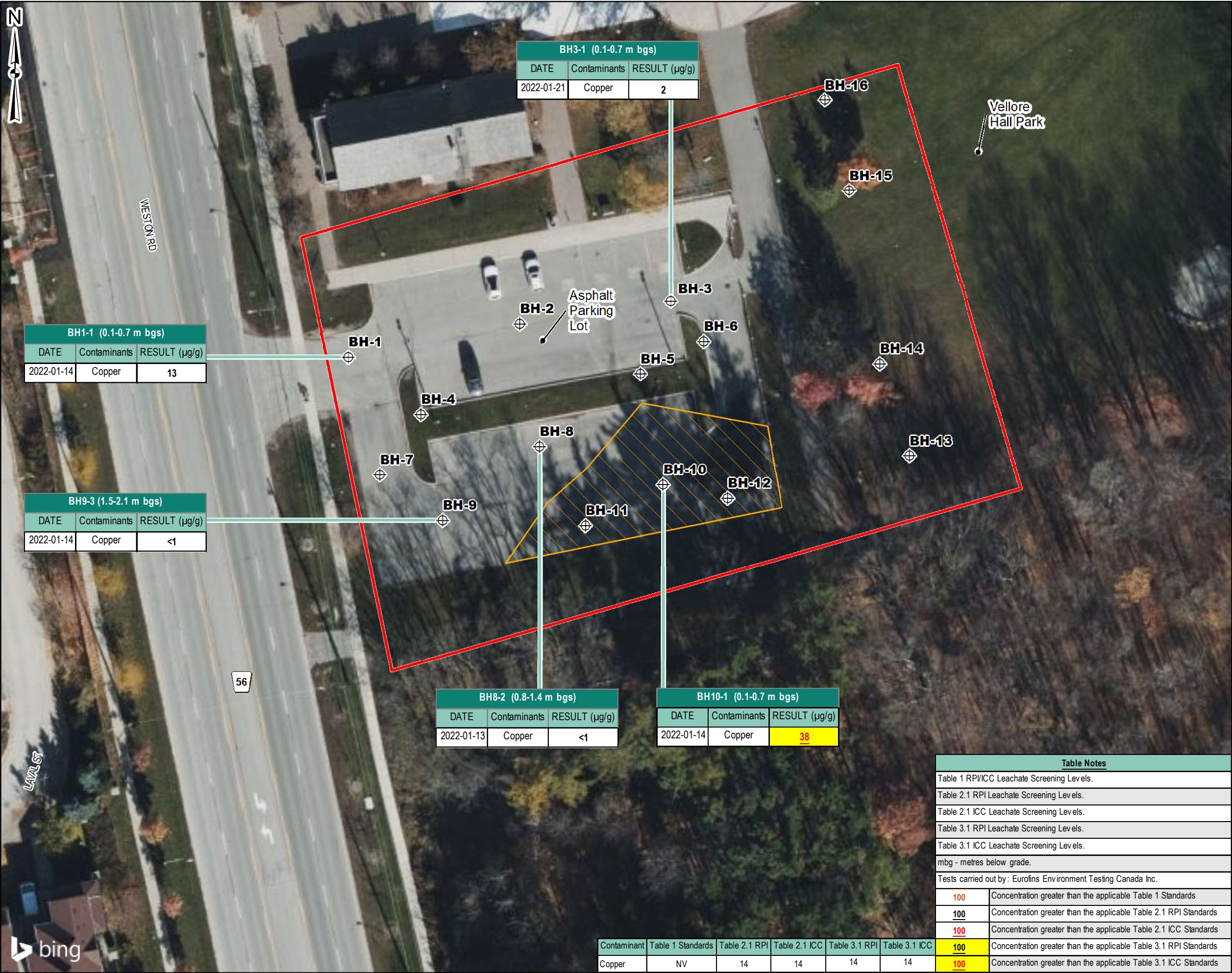
Drawing Title  
**Lateral Distribution of VOCs Exceedance in Soil**

Designed By	S.W.	Scale	1:500
Drawn By	C.M.	Date	June, 2022
Approved By	W.J.	Project No.	02112512.000

Figure No.  
**6**





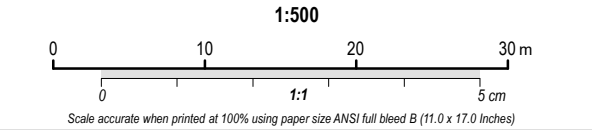


**Notes**

1. This drawing shall be read in conjunction with the associated technical report.

2. Coordinate System: NAD 1983 UTM Zone 17 T  
Projection: Transverse Mercator  
Datum: North American 1983

- Legend**
- Borehole
  - Estimated area of metal exceedance in soil
  - Site Boundary



A	2022-06-22	-	02112512
Revision	Date	Issue	GIS #

Client  
**City of Vaughan**

Site  
**9541 Weston Road, Vaughan, Ontario**

Report Title  
**Soil Characterization Report**

Drawing Title  
**Lateral Distribution of mSPLP (metals) Exceedances in Soil**

Designed By	S.W.	Scale	1:500
Drawn By	C.M.	Date	June, 2022
Approved By	W.J.	Project No.	02112512.000

Figure No.  
**7**



# Appendix B

## Borehole Logs

Englobe 2022 Field Program: BH-1 to BH-13 and BH-15 to BH-16



**ENGLOBE**



## Englobe

1

Logged By: P.Jin

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	Dry	none
Feb 14, 2022	Dry	
Feb 24, 2022	4.0	

## Englobe

Project No. 02112512.000

DRAWING No. BH2

Project: City of Vaughan Fire Station - 9541 Weston Road, Woodbridge, Ontario

Sheet No. 1 of 1

Location: Refer to Borehole Location Plan

N 4,854,300.325 E 615,988.755

Date Drilled: 2022-1-14

Drill Type: Solid Stem Augers

Datum: Geodetic

### Split Spoon Sample



Auger Sample



SPT (N) Value



## Dynamic Cone Test



Shelby Tube



Shear Strength by



### Natural Moisture Content



### Atterberg Limits



Undrained Triaxial at

% Strain at Failure

Shear Strength by

[illegible]

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	Dry	none

# LOG OF BOREHOLE No. BH03

Englobe

Project No. 02112512.000

DRAWING No. BH3

Project: City of Vaughan Fire Station - 9541 Weston Road, Woodbridge, Ontario

Sheet No. 1 of 1

Location: Refer to Borehole Location Plan

N 4,854,305.111 E 616,028.716

Date Drilled: 2022-1-14

Drill Type: Solid Stem Augers

Datum: Geodetic

Split Spoon Sample



Auger Sample



SPT (N) Value



Dynamic Cone Test



Shelby Tube



Shear Strength by

Vane Test



Natural Moisture Content



Atterberg Limits



Undrained Triaxial at

% Strain at Failure



Shear Strength by

Penetrometer Test



GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH m	Standard Penetration Test N Value				Natural Moisture Content % Atterberg Limits (% Dry Weight)				SAMPLES	Sample No	Natural Unit Weight kN/m³	Percent of Fines %
					Shear Strength											
					40	80	120	160	20	40	60					
		ASPHALT CONCRETE (90 mm)	224.9	0												
		SAND AND GRAVEL (Granular Base/Subbase, 120 mm)	224.8													
		SANDY SILT: trace clay, brown, moist, compact to dense	224.7													
				1												
				2												
				3												
				4												
		SILTY SAND: brown, moist, dense to very dense	222.0													
				3												
				4												
		Terminated at 4.4 m	220.5													
		Borehole advanced using continuous flight solid stem augering equipment on January 14, 2022 by DrillTech Drilling LTD.														

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	Dry	none

Checked By: A. Rahman

Logged By: P. Jin

CLASSIFICATION LOG 02112512.GPJ LOG A GWGL02.GDT 22-3-1

# LOG OF BOREHOLE No. BH04

Englobe

Project No. 02112512.000

DRAWING No. BH4

Project: City of Vaughan Fire Station - 9541 Weston Road, Woodbridge, Ontario

Sheet No. 1 of 1

Location: Refer to Borehole Location Plan

N 4,854,288.738 E 615,980.069

Date Drilled: 2022-1-13

Drill Type: Solid Stem Augers

Datum: Geodetic

Split Spoon Sample



Auger Sample



SPT (N) Value



Dynamic Cone Test



Shelby Tube



Shear Strength by

Vane Test



Natural Moisture Content



Atterberg Limits



Undrained Triaxial at

% Strain at Failure



Shear Strength by

Penetrometer Test



0  
15  
10



GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH m	Standard Penetration Test N Value		Natural Moisture Content % Atterberg Limits (% Dry Weight)	SAMPLES	SPT NO	Natural Unit Weight kN/m³	Percent of Fines, %
					40	80	120	160			
		TOPSOIL (160 mm)	225.4	0							
		SAND AND GRAVEL (Granular Base/Subbase, 150 mm)	225.2	0.2	17				11.3		
		SANDY SILT: trace to some clay, brown, moist, loose to dense	225.1								
				1	7				15.4		
				2	34				10.8		
			2.2								
		SILTY SAND: brown, moist to wet, compact to very dense	223.2								
				3	63				12.9		
				4	73				19.2		
				5	59				11.9		
				6	63				21.0		
				7							
				8	50				21.0		
				9							
			218.1								
				10	22				10.3		
			8.2								
		Terminated at 8.2 m	217.2								
		Borehole advanced using continuous flight solid stem augering equipment on January 13, 2022 by DrillTech Drilling LTD.									

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	7.3	none

Checked By: A. Rahman

Logged By: P. Jin

CLASSIFICATION LOG 02112512.GPJ LOG A GWGL02.GDT 22-3-1

# LOG OF BOREHOLE No. BH05

Englobe

Project No. 02112512.000

DRAWING No. BH5

Project: City of Vaughan Fire Station - 9541 Weston Road, Woodbridge, Ontario

Sheet No. 1 of 1

Location: Refer to Borehole Location Plan

N 4,854,296.052 E 616,010.286

Date Drilled: 2022-1-13

Drill Type: Solid Stem Augers

Datum: Geodetic

Split Spoon Sample



Auger Sample



SPT (N) Value



Dynamic Cone Test



Shelby Tube



Shear Strength by  
Vane Test



Natural Moisture Content



Atterberg Limits



Undrained Triaxial at  
% Strain at Failure



Shear Strength by  
Penetrometer Test



GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH m	Standard Penetration Test N Value				Natural Moisture Content % Atterberg Limits (% Dry Weight)	SAMPLES	SAMPLE NO	Natural Unit Weight kN/m³	Percent of Fines, %
					Shear Strength								
					40	80	120	160					
					50	100	150	200		20	40	60	
		ASPHALT CONCRETE (100 mm)	225.1	0.1									
		SAND AND GRAVEL (Granular Base/Subbase, 180 mm)	225.0										
		SANDY SILT: trace clay, brown, moist, very loose to compact	224.8		27					13.9			
				1	4					19.5			
				2	4					14.6			
		SILTY SAND: brown, moist, dense to very dense	222.8										
				3	33					14.2			
				4									
				5	57					16.6			
				6									
				7	50					21.0			
				8									
				9	47					18.4			
				10									
				11									
				12									
				13									
				14									
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				177									
				178									

Project No. 02112512.000

DRAWING No. BH6

Project: City of Vaughan Fire Station - 9541 Weston Road, Woodbridge, Ontario

Sheet No. 1 of 1

Location: Refer to Borehole Location Plan

N 4,854,299.182 E 616,019.578

Date Drilled: 2022-1-13

Drill Type: Solid Stem Augers

Datum: Geodetic

### Split Spoon Sample



Auger Sample



SPT (N) Value



## Dynamic Cone Test



Shelby Tube



Shear Strength by

### Vane Test



### Natural Moisture Content



### Atterberg Limits



Undrained Triaxial at

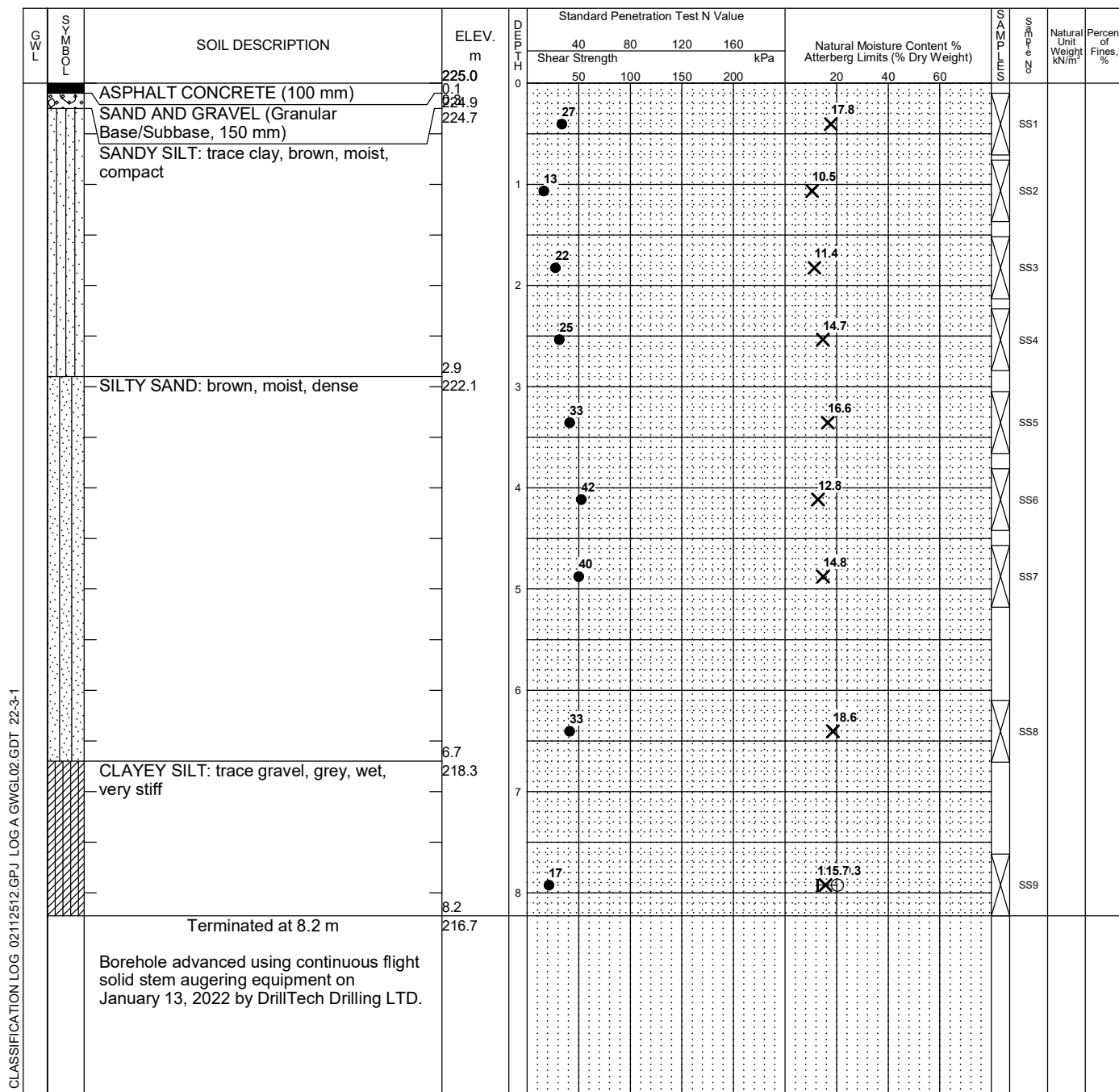
% Strain at Failure

Shear Strength by

0

15  
10

▲



Checked By: A.Rahman

Logged By: P. Jin

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	Dry	none

# LOG OF BOREHOLE No. BH07

Englobe

Project No. 02112512.000

DRAWING No. BH7

Project: City of Vaughan Fire Station - 9541 Weston Road, Woodbridge, Ontario

Sheet No. 1 of 1

Location: Refer to Borehole Location Plan

N 4,854,281.299 E 615,973.690

Date Drilled: 2022-1-13

Drill Type: Solid Stem Augers

Datum: Geodetic

Split Spoon Sample



Auger Sample



SPT (N) Value



Dynamic Cone Test



Shelby Tube



Shear Strength by

Vane Test



Natural Moisture Content



Atterberg Limits



Undrained Triaxial at

% Strain at Failure



Shear Strength by

Penetrometer Test



0

15

10

GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH m	Standard Penetration Test N Value				Natural Moisture Content %				SAMPLES	SPT NO	Natural Unit Weight kN/m <sup>3</sup>	Percent of Fines, %
					Shear Strength				Atterberg Limits (% Dry Weight)							
					40	80	120	160	20	40	60					
		ASPHALT CONCRETE (110 mm)	225.3	0.1												
		SAND AND GRAVEL (Granular Base/Subbase, 150 mm)	225.2													
		SANDY SILT: trace to some clay, brown, moist, loose to compact	225.0													
				1												
				2												
			2.2													
		SILTY SAND: brown, moist, dense to very dense	223.1													
				3												
				4												
			4.4													
		Terminated at 4.4 m	220.9													
		Borehole advanced using continuous flight solid stem augering equipment on January 13, 2022 by DrillTech Drilling LTD.														

CLASSIFICATION LOG 02112512.GPJ LOG A GWGL02.GDT 22-3-1

Checked By: A.Rahman

Logged By: P. Jin

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	Dry	none

# LOG OF BOREHOLE No. BH08

Englobe

Project No. 02112512.000

DRAWING No. BH8

Project: City of Vaughan Fire Station - 9541 Weston Road, Woodbridge, Ontario

Sheet No. 1 of 1

Location: Refer to Borehole Location Plan

N 4,854,284.188 E 615,997.335

Date Drilled: 2022-1-13

Drill Type: Solid Stem Augers

Datum: Geodetic

Split Spoon Sample



Auger Sample



SPT (N) Value



Dynamic Cone Test



Shelby Tube



Shear Strength by

Vane Test



Natural Moisture Content



Atterberg Limits



Undrained Triaxial at

% Strain at Failure



Shear Strength by

Penetrometer Test



0

15

10



GWL	S.M. Log	SOIL DESCRIPTION	ELEV. m	DEPTH m	Standard Penetration Test N Value		Natural Moisture Content %		SAMPLES	SPT	Natural Unit Weight kN/m³	Percent of Fines, %				
					40 80 120 160		20 40 60									
					Shear Strength kPa		Atterberg Limits (% Dry Weight)									
		ASPHALT CONCRETE (80 mm)	225.2	0												
		SAND AND GRAVEL (Granular Base/Subbase, 250 mm)	225.1	0.1												
		SANDY SILT: trace gravel, brown, moist, loose	224.8	0.3												
				1												
		SILT: some sand, trace clay, brown, moist, compact to very dense	223.8	1.4												
		Gr: 0%, Sa: 13.8%, Si: 78.3%, Cl: 7.9%		2												
				3												
				4												
				5												
				6												
				7												
				8												
		SANDY CLAYEY SILT: trace gravel, grey, moist, hard	218.5	6.7												
		Gr: 1.3%, Sa: 21.5%, Si: 46.7%, Cl: 30.5%		7												
				8												
		Terminated at 8.2 m	216.9	8.2												
		Borehole advanced using continuous flight solid stem augering equipment on January 13, 2022 by DrillTech Drilling LTD.														

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	7.6	none
Feb 14, 2022	7.6	
Feb 24, 2022	Dry	

Checked By: A. Rahman

Logged By: P. Jin



# LOG OF BOREHOLE No. BH09

Englobe

Project No. 02112512.000

DRAWING No. BH9

Project: City of Vaughan Fire Station - 9541 Weston Road, Woodbridge, Ontario

Sheet No. 1 of 1

Location: Refer to Borehole Location Plan

N 4,854,275.648 E 615,983.373

Date Drilled: 2022-1-13

Drill Type: Solid Stem Augers

Datum: Geodetic

Split Spoon Sample



Auger Sample



SPT (N) Value



Dynamic Cone Test



Shelby Tube



Shear Strength by

Vane Test



Natural Moisture Content



Atterberg Limits



Undrained Triaxial at

% Strain at Failure



Shear Strength by

Penetrometer Test



GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH m	Standard Penetration Test N Value				Natural Moisture Content % Atterberg Limits (% Dry Weight)	SAMPLES	Sample No.	Natural Unit Weight kN/m³	Percent of Fines %
					Shear Strength kPa								
				40	80	120	160	20	40	60			
			225.2	0									
		ASPHALT CONCRETE (100 mm)	225.1	0.1									
		SAND AND GRAVEL (Granular Base/Subbase, 300 mm)	224.8	0.4		58				9.2			
		SANDY SILT: brown, moist, compact											
				1	10					12.9			
				2	16					11.2			
			2.2										
		SILTY SAND: brown, moist, loose to compact	222.9		12					8.0			
				3	12					7.2			
				4	9					13.6			
				5	8					10.4			
				6									
				7	7					23.1			
				8									

# LOG OF BOREHOLE No. BH10

Englobe

Project No. 02112512.000

DRAWING No. BH10

Project: City of Vaughan Fire Station - 9541 Weston Road, Woodbridge, Ontario

Sheet No. 1 of 1

Location: Refer to Borehole Location Plan

N 4,854,285.523 E 616,013.237

Date Drilled: 2022-1-14

Drill Type: Solid Stem Augers

Datum: Geodetic

Split Spoon Sample



Auger Sample



SPT (N) Value



Dynamic Cone Test



Shelby Tube



Shear Strength by

Vane Test



Natural Moisture Content



Atterberg Limits



Undrained Triaxial at

% Strain at Failure



Shear Strength by

Penetrometer Test



0  
15  
10



GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH m	Standard Penetration Test N Value				Natural Moisture Content % Atterberg Limits (% Dry Weight)			SAMPLES	Sample No.	Natural Unit Weight kN/m³	Percent of Fines %	
					Shear Strength kPa											
					40	80	120	160	20	40	60					
		ASPHALT CONCRETE (110 mm)	225.1	0												
		SAND AND GRAVEL (Granular Base/Subbase, 220 mm)	224.9	0.1	7					17.7			SS1			
		SANDY SILT: trace gravel, brown, moist, loose	224.7													
				1	4					17.6			SS2			
		SILTY SAND: brown, moist, compact to very dense	223.7	1.4	14					5.5			SS3			
				2	29					18.6			SS4			
				3	59					10.2			SS5			
				4	61					19.9			SS6			
				5	52					8.8			SS7			
				6												
				7	39					17.4			SS8			
		CLAYEY SILT: trace sand, trace gravel, grey, moist, very stiff	218.4													
				8	19					12.6	0.1		SS9			
		Terminated at 8.2 m	216.8													
		Borehole advanced using continuous flight solid stem augering equipment on January 14, 2022 by DrillTech Drilling LTD.														

CLASSIFICATION LOG 02112512.GPJ LOG A GWGL02 GDT 22-3-1

Checked By: A. Rahman

Logged By: P. Jin

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	Dry	none

# LOG OF BOREHOLE No. BH11

Englobe

Project No. 02112512.000

DRAWING No. BH11

Project: City of Vaughan Fire Station - 9541 Weston Road, Woodbridge, Ontario

Sheet No. 1 of 1

Location: Refer to Borehole Location Plan

N 4,854,275.359 E 616,002.160

Date Drilled: 2022-1-21

Drill Type: Solid Stem Augers

Datum: Geodetic

Split Spoon Sample



Auger Sample



SPT (N) Value



Dynamic Cone Test



Shelby Tube



Shear Strength by

Vane Test



Natural Moisture Content



Atterberg Limits



Undrained Triaxial at

% Strain at Failure



Shear Strength by

Penetrometer Test



0  
15  
10



GWL	SOIL DESCRIPTION	ELEV. m	DEPTH m	Standard Penetration Test N Value		Natural Moisture Content % Atterberg Limits (% Dry Weight)	SAMPLES	SPT NO.	Natural Unit Weight kN/m <sup>3</sup>	Percent of Fines, %
				40	80	120				
	ASPHALT CONCRETE (110 mm)	225.0	0.1							
	SAND AND GRAVEL (Granular Base/Subbase, 120 mm)	224.9								
	SILT: some clay, brown, moist, loose to very dense	224.7								
	Gr: 0%, Sa: 0%, Si: 87.7%, Cl: 12.3%									
			0	10				SS1		
			1	10				SS2		
			2	16				SS3		
			3	47				SS4		
			4	50				SS5		
			5	58				SS6		
			6					SS7		
			7	29				SS8		
			8	28				SS9		
	Terminated at 8.2 m	216.7								
	Borehole advanced using continuous flight solid stem augering equipment on January 21, 2022 by DrillTech Drilling LTD.									

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	7.5	none

Checked By: A. Rahman

Logged By: P. Jin

CLASSIFICATION LOG 02112512.GPJ LOG A GWGL02.GDT 22-3-1

# LOG OF BOREHOLE No. BH12

Englobe

Project No. 02112512.000

DRAWING No. BH12

Project: City of Vaughan Fire Station - 9541 Weston Road, Woodbridge, Ontario

Sheet No. 1 of 1

Location: Refer to Borehole Location Plan

N 4,854,275.874 E 616,022.481

Date Drilled: 2022-1-21

Drill Type: Solid Stem Augers

Datum: Geodetic

Split Spoon Sample



Auger Sample



SPT (N) Value



Dynamic Cone Test



Shelby Tube



Shear Strength by

Vane Test



Natural Moisture Content



Atterberg Limits



Undrained Triaxial at

% Strain at Failure

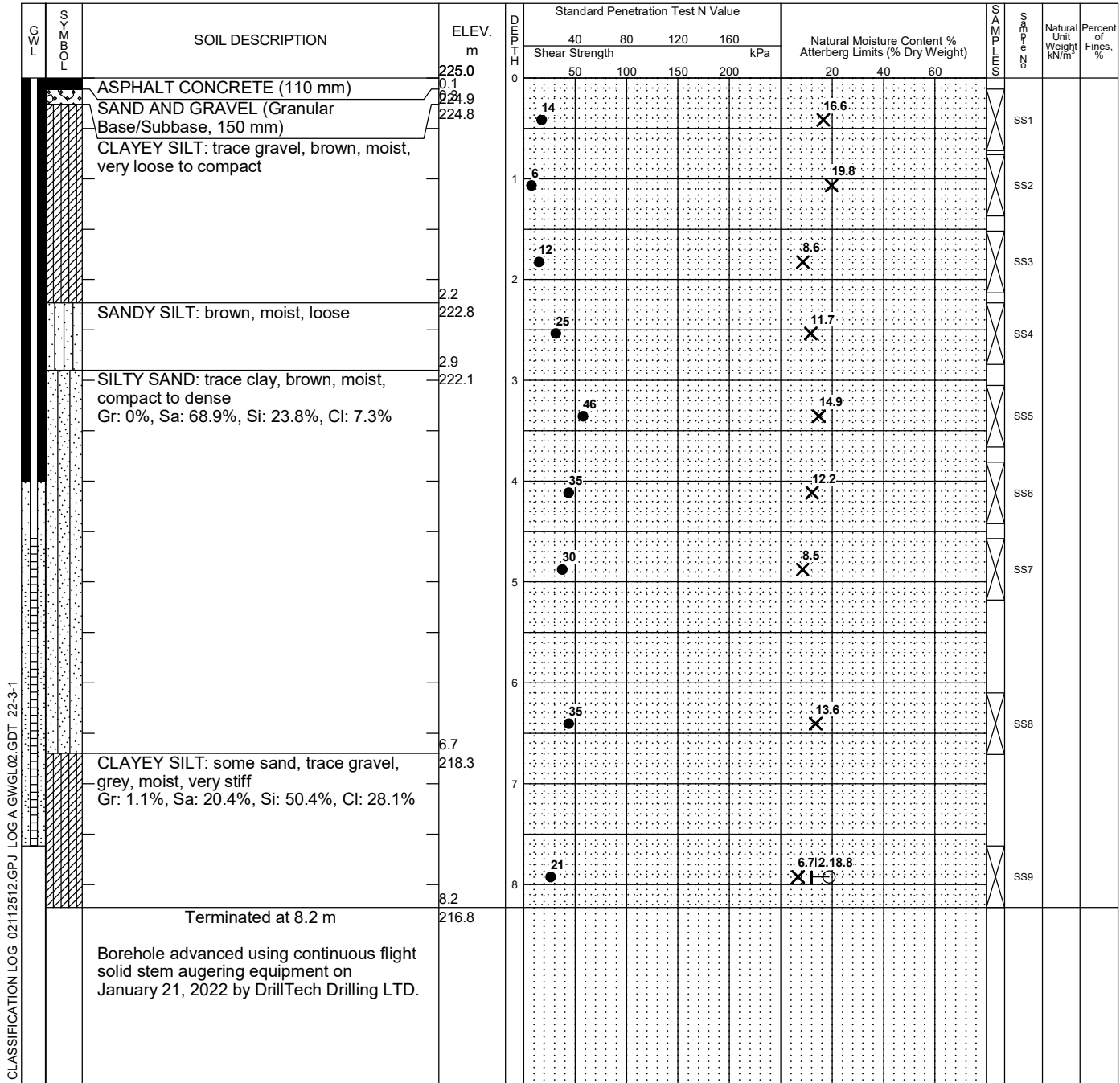


Shear Strength by

Penetrometer Test



0  
15  
10



Checked By: A. Rahman

Logged By: P. Jin

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	Dry	none
Feb 14, 2022	Dry	
Feb 24, 2022	7.6	

## Englobe

Logged By: P. Jin

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	Dry	none

# LOG OF BOREHOLE No. BH15

Englobe

Project No. 02112512.000

DRAWING No. BH15

Project: City of Vaughan Fire Station - 9541 Weston Road, Woodbridge, Ontario

Sheet No. 1 of 1

Location: Refer to Borehole Location Plan

N 4,854,317.902 E 616,043.569

Date Drilled: 2022-1-21

Drill Type: Solid Stem Augers

Datum: Geodetic

Split Spoon Sample



Auger Sample



SPT (N) Value



Dynamic Cone Test



Shelby Tube



Shear Strength by

Vane Test



Natural Moisture Content

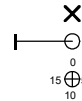
Atterberg Limits

Undrained Triaxial at

% Strain at Failure

Shear Strength by

Penetrometer Test



GWL	SYMBOL	SOIL DESCRIPTION	ELEV. m	DEPTH m	Standard Penetration Test N Value				Natural Moisture Content % Atterberg Limits (% Dry Weight)				SAMPLES	Sample No	Natural Unit Weight kN/m³	Percent of Fines %	
					Shear Strength kPa												
					40	80	120	160									
		TOPSOIL (210 mm)	224.8	0													
		SILTY CLAY: some sand, trace gravel, brown, moist, firm to very stiff Gr: 2.7%, Sa: 18.2%, Si: 37.0%, Cl: 42.1%	224.6	0.2	25					18.2				SS1			
				1	10					11.8				SS2			
				2	17					11.9				SS3			
			222.2	3	17					11.2				SS4			
				4	23					14.2				SS5			
			4.4	4	8					113.523.1				SS6			
		Terminated at 4.4 m	220.4														
		Borehole advanced using continuous flight solid stem augering equipment on January 21, 2022 by DrillTech Drilling LTD.															

Checked By: A. Rahman

Logged By: P. Jin

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	2.7	none
Feb 14, 2022	2.7	
Feb 24, 2022	1.3	

CLASSIFICATION LOG 02112512.GPJ LOG A GWGL02.GDT 22-3-1

## Englobe



Logged By: P.Jin

Time	Water Level (m)	Depth to Cave (m)
Upon Completion	Dry	none

# Appendix C

## Table of Analytical Results

Table 201: Petroleum Hydrocarbons (PHCs, F1 to F4) and BTEX Analysis - Soil

Table 202: Metals and Inorganics Analysis - Soil

Table 203: Semi-Volatile Organic Compounds (SVOCs) Analysis - Soil

Table 204: Volatile Organic Compounds (VOCs) Analysis - Soil

Table 205: Organochlorinated Pesticides (OCs) - Soil

Table 206: PCBs Analysis - Soil

Table 207: Modified Synthetic Precipitation Leaching (mSPLP) Analysis - Soil

Table 208: Toxicity Characteristic Leaching Procedure (TCLP) Analysis - Soil

Table 209: Evaluation of Soil Field Duplicate Data - Metals and Inorganics



**eNGLOBE**



Table 201  
Soil Analytical Results  
Petroleum Hydrocarbons (PHCs, F1 to F4) and BTEX

Parameters	Units	RDL	Guidelines					Sample ID Laboratory ID Sample Depth (metres below ground surface) Sample Collection Date (m/d/y)																									
								Site Condition Standards (SCS)																Sample Depth (metres below ground surface) Sample Collection Date (m/d/y)									
								BH 1-3 1606026 @ 1.5-2.1 1/14/2022	BH 1-6 1606027 @ 3.1-3.7 1/14/2022	BH 2-1 1606028 @ 0.1-0.7 1/14/2022	BH 2-4 1606029 @ 3.8-4.4 1/14/2022	DUP-4 1606030 Duplication of BH 2-6	BH 3-5 1606039 @ 3.1-3.7 1/21/2022	BH 4-2 1606032 @ 0.8-1.4 1/14/2022	BH 4-9 1606033 @ 7.5-8.2 1/14/2022	BH 5-3 1606036 @ 1.5-2.1 1/14/2022	BH 5-9 1606037 @ 7.5-8.2 1/21/2022	BH 6-9 1606038 @ 1.5-2.1 1/14/2022	DUP-3 1606041 Duplication of BH 7-3	BH 7-6 1606042 @ 3.8-4.4 1/13/2022	BH 8-7 1606045 @ 4.6-5.2 1/13/2022	BH 9-3 1606048 @ 1.5-2.1 1/13/2022	BH 9-9 1606049 @ 7.5-8.2 1/13/2022	BH 10-2 1606051 @ 0.8-1.4 1/13/2022	BH 11-2 1606054 @ 0.8-1.4 1/13/2022	BH 11-7 1606058 @ 6.1-6.7 1/13/2022	BH 12-2 1606067 @ 0.8-1.4 1/13/2022	BH 12-8 1606068 @ 3.8-4.4 1/13/2022	BH 13-8 1606069 @ 0.8-1.4 1/13/2022	BH 15-2 1606044 @ 3.8-4.4 1/21/2022	BH 16-3 1606046 @ 3.8-4.4 1/21/2022		
			Table 1 RPI/ICC	Table 2.1 RPI	Table 2.1 ICC	Table 3.1 RPI	Table 3.1 ICC																										
			BTEX & Petroleum Hydrocarbons																														
Benzene	ug/g	0.0068	0.02	0.02	0.02	0.034	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Ethylbenzene	ug/g	0.018	0.05	0.05	0.05	1.9	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
F1 (C6 to C10)	ug/g	10	25	25	25	25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F1-BTEX	ug/g	10	25	25	25	25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16)	ug/g	2	10	10	26	10	26	<2	<2	<2	<2	<2	3	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	4	5	7	
F3 (C16 to C34)	ug/g	20	240	240	240	300	1700	<20	<20	20	<20	<20	<20	<20	<20	<20	<20	<20	60	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	30
F4 (C34 to C50)	ug/g	20	120	2800	3300	2800	3300	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Toluene	ug/g	0.08	0.2	0.2	0.2	0.99	7.8	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
Xylene (Total)	ug/g	0.05	0.05	0.091	0.091	0.9	3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene, m,p-	ug/g	0.05	NV	NV	NV	NV	NV	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene, o-	ug/g	0.05	NV	NV	NV	NV	NV	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

<b>Notes</b>		
RDL	Reportable Detection Limit	
NV	No Criteria/RDL Value	
NA	Not Applicable	
<	Values is less than the RDL	
Table 1 SCS RPIICC	Table 1, Full Depth Background Site Condition Standards (SCS), Residential/Parkland/Institutional/Industrial/Commercial/Community (RPIICC) Property Use, Soil (other than sediment) Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Table 2.1 SCS RPI	Table 2.1, Full Depth Generic Site Condition Standards (SCS) in a Potable Groundwater Condition, Residential/Parkland/Institutional (RPI) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Table 2.1 SCS ICC	Table 2.1, Full Depth Generic Site Condition Standards (SCS) in a Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Table 3.1 SCS RPI	Table 3.1, Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition, Residential/Parkland/Institutional (RPI) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Table 3.1 SCS RPI	Table 3.1, Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Yellow Highlight	Exceeds Table 1 SCS RPIICC	
<b>Bold</b>	Exceeds Table 2.1 SCS RPI and Table 2.1 SCS ICC	
<u>Underlined</u>	Exceeds Table 3.1 SCS RPI and Table 3.1 SCS ICC	

Parameters	Units	RDL	Guidelines					Sample ID																					
								Laboratory ID																					
			Site Condition Standards (SCS)					Sample Depth (metres below ground surface)																					
								Sample Collection Date (m/d/y)																					
			Table 1 RPI/ICC	Table 2.1 RPI	Table 2.1 ICC	Table 3.1 RPI	Table 3.1 ICC	BH 1-1 1/14/2022	BH 1-2 @ 0.8-1.4 1/14/2022	BH 2-1 1/14/2022	BH 3-1 @ 0.1-0.7 1/21/2022	BH 4-1 @ 0.1-0.7 1/14/2022	BH 5-1 @ 0.1-0.7 1/14/2022	BH 6-1 @ 0.1-0.7 1/21/2022	BH 7-1 @ 0.1-0.7 1/14/2022	BH 8-1 @ 0.1-0.7 1/13/2022	BH 8-2 1/13/2022	BH 9-1 @ 0.8-1.4 1/13/2022	BH 9-2 @ 0.8-1.4 1/13/2022	BH 10-1 @ 0.1-0.7 1/13/2022	BH 11-1 @ 0.1-0.7 1/13/2022	DUP-1 Duplication of BH 11-1	BH 12-1 @ 0.1-0.7 1/13/2022	BH 12-2 @ 0.8-1.4 1/13/2022	BH 13-1 @ 0.1-0.7 1/21/2022	BH 15-1 @ 0.1-0.7 1/21/2022	BH 15-2 @ 0.8-1.4 1/21/2022	BH 16-1 @ 0.1-0.7 1/21/2022	
Metals and Inorganics																													
Antimony	ug/g	1	1.3	7.5	40	7.5	40	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic	ug/g	1	18	18	18	18	18	2	4	2	4	2	3	4	3	3	2	2	3	3	3	4	4	4	2	2	2	3	3
Barium	ug/g	1	220	390	670	390	670	46	65	57	94	29	51	59	63	39	20	21	38	63	53	75	84	65	23	46	54	59	59
Beryllium	ug/g	1	2.5	4	8	4	8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Boron	ug/g	5	36	120	120	120	120	<5	<5	15	<5	<5	<5	<5	5	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5	<5	<5
Boron (Hot Water Soluble)	ug/g	0.5	NV	2	2	1.5	2	<0.5	-	-	-	-	-	-	-	-	<0.5	<0.5	-	-	-	-	<0.5	-	-	<0.5	-	-	-
Cadmium	ug/g	0.4	1.2	1.2	1.9	1.2	1.9	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium	ug/g	1	70	160	160	160	160	20	28	12	25	18	20	27	20	16	11	10	14	21	30	20	27	22	14	16	16	20	20
Cobalt	ug/g	1	21	22	80	22	80	5	8	2	8	4	6	6	7	7	4	3	6	7	6	7	8	9	3	4	6	5	5
Copper	ug/g	1	92	140	230	140	230	16	20	5	19	14	16	14	18	16	11	12	15	17	16	17	21	21	5	12	12	14	14
Cyanide (Free)	ug/g	0.005	0.051	0.051	0.051	0.051	0.051	<0.005	-	-	-	-	-	-	-	-	<0.005	<0.005	-	-	-	-	<0.005	-	-	<0.005	-	-	-
Chromium VI	ug/g	0.2	0.66	8	8	8	8	<0.20	-	-	-	-	-	-	-	-	<0.20	<0.20	-	-	-	-	<0.20	-	-	0.21	-	-	-
Lead	ug/g	1	120	120	120	120	120	14	12	8	8	15	14	9	11	9	4	115	6	13	17	21	46	10	6	11	5	13	13
Mercury	ug/g	0.1	0.27	0.27	0.27	0.27	0.27	<0.1	-	-	-	-	-	-	-	-	<0.1	<0.1	-	-	-	-	<0.1	-	-	<0.1	-	-	-
Molybdenum	ug/g	1	2	7	40	6.9	40	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	ug/g	1	82	100	270	100	270	14	23	5	18	12	15	18	17	16	9	8	14	16	19	16	20	21	8	10	12	13	13
Selenium	ug/g	0.5	1.5	2.4	5.5	2.4	5.5	<0.5	0.7	<0.5	0.5	<0.5	0.6	<0.5	<0.5	0.6	0.6	<0.5	0.6	0.7	0.6	0.6	0.9	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
Silver	ug/g	0.2	0.5	20	40	20	40	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	ug/g	1	1	1	3.3	1	3.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Uranium	ug/g	0.5	2.5	23	33	23	33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Vanadium	ug/g	2	86	86	86	86	86	20	31	8	35	20	24	29	28	24	18	14	21	27	26	27	33	29	17	21	24	25	25
Zinc	ug/g	2	290	340	340	340	340	44	62	10	42	44	52	42	48	47	21	56	31	58	56	64	63	47	18	34	26	48	48
Other Parameters																													
Moisture (%)	%	0.1	NV	NV	NV	NV	NV	-	-	9.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH (pH Units)		2	NV	NV	NV	NV	NV	7.76	-	-	-	-	-	-	-	-	7.69	7.75	-	-	-	-	-	-	-	-	7.51	-	-
Electrical Conductivity	mS/cm	0.05	0.57	0.7	1.4	0.7	1.4	21.9	3.32	4.18	3.31	3.19	2.03	3.95	6.39	3.38	1.66	3.78	5.88	2.81	7.04	-	4.11	8.5	0.34	0.42	0.42	0.40	0.40
Sodium Absorption Ratio (SAR)		0.01	2.4	5	12	5	12	37.8	17.0	81.8	55.8	68.4	30.1	42.6	111	12.2	6.36	79.4	147	40.0	162	-	58.8	128	1.18	1.35	6.11	0.89	0.89

Notes		
RDL	Reportable Detection Limit	
NV	Not Verifiable	
NA	Not Applicable	
<c	less than the RDL	
Table 1 SCS RPIICC	Table 1, Full Depth Background Site Condition Standards (SCS) , Residential/Parkland/Institutional/Industrial/Commercial/Community (RPIICC) Property Use, Soil (other than sediment), Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Table 2.1 SCS RPI	Table 2.1, Full Depth Generic Site Condition Standards (SCS) in a Potable Groundwater Condition, Residential/Parkland/Institutional (RPI) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Table 2.1 SCS ICC	Table 2.1, Full Depth Generic Site Condition Standards (SCS) in a Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Table 3.1 SCS RPI	Table 3.1, Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition, Residential/Parkland/Institutional (RPI) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Table 3.1 SCS RPI	Table 3.1, Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Yellow Highlight	Exceeds Table 1 SCS RPIICC	
Bold	Exceeds Table 2.1 SCS RPI and Table 3.1 SCS RPI	
Underlined	Exceeds Table 2.1 SCS ICC and Table 3.1 SCS ICC	

Table 203  
Soil Analytical Results  
PAHs

Parameters	Units	RDL	Guidelines					Sample ID								
								Laboratory ID								
			Site Condition Standards (SCS)					Sample Depth (metres below ground surface)								
								Sample Collection Date (m/d/y)								
							BH 1-1	BH 2-1	BH 4-1	BH 6-1	BH 7-1	DUP-2	BH 8-2	BH 9-2	BH 12-1	
							1606024	1606028	1606031	1606837	1606038	1606039	1606044	1606047	1606056	
Table 1 RPICC	Table 2.1 RPI	Table 2.1 ICC	Table 3.1 RPI	Table 3.1 ICC	@ 0.1-0.7 1/14/2022	@ 0.1-0.7 1/14/2022	@ 0.1-0.7 1/14/2022	@ 0.1-0.7 1/21/2022	@ 0.1-0.7 1/14/2022	Duplication of BH 7-1	@ 0.8-1.4 1/13/2022	@ 0.8-1.4 1/13/2022	@ 0.1-0.7 1/13/2022			
Semi-VOCs /PAHs																
Acenaphthene	ug/g	0.05	0.072	2.5	2.5	14	15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	ug/g	0.05	0.093	0.09	0.093	0.093	0.093	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	ug/g	0.05	0.16	0.16	0.16	0.16	0.16	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	ug/g	0.05	0.36	0.5	0.92	0.5	1	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	ug/g	0.05	0.3	0.31	0.31	0.57	0.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	ug/g	0.05	0.47	3.2	3.2	5.7	7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	ug/g	0.05	0.68	6.6	13	6.6	13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	ug/g	0.05	0.48	3.1	3.1	5.7	7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	ug/g	0.05	2.8	7	9.4	7	14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	ug/g	0.05	0.1	0.6	0.7	0.57	0.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	ug/g	0.05	0.56	0.7	2.8	0.69	70	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	ug/g	0.05	0.12	7	6.8	6.8	6.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	ug/g	0.05	0.23	0.38	0.76	0.38	0.76	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylnapthalene, 1-	ug/g	0.05	0.59	0.6	0.59	0.92	8.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylnapthalene, 2-	ug/g	0.05	0.59	0.6	0.59	0.92	8.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Naphthalene	ug/g	0.013	0.09	0.2	0.2	0.59	1.8	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Phenanthrene	ug/g	0.05	0.69	6	12	6.2	12	<0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	ug/g	0.05	1	28	28	70	70	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Notes	
RDL	Reportable Detection Limit
NV	No Criteria/RDL Value
NA	Not Applicable
<	Values is less than the RDL
Table 1 SCS RPIICC	Table 1, Full Depth Background Site Condition Standards (SCS) , Residential/Parkland/Insititutional/Industrial/Commercial/Community (RPIICC) Property Use, Soil (other than sediment) Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 2.1 SCS RPI	Table 2.1, Full Depth Generic Site Condition Standards (SCS) in a Potable Groundwater Condition, Residential/Parkland/Insititutional (RPI) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 2.1 SCS ICC	Table 2.1, Full Depth Generic Site Condition Standards (SCS) in a Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 3.1 SCS RPI	Table 3.1, Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition, Residential/Parkland/Insititutional (RPI) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 3.1 SCS RPI	Table 3.1, Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Yellow Highlight	Exceeds Table 1 SCS RPIICC
Bold	Exceeds Table 2.1 SCS RPI and Table 2.1 SCS ICC
Underlined	Exceeds Table 3.1 SCSRPI and tabe 3.1 SCS ICC

Table 204  
Soil Analytical Results  
Volatile Organic Compounds

Parameters	Units	RDL	Guidelines					Sample ID							
								Sample Depth (metres below ground surface)							
			Site Condition Standards (SCS)					Sample Collection Date (m/d/y)							
								BH 1-5	BH 2-6	DUP-4	BH 8-7	BH 9-3	BH 11-7	BH 12-8	BH 16-6
			1806027	1806029	1806030	1806045	1806048	1806055	1806058	1806845					
Table 1 RPI/ICC	Table 2.1 RPI	Table 2.1 ICC	Table 3.1 RPI	Table 3.1 ICC	@ 3.1-3.7 1/14/2022	@ 3.8-4.4 1/14/2022	Duplication of BH 2-6	@ 4.6-5.2 1/13/2022	@ 1.5-2.1 1/13/2022	@ 4.6-5.2 1/13/2022	@ 6.1-6.7 1/13/2022	@ 3.8-4.4 1/21/2022			
VOCs															
1,1,1,2-Tetrachloroethane	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	ug/g	0.05	0.05	0.11	0.12	0.11	0.4	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2-Trichloroethane	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	0.05	0.05	0.05	0.05	0.14	0.57	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethene	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	0.05	0.05	3.4	6.8	3.4	6.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloroethane	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichloropropane	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	0.05	0.05	0.26	0.26	4.8	6.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene, cis + trans	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	0.05	0.5	0.5	0.5	1.8	1.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.05	<0.05	<0.50
Bromodichloromethane	ug/g	0.05	0.05	0.05	0.05	5.8	5.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	0.05	0.05	0.05	0.05	2.5	2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromomethane	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chloroform	ug/g	0.05	0.05	0.050	0.05	0.08	0.26	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
cis-1,2-Dichloroethene	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	0.05	0.05	0.05	0.05	5.5	5.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorodifluoromethane	ug/g	0.05	0.05	1.5	1.5	1.8	1.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethylene, trans-1,2-	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloromethane	ug/g	0.05	0.05	0.1	0.05	0.06	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hexane	ug/g	0.05	0.05	2.5	2.5	2.5	2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl ethyl ketone (MEK)	ug/g	0.5	0.5	0.5	0.5	14	26	0.81	0.72	1.2	1.1	0.87	1.1	1.3	<0.50
Methyl isobutyl ketone (MIBK)	ug/g	0.5	0.5	0.5	0.5	0.89	17	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl tert-butyl ether (MTBE)	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Monochlorobenzene	ug/g	0.05	0.05	0.083	0.083	0.28	0.28	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	0.05	0.05	0.05	0.05	0.5	6.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethylene	ug/g	0.05	0.05	0.05	0.05	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethylene	ug/g	0.01	0.05	0.05	0.05	0.05	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Trichlorofluoromethane	ug/g	0.05	0.51	0.25	0.25	0.46	0.46	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.02	0.02	0.02	0.02	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Notes	
RDL	Reportable Detection Limit
NV	No Criteria/RDL Value
NA	Not Applicable
<'	Values is less than the RDL
Table 1 SCS RPI/ICC	Table 1, Full Depth Background Site Condition Standards (SCS) , Residential/Parkland/Insititutional/Industrial/Commercial/Community (RPI/ICC) Property Use, Soil (other than sediment) Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 2.1 SCS RPI	Table 2.1, Full Depth Generic Site Condition Standards (SCS) in a Potable Groundwater Condition, Residential/Parkland/Insititutional (RPI) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 2.1 SCS ICC	Table 2.1, Full Depth Generic Site Condition Standards (SCS) in a Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 3.1 SCS RPI	Table 3.1, Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition, Residential/Parkland/Insititutional (RPI) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 3.1 SCS RPI	Table 3.1, Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Yellow Highlight	Exceeds Table 1 SCS RPI/ICC
Bold	Exceeds Table 2.1 SCS RPI and Table 2.1 SCS ICC
Underlined	Exceeds Table 3.1 SCS RPI
bordered	Exceeds Table 3.1 SCS ICC

**Table 205**  
**Soil Analytical Results**  
**OCPs**

Parameters	Units	RDL	Guidelines					Sample ID Laboratory ID Sample Depth (m bgs) Sample Collection Date (m/d/y)			
			Site Condition Standards (SCS)					BH 5-1	DUP-5	BH 16-1	
								1606034	1606035	1606843	
			Table 1 RPI/ICC	Table 2.1 RPI	Table 2.1 ICC	Table 3.1 RPI	Table 3.1 ICC	@ 0.1-0.7 1/14/2022	Duplication of BH 5-1	@ 0.1-0.7 1/21/2022	
OPCs											
Aldrin	ug/g	0.006	0.05	0.05	0.088	0.05	0.088	<0.006	<0.006	<0.002	
Chlordane	ug/g	0.018	0.05	0.05	0.05	0.05	0.05	<0.018	<0.018	<0.006	
Dieldrin	ug/g	0.006	0.05	0.05	0.088	0.05	0.088	<0.006	<0.006	<0.002	
Endosulfan I + Endosulfan II	ug/g	0.006	0.04	0.04	0.04	0.04	0.04	<0.012	<0.012	<0.004	
Endrin	ug/g	0.006	0.04	0.04	0.04	0.04	0.04	<0.006	<0.006	<0.002	
gamma-BHC	ug/g	0.006	NV	0.01	0.01	0.01	0.01	<0.006	<0.006	<0.002	
Heptachlor	ug/g	0.006	0.05	0.072	0.072	0.072	0.072	<0.006	<0.006	<0.002	
Heptachlor epoxide	ug/g	0.006	0.05	0.05	0.05	0.05	0.05	<0.006	<0.006	<0.002	
Hexachlorobenzene	ug/g	0.006	0.01	0.034	0.034	0.52	0.66	<0.006	<0.006	<0.002	
Hexachlorobutadiene	ug/g	0.006	0.01	0.01	0.01	0.01	0.01	<0.006	<0.006	<0.002	
Hexachloroethane	ug/g	0.006	0.01	0.01	0.01	0.01	0.13	<0.006	<0.006	<0.002	
Methoxychlor	ug/g	0.006	0.05	0.13	0.19	0.13	0.19	<0.006	<0.006	<0.002	
p,p'-DDD	ug/g	0.006	0.05	3.3	4.6	3.3	4.6	<0.006	<0.006	<0.002	
p,p'-DDE	ug/g	0.006	0.05	0.26	0.52	0.26	0.52	<0.006	<0.006	<0.002	
p,p'-DDT	ug/g	0.006	1.4	1.4	1.4	1.4	1.4	<0.006	<0.006	<0.002	

**Notes**

RDL	Reportable Detection Limit
NV	No Criteria/RDL Value
NA	Not Applicable
<	Values is less than the RDL
Table 1 SCS RPIICC	Table 1, Full Depth Background Site Condition Standards (SCS) , Residential/Parkland/Insitutional/Industrial/Commercial/Community (RPIICC) Property Use, Soil (other than sediment), Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 2.1 SCS RPI	Table 2.1, Full Depth Generic Site Condition Standards (SCS) in a Potable Groundwater Condition, Residential/Parkland/Insitutional (RPI) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 2.1 SCS ICC	Table 2.1, Full Depth Generic Site Condition Standards (SCS) in a Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 3.1 SCS RPI	Table 3.1, Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition, Residential/Parkland/Insitutional (RPI) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 3.1 SCS RPI	Table 3.1, Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Yellow Highlight	Exceeds Table 1 SCS RPIICC
<b>Bold</b>	Exceeds Table 2.1 SCS RPI and Table 3.1 SCS RPI
<u>Underlined</u>	Exceeds Table 2.1 SCS ICC and tabe 3.1 SCS ICC

**Table 206**  
**Soil Analytical Results**  
**PCBs**

Parameters	Units	RDL	Guidelines					Sample ID Laboratory ID Sample Depth (m bgs) Sample Collection Date (m/d/y)		
			Site Condition Standards (SCS)					BH 3-1	DUP-7	BH 9-2
								1606834	1606835	1606047
			Table 1 RPIICC	Table 2.1 RPI	Table 2.1 ICC	Table 3.1 RPI	Table 3.1 ICC	@ 0.1-0.7 1/21/2022	Duplication of BH 3-2	@ 0.8-1.4 1/13/2022
PCBs										
Polychlorinated Biphenyls	ug/g	0.02	0.3	0.35	0.78	0.35	0.78	<0.02	<0.02	<0.02
Aroclor 1242	ug/g	0.02	NV	NV	NV	NV	NV	<0.02	<0.02	<0.02
Aroclor 1248	ug/g	0.02	NV	NV	NV	NV	NV	<0.02	<0.02	<0.02
Aroclor 1254	ug/g	0.02	NV	NV	NV	NV	NV	<0.02	<0.02	<0.02
Aroclor 1260	ug/g	0.02	NV	NV	NV	NV	NV	<0.02	<0.02	<0.02

**Notes**

RDL	Reportable Detection Limit
NV	No Criteria/RDL Value
NA	Not Applicable
<'	Values is less than the RDL
Table 1 SCS RPIICC	Table 1, Full Depth Background Site Condition Standards (SCS) , Residential/Parkland/Insitutional/Industrial/Commercial/Community (RPIICC) Property Use, Soil (other than sediment), Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 2.1 SCS RPI	Table 2.1, Full Depth Generic Site Condition Standards (SCS) in a Potable Groundwater Condition, Residential/Parkland/Insitutional (RPI) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 2.1 SCS ICC	Table 2.1, Full Depth Generic Site Condition Standards (SCS) in a Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 3.1 SCS RPI	Table 3.1, Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition, Residential/Parkland/Insitutional (RPI) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Table 3.1 SCS RPI	Table 3.1, Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).
Yellow Highlight	Exceeds Table 1 SCS RPIICC
Bold	Exceeds Table 2.1 SCS RPI and Table 3.1 SCS RPI
Underlined	Exceeds Table 2.1 SCS ICC and table 3.1 SCS ICC

Table 207  
Soil Analytical Results  
Modified Synthetic Precipitation Leaching (mSPLP)

Parameters	Units	RDL	Guidelines					Sample ID Laboratory ID					
								Sample Collection Date (m/d/y)					
			Site Condition Standards (SCS)					SPLP					
								BH 1-1 1606110	BH 2-1 1606040	BH 2-2 1606111	BH 2-3 1606112	BH 10-1 1606113	BH 10-1 1606033
			Table 1 RPIICC	Table 2.1 RPI	Table 2.1 ICC	Table 3.1 RPI	Table 3.1 ICC	SPLP 1/14/2022	SPLP 1/21/2022	SPLP 1/13/2022	SPLP 1/13/2022	SPLP 1/13/2022	SPLP 1/21/2022
Physical Parameters													
Moisture (%)	%		NV	NV	NV	NV	NV	7.8	5.4	11.3	14.4	16.8	-
Metals and Inorganics													
Antimony	ug/L	0.5	NV	6	6	NV	NV	0.5	0.6	<0.5	<0.5	<0.5	-
Barium	ug/L	10	NV	1000	1000	4600	4600	20	<10	30	<10	60	-
Beryllium	ug/L	2	NV	4	4	11	11	<0.5	<0.5	<2	<2	0.8	-
Boron	ug/L	10	NV	5000	5000	NV	NV	40	<10	10	10	100	-
Cadmium	ug/L	0.1	NV	NV	NV	NV	NV	<0.1	<0.1			0.1	-
Chromium	ug/L	1	NV	50	50	130	130	5	1	<1	1	17	-
Cobalt	ug/L	0.2	NV	3.8	3.8	10	10	0.7	0.2	<0.2	0.4	2.2	-
Copper	ug/L	1	NV	14	14	14	14	13	2	<1	3	38	-
Molybdenum	ug/L	5	23	23	23	NV	1500	<5	<5	<5	<5	<5	-
Nickel	ug/L	5	NV	78	78	78	78	<5	<5	<5	<5	12	-
Selenium	ug/L	1	NV	10	10	10	10	2	<1	<1	<1	6	-
Silver	ug/L	0.1	0.3	0.3	0.3	0.3	0.3	<0.1	<0.1	0.1	0.2	<0.1	-
Thallium	ug/L	0.1	2	2	2	NV	80	<0.1	<0.1	<0.1	<0.1	0.1	-
Uranium	ug/L	1	NV	20	20	66	66	<1	<1	<1	<1	1	-
Zinc	ug/L	10	NV	180	180	180	180	10	<10	<10	<10	50	-
VOCs													
1,1,1,2-Tetrachloroethane	ug/L	0.5	0.5	NV	NV	NV	NV	<0.5	-	-	<0.5	-	-
1,1,2,2-Tetrachloroethane	ug/L	0.5	0.5	0.5	0.5	NV	NV	<0.5	-	-	<0.5	-	-
1,1,2-Trichloroethane	ug/L	0.4	0.5	NV	NV	NV	NV	<0.4	-	-	<0.4	-	-
1,1-Dichloroethane	ug/L	0.4	0.5	NV	NV	NV	NV	<0.4	-	-	<0.4	-	-
1,1-Dichloroethene	ug/L	0.5	0.5	0.5	0.5	0.5	0.5	<0.5	-	-	<0.5	-	-
1,2-Dichlorobenzene	ug/L	0.4	0.55	0.55	0.55	NV	NV	<0.4	-	-	<0.4	-	-
1,2-Dichloroethane	ug/L	0.2	0.5	0.5	0.5	NV	NV	<0.2	-	-	<0.2	-	-
1,2-Dichloropropane	ug/L	0.5	0.5	0.5	0.5	NV	NV	<0.5	-	-	<0.5	-	-
1,3-Dichloropropene, cis + trans	ug/L	0.3	NV	NV	NV	NV	NV	<0.3	-	-	<0.3	-	-
1,4-Dichlorobenzene	ug/L	0.4	0.5	0.5	0.5	NV	NV	<0.4	-	-	<0.4	-	-
Bromomethane	ug/L	0.5	0.5	0.5	0.5	0.5	0.5	<0.5	-	-	<0.5	-	-
Carbon Tetrachloride	ug/L	0.2	0.2	0.2	0.2	0.2	0.2	<0.2	-	-	<0.2	-	-
Chloroform	ug/L	0.5	1	NV	NV	NV	NV	<0.5	-	-	<0.5	-	-
cis-1,2-Dichloroethene	ug/L	0.4	NV	0.5	0.5	NV	NV	<0.4	-	-	<0.4	-	-
Dichloroethylene, trans-1,2-	ug/L	0.4	NV	0.5	0.5	0.5	0.5	<0.4	-	-	<0.4	-	-
Ethylene Dibromide	ug/L	0.2	0.2	0.2	0.2	0.2	0.2	<0.2	-	-	<0.2	-	-
Tetrachloroethylene	ug/L	0.3	0.5	0.5	0.5	0.5	0.5	<0.3	-	-	<0.3	-	-
Trichloroethylene	ug/L	0.3	0.5	0.5	0.5	0.5	0.5	<0.3	-	-	<0.3	-	-
Semi-VOCs													
2,4 + 2,6-Dinitrotoluene	ug/L	5	5	5	5	NV	NV	-	-	-	<5	-	-
2,4-Dinitrophenol	ug/L	2.5	10	10	10	NV	NV	-	-	-	<2.5	-	-
3,3'-Dichlorobenzidine	ug/L	0.5	0.5	0.5	0.5	NV	NV	-	-	-	<0.5	-	-
4-Chloroaniline	ug/L	0.2	NV	10	10	NV	NV	-	-	-	<0.2	-	-
Bis(2-chloroethyl)ether	ug/L	0.8	5	5	5	NV	NV	-	-	-	<0.8	-	-
Bis(2-chloroisopropyl)ether	ug/L	0.5	4	4	4	NV	NV	-	-	-	<0.5	-	-
Diethyl phthalate	ug/L	0.2	NV	2	2	2	2	-	-	-	0.2	-	-
Dimethyl phthalate	ug/L	0.2	NV	2	2	2	2	-	-	-	<0.2	-	-
OPCs													
Diiodin	ug/L	0.006	0.095	0.97	0.097	0.097	0.097	-	-	-	-	-	<0.006
Endrin	ug/L	0.005	0.061	0.062	0.062	0.062	0.062	-	-	-	-	-	<0.005
Heptachlor	ug/L	0.005	0.01	NV	NV	NV	NV	-	-	-	-	-	<0.005
Heptachlor epoxide	ug/L	0.005	0.01	0.01	0.01	0.01	0.01	-	-	-	-	-	<0.005

Notes	
RDL	Reportable Detection Limit
NV	No Criteria/RDL Value
NA	Not Applicable
<"	Values is less than the RDL
Table 1 SCS RPIICC	Table 1, Leachate Screening Levels for Excess Soil Reuse Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act. (MOE 2020).
Table 2.1 SCS RPI	Table 2.1, Leachate Screening Levels for Full Depth Excess Soil in a Potable Ground Water Condition, Residential/Parkland/Institutional (RPI) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act. (MOE 2020).
Table 2.1 SCS ICC	Table 2.1, Leachate Screening Levels for Full Depth Excess Soil in a Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act. (MOE 2020).
Table 3.1 SCS RPI	Table 3.1, Leachate Screening Levels for Full Depth Excess Soil in a Non-Potable Groundwater Condition, Residential/Parkland/Institutional (RPI) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act. (MOE 2020).
Table 3.1 SCS ICC	Table 3.1, Leachate Screening Levels for Full Depth Excess Soil in a Non-Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act. (MOE 2020).
Yellow Highlight	Exceeds Table 1 SCS RPIICC
Bold	Exceeds Table 2.1 SCS RPI and Table 2.1 SCS ICC
Underlined	Exceeds Table 3.1 SCS RPI and Table 3.1 SCS ICC

Table 208  
Soil Analytical Results  
Toxicity Characteristic Leaching Procedure (TCLP)

Parameters	Units	RDL	Guidelines							Sample ID				
										Laboratory ID				
			Site Condition Standards (SCS)							Sample Collection Date (m/d/y)				
										TCLP				
										BH 1-1	BH 3-2	BH 8-1	BH 12-1	BH 15-1
Table 1 RPIICC	Table 2.1 RPI	Table 2.1 ICC	Table 3.1 RPI	Table 3.1 ICC	Schedule 4 Leachate Quality Criteria	1606080	1606846	1606081	1606082	1606848				
TCLP 1/14/2022	TCLP 1/21/2022	TCLP 1/13/2022	TCLP 1/13/2022	TCLP 1/21/2022										

Physical Parameters														
Moisture (%)	%	0.1	NV	NV	NV	NV	NV		6.3	19.8	14.6	15	17.5	
Metals and Inorganics														
Arsenic	ug/L	20	NV	NV	NV	NV	NV	2500	<20	<20	<20	<20	<20	
Barium	ug/L	10	NV	1000	1000	4600	4600	100000	610	0.36	230	580	520	
Boron	ug/L	100	NV	5000	5000	NV	NV	500000	<100	<100	<100	<100	<100	
Cadmium	ug/L	8	NV	NV	0.5	NV	0.5	500	<8	<8	<8	<8	<8	
Chromium	ug/L	50	NV	50	50	130	130	5000	<50	<50	<50	<50	<50	
Lead	ug/L	10	NV	NV	NV	NV	NV	5000	10	<10	<10	10	<10	
Mercury	ug/L	1	NV	NV	NV	NV	NV	100	<1	<1	<1	<1	<1	
Selenium	ug/L	20	NV	10	10	10	10	1000	<20	<20	<20	<20	<20	
Silver	ug/L	10	0.3	0.3	0.3	0.3	0.3	5000	<10	<10	<10	<10	<10	
Uranium	ug/L	10	NV	20	20	66	66	10000	<10	<10	<10	<10	<10	
VOCs														
Benzene	ug/L	0.5	NV	NV	NV	NV	NV	500	<0.5	<0.5	<0.5	<0.5	<0.5	
Carbon Tetrachloride	ug/L	0.2	0.2	0.2	0.2	0.2	0.2	500	<0.2	<0.2	<0.2	<0.2	<0.2	
Chlorobenzene	ug/L	0.5	NV	NV	NV	NV	NV	8000	<0.5	<0.5	<0.5	<0.5	<0.5	
Chloroform	ug/L	0.5	1	NV	NV	NV	NV	10000	<0.5	<0.5	0.6	0.6	<0.5	
Dichlorobenzene, 1,2-	ug/L	0.4	NV	NV	NV	NV	NV	20000	<0.4	<0.4	<0.4	<0.4	<0.4	
Dichlorobenzene, 1,4-	ug/L	0.4	NV	NV	NV	NV	NV	500	<0.4	<0.4	<0.4	<0.4	<0.4	
Dichloroethane, 1,2-	ug/L	0.2	NV	NV	NV	NV	NV	500	<0.2	<0.2	<0.2	<0.2	<0.2	
Dichloroethylene, 1,1-	ug/L	0.5	NV	NV	NV	NV	NV	1400	<0.5	<0.5	<0.5	<0.5	<0.5	
Methyl Ethyl Ketone	ug/L	10	NV	NV	NV	NV	NV	200000	<10	<10	<10	<10	<10	
Methylene Chloride	ug/L	4	NV	NV	NV	NV	NV	5000	<4.0	<4.0	<4.0	<4.0	<4.0	
Tetrachloroethylene	ug/L	0.3	0.5	0.5	0.5	0.5	0.5	3000	<0.3	<0.3	<0.3	<0.3	<0.3	
Trichloroethylene	ug/L	0.3	0.5	0.5	0.5	0.5	0.5	5000	<0.3	<0.3	<0.3	<0.3	<0.3	
Vinyl Chloride	ug/L	0.2	NV	NV	NV	NV	NV	200	<0.2	<0.2	<0.2	<0.2	<0.2	
Benzo[a]pyrene	ug/L	0.01	NV	NV	NV	NV	NV	NV	<0.01	<0.01	<0.01	<0.01	<0.01	
Toluene-d8	%	0	NV	NV	NV	NV	NV	NV	112	110	118	130	119	
1,2-dichloroethane-d4	%	0	NV	NV	NV	NV	NV	NV	112	128	128	119	121	
4-bromofluorobenzene	%	0	NV	NV	NV	NV	NV	NV	80	72	87	93	73	
PCBs														
Polychlorinated Biphenyls	ug/L	0.1	NV	NV	NV	NV	NV		<0.1					

Notes	RDL	Reportable Detection Limit
	NV	No Criteria/RDL Value
	NA	Not Applicable
	<	Values is less than the RDL
Table 1 SCS RPIICC	Table 1, Leachate Screening Levels for Excess Soil Reuse, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Table 2.1 SCS RPI	Table 2.1, Leachate Screening Levels for Full Depth Excess Soil in a Potable Ground Water Condition, Residential/Parkland/Institutional (RPI) Property Use, Coarse Textured Soil Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Table 2.1 SCS ICC	Table 2.1, Leachate Screening Levels for Full Depth Excess Soil in a Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Table 3.1 SCS RPI	Table 3.1, Leachate Screening Levels for Full Depth Excess Soil in a Non-Potable Groundwater Condition, Residential/Parkland/Institutional (RPI) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Table 3.1 SCS RPI	Table 3.1, Leachate Screening Levels for Full Depth Excess Soil in a Non-Potable Groundwater Condition, Industrial/Commercial/Community (ICC) Property Use, Coarse Textured Soil, Ontario Ministry of the Environment "Rules For Soil Management And Excess Soil Quality Standards" made under the Environmental Protection Act (MOE 2020).	
Schedule 4	Schedule 4 Leachate Quality Criteria in O. Reg. 558/0	
Result	Exceeds Table 1 SCS RPIICC	
Result	Exceeds Table 2.1 SCS RPI	
Result	Exceeds Table 2.1 SCS ICC	
Result	Exceeds Table 3.1 SCS RPI	
Result	Exceeds Table 3.1 SCS ICC	



**Table 209**  
**Evaluation of Soil Field Duplicate Data**  
**Relative Percent Difference (RPD)**

Parameters	Units	RDL	RPD Alert Limits (%)	BH 11-1	DUP-1	RPD (%)
				1/13/2022	BH11-1 Duplicate	
Metals				Metals (Dup-1)		
Boron (Hot Water Soluble)	ug/g	0.5	40	-	-	NC
Cadmium	ug/g	0.4	40	<0.4	<0.4	NC
Chromium	ug/g	1	40	30	20	10.0
Cobalt	ug/g	1	40	6	7	3.8
Copper	ug/g	1	40	16	17	1.5
Cyanide (Free)	ug/g	0.005	40	-	-	NC
Chromium VI	ug/g	0.2	40	-	-	NC
Lead	ug/g	1	40	17	21	5.3
Mercury	ug/g	0.1	40	-	-	NC
Molybdenum	ug/g	1	40	<1	<1	NC
Nickel	ug/g	1	40	19	16	4.3
Selenium	ug/g	0.5	40	0.6	0.6	NC
Silver	ug/g	0.2	40	<0.2	<0.2	NC
Thallium	ug/g	1	40	<1	<1	NC
Uranium	ug/g	0.5	40	<0.5	<0.5	NC
Vanadium	ug/g	2	40	26	27	0.9
Zinc	ug/g	2	40	56	64	3.3

**Notes**

ug/g = micrograms per gram,

NC = not calculated

# **Appendix D**

## **Laboratory of Certificates of Analysis**



**eNGLOBE**

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
Invoice to: EnGlobe Corp.  
PO#:

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644  
Temperature (C): 16  
Custody Seal:

Page 1 of 56

**Dear Nan Du:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

### ***Sample Comment Summary***

Sample ID: 1606034	BH5-1	OCPs surrogate recovery is unavailable due to matrix interference.
Sample ID: 1606035	Dup-5	OCPs surrogate recovery is unavailable due to matrix interference.

Report Comments:

---

Addrine Thomas, Inorganics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated

Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <http://www.cala.ca/scopes/2602.pdf>

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

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M9W 5W8  
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Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### O.Reg 153-T1-All Other Soils

#### Exceedence Summary

Sample I.D.	Analyte	Result	Units	Criteria
Inorganics				
BH10-1	Electrical Conductivity	2.81	mS/cm	STD 0.57
BH10-1	Sodium Adsorption Ratio	40.0		STD 2.4
BH1-1	Electrical Conductivity	2.19	mS/cm	STD 0.57
BH1-1	Sodium Adsorption Ratio	37.8		STD 2.4
BH11-1	Electrical Conductivity	7.04	mS/cm	STD 0.57
BH11-1	Sodium Adsorption Ratio	162		STD 2.4
BH1-2	Electrical Conductivity	3.32	mS/cm	STD 0.57
BH1-2	Sodium Adsorption Ratio	17.0		STD 2.4
BH12-1	Electrical Conductivity	4.11	mS/cm	STD 0.57
BH12-1	Sodium Adsorption Ratio	58.8		STD 2.4
BH12-2	Electrical Conductivity	8.50	mS/cm	STD 0.57
BH12-2	Sodium Adsorption Ratio	126		STD 2.4
BH2-1	Electrical Conductivity	4.18	mS/cm	STD 0.57
BH2-1	Sodium Adsorption Ratio	81.8		STD 2.4
BH4-1	Electrical Conductivity	3.19	mS/cm	STD 0.57
BH4-1	Sodium Adsorption Ratio	68.4		STD 2.4
BH5-1	Electrical Conductivity	2.03	mS/cm	STD 0.57
BH5-1	Sodium Adsorption Ratio	30.1		STD 2.4
BH7-1	Electrical Conductivity	6.39	mS/cm	STD 0.57
BH7-1	Sodium Adsorption Ratio	111		STD 2.4
BH8-1	Electrical Conductivity	3.38	mS/cm	STD 0.57
BH8-1	Sodium Adsorption Ratio	12.2		STD 2.4
BH8-2	Electrical Conductivity	1.66	mS/cm	STD 0.57
BH8-2	Sodium Adsorption Ratio	6.36		STD 2.4
BH9-1	Electrical Conductivity	3.76	mS/cm	STD 0.57
BH9-1	Sodium Adsorption Ratio	79.4		STD 2.4
BH9-2	Electrical Conductivity	5.88	mS/cm	STD 0.57
BH9-2	Sodium Adsorption Ratio	147		STD 2.4
Volatiles				
BH11-7	Methyl Ethyl Ketone	1.1	ug/g	STD 0.5
BH12-8	Methyl Ethyl Ketone	1.3	ug/g	STD 0.5
BH1-5	Methyl Ethyl Ketone	0.81	ug/g	STD 0.5
BH2-6	Methyl Ethyl Ketone	0.72	ug/g	STD 0.5
BH8-7	Methyl Ethyl Ketone	1.1	ug/g	STD 0.5
BH9-3	Methyl Ethyl Ketone	0.87	ug/g	STD 0.5
Dup-4	Methyl Ethyl Ketone	1.2	ug/g	STD 0.5

Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Hydrocarbons

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606026	Soil153	1606027	Soil153	1606028	Soil153
PHC's F1	415896	10	ug/g	STD 25	2022-01-14	BH1-3	2022-01-14	BH1-5	2022-01-14	BH2-1
PHC's F1-BTEX	415903	10	ug/g		<10	<10	<10	<10	<10	<10
PHC's F2	415889	2	ug/g	STD 10	<2	<2	<2	<2	<2	<2
	416046	2	ug/g	STD 10						<2
PHC's F2-Naph	416051	2	ug/g							<2
PHC's F3	415889	20	ug/g	STD 240	<20	<20	<20	<20	<20	<20
	416046	20	ug/g	STD 240						20
PHC's F3-PAH	416052	20	ug/g							20
PHC's F4	415889	20	ug/g	STD 120	<20	<20	<20	<20	<20	<20
	416046	20	ug/g	STD 120						<20

#### Hydrocarbons

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606029	Soil153	1606030	Soil153	1606032	Soil153
PHC's F1	415896	10	ug/g	STD 25	2022-01-14	BH2-6	2022-01-14	Dup-4	2022-01-14	BH4-2
PHC's F1-BTEX	415903	10	ug/g		<10	<10	<10	<10	<10	<10
PHC's F2	415889	2	ug/g	STD 10	<2	<2	<2	<2	<2	<2
PHC's F3	415889	20	ug/g	STD 240	<20	<20	<20	<20	<20	<20
PHC's F4	415889	20	ug/g	STD 120	<20	<20	<20	<20	<20	<20

Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Hydrocarbons

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	1606036
					Sample Matrix	Soil153
					Sample Type	1606037
					Sample Date	Soil153
					Sampling Time	2022-01-14
					Sample I.D.	2022-01-14
						BH5-3
						BH5-9
PHC's F1	415896	10	ug/g	STD 25		<10
PHC's F1-BTEX	415903	10	ug/g			<10
PHC's F2	415889	2	ug/g	STD 10		<2
PHC's F3	415889	20	ug/g	STD 240		<20
PHC's F4	415889	20	ug/g	STD 120		<20

#### Hydrocarbons

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	1606040	1606041	1606042
					Sample Matrix	Soil153	Soil153	Soil153
					Sample Type			
					Sample Date	2022-01-14	2022-01-14	2022-01-14
					Sampling Time			
					Sample I.D.	BH7-3	Dup-3	BH7-6
PHC's F1	415896	10	ug/g	STD 25		<10	<10	<10
PHC's F1-BTEX	415903	10	ug/g			<10	<10	<10
PHC's F2	415889	2	ug/g	STD 10		<2	<2	<2
PHC's F3	415889	20	ug/g	STD 240		<20	<20	<20
PHC's F4	415889	20	ug/g	STD 120		<20	<20	<20

Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Hydrocarbons

					Lab I.D. Sample Matrix Sample Type Sample Date Sampling Time Sample I.D.	1606045 Soil153 2022-01-13 BH8-7	1606048 Soil153 2022-01-13 BH9-3
Analyte	Batch No	MRL	Units	Guideline			
PHC's F1	415896	10	ug/g	STD 25		<10	<10
PHC's F1-BTEX	415903	10	ug/g			<10	<10
PHC's F2	415996	2	ug/g	STD 10		<2	<2
PHC's F3	415996	20	ug/g	STD 240		<20	<20
PHC's F4	415996	20	ug/g	STD 120		<20	<20

#### Hydrocarbons

					Lab I.D. Sample Matrix Sample Type Sample Date Sampling Time Sample I.D.	1606049 Soil153 2022-01-13 BH9-9	1606051 Soil153 2022-01-13 BH10-2
Analyte	Batch No	MRL	Units	Guideline			
PHC's F1	415896	10	ug/g	STD 25		<10	<10
PHC's F1-BTEX	415903	10	ug/g			<10	<10
PHC's F2	415959	2	ug/g	STD 10			<2
	416045	2	ug/g	STD 10		2	
PHC's F3	415959	20	ug/g	STD 240			<20
	416045	20	ug/g	STD 240		100	
PHC's F4	415959	20	ug/g	STD 120			<20
	416045	20	ug/g	STD 120		<20	

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MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Hydrocarbons

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606054	Soil153	1606055	Soil153	1606057	Soil153
					2022-01-13		2022-01-13		2022-01-13	2022-01-13
					BH11-2		BH11-7		BH12-2	BH12-8
PHC's F1	415896	10	ug/g	STD 25	<10		<10		<10	<10
PHC's F1-BTEX	415903	10	ug/g		<10		<10		<10	<10
PHC's F2	415959	2	ug/g	STD 10	<2		<2		<2	<2
PHC's F3	415959	20	ug/g	STD 240	30		<20		<20	<20
PHC's F4	415959	20	ug/g	STD 120	<20		<20		<20	<20

#### Metals

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606024	Soil153	1606025	Soil153	1606028	Soil153
					2022-01-14		2022-01-14		2022-01-14	
					BH1-1		BH1-2		BH2-1	
Antimony	415846	1	ug/g	STD 1.3	<1		<1			
	416113	1	ug/g	STD 1.3					<1	
Arsenic	415846	1	ug/g	STD 18	2		4			
	416113	1	ug/g	STD 18					2	
Barium	415846	1	ug/g	STD 220	46		65			
	416113	1	ug/g	STD 220					57	
Beryllium	415846	1	ug/g	STD 2.5	<1		<1			
	416113	1	ug/g	STD 2.5					<1	
Boron (Hot Water Soluble)	415918	0.5	ug/g		<0.5					
Boron (total)	415846	5	ug/g	STD 36	<5		<5			
	416113	5	ug/g	STD 36					15	
Cadmium	415846	0.4	ug/g	STD 1.2	<0.4		<0.4			
	416113	0.4	ug/g	STD 1.2					<0.4	

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MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range



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Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Metals

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606024  
Soil153  
2022-01-14  
BH1-1  
1606025  
Soil153  
2022-01-14  
BH1-2  
1606028  
Soil153  
2022-01-14  
BH2-1

Analyte	Batch No	MRL	Units	Guideline			
Chromium Total	415846	1	ug/g	STD 70	20	28	
	416113	1	ug/g	STD 70			12
Chromium VI	415899	0.20	ug/g	STD 0.66	<0.20		
Cobalt	415846	1	ug/g	STD 21	5	8	
	416113	1	ug/g	STD 21			2
Copper	415846	1	ug/g	STD 92	16	20	
	416113	1	ug/g	STD 92			5
Lead	415846	1	ug/g	STD 120	14	12	
	416113	1	ug/g	STD 120			8
Mercury	415846	0.1	ug/g	STD 0.27	<0.1		
Molybdenum	415846	1	ug/g	STD 2	<1	<1	
	416113	1	ug/g	STD 2			<1
Nickel	415846	1	ug/g	STD 82	14	23	
	416113	1	ug/g	STD 82			5
Selenium	415895	0.5	ug/g	STD 1.5	<0.5	0.7	
	416113	0.5	ug/g	STD 1.5			<0.5
Silver	415846	0.2	ug/g	STD 0.5	<0.2	<0.2	
	416113	0.2	ug/g	STD 0.5			<0.2
Thallium	415846	1	ug/g	STD 1	<1	<1	
	416113	1	ug/g	STD 1			<1
Uranium	415846	0.5	ug/g	STD 2.5	<0.5	<0.5	
	416113	0.5	ug/g	STD 2.5			<0.5
Vanadium	415846	2	ug/g	STD 86	20	31	

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Metals

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606024  
Soil153  
2022-01-14  
BH1-1

1606025  
Soil153  
2022-01-14  
BH1-2

1606028  
Soil153  
2022-01-14  
BH2-1

Analyte Batch No MRL Units Guideline

Vanadium	416113	2	ug/g	STD 86
Zinc	415846	2	ug/g	STD 290
	416113	2	ug/g	STD 290

#### Metals

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606031  
Soil153  
2022-01-14  
BH4-1

Analyte Batch No MRL Units Guideline

Antimony	415846	1	ug/g	STD 1.3	<1
Arsenic	415846	1	ug/g	STD 18	2
Barium	415846	1	ug/g	STD 220	29
Beryllium	415846	1	ug/g	STD 2.5	<1
Boron (total)	415846	5	ug/g	STD 36	<5
Cadmium	415846	0.4	ug/g	STD 1.2	<0.4
Chromium Total	415846	1	ug/g	STD 70	18
Cobalt	415846	1	ug/g	STD 21	4
Copper	415846	1	ug/g	STD 92	14
Lead	415846	1	ug/g	STD 120	15
Molybdenum	415846	1	ug/g	STD 2	<1
Nickel	415846	1	ug/g	STD 82	12
Selenium	415895	0.5	ug/g	STD 1.5	<0.5
Silver	415846	0.2	ug/g	STD 0.5	<0.2
Thallium	415846	1	ug/g	STD 1	<1
Uranium	415846	0.5	ug/g	STD 2.5	<0.5

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COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Metals

Lab I.D. 1606031  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-14  
Sampling Time  
Sample I.D. BH4-1

Analyte Batch No MRL Units Guideline

Vanadium	415846	2	ug/g	STD 86	20
Zinc	415846	2	ug/g	STD 290	44

#### Metals

Lab I.D. 1606034  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-14  
Sampling Time  
Sample I.D. BH5-1

Analyte Batch No MRL Units Guideline

Antimony	415846	1	ug/g	STD 1.3	<1	<1
Arsenic	415846	1	ug/g	STD 18	3	3
Barium	415846	1	ug/g	STD 220	51	63
Beryllium	415846	1	ug/g	STD 2.5	<1	<1
Boron (total)	415846	5	ug/g	STD 36	<5	5
Cadmium	415846	0.4	ug/g	STD 1.2	<0.4	<0.4
Chromium Total	415846	1	ug/g	STD 70	20	20
Cobalt	415846	1	ug/g	STD 21	6	7
Copper	415846	1	ug/g	STD 92	16	18
Lead	415846	1	ug/g	STD 120	14	11
Molybdenum	415846	1	ug/g	STD 2	<1	<1
Nickel	415846	1	ug/g	STD 82	15	17
Selenium	415895	0.5	ug/g	STD 1.5	0.6	<0.5
Silver	415846	0.2	ug/g	STD 0.5	<0.2	<0.2
Thallium	415846	1	ug/g	STD 1	<1	<1
Uranium	415846	0.5	ug/g	STD 2.5	<0.5	<0.5
Vanadium	415846	2	ug/g	STD 86	24	28

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Metals

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606034  
Soil153  
2022-01-14  
BH5-1

1606038  
Soil153  
2022-01-14  
BH7-1

Analyte Batch No MRL Units Guideline

Zinc 415846 2 ug/g STD 290

52 48

#### Metals

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606043  
Soil153  
2022-01-13  
BH8-1

Analyte Batch No MRL Units Guideline

Antimony 415846 1 ug/g STD 1.3

<1

Arsenic 415846 1 ug/g STD 18

3

Barium 415846 1 ug/g STD 220

39

Beryllium 415846 1 ug/g STD 2.5

<1

Boron (total) 415846 5 ug/g STD 36

5

Cadmium 415846 0.4 ug/g STD 1.2

<0.4

Chromium Total 415846 1 ug/g STD 70

16

Cobalt 415846 1 ug/g STD 21

7

Copper 415846 1 ug/g STD 92

16

Lead 415846 1 ug/g STD 120

9

Molybdenum 415846 1 ug/g STD 2

<1

Nickel 415846 1 ug/g STD 82

16

Selenium 415895 0.5 ug/g STD 1.5

0.6

Silver 415846 0.2 ug/g STD 0.5

<0.2

Thallium 415846 1 ug/g STD 1

<1

Uranium 415846 0.5 ug/g STD 2.5

<0.5

Vanadium 415846 2 ug/g STD 86

24

Zinc 415846 2 ug/g STD 290

47

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Metals

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606044 Soil153	1606046 Soil153	1606047 Soil153
2022-01-13	2022-01-13	2022-01-13
BH8-2	BH9-1	BH9-2

Analyte	Batch No	MRL	Units	Guideline
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Antimony	415846	1	ug/g	STD 1.3	<1	<1	<1
Arsenic	415846	1	ug/g	STD 18	2	2	3
Barium	415846	1	ug/g	STD 220	20	21	38
Beryllium	415846	1	ug/g	STD 2.5	<1	<1	<1
Boron (Hot Water Soluble)	415918	0.5	ug/g		<0.5	<0.5	
Boron (total)	415846	5	ug/g	STD 36	<5	<5	<5
Cadmium	415846	0.4	ug/g	STD 1.2	<0.4	<0.4	<0.4
Chromium Total	415846	1	ug/g	STD 70	11	10	14
Chromium VI	415899	0.20	ug/g	STD 0.66	<0.20	<0.20	
Cobalt	415846	1	ug/g	STD 21	4	3	6
Copper	415846	1	ug/g	STD 92	11	12	15
Lead	415846	1	ug/g	STD 120	4	115	6
Mercury	415846	0.1	ug/g	STD 0.27	<0.1	<0.1	
Molybdenum	415846	1	ug/g	STD 2	<1	<1	<1
Nickel	415846	1	ug/g	STD 82	9	8	14
Selenium	415895	0.5	ug/g	STD 1.5	0.6	<0.5	0.6
Silver	415846	0.2	ug/g	STD 0.5	<0.2	<0.2	<0.2
Thallium	415846	1	ug/g	STD 1	<1	<1	<1
Uranium	415846	0.5	ug/g	STD 2.5	<0.5	<0.5	<0.5
Vanadium	415846	2	ug/g	STD 86	18	14	21
Zinc	415846	2	ug/g	STD 290	21	56	31

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Metals

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606050	Soil153	1606052	Soil153	1606053	Soil153
					2022-01-13		2022-01-13		2022-01-13	
					BH10-1		BH11-1		Dup-1	
Antimony	415846	1	ug/g	STD 1.3	<1	<1	<1	<1	<1	<1
Arsenic	415846	1	ug/g	STD 18	3	3	3	3	3	3
Barium	415846	1	ug/g	STD 220	63	53	75	63	53	75
Beryllium	415846	1	ug/g	STD 2.5	<1	<1	<1	<1	<1	<1
Boron (total)	415846	5	ug/g	STD 36	<5	<5	<5	<5	<5	<5
Cadmium	415846	0.4	ug/g	STD 1.2	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Chromium Total	415846	1	ug/g	STD 70	21	30	20	21	30	20
Cobalt	415846	1	ug/g	STD 21	7	6	7	7	6	7
Copper	415846	1	ug/g	STD 92	17	16	17	17	16	17
Lead	415846	1	ug/g	STD 120	13	17	21	13	17	21
Molybdenum	415846	1	ug/g	STD 2	<1	<1	<1	<1	<1	<1
Nickel	415846	1	ug/g	STD 82	16	19	16	16	19	16
Selenium	415895	0.5	ug/g	STD 1.5	0.7	0.6	0.6	0.7	0.6	0.6
Silver	415846	0.2	ug/g	STD 0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Thallium	415846	1	ug/g	STD 1	<1	<1	<1	<1	<1	<1
Uranium	415846	0.5	ug/g	STD 2.5	0.6	<0.5	<0.5	0.6	<0.5	<0.5
Vanadium	415846	2	ug/g	STD 86	27	26	27	27	26	27
Zinc	415846	2	ug/g	STD 290	58	56	64	58	56	64

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Metals

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606056  
Soil153  
2022-01-13  
BH12-1

1606057  
Soil153  
2022-01-13  
BH12-2

Analyte	Batch No	MRL	Units	Guideline		
Antimony	415846	1	ug/g	STD 1.3	<1	<1
Arsenic	415846	1	ug/g	STD 18	4	4
Barium	415846	1	ug/g	STD 220	84	65
Beryllium	415846	1	ug/g	STD 2.5	<1	<1
Boron (Hot Water Soluble)	415918	0.5	ug/g		<0.5	
Boron (total)	415846	5	ug/g	STD 36	<5	<5
Cadmium	415846	0.4	ug/g	STD 1.2	<0.4	<0.4
Chromium Total	415846	1	ug/g	STD 70	27	22
Chromium VI	415899	0.20	ug/g	STD 0.66	<0.20	
Cobalt	415846	1	ug/g	STD 21	8	9
Copper	415846	1	ug/g	STD 92	21	21
Lead	415846	1	ug/g	STD 120	46	10
Mercury	415846	0.1	ug/g	STD 0.27	<0.1	
Molybdenum	415846	1	ug/g	STD 2	<1	<1
Nickel	415846	1	ug/g	STD 82	20	21
Selenium	415895	0.5	ug/g	STD 1.5	0.9	0.9
Silver	415846	0.2	ug/g	STD 0.5	<0.2	<0.2
Thallium	415846	1	ug/g	STD 1	<1	<1
Uranium	415846	0.5	ug/g	STD 2.5	<0.5	<0.5
Vanadium	415846	2	ug/g	STD 86	33	29
Zinc	415846	2	ug/g	STD 290	63	47

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### OCP/PCB

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606034  
Soil153  
  
2022-01-14  
  
BH5-1

1606035  
Soil153  
  
2022-01-14  
  
Dup-5

**Analyte**      **Batch No**      **MRL**      **Units**      **Guideline**

Aldrin	415986	0.006	ug/g	STD 0.05	<0.006	<0.006
Chlordane	415987	0.018	ug/g	STD 0.05	<0.018	<0.018
Chlordane, alpha-	415986	0.006	ug/g		<0.006	<0.006
Chlordane, gamma-	415986	0.006	ug/g		<0.006	<0.006
DDD	415986	0.006	ug/g	STD 0.05	<0.006	<0.006
DDE	415986	0.006	ug/g	STD 0.05	<0.006	<0.006
DDT	415986	0.006	ug/g	STD 1.4	<0.006	<0.006
Dieldrin	415986	0.006	ug/g	STD 0.05	<0.006	<0.006
Endosulfan	415987	0.012	ug/g	STD 0.04	<0.012	<0.012
Endosulfan I	415986	0.006	ug/g		<0.006	<0.006
Endosulfan II	415986	0.006	ug/g		<0.006	<0.006
Endrin	415986	0.006	ug/g	STD 0.04	<0.006	<0.006
Heptachlor	415986	0.006	ug/g	STD 0.05	<0.006	<0.006
Heptachlor Epoxide	415986	0.006	ug/g	STD 0.05	<0.006	<0.006
Hexachlorobenzene	415987	0.006	ug/g	STD 0.01	<0.006	<0.006
Hexachlorobutadiene	415987	0.006	ug/g	STD 0.01	<0.006	<0.006
Hexachlorocyclohexane Gamma-	415986	0.006	ug/g	STD 0.01	<0.006	<0.006
Hexachloroethane	415987	0.006	ug/g	STD 0.01	<0.006	<0.006
Methoxychlor	415986	0.006	ug/g	STD 0.05	<0.006	<0.006

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Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range



Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### PAH

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606024  
Soil153  
2022-01-14  
BH1-1

1606028  
Soil153  
2022-01-14  
BH2-1

Analyte	Batch No	MRL	Units	Guideline		
1+2-methylnaphthalene	415964	0.05	ug/g		<0.05	<0.05
Acenaphthene	415963	0.05	ug/g	STD 0.072	<0.05	<0.05
Acenaphthylene	415963	0.05	ug/g	STD 0.093	<0.05	<0.05
Anthracene	415963	0.05	ug/g	STD 0.16	<0.05	<0.05
Benz[a]anthracene	415963	0.05	ug/g	STD 0.36	<0.05	<0.05
Benzo[a]pyrene	415963	0.05	ug/g	STD 0.3	<0.05	<0.05
Benzo[b]fluoranthene	415963	0.05	ug/g	STD 0.47	<0.05	<0.05
Benzo[ghi]perylene	415963	0.05	ug/g	STD 0.68	<0.05	<0.05
Benzo[k]fluoranthene	415963	0.05	ug/g	STD 0.48	<0.05	<0.05
Chrysene	415963	0.05	ug/g	STD 2.8	<0.05	<0.05
Dibenz[a h]anthracene	415963	0.05	ug/g	STD 0.1	<0.05	<0.05
Fluoranthene	415963	0.05	ug/g	STD 0.56	<0.05	<0.05
Fluorene	415963	0.05	ug/g	STD 0.12	<0.05	<0.05
Indeno[1 2 3-cd]pyrene	415963	0.05	ug/g	STD 0.23	<0.05	<0.05
Methylnaphthalene, 1-	415963	0.05	ug/g	STD 0.59	<0.05	<0.05
Methylnaphthalene, 2-	415963	0.05	ug/g	STD 0.59	<0.05	<0.05
Naphthalene	415963	0.013	ug/g	STD 0.09	<0.013	<0.013
Phenanthrene	415963	0.05	ug/g	STD 0.69	<0.05	0.05
Pyrene	415963	0.05	ug/g	STD 1	<0.05	<0.05

Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### PAH

Lab I.D. 1606031  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-14  
Sampling Time  
Sample I.D. BH4-1

Analyte	Batch No	MRL	Units	Guideline	
1+2-methylnaphthalene	415964	0.05	ug/g		<0.05
Acenaphthene	415963	0.05	ug/g	STD 0.072	<0.05
Acenaphthylene	415963	0.05	ug/g	STD 0.093	<0.05
Anthracene	415963	0.05	ug/g	STD 0.16	<0.05
Benz[a]anthracene	415963	0.05	ug/g	STD 0.36	<0.05
Benzo[a]pyrene	415963	0.05	ug/g	STD 0.3	<0.05
Benzo[b]fluoranthene	415963	0.05	ug/g	STD 0.47	<0.05
Benzo[ghi]perylene	415963	0.05	ug/g	STD 0.68	<0.05
Benzo[k]fluoranthene	415963	0.05	ug/g	STD 0.48	<0.05
Chrysene	415963	0.05	ug/g	STD 2.8	<0.05
Dibenz[a h]anthracene	415963	0.05	ug/g	STD 0.1	<0.05
Fluoranthene	415963	0.05	ug/g	STD 0.56	<0.05
Fluorene	415963	0.05	ug/g	STD 0.12	<0.05
Indeno[1 2 3-cd]pyrene	415963	0.05	ug/g	STD 0.23	<0.05
Methylnaphthalene, 1-	415963	0.05	ug/g	STD 0.59	<0.05
Methylnaphthalene, 2-	415963	0.05	ug/g	STD 0.59	<0.05
Naphthalene	415963	0.013	ug/g	STD 0.09	<0.013
Phenanthrene	415963	0.05	ug/g	STD 0.69	<0.05
Pyrene	415963	0.05	ug/g	STD 1	<0.05

Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### PAH

Lab I.D. 1606038  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-14  
Sampling Time  
Sample I.D. BH7-1

Analyte	Batch No	MRL	Units	Guideline	
1+2-methylnaphthalene	415964	0.05	ug/g		<0.05
Acenaphthene	415963	0.05	ug/g	STD 0.072	<0.05
Acenaphthylene	415963	0.05	ug/g	STD 0.093	<0.05
Anthracene	415963	0.05	ug/g	STD 0.16	<0.05
Benz[a]anthracene	415963	0.05	ug/g	STD 0.36	<0.05
Benzo[a]pyrene	415963	0.05	ug/g	STD 0.3	<0.05
Benzo[b]fluoranthene	415963	0.05	ug/g	STD 0.47	<0.05
Benzo[ghi]perylene	415963	0.05	ug/g	STD 0.68	<0.05
Benzo[k]fluoranthene	415963	0.05	ug/g	STD 0.48	<0.05
Chrysene	415963	0.05	ug/g	STD 2.8	<0.05
Dibenz[a h]anthracene	415963	0.05	ug/g	STD 0.1	<0.05
Fluoranthene	415963	0.05	ug/g	STD 0.56	<0.05
Fluorene	415963	0.05	ug/g	STD 0.12	<0.05
Indeno[1 2 3-cd]pyrene	415963	0.05	ug/g	STD 0.23	<0.05
Methylnaphthalene, 1-	415963	0.05	ug/g	STD 0.59	<0.05
Methylnaphthalene, 2-	415963	0.05	ug/g	STD 0.59	<0.05
Naphthalene	415963	0.013	ug/g	STD 0.09	<0.013
Phenanthrene	415963	0.05	ug/g	STD 0.69	<0.05
Pyrene	415963	0.05	ug/g	STD 1	<0.05

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Methods references and/or additional QA/QC information available on request.

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Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
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Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### PAH

Lab I.D. 1606039  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-14  
Sampling Time  
Sample I.D. Dup-2

Analyte	Batch No	MRL	Units	Guideline	
1+2-methylnaphthalene	415964	0.05	ug/g		<0.05
Acenaphthene	415963	0.05	ug/g	STD 0.072	<0.05
Acenaphthylene	415963	0.05	ug/g	STD 0.093	<0.05
Anthracene	415963	0.05	ug/g	STD 0.16	<0.05
Benz[a]anthracene	415963	0.05	ug/g	STD 0.36	<0.05
Benzo[a]pyrene	415963	0.05	ug/g	STD 0.3	<0.05
Benzo[b]fluoranthene	415963	0.05	ug/g	STD 0.47	<0.05
Benzo[ghi]perylene	415963	0.05	ug/g	STD 0.68	<0.05
Benzo[k]fluoranthene	415963	0.05	ug/g	STD 0.48	<0.05
Chrysene	415963	0.05	ug/g	STD 2.8	<0.05
Dibenz[a h]anthracene	415963	0.05	ug/g	STD 0.1	<0.05
Fluoranthene	415963	0.05	ug/g	STD 0.56	<0.05
Fluorene	415963	0.05	ug/g	STD 0.12	<0.05
Indeno[1 2 3-cd]pyrene	415963	0.05	ug/g	STD 0.23	<0.05
Methylnaphthalene, 1-	415963	0.05	ug/g	STD 0.59	<0.05
Methylnaphthalene, 2-	415963	0.05	ug/g	STD 0.59	<0.05
Naphthalene	415963	0.013	ug/g	STD 0.09	<0.013
Phenanthrene	415963	0.05	ug/g	STD 0.69	<0.05
Pyrene	415963	0.05	ug/g	STD 1	<0.05

Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### PAH

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606044  
Soil153  
2022-01-13  
BH8-2

1606047  
Soil153  
2022-01-13  
BH9-2

Analyte	Batch No	MRL	Units	Guideline		
1+2-methylnaphthalene	415964	0.05	ug/g		<0.05	<0.05
Acenaphthene	415963	0.05	ug/g	STD 0.072	<0.05	<0.05
Acenaphthylene	415963	0.05	ug/g	STD 0.093	<0.05	<0.05
Anthracene	415963	0.05	ug/g	STD 0.16	<0.05	<0.05
Benz[a]anthracene	415963	0.05	ug/g	STD 0.36	<0.05	<0.05
Benzo[a]pyrene	415963	0.05	ug/g	STD 0.3	<0.05	<0.05
Benzo[b]fluoranthene	415963	0.05	ug/g	STD 0.47	<0.05	<0.05
Benzo[ghi]perylene	415963	0.05	ug/g	STD 0.68	<0.05	<0.05
Benzo[k]fluoranthene	415963	0.05	ug/g	STD 0.48	<0.05	<0.05
Chrysene	415963	0.05	ug/g	STD 2.8	<0.05	<0.05
Dibenz[a h]anthracene	415963	0.05	ug/g	STD 0.1	<0.05	<0.05
Fluoranthene	415963	0.05	ug/g	STD 0.56	<0.05	<0.05
Fluorene	415963	0.05	ug/g	STD 0.12	<0.05	<0.05
Indeno[1 2 3-cd]pyrene	415963	0.05	ug/g	STD 0.23	<0.05	<0.05
Methylnaphthalene, 1-	415963	0.05	ug/g	STD 0.59	<0.05	<0.05
Methylnaphthalene, 2-	415963	0.05	ug/g	STD 0.59	<0.05	<0.05
Naphthalene	415963	0.013	ug/g	STD 0.09	<0.013	<0.013
Phenanthrene	415963	0.05	ug/g	STD 0.69	<0.05	<0.05
Pyrene	415963	0.05	ug/g	STD 1	<0.05	<0.05

Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### PAH

Lab I.D. 1606056  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-13  
Sampling Time  
Sample I.D. BH12-1

Analyte	Batch No	MRL	Units	Guideline	
1+2-methylnaphthalene	415964	0.05	ug/g		<0.05
Acenaphthene	415963	0.05	ug/g	STD 0.072	<0.05
Acenaphthylene	415963	0.05	ug/g	STD 0.093	<0.05
Anthracene	415963	0.05	ug/g	STD 0.16	<0.05
Benz[a]anthracene	415963	0.05	ug/g	STD 0.36	<0.05
Benzo[a]pyrene	415963	0.05	ug/g	STD 0.3	<0.05
Benzo[b]fluoranthene	415963	0.05	ug/g	STD 0.47	<0.05
Benzo[ghi]perylene	415963	0.05	ug/g	STD 0.68	<0.05
Benzo[k]fluoranthene	415963	0.05	ug/g	STD 0.48	<0.05
Chrysene	415963	0.05	ug/g	STD 2.8	<0.05
Dibenz[a h]anthracene	415963	0.05	ug/g	STD 0.1	<0.05
Fluoranthene	415963	0.05	ug/g	STD 0.56	<0.05
Fluorene	415963	0.05	ug/g	STD 0.12	<0.05
Indeno[1 2 3-cd]pyrene	415963	0.05	ug/g	STD 0.23	<0.05
Methylnaphthalene, 1-	415963	0.05	ug/g	STD 0.59	<0.05
Methylnaphthalene, 2-	415963	0.05	ug/g	STD 0.59	<0.05
Naphthalene	415963	0.013	ug/g	STD 0.09	<0.013
Phenanthrene	415963	0.05	ug/g	STD 0.69	<0.05
Pyrene	415963	0.05	ug/g	STD 1	<0.05

Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

## Environment Testing

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Volatiles

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606026 Soil153	1606027 Soil153	1606028 Soil153
2022-01-14	2022-01-14	2022-01-14
BH1-3	BH1-5	BH2-1

Analyte	Batch No	MRL	Units	Guideline
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Acetone	415831	0.50	ug/g	STD 0.5		<0.50	
Benzene	415831	0.0068	ug/g	STD 0.02	<0.0068	<0.0068	<0.0068
Bromodichloromethane	415831	0.05	ug/g	STD 0.05		<0.05	
Bromoform	415831	0.05	ug/g	STD 0.05		<0.05	
Bromomethane	415831	0.05	ug/g	STD 0.05		<0.05	
Carbon Tetrachloride	415831	0.05	ug/g	STD 0.05		<0.05	
Chlorobenzene	415831	0.05	ug/g	STD 0.05		<0.05	
Chloroform	415831	0.05	ug/g	STD 0.05		<0.05	
Dibromochloromethane	415831	0.05	ug/g	STD 0.05		<0.05	
Dichlorobenzene, 1,2-	415831	0.05	ug/g	STD 0.05		<0.05	
Dichlorobenzene, 1,3-	415831	0.05	ug/g	STD 0.05		<0.05	
Dichlorobenzene, 1,4-	415831	0.05	ug/g	STD 0.05		<0.05	
Dichlorodifluoromethane	415831	0.05	ug/g	STD 0.05		<0.05	
Dichloroethane, 1,1-	415831	0.05	ug/g	STD 0.05		<0.05	
Dichloroethane, 1,2-	415831	0.05	ug/g	STD 0.05		<0.05	
Dichloroethylene, 1,1-	415831	0.05	ug/g	STD 0.05		<0.05	
Dichloroethylene, 1,2-cis-	415831	0.05	ug/g	STD 0.05		<0.05	
Dichloroethylene, 1,2-trans-	415831	0.05	ug/g	STD 0.05		<0.05	
Dichloropropane, 1,2-	415831	0.05	ug/g	STD 0.05		<0.05	
Dichloropropene,1,3-	415831	0.05	ug/g	STD 0.05		<0.05	
Dichloropropene,1,3-cis-	415831	0.05	ug/g			<0.05	
Dichloropropene,1,3-trans-	415831	0.05	ug/g			<0.05	
Ethylbenzene	415831	0.018	ug/g	STD 0.05	<0.018	<0.018	<0.018

Results relate only to the parameters tested on the samples submitted.  
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Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
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Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Volatiles

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606026 Soil153	1606027 Soil153	1606028 Soil153
2022-01-14	2022-01-14	2022-01-14
BH1-3	BH1-5	BH2-1

Analyte	Batch No	MRL	Units	Guideline
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Ethylene dibromide	415831	0.05	ug/g	STD 0.05		<0.05	
Hexane (n)	415831	0.05	ug/g	STD 0.05		<0.05	
Methyl Ethyl Ketone	415831	0.50	ug/g	STD 0.5		0.81*	
Methyl Isobutyl Ketone	415831	0.50	ug/g	STD 0.5		<0.50	
Methyl tert-Butyl Ether (MTBE)	415831	0.05	ug/g	STD 0.05		<0.05	
Methylene Chloride	415831	0.05	ug/g	STD 0.05		<0.05	
Styrene	415831	0.05	ug/g	STD 0.05		<0.05	
Tetrachloroethane, 1,1,1,2-	415831	0.05	ug/g	STD 0.05		<0.05	
Tetrachloroethane, 1,1,2,2-	415831	0.05	ug/g	STD 0.05		<0.05	
Tetrachloroethylene	415831	0.05	ug/g	STD 0.05		<0.05	
Toluene	415831	0.08	ug/g	STD 0.2	<0.08	<0.08	<0.08
Trichloroethane, 1,1,1-	415831	0.05	ug/g	STD 0.05		<0.05	
Trichloroethane, 1,1,2-	415831	0.05	ug/g	STD 0.05		<0.05	
Trichloroethylene	415831	0.01	ug/g	STD 0.05		<0.01	
Trichlorofluoromethane	415831	0.05	ug/g	STD 0.25		<0.05	
Vinyl Chloride	415831	0.02	ug/g	STD 0.02		<0.02	
Xylene Mixture	415902	0.05	ug/g	STD 0.05	<0.05	<0.05	<0.05
Xylene, m/p-	415831	0.05	ug/g		<0.05	<0.05	<0.05
Xylene, o-	415831	0.05	ug/g		<0.05	<0.05	<0.05

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MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range



Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Volatiles

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606029 Soil153	1606030 Soil153	1606032 Soil153	1606033 Soil153
2022-01-14	2022-01-14	2022-01-14	2022-01-14
BH2-6	Dup-4	BH4-2	BH4-9

Analyte Batch No MRL Units Guideline

Acetone	415831	0.50	ug/g	STD 0.5	<0.50	<0.50		
Benzene	415831	0.0068	ug/g	STD 0.02	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Bromoform	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Bromomethane	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Carbon Tetrachloride	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Chlorobenzene	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Chloroform	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dibromochloromethane	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dichlorobenzene, 1,2-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dichlorobenzene, 1,3-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dichlorobenzene, 1,4-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dichlorodifluoromethane	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dichloroethane, 1,1-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dichloroethane, 1,2-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dichloroethylene, 1,1-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dichloroethylene, 1,2-cis-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dichloroethylene, 1,2-trans-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dichloropropane, 1,2-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dichloropropene, 1,3-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Dichloropropene, 1,3-cis-	415831	0.05	ug/g		<0.05	<0.05		
Dichloropropene, 1,3-trans-	415831	0.05	ug/g		<0.05	<0.05		
Ethylbenzene	415831	0.018	ug/g	STD 0.05	<0.018	<0.018	<0.018	<0.018

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Volatiles

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606029 Soil153	1606030 Soil153	1606032 Soil153	1606033 Soil153
2022-01-14	2022-01-14	2022-01-14	2022-01-14
BH2-6	Dup-4	BH4-2	BH4-9

Analyte Batch No MRL Units Guideline

Ethylene dibromide	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Hexane (n)	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Methyl Ethyl Ketone	415831	0.50	ug/g	STD 0.5	0.72*	1.2*		
Methyl Isobutyl Ketone	415831	0.50	ug/g	STD 0.5	<0.50	<0.50		
Methyl tert-Butyl Ether (MTBE)	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Methylene Chloride	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Styrene	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Tetrachloroethane, 1,1,1,2-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Tetrachloroethane, 1,1,2,2-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Tetrachloroethylene	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Toluene	415831	0.08	ug/g	STD 0.2	<0.08	<0.08	<0.08	<0.08
Trichloroethane, 1,1,1-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Trichloroethane, 1,1,2-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05		
Trichloroethylene	415831	0.01	ug/g	STD 0.05	<0.01	<0.01		
Trichlorofluoromethane	415831	0.05	ug/g	STD 0.25	<0.05	<0.05		
Vinyl Chloride	415831	0.02	ug/g	STD 0.02	<0.02	<0.02		
Xylene Mixture	415902	0.05	ug/g	STD 0.05	<0.05	<0.05	<0.05	<0.05
Xylene, m/p-	415831	0.05	ug/g		<0.05	<0.05	<0.05	<0.05
Xylene, o-	415831	0.05	ug/g		<0.05	<0.05	<0.05	<0.05

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Volatiles

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	1606036
					Sample Matrix	Soil153
					Sample Type	1606037
					Sample Date	Soil153
					Sampling Time	2022-01-14
					Sample I.D.	2022-01-14
						BH5-3
						BH5-9
Benzene	415831	0.0068	ug/g	STD 0.02	<0.0068	<0.0068
Ethylbenzene	415831	0.018	ug/g	STD 0.05	<0.018	<0.018
Toluene	415831	0.08	ug/g	STD 0.2	<0.08	<0.08
Xylene Mixture	415902	0.05	ug/g	STD 0.05	<0.05	<0.05
Xylene, m/p-	415831	0.05	ug/g		<0.05	<0.05
Xylene, o-	415831	0.05	ug/g		<0.05	<0.05

#### Volatiles

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	1606040	1606041	1606042
					Sample Matrix	Soil153	Soil153	Soil153
					Sample Type	2022-01-14	2022-01-14	2022-01-14
					Sample Date	2022-01-14	2022-01-14	2022-01-14
					Sampling Time	BH7-3	Dup-3	BH7-6
					Sample I.D.			
Benzene	415831	0.0068	ug/g	STD 0.02	<0.0068	<0.0068	<0.0068	<0.0068
Ethylbenzene	415831	0.018	ug/g	STD 0.05	<0.018	<0.018	<0.018	<0.018
Toluene	415831	0.08	ug/g	STD 0.2	<0.08	<0.08	<0.08	<0.08
Xylene Mixture	415902	0.05	ug/g	STD 0.05	<0.05	<0.05	<0.05	<0.05
Xylene, m/p-	415831	0.05	ug/g		<0.05	<0.05	<0.05	<0.05
Xylene, o-	415831	0.05	ug/g		<0.05	<0.05	<0.05	<0.05

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Report Number: 1970181  
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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Volatiles

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606045  
Soil153  
  
2022-01-13  
  
BH8-7

1606048  
Soil153  
  
2022-01-13  
  
BH9-3

Analyte Batch No MRL Units Guideline

Acetone	415831	0.50	ug/g	STD 0.5	<0.50	<0.50
Benzene	415831	0.0068	ug/g	STD 0.02	<0.0068	<0.0068
Bromodichloromethane	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Bromoform	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Bromomethane	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Carbon Tetrachloride	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Chlorobenzene	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Chloroform	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dibromochloromethane	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dichlorobenzene, 1,2-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dichlorobenzene, 1,3-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dichlorobenzene, 1,4-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dichlorodifluoromethane	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dichloroethane, 1,1-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dichloroethane, 1,2-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dichloroethylene, 1,1-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dichloroethylene, 1,2-cis-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dichloroethylene, 1,2-trans-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dichloropropane, 1,2-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dichloropropene, 1,3-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Dichloropropene, 1,3-cis-	415831	0.05	ug/g		<0.05	<0.05
Dichloropropene, 1,3-trans-	415831	0.05	ug/g		<0.05	<0.05
Ethylbenzene	415831	0.018	ug/g	STD 0.05	<0.018	<0.018

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Volatiles

Lab I.D.	1606045	1606048
Sample Matrix	Soil153	Soil153
Sample Type		
Sample Date	2022-01-13	2022-01-13
Sampling Time		
Sample I.D.	BH8-7	BH9-3

Analyte	Batch No	MRL	Units	Guideline		
Ethylene dibromide	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Hexane (n)	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Methyl Ethyl Ketone	415831	0.50	ug/g	STD 0.5	1.1*	0.87*
Methyl Isobutyl Ketone	415831	0.50	ug/g	STD 0.5	<0.50	<0.50
Methyl tert-Butyl Ether (MTBE)	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Methylene Chloride	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Styrene	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Tetrachloroethane, 1,1,1,2-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Tetrachloroethane, 1,1,2,2-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Tetrachloroethylene	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Toluene	415831	0.08	ug/g	STD 0.2	<0.08	<0.08
Trichloroethane, 1,1,1-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Trichloroethane, 1,1,2-	415831	0.05	ug/g	STD 0.05	<0.05	<0.05
Trichloroethylene	415831	0.01	ug/g	STD 0.05	<0.01	<0.01
Trichlorofluoromethane	415831	0.05	ug/g	STD 0.25	<0.05	<0.05
Vinyl Chloride	415831	0.02	ug/g	STD 0.02	<0.02	<0.02
Xylene Mixture	415902	0.05	ug/g	STD 0.05	<0.05	<0.05
Xylene, m/p-	415831	0.05	ug/g		<0.05	<0.05
Xylene, o-	415831	0.05	ug/g		<0.05	<0.05

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Volatiles

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606049	Soil153		2022-01-13		BH9-9
Benzene	415831	0.0068	ug/g	STD 0.02	1606051	Soil153		2022-01-13		BH10-2
Ethylbenzene	415831	0.018	ug/g	STD 0.05						
Toluene	415831	0.08	ug/g	STD 0.2						
Xylene Mixture	415902	0.05	ug/g	STD 0.05						
Xylene, m/p-	415831	0.05	ug/g							
Xylene, o-	415831	0.05	ug/g							

#### Volatiles

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606054	Soil153		2022-01-13		BH11-2
Acetone	415831	0.50	ug/g	STD 0.5	1606055	Soil153		2022-01-13		BH11-7
Benzene	415831	0.0068	ug/g	STD 0.02	1606057	Soil153		2022-01-13		BH12-2
Bromodichloromethane	415831	0.05	ug/g	STD 0.05	1606058	Soil153		2022-01-13		BH12-8
Bromoform	415831	0.05	ug/g	STD 0.05						
Bromomethane	415831	0.05	ug/g	STD 0.05						
Carbon Tetrachloride	415831	0.05	ug/g	STD 0.05						
Chlorobenzene	415831	0.05	ug/g	STD 0.05						
Chloroform	415831	0.05	ug/g	STD 0.05						
Dibromochloromethane	415831	0.05	ug/g	STD 0.05						
Dichlorobenzene, 1,2-	415831	0.05	ug/g	STD 0.05						
Dichlorobenzene, 1,3-	415831	0.05	ug/g	STD 0.05						
Dichlorobenzene, 1,4-	415831	0.05	ug/g	STD 0.05						
Dichlorodifluoromethane	415831	0.05	ug/g	STD 0.05						

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Volatiles

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606054 Soil153	1606055 Soil153	1606057 Soil153	1606058 Soil153
2022-01-13	2022-01-13	2022-01-13	2022-01-13
BH11-2	BH11-7	BH12-2	BH12-8

Analyte	Batch No	MRL	Units	Guideline
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Dichloroethane, 1,1-	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Dichloroethane, 1,2-	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Dichloroethylene, 1,1-	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Dichloroethylene, 1,2-cis-	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Dichloroethylene, 1,2-trans-	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Dichloropropane, 1,2-	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Dichloropropene,1,3-	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Dichloropropene,1,3-cis-	415831	0.05	ug/g			<0.05		<0.05
Dichloropropene,1,3-trans-	415831	0.05	ug/g			<0.05		<0.05
Ethylbenzene	415831	0.018	ug/g	STD 0.05	<0.018	<0.018	<0.018	<0.018
Ethylene dibromide	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Hexane (n)	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Methyl Ethyl Ketone	415831	0.50	ug/g	STD 0.5		1.1*		1.3*
Methyl Isobutyl Ketone	415831	0.50	ug/g	STD 0.5		<0.50		<0.50
Methyl tert-Butyl Ether (MTBE)	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Methylene Chloride	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Styrene	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Tetrachloroethane, 1,1,1,2-	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Tetrachloroethane, 1,1,2,2-	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Tetrachloroethylene	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Toluene	415831	0.08	ug/g	STD 0.2	<0.08	<0.08	<0.08	<0.08
Trichloroethane, 1,1,1,-	415831	0.05	ug/g	STD 0.05		<0.05		<0.05
Trichloroethane, 1,1,2,-	415831	0.05	ug/g	STD 0.05		<0.05		<0.05

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1821 Albion Road, Unit 7  
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M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Volatiles

					Lab I.D. Sample Matrix Sample Type Sample Date Sampling Time Sample I.D.	1606054 Soil153	1606055 Soil153	1606057 Soil153	1606058 Soil153
						2022-01-13	2022-01-13	2022-01-13	2022-01-13
						BH11-2	BH11-7	BH12-2	BH12-8
Analyte	Batch No	MRL	Units	Guideline					
Trichloroethylene	415831	0.01	ug/g	STD 0.05			<0.01		<0.01
Trichlorofluoromethane	415831	0.05	ug/g	STD 0.25			<0.05		<0.05
Vinyl Chloride	415831	0.02	ug/g	STD 0.02			<0.02		<0.02
Xylene Mixture	415902	0.05	ug/g	STD 0.05		<0.05	<0.05	<0.05	<0.05
Xylene, m/p-	415831	0.05	ug/g			<0.05	<0.05	<0.05	<0.05
Xylene, o-	415831	0.05	ug/g			<0.05	<0.05	<0.05	<0.05

#### Inorganics

					Lab I.D. Sample Matrix Sample Type Sample Date Sampling Time Sample I.D.	1606024 Soil153	1606025 Soil153	1606028 Soil153
						2022-01-14	2022-01-14	2022-01-14
						BH1-1	BH1-2	BH2-1
Analyte	Batch No	MRL	Units	Guideline				
Cyanide (CN-)	415841	0.005	ug/g	STD 0.051		<0.005		
Electrical Conductivity	415909	0.05	mS/cm	STD 0.57		2.19*	3.32*	4.18*
pH - CaCl2	415894	2.00				7.76		
Sodium Adsorption Ratio	415914	0.01		STD 2.4		37.8*	17.0*	81.8*

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Inorganics

Lab I.D. 1606031  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-14  
Sampling Time  
Sample I.D. BH4-1

Analyte Batch No MRL Units Guideline

Electrical Conductivity	415909	0.05	mS/cm	STD 0.57	3.19*
Sodium Adsorption Ratio	415914	0.01		STD 2.4	68.4*

#### Inorganics

Lab I.D. 1606034  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-14  
Sampling Time  
Sample I.D. BH5-1

Analyte Batch No MRL Units Guideline

Electrical Conductivity	415909	0.05	mS/cm	STD 0.57		6.39*
	416102	0.05	mS/cm	STD 0.57	2.03*	
Sodium Adsorption Ratio	415914	0.01		STD 2.4		111*
	416111	0.01		STD 2.4	30.1*	

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Inorganics

Lab I.D. 1606043  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-13  
Sampling Time  
Sample I.D. BH8-1

Analyte Batch No MRL Units Guideline

Electrical Conductivity	415909	0.05	mS/cm	STD 0.57	3.38*
Sodium Adsorption Ratio	415914	0.01		STD 2.4	12.2*

#### Inorganics

Lab I.D. 1606044 1606046 1606047  
Sample Matrix Soil153 Soil153 Soil153  
Sample Type  
Sample Date 2022-01-13 2022-01-13 2022-01-13  
Sampling Time  
Sample I.D. BH8-2 BH9-1 BH9-2

Analyte Batch No MRL Units Guideline

Cyanide (CN-)	415841	0.005	ug/g	STD 0.051	<0.005	<0.005	
Electrical Conductivity	415909	0.05	mS/cm	STD 0.57	1.66*	3.76*	5.88*
pH - CaCl2	415894	2.00			7.69	7.75	
Sodium Adsorption Ratio	415914	0.01		STD 2.4	6.36*	79.4*	147*

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Inorganics

Lab I.D.	1606050	1606052
Sample Matrix	Soil153	Soil153
Sample Type		
Sample Date	2022-01-13	2022-01-13
Sampling Time		
Sample I.D.	BH10-1	BH11-1

Analyte	Batch No	MRL	Units	Guideline
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Electrical Conductivity	415909	0.05	mS/cm	STD 0.57	2.81*	7.04*
Sodium Adsorption Ratio	415914	0.01		STD 2.4	40.0*	162*

#### Inorganics

Lab I.D.	1606056	1606057
Sample Matrix	Soil153	Soil153
Sample Type		
Sample Date	2022-01-13	2022-01-13
Sampling Time		
Sample I.D.	BH12-1	BH12-2

Analyte	Batch No	MRL	Units	Guideline
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Cyanide (CN-)	415841	0.005	ug/g	STD 0.051	<0.005	
Electrical Conductivity	415909	0.05	mS/cm	STD 0.57	4.11*	8.50*
pH - CaCl2	415894	2.00			7.68	
Sodium Adsorption Ratio	415914	0.01		STD 2.4	58.8*	126*

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**Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop**

## Moisture

Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop					1606026	1606027	1606028	
Moisture	Analyte	Batch No	MRL	Units	Lab I.D.	1606026	1606027	1606028
					Sample Matrix	Soil153	Soil153	Soil153
					Sample Type			
					Sample Date	2022-01-14	2022-01-14	2022-01-14
					Sampling Time			
				Sample I.D.	BH1-3	BH1-5	BH2-1	
Moisture-Humidite	415889	0.1	%		14.4	14.2		
	416046	0.1	%				9.9	

## Moisture

<u>Moisture</u>					Lab I.D.	1606029	1606030	1606032	1606033
					Sample Matrix	Soil153	Soil153	Soil153	Soil153
					Sample Type				
					Sample Date	2022-01-14	2022-01-14	2022-01-14	2022-01-14
					Sample I.D.	BH2-6	Dup-4	BH4-2	BH4-9
Analyte	Batch No	MRL	Units	Guideline					
Moisture-Humidite	415889	0.1	%		16.2	15.8	11.5	16.3	

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Moisture

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606036  
Soil153  
2022-01-14  
BH5-3

1606037  
Soil153  
2022-01-14  
BH5-9

Analyte Batch No MRL Units Guideline

Moisture-Humidite	415889	0.1	%		14.6	13.8
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#### Moisture

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606040 Soil153 2022-01-14 BH7-3	1606041 Soil153 2022-01-14 Dup-3	1606042 Soil153 2022-01-14 BH7-6
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Analyte Batch No MRL Units Guideline

Moisture-Humidite	415889	0.1	%		12.4	12.8	15.5
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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Moisture

Lab I.D.	1606045	1606048
Sample Matrix	Soil153	Soil153
Sample Type		
Sample Date	2022-01-13	2022-01-13
Sampling Time		
Sample I.D.	BH8-7	BH9-3

Analyte	Batch No	MRL	Units	Guideline
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Moisture-Humidite	415996	0.1	%		14.0	9.7
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#### Moisture

Lab I.D.	1606049	1606051
Sample Matrix	Soil153	Soil153
Sample Type		
Sample Date	2022-01-13	2022-01-13
Sampling Time		
Sample I.D.	BH9-9	BH10-2

Analyte	Batch No	MRL	Units	Guideline
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Moisture-Humidite	415959	0.1	%			17.3
	416045	0.1	%		16.1	

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Moisture

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606054 Soil153	1606055 Soil153	1606057 Soil153	1606058 Soil153
2022-01-13	2022-01-13	2022-01-13	2022-01-13
BH11-2	BH11-7	BH12-2	BH12-8

Analyte	Batch No	MRL	Units	Guideline
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Moisture-Humidite	415959	0.1	%	14.1	11.8	15.9	9.7
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#### PCBs

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606047 Soil153
2022-01-13
BH9-2

Analyte	Batch No	MRL	Units	Guideline
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Aroclor 1242	416122	0.02	ug/g	<0.02
Aroclor 1248	416122	0.02	ug/g	<0.02
Aroclor 1254	416122	0.02	ug/g	<0.02
Aroclor 1260	416122	0.02	ug/g	<0.02
Polychlorinated Biphenyls	416122	0.02	ug/g	STD 0.3

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### PCB Surrogate

Lab I.D.	1606034	1606035
Sample Matrix	Soil153	Soil153
Sample Type		
Sample Date	2022-01-14	2022-01-14
Sampling Time		
Sample I.D.	BH5-1	Dup-5

Analyte	Batch No	MRL	Units	Guideline
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Decachlorobiphenyl	416010	0	%	N/A	N/A
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#### PCB Surrogate

Lab I.D.	1606047
Sample Matrix	Soil153
Sample Type	
Sample Date	2022-01-13
Sampling Time	
Sample I.D.	BH9-2

Analyte	Batch No	MRL	Units	Guideline
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Decachlorobiphenyl	416124	0	%	84
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**Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop**

## PHC Surrogate

<b><u>PHC Surrogate</u></b>					Lab I.D. Sample Matrix Sample Type Sample Date Sampling Time Sample I.D.	1606026 Soil153  2022-01-14  BH1-3	1606027 Soil153  2022-01-14  BH1-5	1606028 Soil153  2022-01-14  BH2-1
Analyte	Batch No	MRL	Units	Guideline				
Alpha-androstrane	415889	0	%		82	61		
	416046	0	%					83

## PHC Surrogate

<u>PHC Surrogate</u>					Lab I.D.	1606029	1606030	1606032	1606033
					Sample Matrix	Soil153	Soil153	Soil153	Soil153
					Sample Type				
					Sample Date	2022-01-14	2022-01-14	2022-01-14	2022-01-14
					Sampling Time				
					Sample I.D.	BH2-6	Dup-4	BH4-2	BH4-9
Analyte	Batch No	MRL	Units	Guideline					
Alpha-androstrane	415889	0	%		89	73	68	99	

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### PHC Surrogate

Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop						
<u>PHC Surrogate</u>	Analyte	Batch No	MRL	Units	Lab I.D.	1606036
					Sample Matrix	Soil153
					Sample Type	
					Sample Date	2022-01-14
					Sampling Time	2022-01-14
					Sample I.D.	BH5-3
					Guideline	BH5-9
	Alpha-androstrane	415889	0	%		71
						67

#### PHC Surrogate

<u>PHC Surrogate</u>					Lab I.D.	1606040	1606041	1606042
Analyte	Batch No	MRL	Units	Guideline	Sample Matrix	Soil153	Soil153	Soil153
					Sample Type			
					Sample Date	2022-01-14	2022-01-14	2022-01-14
					Sampling Time			
					Sample I.D.	BH7-3	Dup-3	BH7-6
Alpha-androstrane	415889	0	%			91	81	81

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#### PHC Surrogate

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606045  
Soil153  
2022-01-13  
BH8-7

1606048  
Soil153  
2022-01-13  
BH9-3

Analyte Batch No MRL Units Guideline

Alpha-androstrane	415996	0	%		87	80
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#### PHC Surrogate

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606049  
Soil153  
2022-01-13  
BH9-9

1606051  
Soil153  
2022-01-13  
BH10-2

Analyte Batch No MRL Units Guideline

Alpha-androstrane	415959	0	%			81
	416045	0	%		78	

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#### PHC Surrogate

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606054	Soil153	1606055	Soil153	1606057	Soil153
					2022-01-13		2022-01-13		2022-01-13	2022-01-13
					BH11-2		BH11-7		BH12-2	BH12-8
Alpha-androstrane	415959	0	%		79		64		77	74

#### VOCs Surrogates

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606026	Soil153	1606027	Soil153	1606028	Soil153
					2022-01-14		2022-01-14		2022-01-14	
					BH1-3		BH1-5		BH2-1	
1,2-dichloroethane-d4	415831	0	%				113			
4-bromofluorobenzene	415831	0	%				76			
Toluene-d8	415831	0	%		100		117		104	

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#### VOCs Surrogates

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606029	Soil153	1606030	Soil153	1606032	Soil153
1,2-dichloroethane-d4	415831	0	%		2022-01-14		2022-01-14		2022-01-14	
4-bromofluorobenzene	415831	0	%		BH2-6		Dup-4		BH4-2	
Toluene-d8	415831	0	%							BH4-9

#### VOCs Surrogates

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606036	Soil153	1606037	Soil153		
Toluene-d8	415831	0	%		2022-01-14		2022-01-14			
					BH5-3		BH5-9			

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Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### VOCs Surrogates

<u>Surrogates</u>					Lab I.D.	1606040	1606041	1606042
					Sample Matrix	Soil153	Soil153	Soil153
					Sample Type			
					Sample Date	2022-01-14	2022-01-14	2022-01-14
					Sampling Time			
					Sample I.D.	BH7-3	Dup-3	BH7-6
Analyte	Batch No	MRL	Units	Guideline				
Toluene-d8	415831	0	%		103	99	105	

#### VOCs Surrogates

<u>Surrogates</u>					Lab I.D. Sample Matrix Sample Type Sample Date Sampling Time Sample I.D.	1606045 Soil153  2022-01-13  BH8-7	1606048 Soil153  2022-01-13  BH9-3
Analyte	Batch No	MRL	Units	Guideline			
dichloroethane-d4	415831	0	%		123	110	
omofluorobenzene	415831	0	%		91	79	
Toluene-d8	415831	0	%		126	123	

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### VOCs Surrogates

<u>Surrogates</u>					Lab I.D.	1606049	1606051
Analyte	Batch No	MRL	Units	Guideline	Sample Matrix	Soil153	Soil153
					Sample Type		
					Sample Date	2022-01-13	2022-01-13
					Sampling Time		
					Sample I.D.	BH9-9	BH10-2
Toluene-d8	415831	0	%			107	103

#### VOCs Surrogates

<u>Surrogates</u>					Lab I.D.	1606054	1606055	1606057	1606058
					Sample Matrix	Soil153	Soil153	Soil153	Soil153
					Sample Type	2022-01-13	2022-01-13	2022-01-13	2022-01-13
					Sample Date				
					Sampling Time				
Analyte	Batch No	MRL	Units	Guideline	Sample I.D.	BH11-2	BH11-7	BH12-2	BH12-8
dichloroethane-d4	415831	0	%				125		125
omofluorobenzene	415831	0	%				79		77
Toluene-d8	415831	0	%			104	117	104	122

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### Quality Assurance Summary

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415831	Tetrachloroethane, 1,1,1,2-	<0.05 ug/g	89	60-130	90	50-140	0	0-50
415831	Trichloroethane, 1,1,1-	<0.05 ug/g	93	60-130	98	50-140	0	0-50
415831	Tetrachloroethane, 1,1,2,2-	<0.05 ug/g	97	60-130	91	50-140	0	0-30
415831	Trichloroethane, 1,1,2-	<0.05 ug/g	94	60-130	90	50-140	0	0-50
415831	Dichloroethane, 1,1-	<0.05 ug/g	95	60-130	101	50-140	0	0-50
415831	Dichloroethylene, 1,1-	<0.05 ug/g	96	60-130	101	50-140	0	0-50
415831	Dichlorobenzene, 1,2-	<0.05 ug/g	90	60-130	93	50-140	0	0-50
415831	Dichloroethane, 1,2-	<0.05 ug/g	98	60-130	95	50-140	0	0-50
415831	Dichloropropane, 1,2-	<0.05 ug/g	92	60-130	95	50-140	0	0-50
415831	Dichlorobenzene, 1,3-	<0.05 ug/g	89	60-130	94	50-140	0	0-50
415831	Dichloropropene, 1,3-	<0.05 ug/g						
415831	Dichlorobenzene, 1,4-	<0.05 ug/g	90	60-130	95	50-140	0	0-50
415831	Acetone	<0.50 ug/g	104	60-130	108	50-140	0	0-50
415831	Benzene	<0.0068	94	60-130	100	50-140	0	0-50
415831	Bromodichloromethane	<0.05 ug/g	92	60-130	92	50-140	0	0-50
415831	Bromoform	<0.05 ug/g	88	60-130	80	50-140	0	0-50
415831	Bromomethane	<0.05 ug/g	109	60-130	99	50-140	0	0-50
415831	Dichloroethylene, 1,2-cis-	<0.05 ug/g	93	60-130	98	50-140	0	0-50
415831	Dichloropropene, 1,3-cis-	<0.05 ug/g	84	60-130	89	50-140	0	0-50
415831	Carbon Tetrachloride	<0.05 ug/g	91	60-130	94	50-140	0	0-50
415831	Chloroform	<0.05 ug/g	94	60-130	97	50-140	0	0-50
415831	Dibromochloromethane	<0.05 ug/g	90	60-130	86	50-140	0	0-50
415831	Dichlorodifluoromethane	<0.05 ug/g	108	60-130	113	50-140	0	0-50
415831	Methylene Chloride	<0.05 ug/g	112	60-130	117	50-140	0	0-50
415831	Ethylbenzene	<0.018 ug/g	95	60-130	101	50-140	0	0-50
415831	Ethylene dibromide	<0.05 ug/g	90	60-130	86	50-140	0	0-50
415831	Hexane (n)	<0.05 ug/g	101	60-130	103	50-140	0	0-50
415831	Xylene, m/p-	<0.05 ug/g	98	60-130	105	50-140	0	0-50
415831	Methyl Ethyl Ketone	<0.50 ug/g	82	60-130	118	50-140	0	0-50
415831	Methyl Isobutyl Ketone	<0.50 ug/g	84	60-130	90	50-140	0	0-50
415831	Methyl tert-Butyl Ether (MTBE)	<0.05 ug/g	96	60-130	95	50-140	0	0-50
415831	Chlorobenzene	<0.05 ug/g	91	60-130	95	50-140	0	0-50

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Project: 02112512.000  
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### Quality Assurance Summary

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415831	Xylene, o-	<0.05 ug/g	92	60-130	98	50-140	0	0-50
415831	Styrene	<0.05 ug/g	90	60-130	93	50-140	0	0-50
415831	Dichloroethylene, 1,2-trans-	<0.05 ug/g	95	60-130	102	50-140	0	0-50
415831	Dichloropropene, 1,3-trans-	<0.05 ug/g	87	60-130	84	50-140	0	0-50
415831	Tetrachloroethylene	<0.05 ug/g	85	60-130	90	50-140	0	0-50
415831	Toluene	<0.08 ug/g	94	60-130	100	50-140	0	0-50
415831	Trichloroethylene	<0.01 ug/g	89	60-130	96	50-140	0	0-50
415831	Trichlorofluoromethane	<0.05 ug/g	96	60-130	90	50-140	0	0-50
415831	Vinyl Chloride	<0.02 ug/g	96	60-130	110	50-140	0	0-50
415841	Cyanide (CN-)	<0.005 ug/g	103	75-125	106	70-130	0	0-20
415846	Silver	<0.2 ug/g	95	70-130	97	70-130	0	0-20
415846	Arsenic	<1 ug/g	93	70-130	98	70-130	0	0-20
415846	Boron (total)	<5 ug/g	102	70-130	83	70-130	0	0-20
415846	Barium	<1 ug/g	92	70-130		70-130	15	0-20
415846	Beryllium	<1 ug/g	103	70-130	95	70-130	0	0-20
415846	Cadmium	<0.4 ug/g	101	70-130	102	70-130	0	0-20
415846	Cobalt	<1 ug/g	99	70-130	100	70-130	1	0-20
415846	Chromium Total	<1 ug/g	99	70-130	133	70-130	4	0-20
415846	Copper	<1 ug/g	105	70-130	106	70-130	2	0-20
415846	Mercury	<0.1 ug/g	100	70-130	82	70-130	0	0-20
415846	Molybdenum	<1 ug/g	94	70-130	95	70-130	0	0-20
415846	Nickel	<1 ug/g	103	70-130	111	70-130	1	0-20
415846	Lead	<1 ug/g	95	70-130	88	70-130	5	0-20
415846	Antimony	<1 ug/g	75	70-130	95	70-130	0	0-20
415846	Thallium	<1 ug/g	93	70-130	85	70-130	0	0-20
415846	Uranium	<0.5 ug/g	99	70-130	96	70-130	0	0-20
415846	Vanadium	<2 ug/g	97	70-130	142	70-130	1	0-20
415846	Zinc	<2 ug/g	107	70-130	120	70-130	2	0-20
415889	PHC's F2	<2 ug/g	96	80-120	108	60-140		0-30
415889	PHC's F3	<20 ug/g	96	80-120	108	60-140		0-30
415889	PHC's F4	<20 ug/g	96	80-120	108	60-140		0-30
415889	Moisture-Humidite	<0.1 %	100	80-120				
415894	pH - CaCl2	6.30	100	90-110			0	

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### Quality Assurance Summary

Batch No	Analyte	Blank	QC % Rec	QC Limits	Spike % Rec	Spike Limits	Dup % RPD	Duplicate Limits
415895	Selenium	<0.5 ug/g	112	70-130	117	70-130	0	0-20
415896	PHC's F1	<10 ug/g	100	80-120	104	60-140	0	0-30
415899	Chromium VI	<0.20 ug/g	104	80-120	92	70-130	0	0-35
415902	Xylene Mixture							
415903	PHC's F1-BTEX							
415909	Electrical Conductivity	<0.05	97	90-110			4	0-10
415914	Sodium Adsorption Ratio	<0.01					1	
415918	Boron (Hot Water Soluble)	<0.5 ug/g	96	70-130	95	75-125	0	0-30
415959	PHC's F2	<2 ug/g	94	80-120	98	60-140	0	0-30
415959	PHC's F3	<20 ug/g	92	80-120	98	60-140	0	0-30
415959	PHC's F4	<20 ug/g	92	80-120	98	60-140	0	0-30
415959	Moisture-Humidite	<0.1 %	100	80-120			1	
415963	Methylnaphthalene, 1-	<0.05 ug/g	105	50-140	79	50-140	0	0-40
415963	Methylnaphthalene, 2-	<0.05 ug/g	115	50-140	80	50-140	0	0-40
415963	Acenaphthene	<0.05 ug/g	106	50-140	82	50-140	0	0-40
415963	Acenaphthylene	0.07 ug/g	101	50-140	84	50-140	0	0-40
415963	Anthracene	<0.05 ug/g	111	50-140	86	50-140	0	0-40
415963	Benz[a]anthracene	<0.05 ug/g	118	50-140	89	50-140	0	0-40
415963	Benzo[a]pyrene	<0.05 ug/g	102	50-140	88	50-140	0	0-40
415963	Benzo[b]fluoranthene	<0.05 ug/g	116	50-140	93	50-140	0	0-40
415963	Benzo[ghi]perylene	<0.05 ug/g	90	50-140	85	50-140	0	0-40
415963	Benzo[k]fluoranthene	<0.05 ug/g	106	50-140	78		0	0-40
415963	Chrysene	<0.05 ug/g	119	50-140	88	50-140	0	0-40
415963	Dibenz[a h]anthracene	<0.05 ug/g	86	50-140	90	50-140	0	0-40
415963	Fluoranthene	<0.05 ug/g	118	50-140	102	50-140	0	0-40
415963	Fluorene	<0.05 ug/g	110	50-140	81	50-140	0	0-40
415963	Indeno[1 2 3-cd]pyrene	<0.05 ug/g	85	50-140	83	50-140	0	0-40
415963	Naphthalene	0.020 ug/g	90	50-140	68	50-140	0	0-40
415963	Phenanthrene	<0.05 ug/g	112	50-140	92	50-140	0	0-40
415963	Pyrene	<0.05 ug/g	118	50-140	103	50-140	0	0-40
415964	1+2-methylnaphthalene							
415986	Chlordane, alpha-	<0.006 ug/g	64	50-140		50-140		0-30
415986	Aldrin	<0.006 ug/g	63	50-140		50-140		0-30

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415986	Dieldrin	<0.006 ug/g	63	50-140		50-140		0-30
415986	Endosulfan I	<0.006 ug/g	64	50-140		50-140		0-30
415986	Endosulfan II	<0.006 ug/g	64	50-140		50-140		0-30
415986	Endrin	<0.006 ug/g	64	50-140		50-140		0-30
415986	Hexachlorocyclohexane Gamma-	<0.006 ug/g	62	50-140		50-140		0-30
415986	Chlordane, gamma-	<0.006 ug/g	65	50-140		50-140		0-30
415986	Heptachlor	<0.006 ug/g	63	50-140		50-140		0-30
415986	Heptachlor Epoxide	<0.006 ug/g	65	50-140		50-140		0-30
415986	Methoxychlor	<0.006 ug/g	68	50-140		50-140		0-30
415986	DDD	<0.006 ug/g	64	50-140		50-140		0-30
415986	DDE	<0.006 ug/g	66	50-140		50-140		0-30
415986	DDT	<0.006 ug/g	65	50-140		50-140		0-30
415987	Chlordane	<0.018 ug/g						
415987	Endosulfan	<0.012 ug/g						
415987	Hexachlorobenzene	<0.006 ug/g	102	50-140		50-140		0-30
415987	Hexachlorobutadiene	<0.006 ug/g	95	50-140		50-140		0-30
415987	Hexachloroethane	<0.006 ug/g	93	50-140		50-140		0-30
415996	PHC's F2	<2 ug/g	87	80-120	74	60-140	0	0-30
415996	PHC's F3	<20 ug/g	88	80-120	74	60-140	0	0-30
415996	PHC's F4	<20 ug/g	88	80-120	74	60-140	0	0-30
415996	Moisture-Humidite	<0.1 %	100	80-120			11	
416045	PHC's F2	<2 ug/g	109	80-120	106	60-140	0	0-30
416045	PHC's F3	<20 ug/g	108	80-120	106	60-140	0	0-30
416045	PHC's F4	<20 ug/g	108	80-120	106	60-140	0	0-30
416045	Moisture-Humidite	<0.1 %	100	80-120			2	
416046	PHC's F2	<2 ug/g	101	80-120	84	60-140	0	0-30
416046	PHC's F3	<20 ug/g	100	80-120	84	60-140	0	0-30
416046	PHC's F4	<20 ug/g	100	80-120	84	60-140	0	0-30
416046	Moisture-Humidite	<0.1 %	100	80-120			7	
416051	PHC's F2-Napth							
416052	PHC's F3-PAH							
416102	Electrical Conductivity	<0.05	98	90-110			0	0-10
416111	Sodium Adsorption Ratio	<0.01					1	

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416113	Silver	<0.2 ug/g	106	70-130	111	70-130	0	0-20
416113	Arsenic	<1 ug/g	100	70-130	113	70-130	0	0-20
416113	Boron (total)	<5 ug/g	99	70-130	150	70-130	0	0-20
416113	Barium	<1 ug/g	99	70-130	146	70-130	9	0-20
416113	Beryllium	<1 ug/g	102	70-130	99	70-130	0	0-20
416113	Cadmium	<0.4 ug/g	108	70-130	112	70-130	0	0-20
416113	Cobalt	<1 ug/g	101	70-130	111	70-130	0	0-20
416113	Chromium Total	<1 ug/g	103	70-130	175	70-130	15	0-20
416113	Copper	<1 ug/g	99	70-130	102	70-130	7	0-20
416113	Molybdenum	<1 ug/g	97	70-130	109	70-130	0	0-20
416113	Nickel	<1 ug/g	99	70-130	108	70-130	12	0-20
416113	Lead	<1 ug/g	98	70-130	103	70-130	0	0-20
416113	Antimony	<1 ug/g	84	70-130	118	70-130	0	0-20
416113	Selenium	<0.5 ug/g	106	70-130	105	70-130	0	0-20
416113	Thallium	<1 ug/g	98	70-130	99	70-130	0	0-20
416113	Uranium	<0.5 ug/g	102	70-130	111	70-130	0	0-20
416113	Vanadium	<2 ug/g	101	70-130	159	70-130	10	0-20
416113	Zinc	<2 ug/g	103	70-130	107	70-130	12	0-20
416122	Aroclor 1242	<0.02 ug/g	86	60-140	72	60-140	0	0-40
416122	Aroclor 1248	<0.02 ug/g	86	60-140	72	60-140	0	0-40
416122	Aroclor 1254	<0.02 ug/g	86	60-140	72	60-140	0	0-40
416122	Aroclor 1260	<0.02 ug/g	86	60-140	72	60-140	0	0-40
416122	Polychlorinated Biphenyls	<0.02 ug/g	86	60-140	72	60-140	0	0-40

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1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970181  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Test Summary

Batch No	Analyte	Instrument	Preparation Date	Analysis Date	Analyst	Method
415831	Tetrachloroethane, 1,1,1,2-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Trichloroethane, 1,1,1-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Tetrachloroethane, 1,1,2,2-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Trichloroethane, 1,1,2-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dichloroethane, 1,1-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dichloroethylene, 1,1-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dichlorobenzene, 1,2-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dichloroethane, 1,2-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dichloropropane, 1,2-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dichlorobenzene, 1,3-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dichloropropene, 1,3-	GC-MS	2022-01-21	2022-01-21	YH	V 8260B
415831	Dichlorobenzene, 1,4-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Acetone	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Benzene	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Bromodichloromethane	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Bromoform	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Bromomethane	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dichloroethylene, 1,2-cis-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dichloropropene, 1,3-cis-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Carbon Tetrachloride	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Chloroform	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dibromochloromethane	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dichlorodifluoromethane	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Methylene Chloride	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Ethylbenzene	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Ethylene dibromide	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Hexane (n)	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Xylene, m/p-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Methyl Ethyl Ketone	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Methyl Isobutyl Ketone	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Methyl tert-Butyl Ether (MTBE)	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Chlorobenzene	GC-MS	2022-01-20	2022-01-21	YH	V 8260B

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### Test Summary

Batch No	Analyte	Instrument	Preparation Date	Analysis Date	Analyst	Method
415831	Xylene, o-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Styrene	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dichloroethylene, 1,2-trans-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Dichloropropene, 1,3-trans-	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Tetrachloroethylene	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Toluene	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Trichloroethylene	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Trichlorofluoromethane	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415831	Vinyl Chloride	GC-MS	2022-01-20	2022-01-21	YH	V 8260B
415841	Cyanide (CN-)	Skalar CN Analyzer	2022-01-21	2022-01-21	Z_S	MOECC E3015
415846	Silver	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Arsenic	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Boron (total)	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Barium	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Beryllium	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Cadmium	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Cobalt	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Chromium Total	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Copper	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Mercury	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Molybdenum	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Nickel	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Lead	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Antimony	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Thallium	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Uranium	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Vanadium	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415846	Zinc	ICAPQ-MS	2022-01-21	2022-01-21	SD	EPA 200.8/6020
415889	PHC's F2	GC/FID	2022-01-20	2022-01-24	R_G	CCME
415889	PHC's F3	GC/FID	2022-01-20	2022-01-24	R_G	CCME
415889	PHC's F4	GC/FID	2022-01-20	2022-01-24	R_G	CCME
415889	Moisture-Humidite	Oven	2022-01-20	2022-01-24	R_G	ASTM 2216
415894	pH - CaCl2	pH Meter	2022-01-24	2022-01-24	MW	Ag Soil

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Project: 02112512.000  
COC #: 883644

### Test Summary

Batch No	Analyte	Instrument	Preparation Date	Analysis Date	Analyst	Method
415895	Selenium	ICAPQ-MS	2022-01-24	2022-01-24	AaN	EPA 200.8/6020
415896	PHC's F1	GC/FID	2022-01-24	2022-01-24	YH	CCME
415899	Chromium VI	FAA	2022-01-21	2022-01-24	MW	M US EPA 3060A
415902	Xylene Mixture	GC-MS	2022-01-24	2022-01-24	YH	V 8260B
415903	PHC's F1-BTEX	GC/FID	2022-01-24	2022-01-24	YH	CCME
415909	Electrical Conductivity	Electrical Conductivity Meter	2022-01-24	2022-01-24	Z_S	Cond-Soil
415914	Sodium Adsorption Ratio	iCAP OES	2022-01-24	2022-01-24	Z_S	Ag Soil
415918	Boron (Hot Water Soluble)	iCAP OES	2022-01-24	2022-01-24	Z_S	MOECC E3470
415959	PHC's F2	GC/FID	2022-01-24	2022-01-25	R_G	CCME
415959	PHC's F3	GC/FID	2022-01-24	2022-01-25	R_G	CCME
415959	PHC's F4	GC/FID	2022-01-24	2022-01-25	R_G	CCME
415959	Moisture-Humidity	Oven	2022-01-24	2022-01-25	R_G	ASTM 2216
415963	Methylnaphthalene, 1-	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Methylnaphthalene, 2-	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Acenaphthene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Acenaphthylene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Anthracene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Benz[a]anthracene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Benzo[a]pyrene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Benzo[b]fluoranthene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Benzo[ghi]perylene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Benzo[k]fluoranthene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Chrysene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Dibenz[a,h]anthracene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Fluoranthene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Fluorene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Indeno[1,2,3-cd]pyrene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Naphthalene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Phenanthrene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415963	Pyrene	GC-MS	2022-01-24	2022-01-24	C_M	P 8270
415964	1+2-methylnaphthalene	GC-MS	2022-01-25	2022-01-25	C_M	P 8270
415986	Chlordane, alpha-	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415986	Aldrin	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B

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### Test Summary

Batch No	Analyte	Instrument	Preparation Date	Analysis Date	Analyst	Method
415986	Dieldrin	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415986	Endosulfan I	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415986	Endosulfan II	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415986	Endrin	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415986	Hexachlorocyclohexane Gamma-	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415986	Chlordane, gamma-	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415986	Heptachlor	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415986	Heptachlor Epoxide	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415986	Methoxychlor	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415986	DDD	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415986	DDE	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415986	DDT	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415987	Chlordane	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415987	Endosulfan	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415987	Hexachlorobenzene	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415987	Hexachlorobutadiene	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415987	Hexachloroethane	GC/ECD	2022-01-23	2022-01-25	QL	EPA 8081B
415996	PHC's F2	GC/FID	2022-01-24	2022-01-25	R_G	CCME
415996	PHC's F3	GC/FID	2022-01-24	2022-01-25	R_G	CCME
415996	PHC's F4	GC/FID	2022-01-24	2022-01-25	R_G	CCME
415996	Moisture-Humidite	Oven	2022-01-24	2022-01-25	R_G	ASTM 2216
416045	PHC's F2	GC/FID	2022-01-24	2022-01-26	R_G	CCME
416045	PHC's F3	GC/FID	2022-01-24	2022-01-26	R_G	CCME
416045	PHC's F4	GC/FID	2022-01-24	2022-01-26	R_G	CCME
416045	Moisture-Humidite	Oven	2022-01-24	2022-01-26	R_G	ASTM 2216
416046	PHC's F2	GC/FID	2022-01-24	2022-01-26	R_G	CCME
416046	PHC's F3	GC/FID	2022-01-24	2022-01-26	R_G	CCME
416046	PHC's F4	GC/FID	2022-01-24	2022-01-26	R_G	CCME
416046	Moisture-Humidite	Oven	2022-01-24	2022-01-26	R_G	ASTM 2216
416051	PHC's F2-Napth	GC/FID	2022-01-26	2022-01-26	R_G	CCME
416052	PHC's F3-PAH	GC/FID	2022-01-26	2022-01-26	R_G	CCME
416102	Electrical Conductivity	Electrical Conductivity Meter	2022-01-26	2022-01-26	Z_S	Cond-Soil
416111	Sodium Adsorption Ratio	iCAP OES	2022-01-26	2022-01-26	Z_S	Ag Soil

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Date Reported: 2022-01-26  
Project: 02112512.000  
COC #: 883644

### Test Summary

Batch No	Analyte	Instrument	Preparation Date	Analysis Date	Analyst	Method
416113	Silver	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Arsenic	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Boron (total)	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Barium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Beryllium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Cadmium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Cobalt	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Chromium Total	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Copper	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Molybdenum	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Nickel	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Lead	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Antimony	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Selenium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Thallium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Uranium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Vanadium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Zinc	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416122	Aroclor 1242	GC/ECD	2022-01-24	2022-01-25	QL	EPA 8081B/8082A
416122	Aroclor 1248	GC/ECD	2022-01-24	2022-01-25	QL	EPA 8081B/8082A
416122	Aroclor 1254	GC/ECD	2022-01-24	2022-01-25	QL	EPA 8081B/8082A
416122	Aroclor 1260	GC/ECD	2022-01-24	2022-01-25	QL	EPA 8081B/8082A
416122	Polychlorinated Biphenyls	GC/ECD	2022-01-24	2022-01-25	QL	EPA 8081B/8082A

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COC #: 883644

### CWS for Petroleum Hydrocarbons in Soil - Tier 1

#### Notes:

1. The laboratory method complies with CCME Tier 1 reference method for PHC in soil. It is validated for laboratory use.
2. Where the F1 fraction (C6 to C10) and BTEX are both measured, F1-BTEX is reported.
3. Where the F2 fraction (C10 to C16) and naphthalene are both measured, F2-naphthalene is reported.
4. Where the F3 fraction (C16 to C34) and PAHs\* are both measured, F3-PAH is reported.
5. F4G is analyzed if the chromatogram does not descend to baseline before C50. Where F4 (C34 to C50) and F4G are both reported, the higher result is compared to the standard.
6. Unless otherwise stated in the sample comments, the following criteria have been met where applicable:
  - nC6 and nC10 response factors within 30% of response factor for toluene;
  - nC10, nC16, and nC34 response factors within 10% of each other;
  - C50 response factors within 70% of nC10 + nC16 + nC34 average; and,
  - Linearity is within 15%.
7. Unless otherwise stated in the sample comments, sampling requirements and analytical holding times have been met.
8. Gravimetric heavy hydrocarbons (F4G) cannot be added to the C6 and C50 hydrocarbons.
9. \*PAHs = phenanthrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene and pyrene.

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PO#:

Report Number: 1970461  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-28  
Project: 02112512.000  
COC #: 885363  
Temperature (C): 2  
Custody Seal:

Page 1 of 27

**Dear Nan Du:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

### ***Sample Comment Summary***

Sample ID: 1606843 BH16-1 OCPs surrogate recovery is unavailable due to matrix interference.
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Report Comments:

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Long Qu, Organics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated

Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <http://www.cala.ca/scopes/2602.pdf>

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.



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1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970461  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-28  
Project: 02112512.000  
COC #: 885363

### O.Reg 153-T1-All Other Soils

#### Exceedence Summary

Sample I.D.	Analyte	Result	Units	Criteria
Inorganics				
BH15-2	Sodium Adsorption Ratio	6.11		STD 2.4
BH3-1	Electrical Conductivity	3.31	mS/cm	STD 0.57
BH3-1	Sodium Adsorption Ratio	55.8		STD 2.4
BH6-1	Electrical Conductivity	3.95	mS/cm	STD 0.57
BH6-1	Sodium Adsorption Ratio	42.6		STD 2.4

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Hydrocarbons

Lab I.D. 1606836  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-21  
Sampling Time  
Sample I.D. BH3-5

1606838  
Soil153  
2022-01-21  
BH6-9

Analyte Batch No MRL Units Guideline

PHC's F1	416120	10	ug/g	STD 25	<10	<10
PHC's F1-BTEX	416121	10	ug/g		<10	<10
PHC's F2	416160	2	ug/g	STD 10	3	7
PHC's F3	416160	20	ug/g	STD 240	<20	60
PHC's F4	416160	20	ug/g	STD 120	<20	<20

#### Hydrocarbons

Lab I.D. 1606840  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-21  
Sampling Time  
Sample I.D. BH13-6

Analyte Batch No MRL Units Guideline

PHC's F1	416120	10	ug/g	STD 25	<10
PHC's F1-BTEX	416121	10	ug/g		<10
PHC's F2	416160	2	ug/g	STD 10	4
PHC's F3	416160	20	ug/g	STD 240	<20
PHC's F4	416160	20	ug/g	STD 120	<20

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#### Hydrocarbons

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	1606844
					Sample Matrix	Soil153
					Sample Type	1606845
					Sample Date	Soil153
					Sampling Time	2022-01-21
					Sample I.D.	2022-01-21
						BH16-2
						BH16-6
PHC's F1	416120	10	ug/g	STD 25	<10	<10
PHC's F1-BTEX	416121	10	ug/g		<10	<10
PHC's F2	416160	2	ug/g	STD 10	5	7
PHC's F3	416160	20	ug/g	STD 240	<20	30
PHC's F4	416160	20	ug/g	STD 120	<20	<20

#### Metals

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	1606834
					Sample Matrix	Soil153
					Sample Type	1606837
					Sample Date	Soil153
					Sampling Time	2022-01-21
					Sample I.D.	2022-01-21
						BH3-1
						BH6-1
Antimony	416113	1	ug/g	STD 1.3	<1	<1
Arsenic	416113	1	ug/g	STD 18	4	4
Barium	416113	1	ug/g	STD 220	94	59
Beryllium	416113	1	ug/g	STD 2.5	<1	<1
Boron (total)	416113	5	ug/g	STD 36	<5	<5
Cadmium	416113	0.4	ug/g	STD 1.2	<0.4	<0.4
Chromium Total	416113	1	ug/g	STD 70	25	27
Cobalt	416113	1	ug/g	STD 21	8	6
Copper	416113	1	ug/g	STD 92	19	14
Lead	416113	1	ug/g	STD 120	8	9
Molybdenum	416113	1	ug/g	STD 2	<1	<1
Nickel	416113	1	ug/g	STD 82	18	18
Selenium	416113	0.5	ug/g	STD 1.5	0.5	<0.5

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#### Metals

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606834	Soil153		2022-01-21		BH3-1
Silver	416113	0.2	ug/g	STD 0.5	1606837	Soil153		2022-01-21		BH6-1
Thallium	416113	1	ug/g	STD 1						
Uranium	416113	0.5	ug/g	STD 2.5						
Vanadium	416113	2	ug/g	STD 86						
Zinc	416113	2	ug/g	STD 290						

#### Metals

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606839	Soil153		2022-01-21		BH13-1
Antimony	416113	1	ug/g	STD 1.3	1606841	Soil153		2022-01-21		BH15-1
Arsenic	416113	1	ug/g	STD 18	1606842	Soil153		2022-01-21		BH15-2
Barium	416113	1	ug/g	STD 220	1606843	Soil153		2022-01-21		BH16-1
Beryllium	416113	1	ug/g	STD 2.5						
Boron (Hot Water Soluble)	416128	0.5	ug/g							
Boron (total)	416113	5	ug/g	STD 36						
Cadmium	416113	0.4	ug/g	STD 1.2						
Chromium Total	416113	1	ug/g	STD 70						
Chromium VI	416275	0.20	ug/g	STD 0.66						
Cobalt	416113	1	ug/g	STD 21						
Copper	416113	1	ug/g	STD 92						
Lead	416113	1	ug/g	STD 120						
Mercury	416113	0.1	ug/g	STD 0.27						
Molybdenum	416113	1	ug/g	STD 2						

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#### Metals

					Lab I.D. Sample Matrix Sample Type Sample Date Sampling Time Sample I.D.	1606839 Soil153	1606841 Soil153	1606842 Soil153	1606843 Soil153
						2022-01-21	2022-01-21	2022-01-21	2022-01-21
						BH13-1	BH15-1	BH15-2	BH16-1
Analyte	Batch No	MRL	Units	Guideline					
Nickel	416113	1	ug/g	STD 82		8	10	12	13
Selenium	416113	0.5	ug/g	STD 1.5		<0.5	<0.5	<0.5	<0.5
Silver	416113	0.2	ug/g	STD 0.5		<0.2	<0.2	<0.2	<0.2
Thallium	416113	1	ug/g	STD 1		<1	<1	<1	<1
Uranium	416113	0.5	ug/g	STD 2.5		<0.5	<0.5	<0.5	<0.5
Vanadium	416113	2	ug/g	STD 86		17	21	24	25
Zinc	416113	2	ug/g	STD 290		18	34	26	48

#### OCP/PCB

					Lab I.D. Sample Matrix Sample Type Sample Date Sampling Time Sample I.D.	1606843 Soil153
						2022-01-21
						BH16-1
Analyte	Batch No	MRL	Units	Guideline		
Aldrin	416232	0.002	ug/g	STD 0.05		<0.002
Chlordane	416232	0.006	ug/g	STD 0.05		<0.006
Chlordane, alpha-	416232	0.002	ug/g			<0.002
Chlordane, gamma-	416232	0.002	ug/g			<0.002
DDD	416232	0.002	ug/g	STD 0.05		<0.002
DDE	416232	0.002	ug/g	STD 0.05		<0.002
DDT	416232	0.002	ug/g	STD 1.4		<0.002
Dieldrin	416232	0.002	ug/g	STD 0.05		<0.002
Endosulfan	416232	0.004	ug/g	STD 0.04		<0.004
Endosulfan I	416232	0.002	ug/g			<0.002
Endosulfan II	416232	0.002	ug/g			<0.002
Endrin	416232	0.002	ug/g	STD 0.04		<0.002

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#### OCP/PCB

Lab I.D. 1606843  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-21  
Sampling Time  
Sample I.D. BH16-1

Analyte	Batch No	MRL	Units	Guideline	
Heptachlor	416232	0.002	ug/g	STD 0.05	<0.002
Heptachlor Epoxide	416232	0.002	ug/g	STD 0.05	<0.002
Hexachlorobenzene	416232	0.002	ug/g	STD 0.01	<0.002
Hexachlorobutadiene	416232	0.002	ug/g	STD 0.01	<0.002
Hexachlorocyclohexane Gamma-	416232	0.002	ug/g	STD 0.01	<0.002
Hexachloroethane	416232	0.002	ug/g	STD 0.01	<0.002
Methoxychlor	416232	0.002	ug/g	STD 0.05	<0.002

#### PAH

Lab I.D. 1606837  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-21  
Sampling Time  
Sample I.D. BH6-1

Analyte	Batch No	MRL	Units	Guideline	
1+2-methylnaphthalene	416170	0.05	ug/g		<0.05
Acenaphthene	415963	0.05	ug/g	STD 0.072	<0.05
Acenaphthylene	415963	0.05	ug/g	STD 0.093	<0.05
Anthracene	415963	0.05	ug/g	STD 0.16	<0.05
Benz[a]anthracene	415963	0.05	ug/g	STD 0.36	<0.05
Benzo[a]pyrene	415963	0.05	ug/g	STD 0.3	<0.05
Benzo[b]fluoranthene	415963	0.05	ug/g	STD 0.47	<0.05
Benzo[ghi]perylene	415963	0.05	ug/g	STD 0.68	<0.05
Benzo[k]fluoranthene	415963	0.05	ug/g	STD 0.48	<0.05
Chrysene	415963	0.05	ug/g	STD 2.8	<0.05
Dibenz[a h]anthracene	415963	0.05	ug/g	STD 0.1	<0.05
Fluoranthene	415963	0.05	ug/g	STD 0.56	<0.05

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### PAH

Lab I.D. 1606837  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-21  
Sampling Time  
Sample I.D. BH6-1

Analyte Batch No MRL Units Guideline

Fluorene	415963	0.05	ug/g	STD 0.12	<0.05
Indeno[1 2 3-cd]pyrene	415963	0.05	ug/g	STD 0.23	<0.05
Methlynaphthalene, 1-	415963	0.05	ug/g	STD 0.59	<0.05
Methlynaphthalene, 2-	415963	0.05	ug/g	STD 0.59	<0.05
Naphthalene	415963	0.013	ug/g	STD 0.09	<0.013
Phenanthrene	415963	0.05	ug/g	STD 0.69	<0.05
Pyrene	415963	0.05	ug/g	STD 1	<0.05

#### Volatiles

Lab I.D. 1606836  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-21  
Sampling Time  
Sample I.D. BH3-5

Analyte Batch No MRL Units Guideline

Benzene	416116	0.0068	ug/g	STD 0.02	<0.0068	<0.0068
Ethylbenzene	416116	0.018	ug/g	STD 0.05	<0.018	<0.018
Toluene	416116	0.08	ug/g	STD 0.2	<0.08	<0.08
Xylene Mixture	416119	0.05	ug/g	STD 0.05	<0.05	<0.05
Xylene, m/p-	416116	0.05	ug/g		<0.05	<0.05
Xylene, o-	416116	0.05	ug/g		<0.05	<0.05

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#### Volatiles

Lab I.D. 1606840  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-21  
Sampling Time  
Sample I.D. BH13-6

Analyte	Batch No	MRL	Units	Guideline	
Benzene	416116	0.0068	ug/g	STD 0.02	<0.0068
Ethylbenzene	416116	0.018	ug/g	STD 0.05	<0.018
Toluene	416116	0.08	ug/g	STD 0.2	<0.08
Xylene Mixture	416119	0.05	ug/g	STD 0.05	<0.05
Xylene, m/p-	416116	0.05	ug/g		<0.05
Xylene, o-	416116	0.05	ug/g		<0.05

#### Volatiles

Lab I.D. 1606844  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-21  
Sampling Time  
Sample I.D. BH16-2

Analyte	Batch No	MRL	Units	Guideline	1606845 Soil153 2022-01-21 BH16-6	1606845 Soil153 2022-01-21 BH16-6
Acetone	416116	0.50	ug/g	STD 0.5		<0.50
Benzene	416116	0.0068	ug/g	STD 0.02	<0.0068	<0.0068
Bromodichloromethane	416116	0.05	ug/g	STD 0.05		<0.05
Bromoform	416116	0.05	ug/g	STD 0.05		<0.05
Bromomethane	416116	0.05	ug/g	STD 0.05		<0.05
Carbon Tetrachloride	416116	0.05	ug/g	STD 0.05		<0.05
Chlorobenzene	416116	0.05	ug/g	STD 0.05		<0.05
Chloroform	416116	0.05	ug/g	STD 0.05		<0.05
Dibromochloromethane	416116	0.05	ug/g	STD 0.05		<0.05
Dichlorobenzene, 1,2-	416116	0.05	ug/g	STD 0.05		<0.05
Dichlorobenzene, 1,3-	416116	0.05	ug/g	STD 0.05		<0.05
Dichlorobenzene, 1,4-	416116	0.05	ug/g	STD 0.05		<0.05
Dichlorodifluoromethane	416116	0.05	ug/g	STD 0.05		<0.05

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#### Volatiles

Lab I.D. 1606844  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-21  
Sampling Time 2022-01-21  
Sample I.D. BH16-2  
BH16-6

Analyte	Batch No	MRL	Units	Guideline		
Dichloroethane, 1,1-	416116	0.05	ug/g	STD 0.05		<0.05
Dichloroethane, 1,2-	416116	0.05	ug/g	STD 0.05		<0.05
Dichloroethylene, 1,1-	416116	0.05	ug/g	STD 0.05		<0.05
Dichloroethylene, 1,2-cis-	416116	0.05	ug/g	STD 0.05		<0.05
Dichloroethylene, 1,2-trans-	416116	0.05	ug/g	STD 0.05		<0.05
Dichloropropane, 1,2-	416116	0.05	ug/g	STD 0.05		<0.05
Dichloropropene,1,3-	416116	0.05	ug/g	STD 0.05		<0.05
Dichloropropene,1,3-cis-	416116	0.05	ug/g			<0.05
Dichloropropene,1,3-trans-	416116	0.05	ug/g			<0.05
Ethylbenzene	416116	0.018	ug/g	STD 0.05	<0.018	<0.018
Ethylene dibromide	416116	0.05	ug/g	STD 0.05		<0.05
Hexane (n)	416116	0.05	ug/g	STD 0.05		<0.05
Methyl Ethyl Ketone	416116	0.50	ug/g	STD 0.5		<0.50
Methyl Isobutyl Ketone	416116	0.50	ug/g	STD 0.5		<0.50
Methyl tert-Butyl Ether (MTBE)	416116	0.05	ug/g	STD 0.05		<0.05
Methylene Chloride	416116	0.05	ug/g	STD 0.05		<0.05
Styrene	416116	0.05	ug/g	STD 0.05		<0.05
Tetrachloroethane, 1,1,1,2-	416116	0.05	ug/g	STD 0.05		<0.05
Tetrachloroethane, 1,1,2,2-	416116	0.05	ug/g	STD 0.05		<0.05
Tetrachloroethylene	416116	0.05	ug/g	STD 0.05		<0.05
Toluene	416116	0.08	ug/g	STD 0.2	<0.08	<0.08
Trichloroethane, 1,1,1-	416116	0.05	ug/g	STD 0.05		<0.05
Trichloroethane, 1,1,2-	416116	0.05	ug/g	STD 0.05		<0.05

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#### Volatiles

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606844  
Soil153  
2022-01-21  
BH16-2

1606845  
Soil153  
2022-01-21  
BH16-6

Analyte Batch No MRL Units Guideline

Trichloroethylene	416116	0.01	ug/g	STD 0.05		<0.01
Trichlorofluoromethane	416116	0.05	ug/g	STD 0.25		<0.05
Vinyl Chloride	416116	0.02	ug/g	STD 0.02		<0.02
Xylene Mixture	416119	0.05	ug/g	STD 0.05	<0.05	<0.05
Xylene, m/p-	416116	0.05	ug/g		<0.05	<0.05
Xylene, o-	416116	0.05	ug/g		<0.05	<0.05

#### Inorganics

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606834  
Soil153  
2022-01-21  
BH3-1

1606836  
Soil153  
2022-01-21  
BH3-5

1606837  
Soil153  
2022-01-21  
BH6-1

Analyte Batch No MRL Units Guideline

Electrical Conductivity	416272	0.05	mS/cm	STD 0.57	3.31*		3.95*
pH - CaCl2	416090	2.00				7.52	
Sodium Adsorption Ratio	416286	0.01		STD 2.4	55.8*		42.6*

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MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range



Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970461  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-28  
Project: 02112512.000  
COC #: 885363

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Inorganics

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606839	Soil153	1606840	1606841	1606842	1606843
					Soil153		Soil153	Soil153	Soil153	Soil153
					2022-01-21		2022-01-21	2022-01-21	2022-01-21	2022-01-21
					BH13-1		BH13-6	BH15-1	BH15-2	BH16-1
Cyanide (CN-)	416131	0.005	ug/g	STD 0.051				<0.005		
Electrical Conductivity	416272	0.05	mS/cm	STD 0.57	0.34			0.42	0.42	0.40
pH - CaCl2	416090	2.00					7.57	7.51		
Sodium Adsorption Ratio	416286	0.01		STD 2.4	1.18			1.35	6.11*	0.89

#### Moisture

Analyte	Batch No	MRL	Units	Guideline	Lab I.D.	Sample Matrix	Sample Type	Sample Date	Sampling Time	Sample I.D.
					1606836	Soil153	1606838	Soil153		
					2022-01-21		2022-01-21			
					BH3-5		BH6-9			
Moisture-Humidite	416160	0.1	%		5.0		12.2			

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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### Moisture

Lab I.D. 1606840  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-21  
Sampling Time  
Sample I.D. BH13-6

Analyte Batch No MRL Units Guideline

Moisture-Humidite	416160	0.1	%	4.6
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#### Moisture

Lab I.D. 1606844	1606845
Sample Matrix Soil153	Soil153
Sample Type	
Sample Date 2022-01-21	2022-01-21
Sampling Time	
Sample I.D. BH16-2	BH16-6

Analyte Batch No MRL Units Guideline

Moisture-Humidite	416160	0.1	%	13.9	9.1
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## Environment Testing

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COC #: 885363

### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### PCBs

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606834  
Soil153  
2022-01-21  
2022-01-21  
BH3-1  
Dup-7

Analyte Batch No MRL Units Guideline

Aroclor 1242	416206	0.02	ug/g		<0.02	<0.02
Aroclor 1248	416206	0.02	ug/g		<0.02	<0.02
Aroclor 1254	416206	0.02	ug/g		<0.02	<0.02
Aroclor 1260	416206	0.02	ug/g		<0.02	<0.02
Polychlorinated Biphenyls	416206	0.02	ug/g	STD 0.3	<0.02	<0.02

#### PCB Surrogate

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1606834  
Soil153  
2022-01-21  
2022-01-21  
BH3-1  
Dup-7

Analyte Batch No MRL Units Guideline

Decachlorobiphenyl	416211	0	%		61	50
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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### PCB Surrogate

Lab I.D. 1606843  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-21  
Sampling Time  
Sample I.D. BH16-1

**Analyte Batch No MRL Units Guideline**

Decachlorobiphenyl	416232	0	%		N/A
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#### PHC Surrogate

Lab I.D. 1606836	1606838
Sample Matrix Soil153	Soil153
Sample Type	
Sample Date 2022-01-21	2022-01-21
Sampling Time	
Sample I.D. BH3-5	BH6-9

**Analyte Batch No MRL Units Guideline**

Alpha-androstrane	416160	0	%		64	91
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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### PHC Surrogate

Lab I.D. 1606840  
Sample Matrix Soil153  
Sample Type  
Sample Date 2022-01-21  
Sampling Time  
Sample I.D. BH13-6

Analyte Batch No MRL Units Guideline

Alpha-androstrane	416160	0	%	67
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#### PHC Surrogate

Lab I.D. 1606844	1606845
Sample Matrix Soil153	Soil153
Sample Type	
Sample Date 2022-01-21	2022-01-21
Sampling Time	
Sample I.D. BH16-2	BH16-6

Analyte Batch No MRL Units Guideline

Alpha-androstrane	416160	0	%	77	98
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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### VOCs Surrogates

Lab I.D.	1606836	1606838
Sample Matrix	Soil153	Soil153
Sample Type		
Sample Date	2022-01-21	2022-01-21
Sampling Time		
Sample I.D.	BH3-5	BH6-9

Analyte	Batch No	MRL	Units	Guideline
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Toluene-d8	416116	0	%	99	98
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#### VOCs Surrogates

Lab I.D.	1606840
Sample Matrix	Soil153
Sample Type	
Sample Date	2022-01-21
Sampling Time	
Sample I.D.	BH13-6

Analyte	Batch No	MRL	Units	Guideline
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Toluene-d8	416116	0	%	98
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### Guideline = O.Reg 153-T1-All Other Soils - Res/Par/Ins/Ind/Com/Prop

#### VOCs Surrogates

Lab I.D.	1606844	1606845
Sample Matrix	Soil153	Soil153
Sample Type		
Sample Date	2022-01-21	2022-01-21
Sampling Time		
Sample I.D.	BH16-2	BH16-6

Analyte	Batch No	MRL	Units	Guideline
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1,2-dichloroethane-d4	416116	0	%		127
4-bromofluorobenzene	416116	0	%		81
Toluene-d8	416116	0	%	103	116

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### Quality Assurance Summary

Batch No	Analyte	Blank	QC % Rec	QC Limits	Spike % Rec	Spike Limits	Dup % RPD	Duplicate Limits
415963	Methlynaphthalene, 1-	<0.05 ug/g	105	50-140	79	50-140	0	0-40
415963	Methlynaphthalene, 2-	<0.05 ug/g	115	50-140	80	50-140	0	0-40
415963	Acenaphthene	<0.05 ug/g	106	50-140	82	50-140	0	0-40
415963	Acenaphthylene	0.07 ug/g	101	50-140	84	50-140	0	0-40
415963	Anthracene	<0.05 ug/g	111	50-140	86	50-140	0	0-40
415963	Benz[a]anthracene	<0.05 ug/g	118	50-140	89	50-140	0	0-40
415963	Benzo[a]pyrene	<0.05 ug/g	102	50-140	88	50-140	0	0-40
415963	Benzo[b]fluoranthene	<0.05 ug/g	116	50-140	93	50-140	0	0-40
415963	Benzo[ghi]perylene	<0.05 ug/g	90	50-140	85	50-140	0	0-40
415963	Benzo[k]fluoranthene	<0.05 ug/g	106	50-140	78		0	0-40
415963	Chrysene	<0.05 ug/g	119	50-140	88	50-140	0	0-40
415963	Dibenz[a h]anthracene	<0.05 ug/g	86	50-140	90	50-140	0	0-40
415963	Fluoranthene	<0.05 ug/g	118	50-140	102	50-140	0	0-40
415963	Fluorene	<0.05 ug/g	110	50-140	81	50-140	0	0-40
415963	Indeno[1 2 3-cd]pyrene	<0.05 ug/g	85	50-140	83	50-140	0	0-40
415963	Naphthalene	0.020 ug/g	90	50-140	68	50-140	0	0-40
415963	Phenanthrene	<0.05 ug/g	112	50-140	92	50-140	0	0-40
415963	Pyrene	<0.05 ug/g	118	50-140	103	50-140	0	0-40
416090	pH - CaCl2	5.93	100	90-110			0	
416113	Silver	<0.2 ug/g	106	70-130	107	70-130	0	0-20
416113	Arsenic	<1 ug/g	100	70-130	101	70-130	0	0-20
416113	Boron (total)	<5 ug/g	99	70-130	109	70-130	0	0-20
416113	Barium	<1 ug/g	99	70-130	351	70-130	9	0-20
416113	Beryllium	<1 ug/g	102	70-130	90	70-130	0	0-20
416113	Cadmium	<0.4 ug/g	108	70-130	111	70-130	0	0-20
416113	Cobalt	<1 ug/g	101	70-130	104	70-130	0	0-20
416113	Chromium Total	<1 ug/g	103	70-130	195	70-130	15	0-20
416113	Copper	<1 ug/g	99	70-130	111	70-130	7	0-20
416113	Mercury	<0.1 ug/g	90	70-130	84	70-130	0	0-20
416113	Molybdenum	<1 ug/g	97	70-130	97	70-130	0	0-20
416113	Nickel	<1 ug/g	99	70-130	124	70-130	12	0-20
416113	Lead	<1 ug/g	98	70-130	91	70-130	0	0-20

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Project: 02112512.000  
COC #: 885363

### Quality Assurance Summary

Batch No	Analyte	Blank	QC % Rec	QC Limits	Spike % Rec	Spike Limits	Dup % RPD	Duplicate Limits
416113	Antimony	<1 ug/g	84	70-130	88	70-130	0	0-20
416113	Selenium	<0.5 ug/g	106	70-130	104	70-130	0	0-20
416113	Thallium	<1 ug/g	98	70-130	89	70-130	0	0-20
416113	Uranium	<0.5 ug/g	102	70-130	99	70-130	0	0-20
416113	Vanadium	<2 ug/g	101	70-130	181	70-130	10	0-20
416113	Zinc	<2 ug/g	103	70-130	152	70-130	12	0-20
416116	Tetrachloroethane, 1,1,1,2-	<0.05 ug/g	89	60-130	90	50-140	0	0-50
416116	Trichloroethane, 1,1,1-	<0.05 ug/g	93	60-130	98	50-140	0	0-50
416116	Tetrachloroethane, 1,1,2,2-	<0.05 ug/g	97	60-130	91	50-140	0	0-30
416116	Trichloroethane, 1,1,2-	<0.05 ug/g	94	60-130	90	50-140	0	0-50
416116	Dichloroethane, 1,1-	<0.05 ug/g	95	60-130	101	50-140	0	0-50
416116	Dichloroethylene, 1,1-	<0.05 ug/g	96	60-130	101	50-140	0	0-50
416116	Dichlorobenzene, 1,2-	<0.05 ug/g	90	60-130	93	50-140	0	0-50
416116	Dichloroethane, 1,2-	<0.05 ug/g	98	60-130	95	50-140	0	0-50
416116	Dichloropropane, 1,2-	<0.05 ug/g	92	60-130	95	50-140	0	0-50
416116	Dichlorobenzene, 1,3-	<0.05 ug/g	89	60-130	94	50-140	0	0-50
416116	Dichloropropene, 1,3-	<0.05 ug/g						
416116	Dichlorobenzene, 1,4-	<0.05 ug/g	90	60-130	95	50-140	0	0-50
416116	Acetone	<0.50 ug/g	104	60-130	108	50-140	0	0-50
416116	Benzene	<0.0068	94	60-130	100	50-140	0	0-50
416116	Bromodichloromethane	<0.05 ug/g	92	60-130	92	50-140	0	0-50
416116	Bromoform	<0.05 ug/g	88	60-130	80	50-140	0	0-50
416116	Bromomethane	<0.05 ug/g	109	60-130	99	50-140	0	0-50
416116	Dichloroethylene, 1,2-cis-	<0.05 ug/g	93	60-130	98	50-140	0	0-50
416116	Dichloropropene, 1,3-cis-	<0.05 ug/g	84	60-130	89	50-140	0	0-50
416116	Carbon Tetrachloride	<0.05 ug/g	91	60-130	94	50-140	0	0-50
416116	Chloroform	<0.05 ug/g	94	60-130	97	50-140	0	0-50
416116	Dibromochloromethane	<0.05 ug/g	90	60-130	86	50-140	0	0-50
416116	Dichlorodifluoromethane	<0.05 ug/g	108	60-130	113	50-140	0	0-50
416116	Methylene Chloride	<0.05 ug/g	112	60-130	117	50-140	0	0-50
416116	Ethylbenzene	<0.018 ug/g	95	60-130	101	50-140	0	0-50
416116	Ethylene dibromide	<0.05 ug/g	90	60-130	86	50-140	0	0-50
416116	Hexane (n)	<0.05 ug/g	101	60-130	103	50-140	0	0-50

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### Quality Assurance Summary

Batch No	Analyte	Blank	QC % Rec	QC Limits	Spike % Rec	Spike Limits	Dup % RPD	Duplicate Limits
416116	Xylene, m/p-	<0.05 ug/g	98	60-130	105	50-140	0	0-50
416116	Methyl Ethyl Ketone	<0.50 ug/g	82	60-130	118	50-140	0	0-50
416116	Methyl Isobutyl Ketone	<0.50 ug/g	84	60-130	90	50-140	0	0-50
416116	Methyl tert-Butyl Ether (MTBE)	<0.05 ug/g	96	60-130	95	50-140	0	0-50
416116	Chlorobenzene	<0.05 ug/g	91	60-130	95	50-140	0	0-50
416116	Xylene, o-	<0.05 ug/g	92	60-130	98	50-140	0	0-50
416116	Styrene	<0.05 ug/g	90	60-130	93	50-140	0	0-50
416116	Dichloroethylene, 1,2-trans-	<0.05 ug/g	95	60-130	102	50-140	0	0-50
416116	Dichloropropene, 1,3-trans-	<0.05 ug/g	87	60-130	84	50-140	0	0-50
416116	Tetrachloroethylene	<0.05 ug/g	85	60-130	90	50-140	0	0-50
416116	Toluene	<0.08 ug/g	94	60-130	100	50-140	0	0-50
416116	Trichloroethylene	<0.01 ug/g	89	60-130	96	50-140	0	0-50
416116	Trichlorofluoromethane	<0.05 ug/g	96	60-130	90	50-140	0	0-50
416116	Vinyl Chloride	<0.02 ug/g	96	60-130	110	50-140	0	0-50
416119	Xylene Mixture							
416120	PHC's F1	<10 ug/g	100	80-120	104	60-140	0	0-30
416121	PHC's F1-BTEX							
416128	Boron (Hot Water Soluble)	<0.5 ug/g	85	70-130	96	75-125	0	0-30
416131	Cyanide (CN-)	<0.005 ug/g	110	75-125	103	70-130	0	0-20
416160	PHC's F2	<2 ug/g	112	80-120	75	60-140	0	0-30
416160	PHC's F3	<20 ug/g	112	80-120	75	60-140	0	0-30
416160	PHC's F4	<20 ug/g	112	80-120	75	60-140	0	0-30
416160	Moisture-Humidite	<0.1 %	100	80-120			7	
416170	1+2-methylnaphthalene							
416206	Aroclor 1242	<0.02 ug/g	86	60-140	72	60-140	0	0-40
416206	Aroclor 1248	<0.02 ug/g	86	60-140	72	60-140	0	0-40
416206	Aroclor 1254	<0.02 ug/g	86	60-140	72	60-140	0	0-40
416206	Aroclor 1260	<0.02 ug/g	86	60-140	72	60-140	0	0-40
416206	Polychlorinated Biphenyls	<0.02 ug/g	86	60-140	72	60-140	0	0-40
416232	Chlordane, alpha-	<0.002 ug/g	64	50-140		50-140		0-40
416232	Aldrin	<0.002 ug/g	63	50-140		50-140		0-40
416232	Chlordane	<0.006 ug/g						
416232	Dieldrin	<0.002 ug/g	63	50-140		50-140		0-40

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Report Number: 1970461  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-28  
Project: 02112512.000  
COC #: 885363

### Quality Assurance Summary

Batch No	Analyte	Blank	QC % Rec	QC Limits	Spike % Rec	Spike Limits	Dup % RPD	Duplicate Limits
416232	Endosulfan	<0.004 ug/g						
416232	Endosulfan I	<0.002 ug/g	64	50-140		50-140		0-40
416232	Endosulfan II	<0.002 ug/g	64	50-140		50-140		0-40
416232	Endrin	<0.002 ug/g	64	50-140		50-140		0-40
416232	Hexachlorocyclohexane Gamma-	<0.002 ug/g	62	50-140		50-140		0-40
416232	Chlordane, gamma-	<0.002 ug/g	65	50-140		50-140		0-40
416232	Heptachlor	<0.002 ug/g	63	50-140		50-140		0-40
416232	Heptachlor Epoxide	<0.002 ug/g	65	50-140		50-140		0-40
416232	Hexachlorobenzene	<0.002 ug/g	102	50-140		50-140		0-40
416232	Hexachlorobutadiene	<0.002 ug/g	95					
416232	Hexachloroethane	<0.002 ug/g	93					
416232	Methoxychlor	<0.002 ug/g	68	50-140		50-140		0-40
416232	DDD	<0.002 ug/g	64	50-140		50-140		0-40
416232	DDE	<0.002 ug/g	66	50-140		50-140		0-40
416232	DDT	<0.002 ug/g	65	50-140		50-140		0-40
416272	Electrical Conductivity	<0.05	99	90-110			1	0-10
416275	Chromium VI	<0.20 ug/g	102	80-120	88	70-130	0	0-35
416286	Sodium Adsorption Ratio	<0.01					2	

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Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970461  
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### Test Summary

Batch No	Analyte	Instrument	Preparation Date	Analysis Date	Analyst	Method
415963	Methlynaphthalene, 1-	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Methlynaphthalene, 2-	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Acenaphthene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Acenaphthylene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Anthracene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Benz[a]anthracene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Benzo[a]pyrene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Benzo[b]fluoranthene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Benzo[ghi]perylene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Benzo[k]fluoranthene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Chrysene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Dibenz[a h]anthracene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Fluoranthene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Fluorene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Indeno[1 2 3-cd]pyrene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Naphthalene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Phenanthrene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
415963	Pyrene	GC-MS	2022-01-26	2022-01-26	C_M	P 8270
416090	pH - CaCl2	pH Meter	2022-01-26	2022-01-26	IP	Ag Soil
416113	Silver	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Arsenic	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Boron (total)	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Barium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Beryllium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Cadmium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Cobalt	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Chromium Total	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Copper	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Mercury	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Molybdenum	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Nickel	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Lead	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020

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1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970461  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-28  
Project: 02112512.000  
COC #: 885363

### Test Summary

Batch No	Analyte	Instrument	Preparation Date	Analysis Date	Analyst	Method
416113	Antimony	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Selenium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Thallium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Uranium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Vanadium	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416113	Zinc	ICAPQ-MS	2022-01-26	2022-01-26	SD	EPA 200.8/6020
416116	Tetrachloroethane, 1,1,1,2-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Trichloroethane, 1,1,1-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Tetrachloroethane, 1,1,2,2-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Trichloroethane, 1,1,2-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dichloroethane, 1,1-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dichloroethylene, 1,1-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dichlorobenzene, 1,2-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dichloroethane, 1,2-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dichloropropane, 1,2-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dichlorobenzene, 1,3-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dichloropropene, 1,3-	GC-MS	2022-01-26	2022-01-26	YH	V 8260B
416116	Dichlorobenzene, 1,4-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Acetone	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Benzene	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Bromodichloromethane	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Bromoform	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Bromomethane	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dichloroethylene, 1,2-cis-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dichloropropene, 1,3-cis-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Carbon Tetrachloride	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Chloroform	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dibromochloromethane	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dichlorodifluoromethane	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Methylene Chloride	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Ethylbenzene	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Ethylene dibromide	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Hexane (n)	GC-MS	2022-01-25	2022-01-26	YH	V 8260B

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1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
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PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970461  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-28  
Project: 02112512.000  
COC #: 885363

### Test Summary

Batch No	Analyte	Instrument	Preparation Date	Analysis Date	Analyst	Method
416116	Xylene, m/p-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Methyl Ethyl Ketone	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Methyl Isobutyl Ketone	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Methyl tert-Butyl Ether (MTBE)	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Chlorobenzene	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Xylene, o-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Styrene	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dichloroethylene, 1,2-trans-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Dichloropropene, 1,3-trans-	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Tetrachloroethylene	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Toluene	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Trichloroethylene	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Trichlorofluoromethane	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416116	Vinyl Chloride	GC-MS	2022-01-25	2022-01-26	YH	V 8260B
416119	Xylene Mixture	GC-MS	2022-01-26	2022-01-26	YH	V 8260B
416120	PHC's F1	GC/FID	2022-01-26	2022-01-26	YH	CCME
416121	PHC's F1-BTEX	GC/FID	2022-01-26	2022-01-26	YH	CCME
416128	Boron (Hot Water Soluble)	iCAP OES	2022-01-26	2022-01-26	Z_S	MOECC E3470
416131	Cyanide (CN-)	Skalar CN Analyzer	2022-01-26	2022-01-26	Z_S	MOECC E3015
416160	PHC's F2	GC/FID	2022-01-24	2022-01-27	R_G	CCME
416160	PHC's F3	GC/FID	2022-01-24	2022-01-27	R_G	CCME
416160	PHC's F4	GC/FID	2022-01-24	2022-01-27	R_G	CCME
416160	Moisture-Humidity	Oven	2022-01-24	2022-01-27	R_G	ASTM 2216
416170	1+2-methylnaphthalene	GC-MS	2022-01-27	2022-01-27	C_M	P 8270
416206	Aroclor 1242	GC/ECD	2022-01-25	2022-01-26	QL	EPA 8081B/8082A
416206	Aroclor 1248	GC/ECD	2022-01-25	2022-01-26	QL	EPA 8081B/8082A
416206	Aroclor 1254	GC/ECD	2022-01-25	2022-01-26	QL	EPA 8081B/8082A
416206	Aroclor 1260	GC/ECD	2022-01-25	2022-01-26	QL	EPA 8081B/8082A
416206	Polychlorinated Biphenyls	GC/ECD	2022-01-25	2022-01-26	QL	EPA 8081B/8082A
416232	Chlordane, alpha-	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Aldrin	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Chlordane	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Dieldrin	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A

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### Test Summary

Batch No	Analyte	Instrument	Preparation Date	Analysis Date	Analyst	Method
416232	Endosulfan	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Endosulfan I	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Endosulfan II	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Endrin	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Hexachlorocyclohexane Gamma-	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Chlordane, gamma-	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Heptachlor	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Heptachlor Epoxide	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Hexachlorobenzene	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Hexachlorobutadiene	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Hexachloroethane	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	Methoxychlor	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	DDD	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	DDE	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416232	DDT	GC/ECD	2022-01-27	2022-01-28	QL	EPA 8081B/8082A
416272	Electrical Conductivity	Electrical Conductivity Meter	2022-01-28	2022-01-28	Z_S	Cond-Soil
416275	Chromium VI	FAA	2022-01-28	2022-01-28	MW	M US EPA 3060A
416286	Sodium Adsorption Ratio	iCAP OES	2022-01-28	2022-01-28	Z_S	Ag Soil

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**Environment Testing**

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
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**CWS for Petroleum Hydrocarbons in Soil - Tier 1****Notes:**

1. The laboratory method complies with CCME Tier 1 reference method for PHC in soil. It is validated for laboratory use.
2. Where the F1 fraction (C6 to C10) and BTEX are both measured, F1-BTEX is reported.
3. Where the F2 fraction (C10 to C16) and naphthalene are both measured, F2-naphthalene is reported.
4. Where the F3 fraction (C16 to C34) and PAHs\* are both measured, F3-PAH is reported.
5. F4G is analyzed if the chromatogram does not descend to baseline before C50. Where F4 (C34 to C50) and F4G are both reported, the higher result is compared to the standard.
6. Unless otherwise stated in the sample comments, the following criteria have been met where applicable:
  - nC6 and nC10 response factors within 30% of response factor for toluene;
  - nC10, nC16, and nC34 response factors within 10% of each other;
  - C50 response factors within 70% of nC10 + nC16 + nC34 average; and,
  - Linearity is within 15%.
7. Unless otherwise stated in the sample comments, sampling requirements and analytical holding times have been met.
8. Gravimetric heavy hydrocarbons (F4G) cannot be added to the C6 and C50 hydrocarbons.
9. \*PAHs = phenanthrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene and pyrene.



## Certificate of Analysis

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970194  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-27  
Project: 02112512.000  
COC #: 883644

Page 1 of 7

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**Dear Nan Du:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

APPROVAL: \_\_\_\_\_

Addrine Thomas, Inorganics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: <http://www.cala.ca/scopes/2602.pdf>.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official provincial or federal guideline as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

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Report Number: 1970194  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-27  
Project: 02112512.000  
COC #: 883644

					1606080 R347  2022-01-14 BH1-1	1606081 R347  2022-01-13 BH8-1	1606082 R347  2022-01-13 BH12-1
Group	Analyte	MRL	Units	Guideline			
Leachate	REG 558 Leach				Y	y	y
	Zero Headspace Extraction				y	y	y
Mercury	Hg	0.001	mg/L	LQC 0.1	<0.001	<0.001	<0.001
Metals	Ag	0.01	mg/L	LQC 5	<0.01	<0.01	<0.01
	As	0.02	mg/L	LQC 2.5	<0.02	<0.02	<0.02
	B	0.1	mg/L	LQC 500.0	<0.1	<0.1	<0.1
	Ba	0.01	mg/L	LQC 100.0	0.61	0.23	0.58
	Cd	0.008	mg/L	LQC 0.5	<0.008	<0.008	<0.008
	Cr	0.05	mg/L	LQC 5.0	<0.05	<0.05	<0.05
	Pb	0.01	mg/L	LQC 5.0	0.01	<0.01	0.01
	Se	0.02	mg/L	LQC 1.0	<0.02	<0.02	<0.02
	U	0.01	mg/L	LQC 10.0	<0.01	<0.01	<0.01
Moisture	Moisture-Humidite	0.1	%		6.3	14.6	15.0
Others	Ignitability				neg	neg	neg
PAH	Benzo(a)pyrene	0.01	ug/L	LQC 1.0	<0.01	<0.01	<0.01
VOCs Surrogates	1,2-dichloroethane-d4	0	%		112	128	119
	4-bromofluorobenzene	0	%		80	87	93
	Toluene-d8	0	%		112	118	130
Volatiles	1,1-dichloroethylene	0.5	ug/L	LQC 1400	<0.5	<0.5	<0.5
	1,2-dichlorobenzene	0.4	ug/L	LQC 20000	<0.4	<0.4	<0.4
	1,2-dichloroethane	0.2	ug/L	LQC 500	<0.2	<0.2	<0.2
	1,4-dichlorobenzene	0.4	ug/L	LQC 500	<0.4	<0.4	<0.4
	Benzene	0.5	ug/L	LQC 500	<0.5	<0.5	<0.5
	Carbon Tetrachloride	0.2	ug/L	LQC 500	<0.2	<0.2	<0.2
	Chloroform	0.5	ug/L	LQC 10000	<0.5	0.6	0.6

**Guideline = REG 558**

**\* = Guideline Exceedence**

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## Certificate of Analysis

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970194  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-27  
Project: 02112512.000  
COC #: 883644

					1606080 R347 2022-01-14 BH1-1	1606081 R347 2022-01-13 BH8-1	1606082 R347 2022-01-13 BH12-1
Group	Analyte	MRL	Units	Guideline			
Volatiles	Dichloromethane	4.0	ug/L	LQC 5000	<4.0	<4.0	<4.0
	Methyl Ethyl Ketone (MEK)	10	ug/L	LQC 200000	<10	<10	<10
	Monochlorobenzene	0.5	ug/L	LQC 8000	<0.5	<0.5	<0.5
	Tetrachloroethylene	0.3	ug/L	LQC 3000	<0.3	<0.3	<0.3
	Trichloroethylene	0.3	ug/L	LQC 5000	<0.3	<0.3	<0.3
	Vinyl Chloride	0.2	ug/L	LQC 200	<0.2	<0.2	<0.2

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## QC Summary

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 415344 <b>Analysis/Extraction Date</b> 2022-01-27 <b>Analyst</b> C M <b>Method</b> P 8270			
Benzo[a]pyrene	<0.01 ug/L	95	50-140
<b>Run No</b> 415813 <b>Analysis/Extraction Date</b> 2022-01-21 <b>Analyst</b> AsA <b>Method</b> SW1030			
Ignitability			
<b>Run No</b> 415970 <b>Analysis/Extraction Date</b> 2022-01-25 <b>Analyst</b> AsA <b>Method</b> EPA 1311/O. Reg 347			
REG 558 Leach			
Zero Headspace Extraction			
<b>Run No</b> 415973 <b>Analysis/Extraction Date</b> 2022-01-24 <b>Analyst</b> AsA <b>Method</b> ASTM 2216			
Moisture-Humidite			80-120
<b>Run No</b> 416042 <b>Analysis/Extraction Date</b> 2022-01-26 <b>Analyst</b> AA <b>Method</b> EPA 1311/O. Reg 347			
REG 558 Leach			
<b>Run No</b> 416104 <b>Analysis/Extraction Date</b> 2022-01-25 <b>Analyst</b> YH <b>Method</b> EPA 8260			
Dichloroethylene, 1,1-	<0.5 ug/L	93	60-130

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**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
Dichlorobenzene, 1,2-	<0.4 ug/L	82	60-130
Dichloroethane, 1,2-	<0.2 ug/L	97	60-130
Dichlorobenzene, 1,4-	<0.4 ug/L	85	60-130
Benzene	<0.5 ug/L	88	60-130
Carbon Tetrachloride	<0.2 ug/L	90	60-130
Chloroform	<0.5 ug/L	90	60-130
Methylene Chloride	<4.0 ug/L	117	60-130
Methyl Ethyl Ketone	<10 ug/L	100	60-130
Chlorobenzene	<0.5 ug/L	99	60-130
Tetrachloroethylene	<0.3 ug/L	81	60-130
Trichloroethylene	<0.3 ug/L	88	60-130
Vinyl Chloride	<0.2 ug/L	89	60-130
<b>Run No</b> 416136 <b>Analysis/Extraction Date</b> 2022-01-26 <b>Analyst</b> AaN <b>Method</b> M SM3112B-3500B			
Mercury	<0.001 mg/L	119	76-123
<b>Run No</b> 416142 <b>Analysis/Extraction Date</b> 2022-01-26 <b>Analyst</b> AaN <b>Method</b> EPA 200.8			
Silver	<0.01 mg/L	100	70-130

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### QC Summary

Analyte	Blank	QC % Rec	QC Limits
Arsenic	<0.02 mg/L	98	70-130
Boron (total)	<0.1 mg/L	77	70-130
Barium	<0.01 mg/L	95	70-130
Cadmium	<0.008 mg/L	104	70-130
Chromium Total	<0.05 mg/L	100	70-130
Lead	<0.01 mg/L	94	70-130
Selenium	<0.02 mg/L	107	70-130
Uranium	<0.01 mg/L	94	70-130
<b>Run No</b> 416195 <b>Analysis/Extraction Date</b> 2022-01-27 <b>Analyst</b> SD <b>Method</b> EPA 200.8			
Silver	<0.01 mg/L	110	70-130
Arsenic	<0.02 mg/L	106	70-130
Boron (total)	<0.1 mg/L	88	70-130
Barium	<0.01 mg/L	107	70-130
Cadmium	<0.008 mg/L	112	70-130
Chromium Total	<0.05 mg/L	110	70-130
Lead	<0.01 mg/L	103	70-130
Selenium	<0.02 mg/L	105	70-130

Guideline = REG 558

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***QC Summary***

Analyte	Blank	QC % Rec	QC Limits
Uranium	<0.01 mg/L	97	70-130

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Page 1 of 7

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**Dear Nan Du:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

APPROVAL: \_\_\_\_\_

Addrine Thomas, Inorganics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: <http://www.cala.ca/scopes/2602.pdf>.

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Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official provincial or federal guideline as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.



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Report Number: 1970204  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-28  
Project: 02112512.000  
COC #: 883644

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1606110 SPLP  2022-01-14 BH1-1	1606111 SPLP  2022-01-13 BH8-2	1606112 SPLP  2022-01-13 BH9-3	1606113 SPLP  2022-01-13 BH10-1
Group	Analyte	MRL	Units	Guideline					
Metals	Ag	0.0001	mg/L	STD 0.3		0.0003	0.0001	0.0002	0.0004
	B	0.01	mg/L			0.04	0.01	0.01	0.07
	Ba	0.01	mg/L			0.07	0.03	<0.01	0.25
	Be	0.002	mg/L			<0.002	<0.002	<0.002	<0.002
	Co	0.0002	mg/L			0.0026	<0.0002	0.0004	0.0099
	Cr	0.001	mg/L			0.017	<0.001	0.001	0.050
	Cu	0.001	mg/L			0.020	<0.001	0.003	0.059
	Mo	0.005	mg/L	STD 23		<0.005	<0.005	<0.005	<0.005
	Ni	0.005	mg/L			0.009	<0.005	<0.005	0.038
	Sb	0.0005	mg/L			0.0007	<0.0005	<0.0005	<0.0005
	Se	0.001	mg/L			0.003	<0.001	<0.001	0.010
	Tl	0.0001	mg/L	STD 2		0.0001	<0.0001	<0.0001	0.0004
	U	0.001	mg/L			<0.001	<0.001	<0.001	0.002
	Zn	0.01	mg/L			0.03	<0.01	<0.01	0.10
Moisture	Moisture-Humidite	0.1	%			6.6	11.3	14.4	17.4
Semi-Volatiles	2,4 & 2,6 Dinitrotoluene	5	ug/L	STD 5				<5	
	2,4-dinitrophenol	2.5	ug/L	STD 10				<2.5	
	2,4-dinitrotoluene	0.3	ug/L					<0.3	
	2,6-dinitrotoluene	0.3	ug/L					<0.3	
	3,3'-dichlorobenzidene	0.5	ug/L	STD 0.5				<0.5	
	Bis(2-chloroethyl)ether	0.8	ug/L	STD 5				<0.8	
	Bis(2-chloroisopropyl)ether	0.5	ug/L	STD 4				<0.5	
	Diethyl Phthalate	0.2	ug/L	STD 2				0.2	
	Dimethyl Phthalate	0.2	ug/L	STD 2				<0.2	
	p-Chloroaniline	0.2	ug/L	STD 10				<0.2	

**Guideline = Excess Soil-Leach T1-Res/Park/Inst & In**

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Project: 02112512.000  
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Group	Analyte	MRL	Units	Guideline					
SPLP	SPLP Extraction				y	y	y	y	
	Zero Headspace Extraction				y		y		
VOCs Surrogates	1,2-dichloroethane-d4	0	%		126		114		
	4-bromofluorobenzene	0	%		81		81		
	Toluene-d8	0	%		124		126		
Volatiles	1,1,1,2-tetrachloroethane	0.5	ug/L	STD 0.5	<0.5		<0.5		
	1,1,2,2-tetrachloroethane	0.5	ug/L	STD 0.5	<0.5		<0.5		
	1,1,2-trichloroethane	0.4	ug/L	STD 0.5	<0.4		<0.4		
	1,1-dichloroethane	0.4	ug/L	STD 0.5	<0.4		<0.4		
	1,1-dichloroethylene	0.5	ug/L	STD 0.5	<0.5		<0.5		
	1,2-dichlorobenzene	0.4	ug/L	STD 0.55	<0.4		<0.4		
	1,2-dichloroethane	0.2	ug/L	STD 0.5	<0.2		<0.2		
	1,2-dichloropropane	0.5	ug/L	STD 0.5	<0.5		<0.5		
	1,3-Dichloropropylene (cis+trans)	0.3	ug/L	STD 0.5	<0.3		<0.3		
	1,4-dichlorobenzene	0.4	ug/L	STD 0.5	<0.4		<0.4		
	Bromomethane	0.5	ug/L	STD 0.5	<0.5		<0.5		
	c-1,2-Dichloroethylene	0.4	ug/L	STD 0.5	<0.4		<0.4		
	c-1,3-Dichloropropylene	0.2	ug/L		<0.2		<0.2		
	Carbon Tetrachloride	0.2	ug/L	STD 0.2	<0.2		<0.2		
	Chloroform	0.5	ug/L	STD 1	<0.5		<0.5		
	Ethylene Dibromide	0.2	ug/L	STD 0.2	<0.2		<0.2		
	t-1,2-Dichloroethylene	0.4	ug/L	STD 0.5	<0.4		<0.4		
	t-1,3-Dichloropropylene	0.2	ug/L		<0.2		<0.2		
	Tetrachloroethylene	0.3	ug/L	STD 0.5	<0.3		<0.3		
	Trichloroethylene	0.3	ug/L	STD 0.5	<0.3		<0.3		

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## QC Summary

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 208523 <b>Analysis/Extraction Date</b> 2022-01-28 <b>Analyst</b> C M <b>Method</b> B 625/P 8270			
2,4 & 2,6 Dinitrotoluene			
<b>Run No</b> 415525 <b>Analysis/Extraction Date</b> 2022-01-28 <b>Analyst</b> C M <b>Method</b> B 625/P 8270			
Dinitrophenol, 2,4-	<2.5 ug/L	59	20-150
<b>Run No</b> 415526 <b>Analysis/Extraction Date</b> 2022-01-28 <b>Analyst</b> C M <b>Method</b> B 625/P 8270			
Dinitrotoluene, 2,4-	<0.3 ug/L		20-140
Dinitrotoluene, 2,6-	<0.3 ug/L		20-140
Dichlorobenzidine, 3,3'-	<0.5 ug/L		20-140
Bis(2-chloroethyl)ether	<0.8 ug/L		20-140
Bis(2-chloroisopropyl)ether	<0.5 ug/L		20-140
Diethyl Phthalate	<0.2 ug/L		20-140
Dimethylphthalate	<0.2 ug/L		20-140
Chloroaniline p-	<0.2 ug/L		20-140
<b>Run No</b> 415971 <b>Analysis/Extraction Date</b> 2022-01-25 <b>Analyst</b> AsA <b>Method</b> mSPLP E9003/EPA 1312			
SPLP Extraction			

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**QC Summary**

Analyte	Blank	QC % Rec	QC Limits
Zero Headspace Extraction			
<b>Run No</b> 415973 <b>Analysis/Extraction Date</b> 2022-01-24 <b>Analyst</b> AsA <b>Method</b> ASTM 2216			
Moisture-Humidite			80-120
<b>Run No</b> 416023 <b>Analysis/Extraction Date</b> 2022-01-25 <b>Analyst</b> YH <b>Method</b> EPA 8260			
Tetrachloroethane, 1,1,1,2-	<0.5 ug/L	86	60-130
Tetrachloroethane, 1,1,2,2-	<0.5 ug/L	100	60-130
Trichloroethane, 1,1,2-	<0.4 ug/L	105	60-130
Dichloroethane, 1,1-	<0.4 ug/L	91	60-130
Dichloroethylene, 1,1-	<0.5 ug/L	93	60-130
Dichlorobenzene, 1,2-	<0.4 ug/L	82	60-130
Dichloroethane, 1,2-	<0.2 ug/L	97	60-130
Dichloropropane, 1,2-	<0.5 ug/L	88	60-130
Dichloropropene, 1,3-	<0.3 ug/L		
Dichlorobenzene, 1,4-	<0.4 ug/L	85	60-130
Bromomethane	<0.5 ug/L	91	60-130
Dichloroethylene, 1,2-cis-	<0.4 ug/L	87	60-130

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## QC Summary

Analyte	Blank	QC % Rec	QC Limits
Dichloropropene, 1,3-cis-	<0.2 ug/L	81	60-130
Carbon Tetrachloride	<0.2 ug/L	90	60-130
Chloroform	<0.5 ug/L	90	60-130
Ethylene dibromide	<0.2 ug/L	100	60-130
Dichloroethylene, 1,2-trans-	<0.4 ug/L	85	60-130
Dichloropropene, 1,3-trans-	<0.2 ug/L	84	60-130
Tetrachloroethylene	<0.3 ug/L	81	60-130
Trichloroethylene	<0.3 ug/L	88	60-130
<b>Run No</b> 416058 <b>Analysis/Extraction Date</b> 2022-01-25 <b>Analyst</b> SD <b>Method</b> EPA 200.8			
Silver	<0.0001 mg/L	107	80-120
Boron (total)	<0.01 mg/L	118	80-120
Barium	<0.01 mg/L	109	80-120
Cobalt	<0.0002 mg/L	118	80-120
Chromium Total	<0.001 mg/L	119	80-120
Copper	<0.001 mg/L	116	80-120
Molybdenum	<0.005 mg/L	110	80-120
Nickel	<0.005 mg/L	112	80-120

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Invoice to: EnGlobe Corp.

Report Number: 1970204  
Date Submitted: 2022-01-17  
Date Reported: 2022-01-28  
Project: 02112512.000  
COC #: 883644

### QC Summary

Analyte	Blank	QC % Rec	QC Limits
Antimony	<0.0005 mg/L	94	80-120
Selenium	<0.001 mg/L	107	80-120
Thallium	<0.0001 mg/L	110	80-120
Uranium	<0.001 mg/L	108	80-120
Zinc	<0.01 mg/L	112	80-120
<b>Run No</b> 416128 <b>Analysis/Extraction Date</b> 2022-01-26 <b>Analyst</b> Z S <b>Method</b> M SM3120B-3500C			
Beryllium	<0.002 mg/L	97	89-111

**Guideline = Excess Soil-Leach T1-Res/Park/Inst & In**

**\* = Guideline Exceedence**

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MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range



**Certificate of Analysis**

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970463  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-28  
Project: 02112512.000  
COC #: 885363

Page 1 of 4

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**Dear Nan Du:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

APPROVAL:

---

Long Qu, Organics Supervisor

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: <http://www.cala.ca/scopes/2602.pdf>.

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# Certificate of Analysis

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970463  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-28  
Project: 02112512.000  
COC #: 885363

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1606849 SPLP  2022-01-21 BH3-1	1606850 SPLP  2022-01-21 BH16-1
Group	Analyte	MRL	Units	Guideline			
Metals	Ag	0.0001	mg/L	STD 0.3		<0.0001	
	B	0.01	mg/L			0.07	
	Ba	0.01	mg/L			0.22	
	Be	0.002	mg/L			<0.002	
	Co	0.0002	mg/L			0.0106	
	Cr	0.001	mg/L			0.060	
	Cu	0.001	mg/L			0.067	
	Mo	0.005	mg/L	STD 23		<0.005	
	Ni	0.005	mg/L			0.046	
	Sb	0.0005	mg/L			<0.0005	
	Se	0.001	mg/L			0.016	
	Tl	0.0001	mg/L	STD 2		0.0003	
	U	0.001	mg/L			0.002	
	Zn	0.01	mg/L			0.11	
Moisture	Moisture-Humidite	0.1	%			17.5	
OCP/PCB	Dieldrin	0.006	ug/L	STD 0.095			<0.006
	Endrin	0.006	ug/L	STD 0.061			<0.006
	Heptachlor	0.006	ug/L	STD 0.01			<0.006
	Heptachlor epoxide	0.006	ug/L	STD 0.01			<0.006
SPLP	SPLP Extraction					y	y

**Guideline = Excess Soil-Leach T1-Res/Park/Inst & In**

**\* = Guideline Exceedence**

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# Certificate of Analysis

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970463  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-28  
Project: 02112512.000  
COC #: 885363

## QC Summary

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 416166 <b>Analysis/Extraction Date</b> 2022-01-27 <b>Analyst</b> AsA <b>Method</b> mSPLP E9003/EPA 1312			
SPLP Extraction			
<b>Run No</b> 416167 <b>Analysis/Extraction Date</b> 2022-01-26 <b>Analyst</b> AsA <b>Method</b> ASTM 2216			
Moisture-Humidite			80-120
<b>Run No</b> 416234 <b>Analysis/Extraction Date</b> 2022-01-28 <b>Analyst</b> QL <b>Method</b> EPA 8081B			
Dieldrin	<0.006 ug/L	63	50-140
Endrin	<0.006 ug/L	64	50-140
Heptachlor	<0.006 ug/L	63	50-140
Heptachlor Epoxide	<0.006 ug/L	65	50-140
<b>Run No</b> 416245 <b>Analysis/Extraction Date</b> 2022-01-28 <b>Analyst</b> SD <b>Method</b> EPA 200.8			
Silver	<0.0001 mg/L	113	80-120
Boron (total)	<0.01 mg/L	111	80-120
Barium	<0.01 mg/L	97	80-120
Cobalt	<0.0002 mg/L	107	80-120
Chromium Total	<0.001 mg/L	118	80-120

**Guideline = Excess Soil-Leach T1-Res/Park/Inst & In**

**\* = Guideline Exceedence**

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# Certificate of Analysis

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970463  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-28  
Project: 02112512.000  
COC #: 885363

## QC Summary

Analyte	Blank	QC % Rec	QC Limits
Copper	<0.001 mg/L	116	80-120
Molybdenum	<0.005 mg/L	101	80-120
Nickel	<0.005 mg/L	119	80-120
Antimony	<0.0005 mg/L	96	80-120
Selenium	<0.001 mg/L	100	80-120
Thallium	<0.0001 mg/L	102	80-120
Uranium	<0.001 mg/L	101	80-120
Zinc	<0.01 mg/L	106	80-120
<b>Run No</b> 416287 <b>Analysis/Extraction Date</b> 2022-01-28 <b>Analyst</b> Z S <b>Method</b> M SM3120B-3500C			
Beryllium	<0.002 mg/L	109	89-111

**Guideline = Excess Soil-Leach T1-Res/Park/Inst & In**

**\* = Guideline Exceedence**

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Methods references and/or additional QA/QC information available on request.

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Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970462  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-31  
Project: 02112512.000  
COC #: 885363

Page 1 of 8

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**Dear Nan Du:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

APPROVAL:

---

Addrine Thomas, Inorganics Supervisor

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Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970462  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-31  
Project: 02112512.000  
COC #: 885363

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1606846 R347  2022-01-21 BH3-2	1606848 R347  2022-01-21 BH15-1
Group	Analyte	MRL	Units	Guideline			
Leachate	REG 558 Leach				Y	y	
	Zero Headspace Extraction				Y	y	
Mercury	Hg	0.001	mg/L	LQC 0.1	<0.001	<0.001	
Metals	Ag	0.01	mg/L	LQC 5	<0.01	<0.01	
	As	0.02	mg/L	LQC 2.5	<0.02	<0.02	
	B	0.1	mg/L	LQC 500.0	<0.1	<0.1	
	Ba	0.01	mg/L	LQC 100.0	0.36	0.52	
	Cd	0.008	mg/L	LQC 0.5	<0.008	<0.008	
	Cr	0.05	mg/L	LQC 5.0	<0.05	<0.05	
	Pb	0.01	mg/L	LQC 5.0	<0.01	<0.01	
	Se	0.02	mg/L	LQC 1.0	<0.02	<0.02	
	U	0.01	mg/L	LQC 10.0	<0.01	<0.01	
Moisture	Moisture-Humidite	0.1	%		19.8	17.5	
Others	Ignitability				neg	neg	
PAH	Benzo(a)pyrene	0.01	ug/L	LQC 1.0	<0.01	<0.01	
PCBs	Polychlorinated Biphenyls (PCBs)	0.1	ug/L	LQC 300	<0.1		
VOCs Surrogates	1,2-dichloroethane-d4	0	%		128	121	
	4-bromofluorobenzene	0	%		72	73	
	Toluene-d8	0	%		110	119	
Volatiles	1,1-dichloroethylene	0.5	ug/L	LQC 1400	<0.5	<0.5	
	1,2-dichlorobenzene	0.4	ug/L	LQC 20000	<0.4	<0.4	
	1,2-dichloroethane	0.2	ug/L	LQC 500	<0.2	<0.2	
	1,4-dichlorobenzene	0.4	ug/L	LQC 500	<0.4	<0.4	
	Benzene	0.5	ug/L	LQC 500	<0.5	<0.5	
	Carbon Tetrachloride	0.2	ug/L	LQC 500	<0.2	<0.2	

**Guideline = REG 558**

**\* = Guideline Exceedence**

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## Certificate of Analysis

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970462  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-31  
Project: 02112512.000  
COC #: 885363

					Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1606846 R347  2022-01-21 BH3-2	1606848 R347  2022-01-21 BH15-1
Group	Analyte	MRL	Units	Guideline			
Volatiles	Chloroform	0.5	ug/L	LQC 10000	<0.5	<0.5	
	Dichloromethane	4.0	ug/L	LQC 5000	<4.0	<4.0	
	Methyl Ethyl Ketone (MEK)	10	ug/L	LQC 200000	<10	<10	
	Monochlorobenzene	0.5	ug/L	LQC 8000	<0.5	<0.5	
	Tetrachloroethylene	0.3	ug/L	LQC 3000	<0.3	<0.3	
	Trichloroethylene	0.3	ug/L	LQC 5000	<0.3	<0.3	
	Vinyl Chloride	0.2	ug/L	LQC 200	<0.2	<0.2	

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1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970462  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-31  
Project: 02112512.000  
COC #: 885363

## QC Summary

Analyte	Blank	QC % Rec	QC Limits
<b>Run No</b> 415344 <b>Analysis/Extraction Date</b> 2022-01-27 <b>Analyst</b> C M <b>Method</b> P 8270			
Benzo[a]pyrene	<0.01 ug/L	95	50-140
<b>Run No</b> 416042 <b>Analysis/Extraction Date</b> 2022-01-26 <b>Analyst</b> AA <b>Method</b> EPA 1311/O. Reg 347			
REG 558 Leach			
Zero Headspace Extraction			
<b>Run No</b> 416043 <b>Analysis/Extraction Date</b> 2022-01-25 <b>Analyst</b> AA <b>Method</b> ASTM 2216			
Moisture-Humidite			80-120
<b>Run No</b> 416157 <b>Analysis/Extraction Date</b> 2022-01-27 <b>Analyst</b> YH <b>Method</b> EPA 8260			
Dichloroethylene, 1,1-	<0.5 ug/L	93	60-130
Dichlorobenzene, 1,2-	<0.4 ug/L	82	60-130
Dichloroethane, 1,2-	<0.2 ug/L	97	60-130
Dichlorobenzene, 1,4-	<0.4 ug/L	85	60-130
Benzene	<0.5 ug/L	88	60-130
Carbon Tetrachloride	<0.2 ug/L	90	60-130
Chloroform	<0.5 ug/L	90	60-130

**Guideline = REG 558**

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Client: EnGlobe Corp. (Toronto)  
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Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970462  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-31  
Project: 02112512.000  
COC #: 885363

### QC Summary

Analyte	Blank	QC % Rec	QC Limits
Methylene Chloride	<4.0 ug/L	117	60-130
Methyl Ethyl Ketone	<10 ug/L	100	60-130
Chlorobenzene	<0.5 ug/L	99	60-130
Tetrachloroethylene	<0.3 ug/L	81	60-130
Trichloroethylene	<0.3 ug/L	88	60-130
Vinyl Chloride	<0.2 ug/L	89	60-130
<b>Run No</b> 416165 <b>Analysis/Extraction Date</b> 2022-01-27 <b>Analyst</b> AsA <b>Method</b> EPA 1311/O. Reg 347			
REG 558 Leach			
Zero Headspace Extraction			
<b>Run No</b> 416167 <b>Analysis/Extraction Date</b> 2022-01-26 <b>Analyst</b> AsA <b>Method</b> ASTM 2216			
Moisture-Humidite			80-120
<b>Run No</b> 416195 <b>Analysis/Extraction Date</b> 2022-01-27 <b>Analyst</b> SD <b>Method</b> EPA 200.8			
Silver	<0.01 mg/L	110	70-130
Arsenic	<0.02 mg/L	106	70-130
Boron (total)	<0.1 mg/L	88	70-130
Barium	<0.01 mg/L	107	70-130

**Guideline = REG 558**

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# Certificate of Analysis

Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970462  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-31  
Project: 02112512.000  
COC #: 885363

## QC Summary

Analyte	Blank	QC % Rec	QC Limits
Cadmium	<0.008 mg/L	112	70-130
Chromium Total	<0.05 mg/L	110	70-130
Lead	<0.01 mg/L	103	70-130
Selenium	<0.02 mg/L	105	70-130
Uranium	<0.01 mg/L	97	70-130
<b>Run No</b> 416196 <b>Analysis/Extraction Date</b> 2022-01-27 <b>Analyst</b> AaN <b>Method</b> M SM3112B-3500B			
Mercury	<0.001 mg/L	111	76-123
<b>Run No</b> 416233 <b>Analysis/Extraction Date</b> 2022-01-28 <b>Analyst</b> QL <b>Method</b> EPA 8081B			
Polychlorinated Biphenyls	<0.1 ug/L		60-140
<b>Run No</b> 416246 <b>Analysis/Extraction Date</b> 2022-01-28 <b>Analyst</b> AsA <b>Method</b> SW1030			
Ignitability			
<b>Run No</b> 416266 <b>Analysis/Extraction Date</b> 2022-01-28 <b>Analyst</b> SD <b>Method</b> EPA 200.8			
Silver	<0.01 mg/L	90	70-130
Arsenic	<0.02 mg/L	90	70-130
Boron (total)	<0.1 mg/L	92	70-130

**Guideline = REG 558**

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Toronto, ON  
M9W 5W8  
Attention: Mr. Nan Du  
PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970462  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-31  
Project: 02112512.000  
COC #: 885363

## QC Summary

Analyte	Blank	QC % Rec	QC Limits
Barium	<0.01 mg/L	86	70-130
Cadmium	<0.008 mg/L	94	70-130
Chromium Total	<0.05 mg/L	93	70-130
Lead	<0.01 mg/L	81	70-130
Selenium	<0.02 mg/L	86	70-130
Uranium	<0.01 mg/L	70	70-130
<b>Run No</b> 416318 <b>Analysis/Extraction Date</b> 2022-01-28 <b>Analyst</b> YH <b>Method</b> EPA 8260			
Dichloroethylene, 1,1-	<0.5 ug/L	93	60-130
Dichlorobenzene, 1,2-	<0.4 ug/L	82	60-130
Dichloroethane, 1,2-	<0.2 ug/L	97	60-130
Dichlorobenzene, 1,4-	<0.4 ug/L	85	60-130
Benzene	<0.5 ug/L	88	60-130
Carbon Tetrachloride	<0.2 ug/L	90	60-130
Chloroform	<0.5 ug/L	90	60-130
Methylene Chloride	<4.0 ug/L	117	60-130
Methyl Ethyl Ketone	<10 ug/L	100	60-130
Chlorobenzene	<0.5 ug/L	99	60-130

**Guideline = REG 558**

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Toronto, ON  
M9W 5W8  
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PO#:  
Invoice to: EnGlobe Corp.

Report Number: 1970462  
Date Submitted: 2022-01-21  
Date Reported: 2022-01-31  
Project: 02112512.000  
COC #: 885363

### QC Summary

Analyte	Blank	QC % Rec	QC Limits
Tetrachloroethylene	<0.3 ug/L	81	60-130
Trichloroethylene	<0.3 ug/L	88	60-130
Vinyl Chloride	<0.2 ug/L	89	60-130

Guideline = REG 558

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Client: EnGlobe Corp. (Toronto)  
1821 Albion Road, Unit 7  
Toronto, ON  
M9W 5W8  
Attention: Mr. Atiqur Rahman  
Invoice to: EnGlobe Corp.  
PO#:

Report Number: 1974901  
Date Submitted: 2022-04-08  
Date Reported: 2022-04-12  
Project: 02112512.000  
COC #: 887789  
Temperature (C): 22  
Custody Seal:

Page 1 of 7

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**Dear Atiqur Rahman:**

**Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).**

Report Comments:

---

Rebecca Koshy, Project Manager

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated

Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <http://www.cala.ca/scopes/2602.pdf>

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

Client: EnGlobe Corp. (Toronto)  
 1821 Albion Road, Unit 7  
 Toronto, ON  
 M9W 5W8  
 Attention: Mr. Atiqur Rahman  
 PO#:  
 Invoice to: EnGlobe Corp.

Report Number: 1974901  
 Date Submitted: 2022-04-08  
 Date Reported: 2022-04-12  
 Project: 02112512.000  
 COC #: 887789

### Excess Soil-Leach T2.1-Res/Park/Inst

#### Exceedence Summary

Sample I.D.	Analyte	Result	Units	Criteria
Metals				
BH10-SS1	Copper	38	ug/L	STD 14

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### Guideline = Excess Soil-Leach T2.1-Res/Park/Inst

#### Metals

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1618732 SPLP	1618733 SPLP	1618734 SPLP
2022-04-08	2022-04-08	2022-04-08
BH1-SS1	BH10-SS1	BH3-SS1

Analyte	Batch No	MRL	Units	Guideline	1618732 SPLP	1618733 SPLP	1618734 SPLP
Antimony	419971	0.5	ug/L	STD 6	0.5	0.6	<0.5
Barium	419971	10	ug/L	STD 1000	20	60	<10
Beryllium	419971	0.5	ug/L	STD 4	<0.5	0.8	<0.5
Boron (total)	419971	10	ug/L	STD 5000	40	100	<10
Cadmium	419971	0.1	ug/L		<0.1	0.1	<0.1
Chromium Total	419971	1	ug/L	STD 50	5	17	1
Cobalt	419971	0.2	ug/L	STD 3.8	0.7	2.2	0.2
Copper	419971	1	ug/L	STD 14	13	38*	2
Molybdenum	419971	5	ug/L	STD 23	<5	<5	<5
Nickel	419971	5	ug/L	STD 78	<5	12	<5
Selenium	419971	1	ug/L	STD 10	2	6	<1
Silver	419971	0.1	ug/L	STD 0.3	<0.1	<0.1	<0.1
Thallium	419971	0.1	ug/L	STD 2	<0.1	0.1	<0.1
Uranium	419971	1	ug/L	STD 20	<1	1	<1
Zinc	419971	10	ug/L	STD 180	10	50	<10

Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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### Guideline = Excess Soil-Leach T2.1-Res/Park/Inst

#### SPLP

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1618732 SPLP	1618733 SPLP	1618734 SPLP
2022-04-08	2022-04-08	2022-04-08
BH1-SS1	BH10-SS1	BH3-SS1

Analyte	Batch No	MRL	Units	Guideline
SPLP Extraction	419906			

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#### Moisture

Lab I.D.  
Sample Matrix  
Sample Type  
Sample Date  
Sampling Time  
Sample I.D.

1618732 SPLP	1618733 SPLP	1618734 SPLP
2022-04-08	2022-04-08	2022-04-08
BH1-SS1	BH10-SS1	BH3-SS1

Analyte	Batch No	MRL	Units	Guideline
Moisture-Humidite	419903	0.1	%	

					7.8	16.8	5.4
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### Quality Assurance Summary

Batch No	Analyte	Blank	QC % Rec	QC Limits	Spike % Rec	Spike Limits	Dup % RPD	Duplicate Limits
419903	Moisture-Humidite			80-120				
419906	SPLP Extraction							
419971	Silver	<0.1 ug/L	108	80-120	112	70-130	0	0-20
419971	Boron (total)	<10 ug/L	109	80-120	105	80-120	0	0-20
419971	Barium	<10 ug/L	104	80-120	88	70-130	0	0-20
419971	Beryllium	<0.5 ug/L	102	80-120	116	70-130	0	0-20
419971	Cadmium	<0.1 ug/L	104	80-120	117	70-130	0	0-20
419971	Cobalt	<0.2 ug/L	106	80-120	110	70-130	0	0-20
419971	Chromium Total	<1 ug/L	119	80-120	113	70-130	0	0-20
419971	Copper	<1 ug/L	112	80-120		70-130	1	0-20
419971	Molybdenum	<5 ug/L	103	80-120	107	70-130	0	0-20
419971	Nickel	<5 ug/L	111	80-120	111	70-130	0	0-20
419971	Antimony	<0.5 ug/L	92	80-120	90	70-130	0	0-20
419971	Selenium	<1 ug/L	100	80-120	127	70-130	0	0-20
419971	Thallium	<0.1 ug/L	104	80-120	104	70-130	0	0-20
419971	Uranium	<1 ug/L	102	80-120	106	70-130	0	0-20
419971	Zinc	<10 ug/L	108	80-120	71	70-130	0	0-20

Results relate only to the parameters tested on the samples submitted.  
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COC #: 887789

### Test Summary

Batch No	Analyte	Instrument	Preparation Date	Analysis Date	Analyst	Method
419903	Moisture-Humidite	Oven	2022-04-09	2022-04-09	NF	ASTM 2216
419906	SPLP Extraction		2022-04-11	2022-04-12	MW	mSPLP E9003/EPA 1312
419971	Silver	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Boron (total)	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Barium	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Beryllium	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Cadmium	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Cobalt	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Chromium Total	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Copper	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Molybdenum	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Nickel	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Antimony	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Selenium	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Thallium	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Uranium	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8
419971	Zinc	ICAPQ-MS	2022-04-12	2022-04-12	SD	EPA 200.8

Results relate only to the parameters tested on the samples submitted.  
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range



**Environment Testing**

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Report Number: 1974901  
Date Submitted: 2022-04-08  
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**CWS for Petroleum Hydrocarbons in Soil - Tier 1****Notes:**

1. The laboratory method complies with CCME Tier 1 reference method for PHC in soil. It is validated for laboratory use.
2. Where the F1 fraction (C6 to C10) and BTEX are both measured, F1-BTEX is reported.
3. Where the F2 fraction (C10 to C16) and naphthalene are both measured, F2-naphthalene is reported.
4. Where the F3 fraction (C16 to C34) and PAHs\* are both measured, F3-PAH is reported.
5. F4G is analyzed if the chromatogram does not descend to baseline before C50. Where F4 (C34 to C50) and F4G are both reported, the higher result is compared to the standard.
6. Unless otherwise stated in the sample comments, the following criteria have been met where applicable:
  - nC6 and nC10 response factors within 30% of response factor for toluene;
  - nC10, nC16, and nC34 response factors within 10% of each other;
  - C50 response factors within 70% of nC10 + nC16 + nC34 average; and,
  - Linearity is within 15%.
7. Unless otherwise stated in the sample comments, sampling requirements and analytical holding times have been met.
8. Gravimetric heavy hydrocarbons (F4G) cannot be added to the C6 and C50 hydrocarbons.
9. \*PAHs = phenanthrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-c,d)pyrene and pyrene.

CLIENT INFORMATION				INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES <input type="checkbox"/> NO <input type="checkbox"/> )														
Company: Englobe				Company: Englobe				Fax:										
Contact: FENG LZ				Contact: Atiqur Rahman				Email: #1: Atiqur.Rahman@englobecorp.com										
Address: 3397 American Drive. Mississauga. ON				Address: 1821 Albion Road. Toronto				Email: #2: Nan.Du@englobecorp.com										
Telephone: 877.300.4800		Cell: 437.991.6210		Telephone: 674.203.3219				PO #:										
Email: #1: FENG.LZ@Englobecorp.com				<b>REGULATION/GUIDELINE REQUIRED</b> <input type="checkbox"/> Sanitary Sewer, City: _____ <input type="checkbox"/> Storm Sewer, City: _____ <input type="checkbox"/> ODWSOG (Use DW CoC if analyzing drinking water) <input type="checkbox"/> PWQO <input checked="" type="checkbox"/> O.Reg 347 <input checked="" type="checkbox"/> Other: 153/04 and 406/19														
Email: #2: Nan.Du@Englobecorp.com																		
Project: 02112512.000		Quote #:		<input checked="" type="checkbox"/> O. Reg 153 The sample results from this submission will form part of a formal Record of Site Condition (RSC) under O.Reg. 153/04. Analysis of full parameter list only Yes <input type="checkbox"/> No <input type="checkbox"/> Table # 1~3 Coarse / Fine / Subsurface Type: Com-Ind / Res-Park / Agri / GW / All Other / Sediment <input checked="" type="checkbox"/> O. Reg 406 Excess Soils Table # 1~3 Full depth/Strat/Ceiling/mSPLP Leachate Type: Com-Ind / Res-Park / Agri / All Other Category: Surface / Subsurface														
TURN-AROUND TIME (Business Days)																		
<input type="checkbox"/> 1 Day* (100%) <input type="checkbox"/> 2 Day** (50%) <input type="checkbox"/> 3-5 Days (25%) <input checked="" type="checkbox"/> 5-7 Days (Standard)																		
Please contact Lab in advance to determine rush availability.																		
*For results reported after rush due date, surcharges will apply: before 12:00 - 100%, after 12:00 - 50%.																		
**For results reported after rush due date, surcharges will apply: before 12:00 - 50%, after 12:00 - 25%.																		
The optimal temperature conditions during transport should be less than 10°C. Sample(s) cannot be frozen, unless otherwise indicated or agreed upon with the Laboratory. <b>Note that this COC is not to be used for drinking water samples.</b> The COC must be complete upon submission of the samples, there will be a \$25 surcharge if required information is missing (required fields are shaded in grey).				Sample Details														
				Field Filtered --> _____ O.Reg.153 parameters Sample Matrix    # of Containers    PHC F1 - F4    BTEX    VOCs    PAHs    PCBs    Metals + Inorganics    Metals only    FC&SAR    pH & Sieve T <sub>60</sub> mSPLP - Metals    mSPLP - VOCs    mSPLP - SVOCs    TCLP    OCPs														
Sample ID	Date/Time Collected	Sample Matrix	# of Containers	PHC F1 - F4	BTEX	VOCs	PAHs	PCBs	Metals + Inorganics	Metals only	FC&SAR	pH & Sieve T <sub>60</sub>	mSPLP - Metals	mSPLP - VOCs	mSPLP - SVOCs	TCLP	OCPs	RN# (Lab Use Only)
BH1-1	Jan.14.2022	S	3				✓		✓				✓	✓	✓			1606024
BH1-2			1							✓	✓							25
BH1-3			3	✓	✓													26
BH1-5			3	✓	✓	✓												27
BH2-1			4	✓	✓		✓				✓							28
BH2-6			3	✓	✓	✓												29
Dup-4			3	✓	✓	✓												30
BH4-1			1				✓		✓	✓								31
BH4-2			3	✓	✓													32
BH4-9			3	✓	✓													33
PRINT		SIGN		DATE/TIME		TEMP (°C)		COMMENTS:										
Sampled By:	FENG LZ	[Signature]		Jan.14.2022/20:00		15-5		TCLP: Metals, VOCs, benzo(a)pyrene Ignitability.										
Relinquished By:	[Signature]	[Signature]		1/17/22 2:20 pm				CUSTODY SEAL: <input type="checkbox"/> YES <input type="checkbox"/> NO Ice packs submit <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										
Received By:	[Signature]																	



CLIENT INFORMATION				INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES <input type="checkbox"/> NO <input 4"="" type="checkbox/&gt;)&lt;/th&gt; &lt;/tr&gt; &lt;/thead&gt; &lt;tbody&gt; &lt;tr&gt; &lt;td colspan="/> Company: Englobe <td colspan="8">Company:</td> <td colspan="8">Fax:</td>																Company:								Fax:																																																																																																																																																																									
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																				Sample Matrix	# of Containers	PHC F1 - F4	BTEX	VOCs	PAHs	PCBs	Metals + Inorganic	Metals only	EC & SAR	PHC & Inerts	MSLCP - Metals	MSLCP - VOCs	MSLCP - SVOCs	TCLP	OCPS																																																																																																																																																																		
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CLIENT INFORMATION				INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES <input type="checkbox"/> NO <input 4"="" type="checkbox/&gt;)&lt;/th&gt; &lt;/tr&gt; &lt;/thead&gt; &lt;tbody&gt; &lt;tr&gt; &lt;td colspan="/> Company: <u>Euglobe</u> <td colspan="6">Company:</td> <td colspan="6">Fax:</td>												Company:						Fax:					
Contact: <u>FENG L2</u>				Contact:						Email: #1:																	
Address:				Address:						Email: #2:																	
Telephone:		Cell:		Telephone:						PO #:																	
Email: #1:				REGULATION/GUIDELINE REQUIRED																							
Email: #2:																											
Project:																											
Quote #:				<input type="checkbox"/> Sanitary Sewer, City: _____ <input type="checkbox"/> Storm Sewer, City: _____ <input type="checkbox"/> ODWSOG (Use DW CoC if analyzing drinking water) <input type="checkbox"/> PWQO <input checked="" type="checkbox"/> O.Reg 347 <input type="checkbox"/> Other: _____																							
TURN-AROUND TIME (Business Days)																											
<input type="checkbox"/> 1 Day* (100%) <input type="checkbox"/> 2 Day** (50%) <input type="checkbox"/> 3-5 Days (25%) <input checked="" type="checkbox"/> 5-7 Days (Standard)																											
Please contact Lab in advance to determine rush availability.																											
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				Field Filtered -->																							
				O.Reg.153 parameters																							
Sample ID		Date/Time Collected		Sample Matrix	# of Containers	PHC F1 - F4	BTEX	VOCs	PAHs	PCBs	Metals + Inorganic	Metals only	FC & SAR	MSLp-Metals	MSLp-VOCs	MSLp-SVOCs	TCLP	DCPs	RN# (Lab Use Only)								
BH 8-1	Jan-13, 2022	S	2										✓	✓			✓		1606043								
BH 8-2			4						✓		✓			✓					44								
BH 8-7			3	✓	✓	✓													45								
BH 9-1			1								✓								46								
BH 9-2			2						✓	✓		✓	✓						47								
BH 9-3			4	✓	✓	✓								✓	✓	✓			48								
BH 9-9			3	✓	✓														49								
BH 10-1			2									✓	✓	✓					50								
BH 10-2			3	✓	✓														51								
PRINT				SIGN				DATE/TIME				TEMP (°C)				COMMENTS:											
Sampled By: <u>FENG L2</u>				<u>[Signature]</u>				<u>Jan 14, 2022 / 20200</u>																			
Relinquished By: <u>Malissa</u>				<u>[Signature]</u>				<u>1/12/22 2230pm</u>				<u>15.5</u>															
Received By:																CUSTODY SEAL: <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Ice packs submit <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No											



CLIENT INFORMATION				INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES <input type="checkbox"/> NO <input type="checkbox"/>																																																																																																																																																					
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Email: #1:				<b>REGULATION/GUIDELINE REQUIRED</b> <input checked="" type="checkbox"/> Sanitary Sewer, City: _____ <input type="checkbox"/> Storm Sewer, City: _____ <input type="checkbox"/> ODWSOG (Use DW CoC if analyzing drinking water) <input type="checkbox"/> PWQO <input checked="" type="checkbox"/> O.Reg 347 <input type="checkbox"/> Other: _____  <input checked="" type="checkbox"/> O. Reg 153 The sample results from this submission will form part of a formal Record of Site Condition (RSC) under O.Reg. 153/04. Analysis of full parameter list only Yes <input type="checkbox"/> No <input type="checkbox"/>  <input checked="" type="checkbox"/> O. Reg 406 Excess Soils Table # 1-3-1 Full Depth/Strat/Ceiling/mSPLP Leachate Type: Com-Ind / Res-Park / Agri / All Other Category: Surface / Subsurface																																																																																																																																																					
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				<table border="1"><thead><tr><th rowspan="2">Sample Matrix</th><th rowspan="2"># of Containers</th><th colspan="8">O.Reg.153 parameters</th><th rowspan="2">TC &amp; SAR</th><th rowspan="2">msplp-metals</th><th rowspan="2">msplp-VOCs</th><th rowspan="2">msplp-SVOCs</th><th rowspan="2">TCLP</th><th rowspan="2">OCPS</th></tr><tr><th>PHC F1 - F4</th><th>BTEX</th><th>VOCs</th><th>PAHs</th><th>PCBs</th><th>Metals + Inorganic</th><th>Metals only</th></tr></thead><tbody><tr><td>BH11-1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Dup-1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>BH11-2</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>BH11-7</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>BH12-1</td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>BH12-2</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>BH12-8</td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>														Sample Matrix	# of Containers	O.Reg.153 parameters								TC & SAR	msplp-metals	msplp-VOCs	msplp-SVOCs	TCLP	OCPS	PHC F1 - F4	BTEX	VOCs	PAHs	PCBs	Metals + Inorganic	Metals only	BH11-1	1																Dup-1	1																BH11-2	3																BH11-7	3																BH12-1	2																BH12-2	3																BH12-8	3									
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BH12-8	3																																																																																																																																																								
PRINT				SIGN				DATE/TIME				TEMP (°C)		COMMENTS:  CUSTODY SEAL: <input type="checkbox"/> YES <input type="checkbox"/> NO Ice packs submit <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																																																											
Sampled By: FENG LZ				[Signature]				Jan. 14. 2022/20W				15.5																																																																																																																																													
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CLIENT INFORMATION								INVOICE INFORMATION (SAME AS CLIENT INFORMATION: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> )															
Company: Englobe								Company:						Fax:									
Contact: FENG LZ								Contact:						Email: #1:									
Address: 3397 American Drive								Address:						Email: #2:									
Telephone: 437-991-6210				Cell:				Telephone:						PO #:									
Email: #1: FENG.LI@Englobecorp.com								<div style="text-align: center; background-color: #e6f2ff; padding: 5px;"><b>REGULATION/GUIDELINE REQUIRED</b></div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input type="checkbox"/> Sanitary Sewer, City: _____  <input type="checkbox"/> Storm Sewer, City: _____  <input type="checkbox"/> ODWSOG (Use DW CoC if analyzing drinking water)  <input type="checkbox"/> PWQO  <input checked="" type="checkbox"/> O.Reg 347  <input type="checkbox"/> Other: _____                 </div> <div style="width: 50%;"> <input checked="" type="checkbox"/> O. Reg 153  <small>The sample results from this submission will form part of a formal Record of Site Condition (RSC) under O.Reg. 153/04. Analysis of full parameter list only.</small>                      Yes <input type="checkbox"/> No <input type="checkbox"/>   <input checked="" type="checkbox"/> O. Reg 406 Excess Soils  <small>Table # 1-3 Full depth/Strat/Ceiling/mixt PLP Leachate</small>                      Type: Cont/Ind / Res-Park / Agri/All Other                      Category: Surface /Subsurface                 </div> </div>															
Email: #2: Nan.Du@Englobecorp.com																							
Project: 02112512.000				Quote #: 191077																			
TURN-AROUND TIME (Business Days)																							
<input type="checkbox"/> 1 Day* (100%)		<input type="checkbox"/> 2 Day** (50%)		<input type="checkbox"/> 3-5 Days (25%)		<input checked="" type="checkbox"/> 5-7 Days (Standard)																	
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								Field Filtered -->															
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		PHC F1 - F4	BTEX	VOCs	PAHs	PCBs	Metals + Inorganic	Metals only	EC & SAR	mSpp-metals	mSpp-VOCs	mSpp-SVOCs	TCLP	PH									
B43-1	Jan-21-2022	S	2						✓	✓	✓	✓				1606834							
B43-2	↓		1										✓			35							
Dup-7			1					✓								36							
B43-5			3	✓	✓								✓			37							
B46-1			2				✓		✓				✓			38							
B46-9			3	✓	✓											39							
B413-1			1					✓	✓							40							
B413-6			3	✓	✓									✓		41							
BH15-1			2					✓					✓			42							
B415-2			1						✓	✓						43							
PRINT								SIGN				DATE/TIME		TEMP (°C)		<b>COMMENTS:</b> Run out of jars/vials. Call lab confirm to use other jars/vials.							
Sampled By: FENG LZ								[Signature]				Jan-21-2022/1730		1.5°C									
Relinquished By:																							
Received By: Victor Gallant								[Signature]				01/21/22 5:08pm											
CUSTODY SEAL: <input type="checkbox"/> YES <input type="checkbox"/> NO Ice packs submit <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																							



401 Magnetic Drive, Unit #1, North York, ON, M3J 3H9 - Telephone: 416-661-5287 • 380 Vansickle Road, Unit #630, St. Catharines, ON, L2S 0B5 - Telephone: 905-680-8887 • 608 Norris Court, Kingston, ON, K7P 2R9 - Telephone: 613-634-9307



[illegible]