



SUNCOR ENERGY PRODUCTS PARTNERSHIP

**PHASE TWO
ENVIRONMENTAL SITE ASSESSMENT**

**2180 MONTREAL ROAD AND 972 SHEFFORD ROAD, OTTAWA, ON
Outlet# 65004**

FINAL REPORT

April 23, 2024

PROJECT # CO952.01

Terrapex
20 Gurdwara Road, Unit 1
Ottawa, Ontario, K2E 8B3
Telephone: (613) 745-6471
www.terrapex.com

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1.0 EXECUTIVE SUMMARY

Terrapex was retained by the Suncor Energy Products Partnership (Suncor) to conduct a Phase Two Environmental Site Assessment (ESA) of the commercial property located at 2180 Montreal Road and 972 Shefford Road in Ottawa, Ontario (the “Site” or “Phase Two Property”). It is understood that the study documented herein is being undertaken based on the findings and results of the Phase One ESA, prior to and in support of any future re-development.

The Site is currently an operating retail gasoline station under the Petro-Canada brand. The Site is owned by Suncor. The Site includes a convenience store, carwash, and vacant residential building and associated garage (both located on 972 Shefford Road). The Site is surrounded by residential land use to the northwest, residential and commercial to the north, residential to the southeast, and commercial land use along Montreal Road to the east and southwest.

A Phase One ESA was completed by Terrapex in March 2024 in general accordance with the requirements of O. Reg. 153/04. The Phase One ESA identified several areas of potential environmental concern (APECs) at the Site, resulting from past residential and commercial/industrial/community land use of the Site and off-Site properties. As a result, a Phase

On the basis of the findings of the Phase One ESA, a Phase Two ESA was subsequently conducted by Terrapex to investigate the environmental quality of soil and groundwater at and in the vicinity of the APECs identified at the Site. The Phase Two ESA consisted of the completion of 14 boreholes to a maximum depth of 7.5 metres below ground surface (mbgs), installation of 14 groundwater monitoring wells, and the collection of soil and groundwater samples for laboratory analysis of contaminants of potential concern (COPCs) at the Site.

Based on the findings and results of the Phase One ESA, prior to and in support of any future re-development, a generic full-depth Ministry of the Environment, Conservation and Parks (MECP) Site Condition Standards (SCS) applicable to industrial/commercial/community property use in a non-potable groundwater condition with fine-medium textured soil (the “Table 3 SCS”) was selected to evaluate soil and groundwater quality at the Site.

Based on field observations and an evaluation of soil and groundwater quality data, the following conclusions are provided:

- The soil stratigraphy encountered in the boreholes drilled at the Site generally consisted of an 80 mm layer of topsoil or a 60 to 80 mm layer of asphalt and granular sub-base underlain by fill material consisting of sand containing varying gravel fractions ranging from some gravel to gravelly, trace silt, and organics. The fill materials were underlain by a deposit of native brownish grey silty clay. The colour of the native soil transitioned from brownish grey or grey from depth between 2.0 and 2.5 m bgs, and the boreholes were terminated at the maximum depth of 25 m bgs.

- Three groundwater monitoring events have been conducted at the Site, on 27 February, 18 and 28 March 2024 respectively. The depth to groundwater was identified on Site ranging between 0.72 mbg in MW111 (67.10 masl) and 1.86 m bgs in MW108 (65.58 masl) on March 28, 2024.
- Based on the findings of the March 28, 2024 monitoring event, the interpreted groundwater flow direction was towards the northeast.
- No evidence of non-aqueous phase liquids (NAPL) or free product was encountered during monitoring, purging, or sampling of the monitoring wells.
- Levels of Chromium total (MW101, MW102, MW103, and MW106) and Vanadium (MW101, MW102, MW103, MW104, MW105, and MW106) were found to exceed the MECP Table 3 SCS. A 2023 Geofirma study '*Background Metals in Champlain Sea Sediments: Updates from 2019 Drilling and Sampling Program*' (Geofirma, 2023) identified that concentrations of barium, chromium, cobalt, and vanadium in Champlain Sea Sediments exceeded the MECP Table 1 SCS applicable for full depth background SCS. Although the some of the concentrations identified in this investigation were greater than the maximum concentrations identified in the 2023 Geofirma study, the elevated parameter concentrations were observed in the native soil across the Site (i.e. not related to fill material) and neither chromium total nor vanadium are considered to be contaminants of concern (COCs) for the Site. Therefore, the elevated concentrations of chromium and vanadium are inferred to be the result of naturally occurring concentrations in Champlain Sea Sediments and not a result of identified PCAs for the Site.
- Soil samples collected as part of this investigation exhibited elevated results of electrical conductivity (EC) compared to the MECP Table 3 SCS. Given that the EC impacts were identified in areas of surface parking, the Site uses salt for the purposes of snow and ice control in winter conditions, and the absence of any other documented potential source of such impacts at or in the vicinity of the Site during the Phase One ESA, the EC impacts in soil identified at the Site have been inferred to be from the application of a substance (specifically, salt) to ground surfaces for the safety of pedestrian and vehicle traffic under conditions of snow or ice. As per Section 49.1 of O. Reg. 153/04, such impacts are not deemed to represent an exceedance of a Site Condition Standard for the purposes of Part XV.1 of the Environmental Protection Act.
- Base on the groundwater results, concentrations of all parameter were less than the Table 3 SCS.

2.0 INTRODUCTION

Terrapex was retained by the Suncor Energy Products Partnership to complete a Phase Two Environmental Site Assessment (ESA) for 2180 Montreal Road and 972 Shefford Road in Ottawa, Ontario (the “Site” or “Phase Two Property”).

The objective of the Phase Two ESA was to assess the areas of potential environmental concern (APECs) identified by a Phase One ESA (Terrapex, 2024) to investigate soil and groundwater quality at the Site prior to and in support of any future re-development.

2.1 SITE DESCRIPTION

The Site occupies an area of approximately 0.614 hectares (6140 m²) and comprises the commercial land and residential land at 2180 Montreal Road and 972 Shefford Road in Ottawa, Ontario. The Site is an active Petro Canada gas station and a residential building with a garage towards the southern side of the property.

Suncor did not provide a Surveyor’s Real Property Report, as part of this study. The property identification number (PIN) and legal property description for the Site are listed below.

PHASE ONE PROPERTY INFORMATION

Address:	2180 Montreal Road and 972 Shefford Road, Ottawa, Ontario; and, 972 Shefford Road, Ottawa, Ontario
Property Identification Number:	043680060, and; 043680192
Legal Description:	PCL 60-1, SEC 4M-916; BLK 60, PL 4M-916; S/T LT908684, NS112331, NS112334 GLOUCESTER, and; PT LT 16, CON 10F, GLOUCESTER, PTS 3 AND 4 PL 5R1754, OTTAWA
UTM Coordinates (centre of site, WGS 84):	18T East: 5033032 m North: 453996 m
Site Area:	0.614 ha (6140 m ²)
Structures:	Carwash, convenience store; pump island canopy, garbage enclosure, vacuum island, sign; and, Single-story house, garage building.
Occupants (current):	Western portion is leased by Suncor and currently vacant; eastern portion used by SMCS for surface parking lot.

The Site is in a neighbourhood comprised of mixed residential and commercial land uses as shown on Figure 1 (Site Location Plan) and Figure 2 (General Site Layout).

2.2 PROPERTY OWNERSHIP

Contact information for the registered owner of the Site and the party authorizing this Phase Two ESA is provided in the table below.

Name and Address of Registered Owner:	Suncor Energy Products Partnership 3275 Rebecca Street, Oakville, Ontario
Name and Address of Authorizing Party:	Kelly Klassen 3275 Rebecca Street, Oakville, Ontario

2.3 CURRENT AND PROPOSED FUTURE USES

The Site is an active Petro Canada gas station building, and a residential building with a garage in the southern portion of the property. The Site use is considered “commercial property” use per O. Reg. 153/04. (Records of Site Condition – Part XV.1 of the Act).

2.4 APPLICABLE SITE CONDITION STANDARDS

Generic Site Condition Standards for evaluating laboratory analytical results for soil and groundwater were determined on the basis of Site-specific criteria specified in O. Reg. 153/04, and are summarized below:

- the Site is not within or adjacent to an area of natural significance as defined within Section 1 (1) of O. Reg. 153/04, does not include any land within 30 m of an area of natural significance, and is not otherwise considered “potentially sensitive”;
- the pH determined for “surface” soil samples (representative of depths not exceeding 1.5 m below ground surface, excluding any surface treatment) analysed as part of this Phase Two ESA ranged from 6.78 to 7.24, which is between the prescribed values of 5 to 9 for the application of generic Site Condition Standards;
- the pH determined for “subsurface” soil samples (representative of depths greater than 1.5 m below ground surface, excluding any surface treatment) analysed as part of this Phase Two ESA ranged from 6.91 to 7.24, which is between the prescribed values of 5 to 11 for the application of generic Site Condition Standards;
- more than 2 m of overburden was observed over at least two-thirds of the area of the Site;
- the Site does not include a waterbody and is not located within 30 m of a waterbody;
- stratified site conditions will not be used when evaluating laboratory analytical results;
- current use of the Site is considered to be commercial;
- proposed future use of the Site is expected to be commercial and the proposed grading is anticipated not to vary from the existing grade;

- potable water at the Site, and all other properties located (in whole or in part) within 250 m of the Site, is supplied by a municipal drinking water system that obtains its water from a surface water source (the Ottawa River);
- neither the Site nor any property located (in whole or in part) within 250 m of the Site has a well that is used or intended for use as a source of water for human consumption or for agriculture;
- the Site is not located in an area designated in a municipal Official Plan as a well-head protection area, or another designation by the municipality intended for the protection of groundwater; and,
- soil texture at the Site has been classified as “medium-fine grained soil based on the result of grain size analysis conducted for eleven representative soil samples.

Based on the above, Full Depth Generic Site Condition Standards applicable to industrial/ commercial/ community land use that are listed in Table 3 of the April 15, 2011 MECP *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* document (hereafter referenced as the MECP Table 3 SCS) are considered appropriate for evaluating laboratory analytical results.

In accordance with the requirements of Section 35 of O. Reg. 153/04, notification of the intent to use standards corresponding to a non-potable groundwater condition was provided to the Clerk of the City of Ottawa on March 26, 2024, of Suncor’s intent to use standards corresponding to a non-potable groundwater condition. At the time of reporting Terrapex had not received a response from the City.

3.0 BACKGROUND INFORMATION

3.1 PHYSICAL SETTING

3.1.1 Water Bodies & Areas of Natural Significance

Based on the review of the aerial photographs, satellite images, and topographic maps completed as part of the previous Phase One ESA, the Site does not include, and is not adjacent to, or within 30 m of a water body, as defined in O. Reg. 153/04. There are no major water bodies within the Phase One Study Area. The nearest water body is Green's Creek situated 530 m to the southeast of the Site. This water body ultimately discharges into the Ottawa River, a known regional groundwater discharge zone.

3.1.2 Topography & Surface Water Drainage

A topographic map of the Site and Phase One Study area was obtained from Atlas of Canada – Toporama. No major topographic features are mapped on the Site. The Phase One Study Area generally slopes to the east towards Green's Creek, which flows north towards the Ottawa River. The elevation of the Site is approximately 67 m above mean sea level (amsl).

Storm water from the Site (other than what infiltrates into the ground) is directed towards the municipal storm water sewer system through catch basins located on-Site and on adjacent roadways.

3.2 PAST INVESTIGATIONS

A summary of past environmental reports available for review is presented below.

Summary of Phase One ESA

A Phase One ESA of the Site was carried out by Terrapex in March 2024 in general accordance with the requirements of O. Reg. 153/04, as amended.

Based on the review, evaluation, and interpretation of the information obtained from the records review, interviews, and site reconnaissance, eight PCAs were identified on the Site and nine PCAs were identified within the Phase One Study Area.

An area of potential environmental concern (APEC), as defined in O. Reg. 153/04, is the area on, in, or under a Phase One Property where one or more contaminants are potentially present, as determined through the Phase One environmental site assessment, including through, (a) identification of past or present uses on, in or under the Phase One Property and (b) identification of potentially contaminating activity. A total of eight APECs, were identified pertaining to the Site. As a result, the completion of a Phase Two ESA was required to further investigate the identified APECs.

4.0 SCOPE OF INVESTIGATION

4.1 OVERVIEW OF SITE INVESTIGATION

The scope of Terrapex's assessment comprised the following:

- preparing a Sampling and Analysis Plan that identified target sampling locations and associated rationale, a proposed laboratory analytical program, and the number and type of Quality Control (QC) samples;
- drilling 14 boreholes between February 7 and 9, 2024 to depths ranging between 4.5 and 7.5 mbgs, all of which were completed as groundwater monitoring wells;
- hydro-excavating was carried out for all boreholes to clear each location of potential utility lines.
- collecting soil samples and logging of visual, olfactory and tactile soil characteristics;
- measuring soil vapour (SV) concentrations in soil;
- submitting selected soil and groundwater samples for laboratory analyses;
- surveying the top of the pipe and ground surface for each monitoring well in metres above mean sea level (m amsl) using a Trimble DA2 Global Navigation Satellite System (GNSS);
- monitoring groundwater conditions within each monitoring well; and,
- evaluating laboratory analytical results with respect to the selected SCS.

Due to the soft native soils encountered, the scope of work was revised to included two geotechnical boreholes (MW113 and MW114) drilled to 25.0 mbg on and on March 5-6,2024. Both boreholes were equipped with hydrogeological monitoring wells screened from 5.5-7.0 mbg.

The Sampling and Analysis Plan is provided in Appendix III. The sampling procedures are documented in detail in Section 5.0.

4.2 MEDIA INVESTIGATED

Based on the Phase One ESA findings, the Phase Two ESA work program documented herein included investigation of the environmental quality of both soil and groundwater at the Site. The environmental quality of sediment was not investigated as sediment is not present at the Site.

Soil and groundwater were investigated by drilling boreholes, installing monitoring wells, and collecting soil and groundwater samples, as described above, and in Section 5.0.

4.3 PHASE ONE CONCEPTUAL SITE MODEL

The Phase One Conceptual Site Model (CSM) presented in the Phase One ESA report (Terrapex, 2024) includes figures and narrative that provided the logical basis for the interpretation of PCAs and APECs on the Phase Two Property. A summary of the CSM is provided in the sections below.

4.3.1 Conceptual Site Model Figures

The Phase One CSM includes the following figures appended to this report:

PHASE ONE CSM FIGURES

Requisite Feature	Figure
i. Show any existing buildings and structures,	Figure 1: Site Location
ii. Identify and locate water bodies located in whole or in part in the Phase One Study Area,	Figure 3: Phase One Study Area and Surrounding Land uses
iii. Identify and locate any areas of natural significance located in whole or in part on the Phase One Study Area,	Figure 3: Phase One Study Area and Surrounding Land uses
iv. Locate any drinking water wells at the Phase One Property	Figure 3: Phase One Study Area and Surrounding Land uses
v. Show roads, including names, within the Phase One Study Area,	Figure 3: Phase One Study Area and Surrounding Land uses
vi. Show uses of properties adjacent to the Phase One Property,	Figure 3: Phase One Study Area and Surrounding Land uses
vii. Identify and locate areas where any potentially contaminating activity has occurred, and show tanks in such areas,	Figure 4: PCAs – Potentially Contaminating Activities
viii. Identify and locate any areas of potential environmental concern.	Figure 5: APECs – Areas of Potential Environmental Concern

4.3.2 Conceptual Site Model Narrative

The Phase One CSM comprises the narrative provided in the following table:

PHASE ONE CSM NARRATIVE

Requisite Component	Description & Assessment			
i. Areas where potentially contaminating activity on, or potentially affecting the Phase One Property has occurred,	APEC #	PCA #	Description	Location
	1	1	The UST tank nest	Northern portion of the Site
	2	2	The pump island and dispensers	Central portion of the Site
ii.	3	3	Carwash	Southwest portion of the Site
	4	4	Area around the pad-mounted transformer	Western portion of the Site
	5	5	Historical waste oil drum	Northern portion of the Site
ii.	6	6	Historical fill piles	Northern portion of the Site

Requisite Component	Description & Assessment		
	7	7	Potential fill present related to construction, and demolition of on-Site features
	8	8	Towing and car repair observed in air photos
	9	9, 10, 11	Texaco tanks and lines, and spills from townhouses on northwest. Former dry cleaner.
	Please refer to Table 3 "Areas of Potential Environmental Concern" appended.		
iii. Any contaminants of potential concern,	VOCs; PHC F1-F4; PAHs, PCBs, Metals, and Inorganics		
	Please refer to Table 3 "Areas of Potential Environmental Concern" appended.		
iv. The potential for underground utilities if present, to affect contaminant distribution and transport,	In general, potential migration pathways for subsurface contaminants at the Site would consist of buried services or remnants of former buried services.		
v. Available regional or site specific geological and hydrogeological information, and	Site & Regional Topography:	Site is generally flat with no significant grade difference. Regional grade generally slopes to the south towards Green's Creek	
	Approximate Elevation:	67 m asl	
	Physiography and Soil Stratigraphy:	Ottawa Valley Clay Plains, which consists of fine-textured glaciomarine deposits comprising silt and clay, minor sand and gravel, massive to well laminated.	
	Bedrock and Approximate Depth:	Limestone, dolostone, shale, arkose, sandstone Ottawa Group, Simcoe Group of the Shadow Lake Formation and is anticipated to be approximately 56 m below grade.	
	Surface Water:	The Site does not include, and is not adjacent to, or within 30 m of a water body, as defined in O. Reg. 153/04. The nearest water body is Green's Creek situated 530 m to the southeast of the Site. This water body ultimately discharges into the Ottawa River, a known regional groundwater discharge zone.	
	Area of Natural Significance:	None within, or within 30 m of, the Phase One Property, or within the Phase One Study Area.	
	Wellhead Protection Area:	None located within the Phase One Property, or within the Phase One Study Area.	
vi.	Municipal Drinking Water System	All properties within the Phase One Study Area are inferred to be connected to the municipal drinking water system supplied by the City of Ottawa.	
	Well For Consumption/ Agricultural Use:	None currently located within the Site, or within the Phase One Study Area. One record for a potable well from 1952 for the property located at 972 Shefford Road but that is assumed to have been destroyed and is not in service.	

Requisite Component	Description & Assessment
vii. How uncertainty or absence of information obtained in each of the components of the Phase One ESA could affect the validity of the model.	The main uncertainty associated with the CSM developed for the Site relates to the limited information regarding the former use of the Site as well as the limited information regarding activities on neighbouring properties. Notwithstanding the above, it should be noted that Phase One ESAs have inherent limitations, and therefore, findings cannot be considered definitive (i.e., the findings of a Phase One ESA are inherently associated with some uncertainty).

4.3.3 Exemptions for De-Icing Agents, Excess Soil, and Drinking Water

The following table describes the rationale pertaining to any applicable reliance on exemptions provided by Paragraphs 1, 1.1 and 2 of Section 49.1 of O. Reg. 153/04.

RELIANCE ON EXEMPTIONS

Exemption(s) Circumstances	Rationale
(1.) Substance(s) applied to surfaces for safety of vehicular or pedestrian traffic under conditions of snow or ice or both.	Relied upon.
(1.1) Excess soil deposited at the property for final placement meets the soil quality standards that apply to the property as determined in accordance with the Excess Soil Standards.	Not relied upon.
(2.) There has been a discharge of drinking water within the meaning of the Safe Drinking Water Act, 2002.	Not relied upon.

4.3.4 Exemption Relating to Naturally Occurring Concentrations

Paragraph 3 of Section 49.1 of O. Reg. 153/04 considers an applicable site condition standard as not exceeded if the concentrations do not exceed the naturally occurring range of concentrations typically found within the vicinity of the Site.

Paragraph 3 of Section 49.1 is not being relied upon.

4.4 DEVIATIONS FROM THE SAMPLING AND ANALYSIS PLAN

No deviations from the Sampling and Analysis Plan were encountered during the Phase Two ESA investigation. A copy of the Sampling and Analysis Plan is provided in Appendix III.

4.5 IMPEDIMENTS

Access to the Site was not impeded at any time during the Phase Two ESA work program.

5.0 INVESTIGATION METHOD

5.1 GENERAL

The soil and groundwater quality at the Site were investigated at the locations shown on Figure 5 through the advancement of boreholes and installation of groundwater monitoring wells to characterize environmental conditions at the APECs identified in the Phase One ESA. Investigation methods followed Standard Operating Procedures prepared by Terrapex for the conduct of environmental investigations.

5.2 DRILLING AND EXCAVATING

Borehole drilling and monitoring well installation services for this work program were provided by Strata Drilling Group (Strata), out of Ottawa, Ontario using a Geoprobe 6822 DT drill rig. Strata is a MECP-licensed well drilling contractor.

Measures to minimize potential cross-contamination or other potential bias as described in Terrapex's Standard Operating Procedures. There were no deviations from the Standard Operating Procedures regarding borehole drilling during this investigation.

5.3 SOIL

5.3.1 Soil Sampling

Borehole advancement conducted as part of the Phase Two ESA work program was completed under the full-time supervision of Terrapex staff. Soil samples were collected at each borehole location at regular depth intervals using a disposable dual tube sampler or a split spoon sampler for the direct push and conventional drill rig, respectively. The soil stratigraphy encountered in the boreholes drilled at the Site generally consisted of an 80 mm layer of topsoil or a 60 to 80 mm layer of asphalt and granular sub-base underlain by fill material consisting of sand containing varying gravel fractions ranging from some gravel to gravelly, trace silt, and organics. The fill materials were underlain by a deposit of native brownish grey silty clay. The colour of the native soil transitioned from brownish grey to grey depth between 2.0 and 2.5 m bgs, and continued to a depth of 25.0 mbg which represents the maximum depth of investigation.

Each recovered sample was divided into two portions. One portion was placed in a clear sampling bag for field screening/logging. The second portion was collected using laboratory supplied sampling containers for analysis of selected COPCs. Samples considered to be "worst-case" based on field screening were submitted for analysis and extracted at the laboratory within the required holding time. Soil descriptions were recorded based on the Unified Soil Classification System (USCS).

In addition to the borehole soil samples a grab sample (GS1) was collected adjacent to the pad mount transform located northwest of the carwash to investigate the shallow soil for potential polychlorinated biphenyls (PCBs) impacts.

Samples collected for laboratory analysis were placed in a cooler with ice and delivered with signed chain of custody to the project laboratory for analysis.

Sample locations are shown on Figure 2. Borehole logs illustrating the stratigraphy encountered, chemical analysis samples and measured SV concentrations are included in Appendix II.

5.3.2 Field Screening Measurements

SV concentrations were measured in each soil sample using a RKI Eagle 2 Hydrocarbon Surveyor (Eagle) calibrated to *n*-hexane and operated in “methane elimination” mode. The Eagle can measure combustible organic compounds to a nominal detection level of 5 ppm, with an accuracy of $\pm 5\%$.

The Eagle is calibrated according to the manufacturer's instructions and Terrapex Standard Operating Procedures before the field investigation.

“Worst-case” soil samples from each borehole were identified on the basis of vapour screening, visual and olfactory evidence of contamination, and sample location in relation to potential point sources of impact.

5.4 GROUNDWATER

5.4.1 Monitoring Well Installation

Monitoring well installation services for this work program were provided by Strata, under contract with Terrapex. In order to facilitate monitoring well installation, the drill rigs were equipped with hollow stem augers.

A monitoring well was installed in select boreholes, as shown on Figure 5. The monitoring wells were constructed using 50 mm inside diameter schedule 40 PVC well pipe and #10 slot screen interval. The annulus of each monitoring well was backfilled with washed silica sand to a depth of approximately 0.3 m above the screened interval. A hydrated bentonite seal was placed above the sand pack to prevent infiltration of surface water into the monitoring well. A flush-mount well casing was cemented in place over each monitoring well for protection. Well installation details are provided within the borehole logs in Appendix II.

The depths to the bottom of the screened intervals of the monitoring wells varied from 4.5 mbg to 7.0 mbg. The screened interval depths for the monitoring wells installed to 4.5 mbg were established to assess the surface of the groundwater table for the potential on-Site and off-Site

sources of contamination. The screened intervals in the monitoring wells installed to 7.0 mbg were established to evaluate the hydrogeological conditions on the Site which is reported under a separate cover.

Measures to minimize potential cross-contamination or other potential bias are described in Terrapex's Standard Operating Procedures. There were no deviations from the Sampling and Analysis Plan regarding the installation of the monitoring wells.

Prior to developing and sampling, the monitoring wells were monitored for vapours in the well headspace, and depths to water and to the bottom were measured in each well. The estimated volume of water in each well and its annulus were calculated based on the depth measurements, diameter of the well standpipe and annulus, and an assumed annulus porosity of 30%.

The monitoring wells were the subsequently developed in accordance with Terrapex's SOPs in order to remove entrained particulate in the well standpipe, well screen and filter pack as well as surrounding formation materials. Development of each monitoring well was conducted with a dedicated inertial sampler comprising low density polyethylene (LDPE) tubing and a LDPE foot valve.

5.4.2 Field Measurements of Water Quality Parameters

Prior to conducting groundwater sampling activities, vapour levels were measured within the headspace of each monitoring using an Eagle. The depth to groundwater and apparent thickness, if any, of any light non-aqueous phase liquids (LNAPL) were then measured using a Heron Instruments interface probe.

To mitigate cross-contamination, the interface probe was washed with a liquid solution of Alconox detergent and rinsed with potable water between each monitoring well. A fresh pair of nitrile gloves was worn at each well location.

Water quality parameters (i.e., temperature, pH, specific conductivity, dissolved oxygen, and oxidation reduction potential) were measured in monitoring wells prior to sampling activities using a flow-through cell and a YSI 556 water quality sensor.

5.4.3 Groundwater Sampling

Low-flow sampling was conducted in order to minimize drawdown of the water table. After water quality parameters stabilized, groundwater samples from the monitoring wells were collected. Sampling was conducted using "low-flow" methodology using a peristaltic pump and dedicated sample tubing, as per Terrapex SOPs (Appendix IV).

Groundwater samples were collected directly into pre-cleaned, laboratory-supplied sampling bottles, packed in a cooler with ice, and shipped under signed chain of custody to AGAT laboratory (AGAT) for laboratory analysis.

5.5 SEDIMENT

Sediment sampling was not completed as sediment is not present at the Site.

5.6 ANALYTICAL TESTING

Laboratory analytical services for this work program involving soil and groundwater media were provided by AGAT laboratory in Mississauga, Ontario under contract with Terrapex. AGAT is accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA) International Standard ISO/IEC 17025:2017, *General Requirements for the Competence of Testing and Calibration Laboratories*.

Soil and groundwater samples were analysed as per the sampling and analysis plan to address the identified APECs from the Phase One ESA.

5.7 RESIDUE MANAGEMENT

Hydro-excavated soil and containerized purged water generated during the work program were disposed of off-Site at a licenced waste disposal facility.

5.8 ELEVATION SURVEYING

Terrapex used a Trimble DA2 Global Navigation Satellite System GNSS Receiver to complete a geodetic elevation survey of the top of the pipe and ground surface for each monitoring well in metres above mean sea level (m amsl).

5.9 QUALITY ASSURANCE AND QUALITY CONTROL MEASURES

Quality Assurance and Quality Control (QA/QC) measures were implemented during the Phase Two ESA in accordance with Terrapex Standard Operating Procedures. A summary of these measures follows.

During drilling, to mitigate cross-contamination, samples were either collected using single use, disposable dual tube sample liners, or using metal split spoons that were cleaned with an alconox solution and rinsed with clean potable water after the collection of each sample. Fresh nitrile gloves were worn for the handling of each sample.

During groundwater sampling, dedicated sampling equipment was used at each monitoring well location. To mitigate cross-contamination, the interface probe was washed with a liquid solution

of Alconox detergent and rinsed with potable water between each monitoring well. A fresh pair of nitrile gloves was donned at each well location.

Pre-cleaned groundwater sample containers for the specific parameters of interest were provided by the laboratory and used at each borehole and monitoring well location for the collection of soil and groundwater samples. Samples for analyses were placed in an enclosed cooler with loose ice and shipped under signed chain of custody and custody seals to AGAT for chemical analysis.

QA/QC samples collected as part of the Phase Two investigation program included the following:

- one blind field duplicate soil samples for analysis of volatile organic compounds (VOCs),
- one blind field duplicate soil samples for analysis of benzene, toluene, ethylbenzene and xylene (BTEX) and petroleum hydrocarbons (PHCs),
- one blind field duplicate soil samples for analysis of polycyclic aromatic hydrocarbons (PAHs),
- one blind field duplicate soil samples for analysis of metals and inorganic parameters
- two blind field duplicate groundwater samples for analysis of VOCs, BTEX and PHCs, and metals and inorganic parameters
- two methanol blanks samples were submitted with the soil samples for analysis of BTEX and PHC F1
- two methanol blanks samples were submitted with the soil samples for analysis of VOCs.
- one trip blank was submitted with the groundwater samples for analysis of VOCs (including BTEX) and PHC F1.

With the exception of samples prepared by the laboratory, the laboratory was not informed of the nature or number of the field QA/QC samples outlined above.

6.0 REVIEW AND EVALUATION

6.1 GEOLOGY

The Site is located in Ottawa Valley Clay Plains. It which consists of fine-textured glaciomarine deposits comprising silt and clay, minor sand, and gravel, massive to well laminated.

Bedrock geology consists of Limestone, dolostone, shale, arkose, sandstone Ottawa Group, Simcoe Group of the Shadow Lake Formation and is anticipated to be approximately 56 m below grade.

The Site is generally flat. No major topographic features are mapped on the Site. The Phase One Study Area generally slopes to the southeast towards Green's Creek, which flows north towards the Ottawa River. The elevation of the Site is approximately 67 m amsl. Inferred direction of groundwater flow (based on topography) is to the northeast.

Based on the findings of the Phase Two ESA work program, the soil stratigraphy encountered in the boreholes drilled at the Site generally consisted of a 80 mm layer of topsoil or a 60 to 80 mm layer of asphalt and granular sub-base underlain by fill material consisting of sand containing varying gravel fractions ranging from some gravel to gravelly, trace silt, and organics. The fill materials were underlain by a deposit of native brownish grey silty clay. The colour of the native soil becomes brownish grey to grey between 2.0 and 2.5 m bgs, and the boreholes were terminated at a maximum depth of 25 m bgs.

No aquitards were encountered during the intrusive investigations. Only the shallow overburden aquifer was investigated.

The general soil stratigraphy at the Site is shown on the borehole logs in Appendix III.

6.2 GROUNDWATER ELEVATIONS AND FLOW DIRECTION

Fourteen (14) groundwater monitoring wells (for environmental and hydrogeological use) were installed at 12 locations at the Site between February 7 and 9 2024 to depths ranging from 4.5 (for environmental use) to 7 mbg (for hydrogeological use). Geotechnical boreholes (MW113 and MW114) were drilled to 25 mbg and equipped with monitoring wells install to 7.5 mbg (for hydrogeological use). The environmental monitoring wells were screened between 1.5 and 4.5 m bgs at MW101, MW102, MW103, MW104, MW105, MW106, MW108, MW110, and MW111. Hydrogeological monitoring wells were installed at MW107 MW109 MW113 and MW114, and screened between 5.5 and 7.0 m bgs.

Three groundwater monitoring events have been conducted at the Site, on February 27, March 18, and March 28, 2024 respectively. The depth to groundwater ranged between 1.18 m bgs (MW111) and 2.55 m bgs (MW108) during the monitoring event on February 27, 2024. The depth

to groundwater ranged between 0.88 m bgs (MW111) and 2.03 m bgs (MW103) during the monitoring event on March 18, 2024. The depth to groundwater was identified between 0.72 m bgs (MW111) and 1.86 m bgs (MW108) during the monitoring event on March 28, 2024.

A groundwater flow direction to the northeast was interpreted based on the findings of the March 28, 2024 monitoring event. The groundwater monitoring data is summarised in Table 1 and the interpreted groundwater elevation contours are shown on Figure 3.

Free-product or non-aqueous phase liquid (NAPL) was not encountered during monitoring, purging, or sampling of the monitoring wells during the Phase Two ESA work programs.

6.3 GROUNDWATER HYDRAULIC GRADIENTS AND CONDUCTIVITY

Based on the relative groundwater elevations on March 28, 2024, the interpreted horizontal gradient was calculated between MW103 and MW108, was approximately 0.0091 m/m.

Vertical hydraulic gradients were not calculated as no contaminant greater than applicable SCS was identified during the Phase Two ESA.

Based on the fine to medium soil textured soil at the Site, the hydraulic conductivity for the unconfined sand aquifer was estimated to range from 10^{-4} to 10^{-5} m/sec (Freeze and Cherry, 1979). Calculated hydraulic conductivities for the Site will be provided in the hydrogeological letter report, provided under a separate cover.

6.4 SOIL TEXTURE

The soil texture was determined to be fine-medium sand per the definitions of O. Reg. 153/04, based on field observations and grain-size analysis. Grain size results are shown in the Laboratory Certificates of Analyses attached in Appendix III.

6.5 SOIL FIELD SCREENING

The conceptual site model, as developed during the Phase One Environmental Site Assessment (ESA), indicates that potential fill materials were a PCA for the Site. Given that such impacts are associated with the inherent environmental quality of the fill materials, soil field screening for assessment of the environmental quality of fills was generally geared to identifying the presence/absence of fill materials, specifically identifying samples of fill containing debris (wood, brick, concrete, and similar materials) that would be particularly suggestive of poor-quality fill materials.

In addition, potential impacts associated with spills, leaks, or other releases were screened by measuring SV concentrations in the headspace of the portion of recovered soil samples. The soil samples were placed in sealable sample bags for further site characterization (i.e., the portion not placed directly into sampling containers for possible laboratory analyses).

During the Phase Two ESA, debris was not observed in the fill material and SV concentrations were measured for all soil samples recovered at concentrations less than 5 ppm.

The descriptions of the soil and SV concentrations measured for each soil sample are included on the borehole logs (Appendix III).

6.6 SOIL QUALITY

Laboratory results for the soil samples submitted for analyses of BTEX and PHCs, VOCs, inorganics, PAHs, and PCBs are summarized in Tables 2A through 2E, respectively.

As indicated in the tables, concentrations of all parameters in the soil samples were below the applicable SCSs, except the following:

Concentrations of metals and inorganic parameters (i.e., chromium total, vanadium, and electrical conductivity) exceeding the Table 3 SCS were found to be present in soil at six of the twelve borehole locations (MW101, MW102, MW103, MW104, MW105 and MW106) at the Site. Soil from boreholes MW113 and MW114, advanced for geotechnical purposes, was not assessed for environmental quality.

Levels of chromium (MW101, MW102, MW103, and MW106) and vanadium (MW101, MW102, MW103, MW104, MW105, and MW106) were found to exceed the MECP Table 3 SCS. The 2023 Geofirma study *'Background Metals in Champlain Sea Sediments: Updates from 2019 Drilling and Sampling Program'* (Geofirma, 2023) identified that concentrations of barium, chromium, cobalt, and vanadium in Champlain Sea Sediments exceeded the MECP Table 1 SCS applicable for full depth background SCS. Although concentrations identified in our investigation were greater than the maximum concentrations identified in the Geofirma study, the elevated parameter concentrations were observed in the native soil across the Site (i.e. no identified source area) and chromium total and vanadium are not COCs for the Site. Therefore, the elevated parameters are inferred to be the result of elevated concentrations in Champlain Sea Sediments and not a result of identified PCAs for the Site.

Soil samples collected as part of this investigation also exhibited elevated levels of electrical conductivity (EC) compared to the MECP Table 3 SCS. Given that the EC impacts were identified in areas of surface parking, the Site uses salt for the purposes of snow and ice control in winter conditions, and the absence of any other documented potential source of such impacts at or in the vicinity of the Site during the Phase One ESA, the EC impacts identified at the Site have been inferred to be from the application of a substance (specifically salt) to ground surfaces for the safety of pedestrian and vehicle traffic under conditions of snow or ice. As per Section 49.1 of O. Reg. 153/04, such impacts are not deemed to represent an exceedance of a Site Condition Standard for the purposes of Part XV.1 of the Environmental Protection Act.

Copies of the Laboratory Certificates of Analyses are attached in Appendix IV.

6.7 GROUNDWATER QUALITY

Laboratory results for the groundwater samples submitted for analyses of BTEX and PHCs; VOCs; and, metals and inorganics are summarized in Tables 3A through 3C, respectively.

As indicated in the tables, concentrations of all parameters in the groundwater samples were below the applicable MECF Table 3 SCSs.

Copies of the Laboratory Certificates of Analyses are attached in Appendix IV.

6.8 SEDIMENT QUALITY

The environmental quality of sediment was not investigated as sediment is not present at the Site.

6.9 QUALITY ASSURANCE AND QUALITY CONTROL RESULTS

AGAT's QA/QC program consisted of the analysis of laboratory replicates, method and spiked blanks, process percent recoveries, matrix spikes, and surrogate percent recoveries, as appropriate for the particular analysis protocol.

QA/QC Control Limits: A review of the quality assurance reports attached to the laboratory certificates of analyses indicate that the laboratory QA/QC samples were within the quality control limits.

Lab Duplicate Samples: Acceptable correlation was generally observed between the laboratory duplicate and its corresponding sampling pair for each of the tested parameters.

Matrix Spike Recoveries: No issues regarding matrix spike recoveries were outlined in any of the laboratory certificates of analysis.

Detection Limits: Detection limits generally did not require adjustment.

General Comments: Laboratory analysis generally did not deviate from standard protocol.

Terrapex's QA/QC program consisted of the analysis of field duplicate samples, trip blank samples, and methanol blank samples.

Field Duplicate Samples: Acceptable correlation for field duplicate sample results was observed between the duplicate sample and its corresponding sampling pair for each of the tested parameters.

Trip Blank Samples: Trip blank samples were submitted for analysis of BTEX/F1 and VOCs as part of the groundwater sampling events. Analytical results from the trip blank samples were all less than the detection limit.

Methanol Blank Samples: Methanol blank samples were submitted for analysis of BTEX/F1 and VOCs as part of the soil sampling events. Analytical results from the methanol blank sample were all less than the detection limit.

Based on the above analysis of the QA/QC program, no concerns regarding the adequacy or representativeness of the sampling and analytical program were identified and, as a result there is no reason to question the validity of the results, and the overall objectives of the investigation and the assessment were met.

6.10 PHASE TWO CONCEPTUAL SITE MODEL

A preliminary conceptual site model was developed as part of the Phase One ESA and is included in Section 4.3. As there is no intention to submit an RSC for the Site, a Phase Two CSM has not been included at this time.

7.0 CONCLUSIONS

Based on the findings of the Phase Two ESA, the environmental quality of soil meets the Table 3 SCS. Therefore, further environmental investigations are not required.

7.1 SIGNATURES

The environmental assessment described herein was conducted in accordance with the terms of reference for this project, agreed upon by the Suncor Energy Products and Partnership and Terrapex Environmental Ltd.

The Phase Two ESA was conducted in accordance with O. Reg. 153/04 by, or under the supervision of, a Qualified Person as required by the regulation.

Terrapex Environmental Ltd. has exercised due care, diligence, and judgement in the performance of this Phase Two ESA; however, studies of this nature have inherent limitations. The reported information is believed to provide a reasonable representation of the general environmental conditions at the site at the time the assessment was conducted. However, the data were collected at discrete locations and conditions may vary at other locations or with the passage of time. The assessment was also limited to a study of those chemical parameters specifically addressed in this report.

In addition, our comments, conclusions, and recommendations are based in part on the observations and data documented by third parties. By necessity, except where explicitly noted, we have relied upon the accuracy and completeness of information presented by said third parties, regardless of any disclaimers regarding reliance provided in the documentation subjected to peer review. Terrapex Environmental Ltd. does not assume any responsibility for errors, omissions, or other limitations pertaining to third party work programs.

This report has been prepared for the sole use of Suncor Energy Products Partnership. Terrapex Environmental Ltd. accepts no liability for claims arising from the use of this report, or from actions taken or decisions made as a result of this report, by parties other than Suncor Energy Products Partnership.

Respectfully submitted,

TERRAPEX ENVIRONMENTAL LTD.

Sree Padmakumar, M.Eng.
Environmental Scientist

Craig Beaton, P.Eng., QPesa
Senior Project Manager

8.0 REFERENCES

Groundwater. Prentice-Hall Canada Inc., Toronto. Freeze, Allan R. and Cherry, John A., 1979.

Environmental and Testing Report No. 2, Hydrocarbon Remediation, 150 Harrison Street, Toronto, Ontario. Geo-Logic Inc. (Geo-Logic), January 18, 2013.

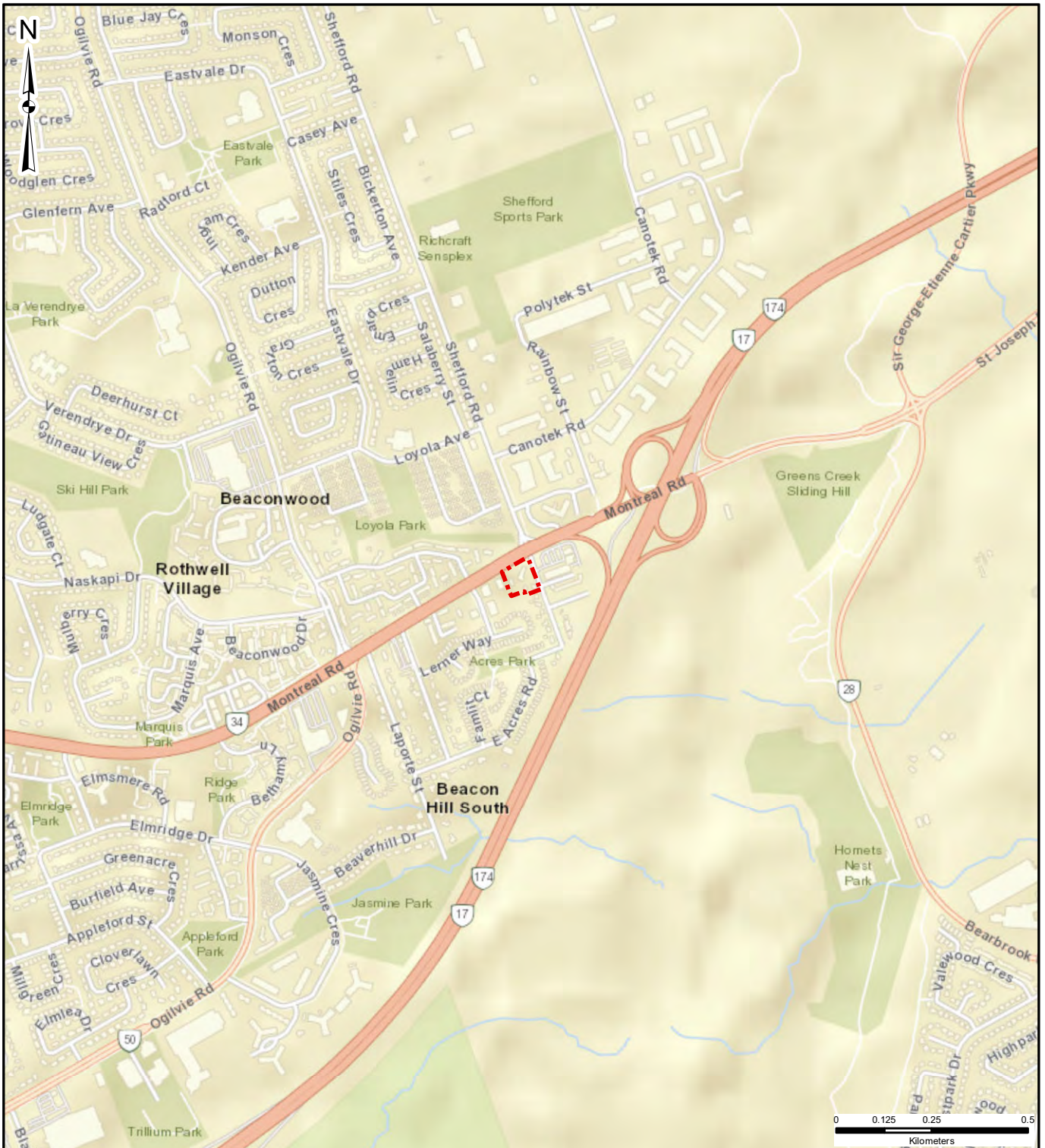
Ontario Regulation 153/04, Records of Site Condition – Part XV.1 of the Act. Ontario Ministry of the Environment. July 1, 2011.

Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act. Ontario Ministry of the Environment. April 15, 2011.

Phase One Environmental Site Assessment, 2180 Montreal Road and 972 Shefford Road, Ottawa, Ontario, prepared by Terrapex for Suncor, dated March 26, 2024.

Background Metals in Champlain Sea Sediments: Updates from 2019 Drilling and Sampling Program, Eastern Ontario – Ottawa Region, prepared by Geofirma Engineering for the City of Ottawa, dated November 30, 2023.

FIGURES



LEGEND		CLIENT:	
 SITE BOUNDARY			
		SITE LOCATION:	
		2180 MONTREAL ROAD OTTAWA, ONTARIO	
			
		TITLE:	
		SITE LOCATION	
DRAWN BY: JS		PROJECT NO.: CO952.00	CHECKED BY: CB
REVISION: 00		DATE: MARCH 2024	FIGURE: 1

DATA SOURCE: ESRI
MAP PROJECTION: NAD 1983 UTM Zone 18N

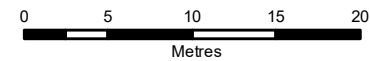
C:\Users\swilliams\OneDrive - TerraPex\Environmental\145_PROJECTS\Ottawa\CO900\CO952.01 2180 Montreal Rd, Ottawa\MXD\CO952.01 FIG 1 SITE LOCATION.mxd

C:\Users\swilliams\OneDrive - Terrapex Environmental Ltd\5_PROJECTS\Ottawa\CO900\CO952.01_2180 Montreal Rd. Ottawa\MXD\CO952.01 FIG 2 GENERAL SITE LAYOUT.mxd



LEGEND

- SITE BOUNDARY
- PARCEL
- MONITORING WELL



DATA SOURCE: CITY OF OTTAWA
MAP PROJECTION: NAD 1983 UTM ZONE 18N

CLIENT:



SITE LOCATION:

2180 MONTREAL ROAD
OTTAWA, ONTARIO



TITLE:

GENERAL SITE LAYOUT

DRAWN BY:

JS/SW

PROJECT NO.:

CO952.01

CHECKED BY:

CB

REVISION:

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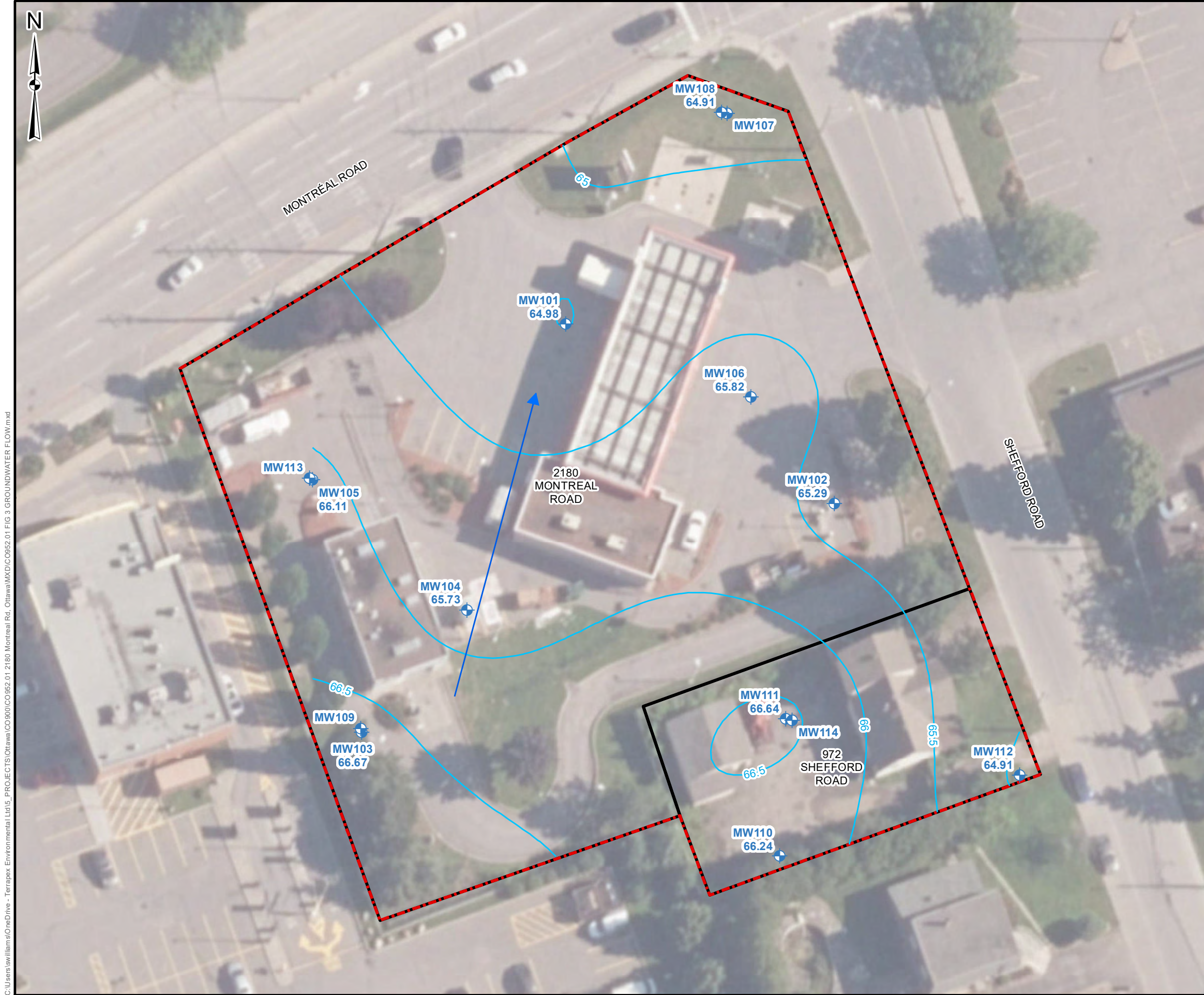
DATE:

APRIL 2024

FIGURE:

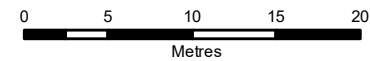
2

C:\Users\swilliams\OneDrive - Terrapex Environmental Ltd\5_PROJECTS\Ottawa\CO900\CO952.01_2180 Montreal Rd. Ottawa\MXD\CO952.01 FIG 3 GROUNDWATER FLOW.mxd



LEGEND

- SITE BOUNDARY
- PARCEL
- MONITORING WELL
- EQUIPOTENTIAL CONTOUR
- GROUNDWATER FLOW DIRECTION
- 65.26 STATIC WATER LEVEL (27 Feb. 2024) (m ASL)



DATA SOURCE: CITY OF OTTAWA
MAP PROJECTION: NAD 1983 UTM ZONE 18N

CLIENT:



SITE LOCATION:

2180 MONTREAL ROAD
OTTAWA, ONTARIO



TITLE:

GROUNDWATER FLOW

DRAWN BY:

JS/SW

PROJECT NO.:

CO952.01

CHECKED BY:

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REVISION:

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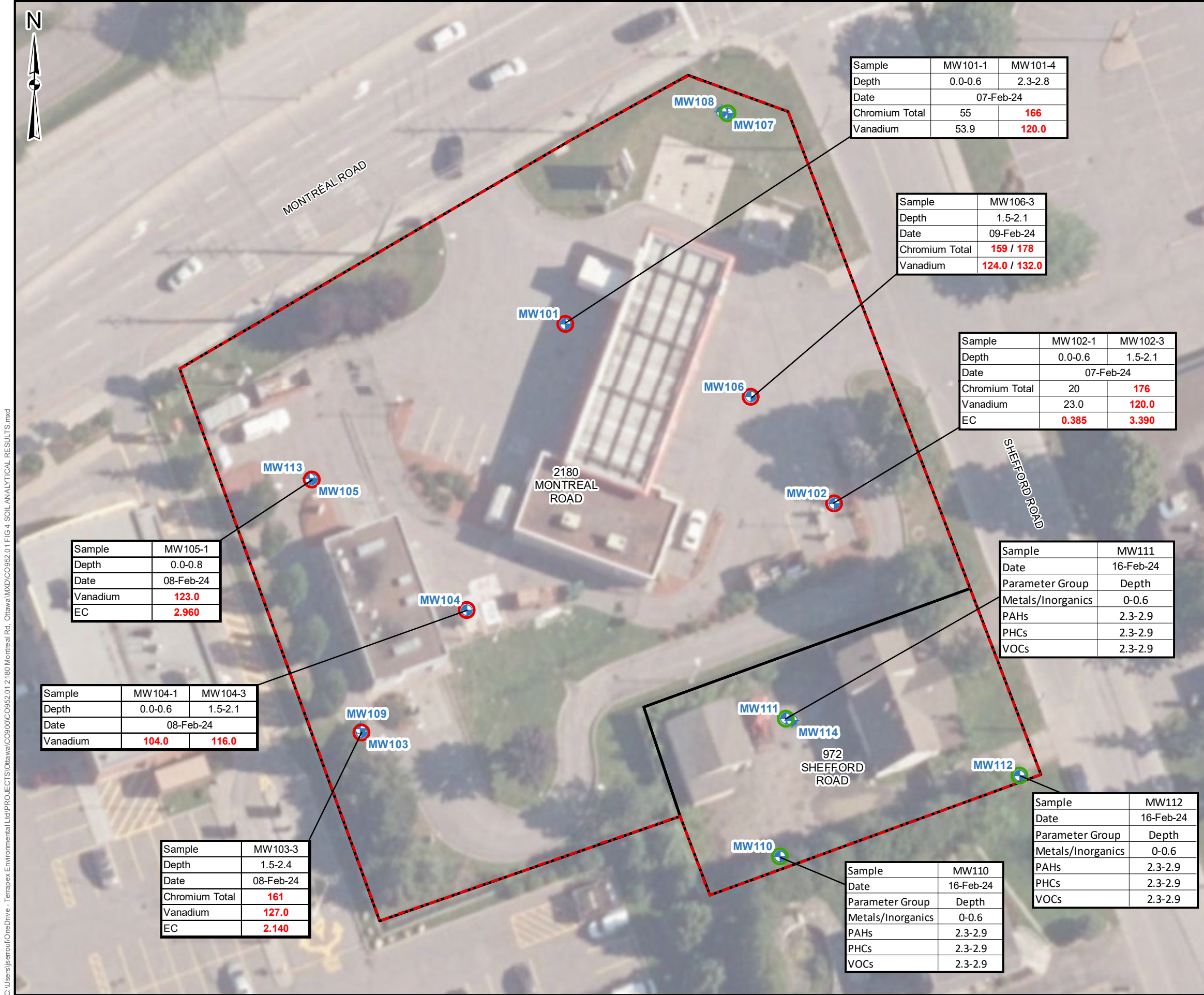
DATE:

APRIL 2024

FIGURE:

3

C:\Users\jserroul\OneDrive - Terrapex Environmental Ltd\PROJECTS\Ottawa\CO952.01 2180 Montreal Rd, Ottawa\MXDCO952.01 FIG 4 SOIL ANALYTICAL RESULTS.mxd



LEGEND

SITE BOUNDARY

PARCEL

MONITORING WELL

ANALYSIS INFORMATION

LESS THAN OR EQUAL TO TABLE 3 SCS

GREATER THAN TABLE 3 SCS

STANDARD INFORMATION

SAMPLE	
DEPTH	
DATE	
PARAMETER	RESULT
Chromium Total	
Vanadium	
Electrical Conductivity (EC)	(mS/cm)

MECP TABLE 3 SCS	
Chromium Total	160
Vanadium	86
Electrical Conductivity (EC)	1.4

MECP TABLE 3: FULL DEPTH GENERIC SCS IN A NON-POTABLE GROUND WATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE WITH FINE TO MEDIUM TEXTURED SOIL.

VALUE GREATER THAN SCS

VALUE LESS THAN OR EQUAL TO SCS

NOTES

- ALL UNITS ARE IN µg/g UNLESS OTHERWISE SPECIFIED
- DEPTHS ARE IN METRES BELOW GROUND SURFACE (mbgs)
- RESULTS PRESENTED AS # / # REPRESENTS PARENT SAMPLE / FIELD DUPLICATE.

05101520

Metres

DATA SOURCE: CITY OF OTTAWA
MAP PROJECTION: NAD 1983 UTM ZONE 18N

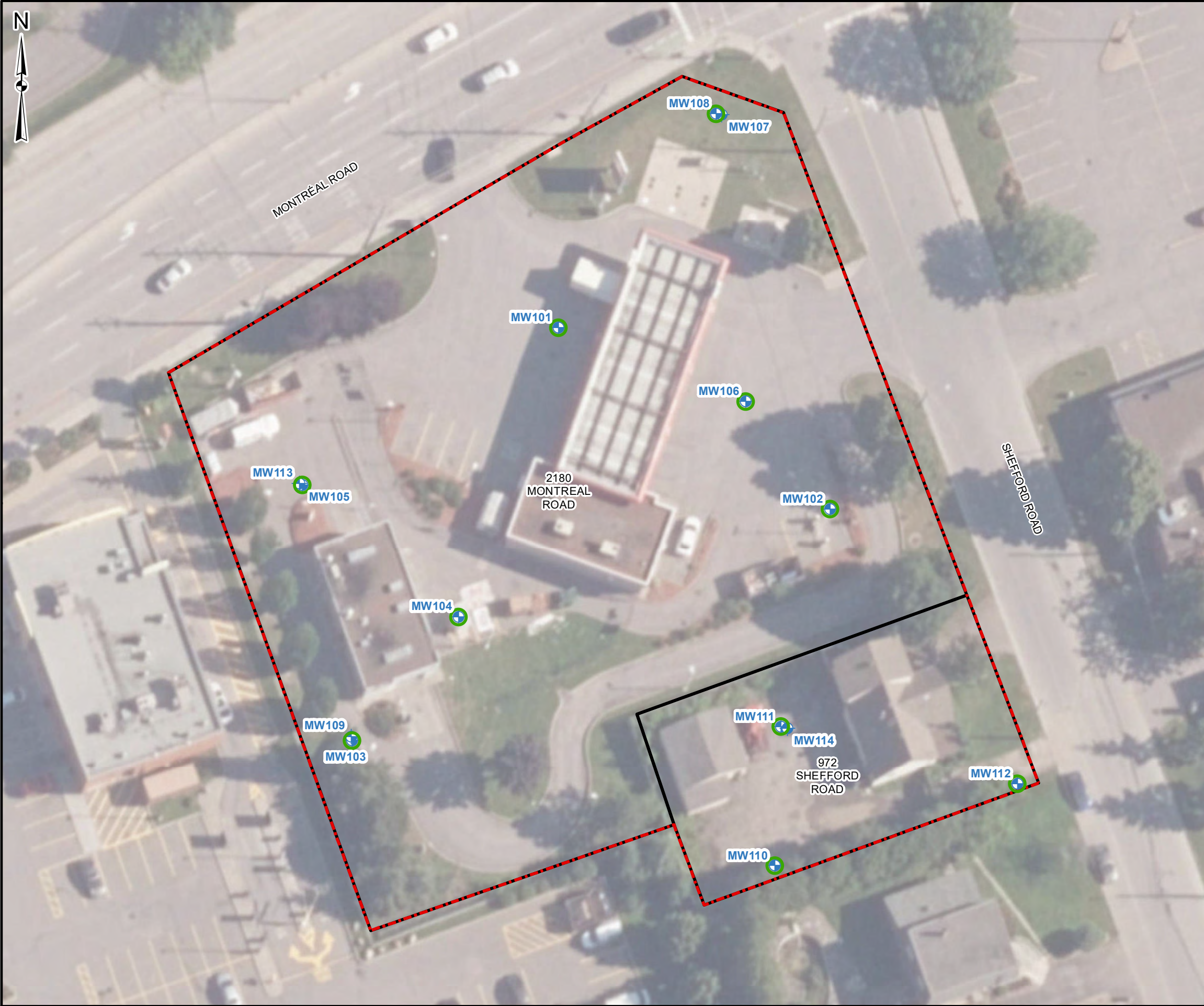
CLIENT:SITE LOCATION:

2180 MONTREAL ROAD
OTTAWA, ONTARIO

SOIL ANALYTICAL RESULTS

DRAWN BY: JS/SW	PROJECT NO.: CO952.01	CHECKED BY: CB
REVISION: 00	DATE: APRIL 2024	FIGURE: 4

C:\Users\swilliams\OneDrive - Terrapex Environmental Ltd\5_PROJECTS\Ottawa\CO900\CO952.01_2180 Montreal Rd. Ottawa\MXD\CO952.01 FIG 5 GROUNDWATER ANALYTICAL RESULTS.mxd



LEGEND

SITE BOUNDARY

PARCEL

MONITORING WELL

ANALYSIS INFORMATION

LESS THAN OR EQUAL TO TABLE 3 SCS

STANDARD INFORMATION

MECP TABLE 3: FULL DEPTH GENERIC SCS IN A NON-POTABLE GROUND WATER CONDITION FOR ALL TYPES OF PROPERTY USE WITH FINE TO MEDIUM TEXTURED SOIL.

VALUE

GREATER THAN SCS

VALUE

LESS THAN OR EQUAL TO SCS

NOTES

1. ALL UNITS ARE IN µg/L UNLESS OTHERWISE SPECIFIED

2. SCREEN INTERVAL IS IN METRES BELOW GROUND SURFACE (mbgs)

3. RESULTS PRESENTED AS # / # REPRESENTS PARENT SAMPLE / FIELD DUPLICATE

051020

Metres

DATA SOURCE: CITY OF OTTAWA
MAP PROJECTION: NAD 1983 UTM ZONE 18N

CLIENT:

SUNCOR

ENERGY

SITE LOCATION:

2180 MONTREAL ROAD
OTTAWA, ONTARIO

TERRAPEX

TITLE:

GROUNDWATER ANALYTICAL RESULTS

DRAWN BY:	PROJECT NO.:	CHECKED BY:
JS/SW	CO952.01	CB
REVISION:	DATE:	FIGURE:
00	APRIL 2024	5

TABLES

TABLE 1

**GROUNDWATER MONITORING DATA
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

WELL NUMBER	DATE	GROUND ELEVATION ¹ (m)	T.O.P. ELEVATION ² (m)	SCREEN LENGTH (m)	BOTTOM OF SCREEN ³ (m)	CV ⁴	DEPTH TO WATER FROM T.O.P. (m)	DEPTH TO WATER FROM GROUND (m)	GROUNDWATER ELEVATION ⁵ (m)	LNAPL THICKNESS ⁶ (m)
MW101	27-Feb-24	67.46	67.30	3.05	62.73	15 ppm	2.31	2.48	64.98	None
MW101	18-Mar-24	67.46	67.30	3.05	62.73	<5 ppm	1.48	1.64	65.82	None
MW101	28-Mar-24	67.46	67.30	3.05	62.73	<5 ppm	1.22	1.38	66.08	None
MW102	27-Feb-24	67.28	67.18	3.05	62.61	<5 ppm	1.89	1.99	65.29	None
MW102	18-Mar-24	67.28	67.18	3.05	62.61	<5 ppm	1.63	1.73	65.55	None
MW102	28-Mar-24	67.28	67.90	3.05	62.61	<5 ppm	1.58	1.68	65.60	None
MW103	27-Feb-24	67.90	67.80	3.05	63.25	<5 ppm	1.13	1.23	66.67	None
MW103	18-Mar-24	67.90	67.80	3.05	63.25	<5 ppm	1.93	2.03	65.87	None
MW103	28-Mar-24	67.90	67.80	3.05	63.25	<5 ppm	1.46	1.56	66.34	None
MW104	27-Feb-24	67.54	67.45	3.05	62.85	<5 ppm	1.72	1.81	65.73	None
MW104	18-Mar-24	67.54	67.45	3.05	62.85	<5 ppm	1.52	1.61	65.93	None
MW104	28-Mar-24	67.54	67.45	3.05	62.85	<5 ppm	1.20	1.29	66.25	None
MW105	27-Feb-24	67.69	67.53	3.05	62.93	<5 ppm	1.42	1.58	66.11	None
MW105	18-Mar-24	67.69	67.53	3.05	62.93	<5 ppm	1.24	1.40	66.29	None
MW105	28-Mar-24	67.69	67.53	3.05	62.93	<5 ppm	1.19	1.35	66.34	None
MW106	27-Feb-24	67.07	66.95	3.05	62.35	<5 ppm	1.13	1.25	65.82	None
MW106	18-Mar-24	67.07	66.95	3.05	62.35	<5 ppm	0.96	1.08	65.99	None
MW106	28-Mar-24	67.07	66.95	3.05	62.35	<5 ppm	0.87	0.98	66.08	None
MW107 (deep)	27-Feb-24	67.41	67.42	1.52	60.41	<5 ppm	2.14	2.14	65.28	None
MW107 (deep)	18-Mar-24	67.41	67.42	1.52	60.41	<5 ppm	2.00	1.99	65.42	None
MW107 (deep)	28-Mar-24	67.41	67.42	1.52	60.41	<5 ppm	1.65	1.65	65.76	None
MW108	27-Feb-24	67.44	67.29	3.05	67.44	<5 ppm	2.39	2.54	64.91	None
MW108	18-Mar-24	67.44	67.29	3.05	62.72	<5 ppm	1.79	1.94	65.51	None
MW108	28-Mar-24	67.44	67.29	3.05	62.72	<5 ppm	1.71	1.86	65.58	None
MW109 (deep)	27-Feb-24	67.88	67.69	1.52	60.68	-	-	-	-	-
MW109 (deep)	18-Mar-24	67.88	67.69	1.52	60.68	<5 ppm	1.61	1.80	66.08	None
MW109 (deep)	28-Mar-24	67.88	67.69	1.52	60.68	<5 ppm	1.41	1.60	66.28	None
MW110	27-Feb-24	67.84	67.71	3.05	67.84	5 ppm	1.47	1.61	66.24	None
MW110	18-Mar-24	67.84	67.71	3.05	67.84	<5 ppm	1.77	1.91	65.94	None
MW110	28-Mar-24	67.84	67.71	3.05	67.84	<5 ppm	0.93	1.07	66.78	None
MW111	27-Feb-24	67.82	67.66	3.05	67.82	<5 ppm	1.02	1.18	66.64	None
MW111	18-Mar-24	67.82	67.66	3.05	67.82	185 ppm	0.72	0.88	66.94	None
MW111	28-Mar-24	67.82	67.66	3.05	67.82	<5 ppm	0.56	0.72	67.10	None
MW112	27-Feb-24	67.47	67.37	3.05	67.47	<5 ppm	2.46	2.55	64.91	None
MW112	18-Mar-24	67.47	67.37	3.05	62.80	<5 ppm	1.04	1.13	66.33	None
MW112	28-Mar-24	67.47	67.37	3.05	67.64	<5 ppm	1.42	1.52	65.95	None

MW113 (deep)	18-Mar-24	67.64	67.54	1.50	60.53	175 ppm	1.24	1.35	66.29	None
MW113 (deep)	28-Mar-24	67.64	67.54	1.50	60.53	<5 ppm	1.25	1.36	66.28	None
MW114 (deep)	18-Mar-24	67.80	67.62	1.50	60.61	370 ppm	1.48	1.65	66.15	None
MW114 (deep)	28-Mar-24	67.80	67.62	1.50	60.61	<5 ppm	1.30	1.47	66.32	None

¹ Elevation of ground surface at well location, relative to site benchmark

² Elevation of highest point of well pipe ("top of pipe"), relative to site benchmark

³ Elevation of bottom of well screened interval, relative to site benchmark

⁴ Combustible vapour concentration in well headspace in parts per million by volume (ppm) or percent of lower explosive limit (%LEL)

⁵ Static water level elevation, relative to site benchmark

⁶ Measured thickness of light, non-aqueous phase liquid, if any

**TABLE 2A SOIL ANALYTICAL RESULTS
(METALS AND INORGANICS)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 I/C/C fine/medium	MW101-1	MW101-4	MW102-1	MW102-3	MW103-3	MW104-1	MW104-3
Vapour Reading	see note	-	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm
Sample Depth	m bg	-	0-0.6	2.3-2.8	0-0.6	1.5-2.1	1.5-2.4	0-0.6	1.5-2.1
Sampling Date	dd-mmm-yy	-	7-Feb-24	7-Feb-24	8-Feb-24	8-Feb-24	8-Feb-24	8-Feb-24	8-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	21-Feb-24	21-Feb-24	21-Feb-24	21-Feb-24	21-Feb-24	21-Feb-24	21-Feb-24
Certificate of Analysis No.	-	-	24Z120314	24Z120314	24Z120314	24Z120314	24Z120314	24Z120314	24Z120314
pH	pH Units	NV	7.01	6.99	7.11	7.11	7.24	7.24	7.04
Antimony	ug/g	50	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	ug/g	18	3	2	2	2	2	3	3
Barium	ug/g	670	190	295	258	324	406	309	317
Beryllium	ug/g	10	<0.5	0.6	<0.5	0.7	0.6	0.5	0.7
Boron (total)	ug/g	120	7	6	10	6	<5	8	8
Boron (Hot Water Soluble) ¹	ug/g	2.0	0.12	-	0.18	-	-	0.19	-
Cadmium	ug/g	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chromium Total	ug/g	160	55	166	20	176	161	129	146
Chromium VI	ug/g	10	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cobalt	ug/g	100	11.0	27.8	4.9	26.8	26.2	23.5	27.0
Copper	ug/g	300	21.5	60.9	8.7	69.2	55.5	49.7	60.5
Cyanide (CN-)	ug/g	0.051	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Lead	ug/g	120	13	10	12	11	9	11	11
Mercury	ug/g	20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Methyl Mercury ²	ug/g	0.0094	-	-	-	-	-	-	-
Molybdenum	ug/g	40	1.0	0.6	1.8	0.6	0.6	1.0	0.90
Nickel	ug/g	340	29	85	19	89	79	70	78
Selenium	ug/g	5.5	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Silver	ug/g	50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	ug/g	3.3	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5
Uranium	ug/g	33	1.01	1.27	0.61	1.74	1.57	1.47	1.54
Vanadium	ug/g	86	53.9	120.0	23.0	120.0	127.0	104.0	116.0
Zinc	ug/g	340	81	150	32	164	176	125	152
Electrical Conductivity (mS/cm)	mS/cm	1.4	0.350	0.363	0.385	3.390	2.140	0.456	1.300
Sodium Adsorption Ratio	N/A	12	1.60	1.07	1.60	2.43	3.67	3.93	1.28

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
RPD Relative percent difference
Value Exceeds standard
Value Detection limit exceeds standard

¹ Hot water soluble boron applies to surface soils (<1.5 m bg).

² Analysis for methyl mercury only applies when mercury
standard is exceeded.

**TABLE 2A SOIL ANALYTICAL RESULTS
(METALS AND INORGANICS)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 I/C/C fine/medium	MW105-1	MW106-3	MW106-13 Field Duplicate of MW106-3	RPD	MW110-1	MW111-1	MW112-1
Vapour Reading	see note	-	<5 ppm	<5 ppm	<5 ppm		<5 ppm	<5 ppm	<5 ppm
Sample Depth	m bg	-	0-0.8	1.5-2.1	1.5-2.1		0-0.6	0-0.6	0-0.6
Sampling Date	dd-mmm-yy	-	8-Feb-24	9-Feb-24	9-Feb-24		16-Feb-24	16-Feb-24	16-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	21-Feb-24	21-Feb-24	21-Feb-24		1-Mar-24	1-Mar-24	1-Mar-24
Certificate of Analysis No.	-	-	24Z120314	24Z120314	24Z120314		24Z124184	24Z124184	24Z124184
pH	pH Units	NV	7.07	6.91	6.75	-	6.78	6.94	6.92
Antimony	ug/g	50	<0.8	<0.8	<0.8	-	<0.8	<0.8	<0.8
Arsenic	ug/g	18	2	3	3	-	2	1	<1
Barium	ug/g	670	380	327	340	4%	101	90.1	71.8
Beryllium	ug/g	10	0.6	0.7	0.7	-	<0.5	<0.5	<0.5
Boron (total)	ug/g	120	<5	9	7	-	<5	<5	<5
Boron (Hot Water Soluble) ¹	ug/g	2.0	<0.10	-	-	-	0.11	<0.10	<0.10
Cadmium	ug/g	1.9	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
Chromium Total	ug/g	160	136	159	178	11%	37	35	17
Chromium VI	ug/g	10	<0.2	<0.2	<0.2	-	<0.2	<0.2	<0.2
Cobalt	ug/g	100	28.0	26.0	29.1	11%	10.2	9.0	5.0
Copper	ug/g	300	56.7	59.6	68.0	13%	19.0	16.5	10.5
Cyanide (CN-)	ug/g	0.051	<0.040	<0.040	<0.040	-	<0.040	<0.040	<0.040
Lead	ug/g	120	9	10	11	10%	21	5	4
Mercury	ug/g	20	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Methyl Mercury ²	ug/g	0.0094	-	-	-	-	-	-	-
Molybdenum	ug/g	40	0.6	0.5	0.6	-	0.8	0.9	1.1
Nickel	ug/g	340	73	77	92	18%	19	18	8
Selenium	ug/g	5.5	<0.8	<0.8	<0.8	-	<0.8	<0.8	<0.8
Silver	ug/g	50	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
Thallium	ug/g	3.3	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5
Uranium	ug/g	33	1.38	1.56	1.65	-	0.58	0.60	<0.50
Vanadium	ug/g	86	123.0	124.0	132.0	6%	35.3	31.5	16.6
Zinc	ug/g	340	159	159	169	6%	109	39	15
Electrical Conductivity (mS/cm)	mS/cm	1.4	2.960	0.784	0.864	10%	0.392	0.537	0.395
Sodium Adsorption Ratio	N/A	12	8.32	1.05	1.04	-	3.21	4.29	3.83

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
RPD Relative percent difference
Value Exceeds standard
Value Detection limit exceeds standard

¹ Hot water soluble boron applies to surface soils (<1.5 m bg).

² Analysis for methyl mercury only applies when mercury
standard is exceeded.

**TABLE 2B SOIL ANALYTICAL RESULTS
(BTEX AND PHCs)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 I/C/C fine/medium	MW101-4	MW102-3	MW103-3	MW104-3	MW105-3
Vapour Reading	see note	-	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm
Sample Depth	m bg	-	2.3-2.8	1.5-2.1	1.5-2.4	1.5-2.1	1.5-2.3
Sampling Date	dd-mmm-yy	-	7-Feb-24	8-Feb-24	8-Feb-24	8-Feb-24	8-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	20-Feb-24	20-Feb-24	20-Feb-24	20-Feb-24	20-Feb-24
Certificate of Analysis No.	-	-	24Z120314	24Z120314	24Z120314	24Z120314	24Z120314
Benzene	-	0.40	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	-	78	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	-	19	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene Mixture	-	30	<0.05	<0.05	<0.05	<0.05	<0.05
Petroleum Hydrocarbons F1 ¹	-	65	<5	<5	<5	<5	<5
Petroleum Hydrocarbons F2	-	250	<10	<10	<10	<10	<10
Petroleum Hydrocarbons F3	-	2,500	<50	<50	<50	<50	<50
Petroleum Hydrocarbons F4	-	6,600	<50	<50	<50	<50	<50

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
ppm parts per million
% LEL percent of the lower explosive limit
RPD Relative percent difference
Value Exceeds standard
Value Detection limit exceeds standard
¹ F1 fraction does not include BTEX.

**TABLE 2B SOIL ANALYTICAL RESULTS
(BTEX AND PHCs)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 I/C/C fine/medium	MW106-3	MW106-13 Field Duplicate of MW106-3	RPD	MW107-4	MW110-4	MW111-4
Vapour Reading	see note	-	<5 ppm	<5 ppm	-	<5 ppm	<5 ppm	<5 ppm
Sample Depth	m bg	-	1.5-2.1	1.5-2.1	-	2.3-2.9	2.3-2.9	2.3-2.9
Sampling Date	dd-mmm-yy	-	9-Feb-24	9-Feb-24	-	9-Feb-24	16-Feb-24	16-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	20-Feb-24	20-Feb-24	-	20-Feb-24	1-Mar-24	1-Mar-24
Certificate of Analysis No.	-	-	24Z120314	24Z120314	-	24Z120314	24Z124184	24Z124184
Benzene	-	0.40	<0.02	<0.02	-	<0.02	<0.02	<0.02
Toluene	-	78	<0.05	<0.05	-	<0.05	<0.05	<0.05
Ethylbenzene	-	19	<0.05	<0.05	-	<0.05	<0.05	<0.05
Xylene Mixture	-	30	<0.05	<0.05	-	<0.05	<0.05	<0.05
Petroleum Hydrocarbons F1 ¹	-	65	<5	<5	-	<5	<5	<5
Petroleum Hydrocarbons F2	-	250	<10	<10	-	<10	<10	<10
Petroleum Hydrocarbons F3	-	2,500	<50	<50	-	<50	<50	<50
Petroleum Hydrocarbons F4	-	6,600	<50	<50	-	<50	<50	<50

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
ppm parts per million
% LEL percent of the lower explosive limit
RPD Relative percent difference
Value Exceeds standard
Value Detection limit exceeds standard
¹ F1 fraction does not include BTEX.

**TABLE 2B SOIL ANALYTICAL RESULTS
(BTEX AND PHCs)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 I/C/C fine/medium	MW112-4	Methanol Blank	Methanol Blank
Vapour Reading	see note	-	<5 ppm	-	-
Sample Depth	m bg	-	2.3-2.9	-	-
Sampling Date	dd-mmm-yy	-	16-Feb-24	9-Feb-24	16-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	1-Mar-24	16-Feb-24	29-Feb-24
Certificate of Analysis No.	-	-	24Z124184	24Z120314	24Z124184
Benzene	-	0.40	<0.02	<0.02	<0.02
Toluene	-	78	<0.05	<0.05	<0.05
Ethylbenzene	-	19	<0.05	<0.05	<0.05
Xylene Mixture	-	30	<0.05	<0.05	<0.05
Petroleum Hydrocarbons F1 ¹	-	65	<5	<5	<5
Petroleum Hydrocarbons F2	-	250	<10	-	-
Petroleum Hydrocarbons F3	-	2,500	<50	-	-
Petroleum Hydrocarbons F4	-	6,600	<50	-	-

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
m bg meters below grade
ppm parts per million
% LEL percent of the lower explosive limit
RPD Relative percent difference
Value Exceeds standard
Value Detection limit exceeds standard
¹ F1 fraction does not include BTEX.

TABLE 2C SOIL ANALYTICAL RESULTS
(VOCs EXCL. BTEX)
2180 MONTREAL ROAD, OTTAWA, ONTARIO

Sample Name	Units	STANDARDS Table 3 I/C/C fine/medium	MW101-4	MW102-3	MW103-3	MW104-3	MW105-3	MW106-3	MW106-13 Field Duplicate of MW106-3	RPD	MW107-4
Vapour Reading	see note	-	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm	-	<5 ppm
Sample Depth	m bg	-	2.3-2.8	1.5-2.1	1.5-2.4	1.5-2.1	1.5-2.3	1.5-2.1	1.5-2.1	-	2.3-2.9
Sampling Date	dd-mmm-yy	-	7-Feb-24	8-Feb-24	8-Feb-24	8-Feb-24	8-Feb-24	9-Feb-24	9-Feb-24	-	9-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	16-Feb-24	16-Feb-24	16-Feb-24	16-Feb-24	16-Feb-24	16-Feb-24	16-Feb-24	-	16-Feb-24
Certificate of Analysis No.	-	-	24Z120314	24Z120314	24Z120314	24Z120314	24Z120314	24Z120314	24Z120314	-	24Z120314
Acetone	-	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50
Bromodichloromethane	-	18	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Bromoform	-	1.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Bromomethane	-	0.050	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Carbon Tetrachloride	-	1.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Chlorobenzene	-	2.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Chloroform	-	0.18	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	<0.04
Dibromochloromethane	-	13	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Dichlorobenzene, 1,2-	-	8.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Dichlorobenzene, 1,3-	-	12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Dichlorobenzene, 1,4-	-	0.84	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Dichlorodifluoromethane	-	25	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Dichloroethane, 1,1-	-	21	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<0.02
Dichloroethane, 1,2-	-	0.050	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03
Dichloroethylene, 1,1-	-	0.48	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Dichloroethylene, 1,2-cis-	-	37	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<0.02
Dichloroethylene, 1,2-trans-	-	9.3	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Dichloropropane, 1,2-	-	0.68	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03
Dichloropropene, 1,3-	-	0.21	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Ethylene dibromide	-	0.050	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	<0.04
Hexane (n)	-	88	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Methyl Ethyl Ketone	-	88	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50
Methyl Isobutyl Ketone	-	210	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50
Methyl tert-Butyl Ether (MTBE)	-	3.2	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Methylene Chloride	-	2.0	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Styrene	-	43	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Tetrachloroethane, 1,1,1,2-	-	0.11	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	<0.04
Tetrachloroethane, 1,1,2,2-	-	0.094	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Tetrachloroethylene	-	21	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Trichloroethane, 1,1,1-	-	12	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Trichloroethane, 1,1,2-	-	0.11	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	-	<0.04
Trichloroethylene	-	0.61	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	-	<0.03
Trichlorofluoromethane	-	5.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	<0.05
Vinyl Chloride	-	0.25	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	-	<0.02

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

TABLE 2C SOIL ANALYTICAL RESULTS
(VOCs EXCL. BTEX)
2180 MONTREAL ROAD, OTTAWA, ONTARIO

Sample Name	Units	STANDARDS Table 3 I/C/C fine/medium	MW110-4	MW111-4	MW112-4	Methanol Blank	Methanol Blank
Vapour Reading	see note	-	<5 ppm	<5 ppm	<5 ppm	-	-
Sample Depth	m bg	-	2.3-2.9	2.3-2.9	2.3-2.9	-	-
Sampling Date	dd-mmm-yy	-	16-Feb-24	16-Feb-24	16-Feb-24	9-Feb-24	16-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	29-Feb-24	29-Feb-24	29-Feb-24	16-Feb-24	29-Feb-24
Certificate of Analysis No.	-	-	24Z124184	24Z124184	24Z124184	24Z120314	24Z124184
Acetone	-	28	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	-	18	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	-	1.7	<0.05	<0.05	<0.05	<0.05	<0.05
Bromomethane	-	0.050	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	-	1.5	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene	-	2.7	<0.05	<0.05	<0.05	<0.05	<0.05
Chloroform	-	0.18	<0.04	<0.04	<0.04	<0.04	<0.04
Dibromochloromethane	-	13	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene, 1,2-	-	8.5	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene, 1,3-	-	12	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene, 1,4-	-	0.84	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorodifluoromethane	-	25	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethane, 1,1-	-	21	<0.02	<0.02	<0.02	<0.02	<0.02
Dichloroethane, 1,2-	-	0.050	<0.03	<0.03	<0.03	<0.03	<0.03
Dichloroethylene, 1,1-	-	0.48	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethylene, 1,2-cis-	-	37	<0.02	<0.02	<0.02	<0.02	<0.02
Dichloroethylene, 1,2-trans-	-	9.3	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloropropane, 1,2-	-	0.68	<0.03	<0.03	<0.03	<0.03	<0.03
Dichloropropene, 1,3-	-	0.21	<0.05	<0.05	<0.05	<0.04	<0.04
Ethylene dibromide	-	0.050	<0.04	<0.04	<0.04	<0.04	<0.04
Hexane (n)	-	88	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Ethyl Ketone	-	88	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	-	210	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl tert-Butyl Ether (MTBE)	-	3.2	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	-	2.0	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	-	43	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,1,2-	-	0.11	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethane, 1,1,2,2-	-	0.094	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethylene	-	21	<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethane, 1,1,1-	-	12	<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethane, 1,1,2-	-	0.11	<0.04	<0.04	<0.04	<0.04	<0.04
Trichloroethylene	-	0.61	<0.03	<0.03	<0.03	<0.03	<0.03
Trichlorofluoromethane	-	5.8	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	-	0.25	<0.02	<0.02	<0.02	<0.02	<0.02

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

**TABLE 2D SOIL ANALYTICAL RESULTS
(PAHs)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 I/C/C fine/medium	MW101-1	MW101-4	MW102-1	MW102-3	MW103-3
Vapour Reading	see note	-	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm
Sample Depth	m bg	-	0-0.6	2.3-2.8	0-0.6	1.5-2.1	1.5-2.4
Sampling Date	dd-mmm-yy	-	7-Feb-24	7-Feb-24	8-Feb-24	8-Feb-24	8-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	21-Feb-24	21-Feb-24	21-Feb-24	21-Feb-24	21-Feb-24
Certificate of Analysis No.	-	-	24Z120314	24Z120314	24Z120314	24Z120314	24Z120314
Acenaphthene	ug/g	96	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	ug/g	0.17	0.07	<0.05	<0.05	<0.05	<0.05
Anthracene	ug/g	0.74	0.07	<0.05	<0.05	<0.05	<0.05
Benz[a]anthracene	ug/g	0.96	0.09	<0.05	<0.05	<0.05	<0.05
Benzo[a]pyrene	ug/g	0.30	0.05	<0.05	<0.05	<0.05	<0.05
Benzo[b]fluoranthene	ug/g	0.96	0.09	<0.05	0.05	<0.05	<0.05
Benzo[ghi]perylene	ug/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05
Benzo[k]fluoranthene	ug/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	ug/g	9.6	0.09	<0.05	<0.05	<0.05	<0.05
Dibenz[a h]anthracene	ug/g	0.10	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	ug/g	9.6	0.22	<0.05	0.12	<0.05	<0.05
Fluorene	ug/g	69	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno[1 2 3-cd]pyrene	ug/g	0.95	<0.05	<0.05	<0.05	<0.05	<0.05
Methylnaphthalene, 2-(1-) ¹	ug/g	85	<0.05	<0.05	<0.05	<0.05	<0.05
Naphthalene	ug/g	28	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	ug/g	16	0.10	<0.05	0.06	<0.05	<0.05
Pyrene	ug/g	96	0.21	<0.05	0.10	<0.05	<0.05

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

¹ the sum of 1-methylnaphthalene and 2- methylnaphthalene.

**TABLE 2D SOIL ANALYTICAL RESULTS
(PAHs)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 I/C/C fine/medium	MW104-1	MW104-3	MW105-1	MW105-3	MW106-3
Vapour Reading	see note	-	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm
Sample Depth	m bg	-	0-0.6	1.5-2.1	0-0.8	1.5-2.3	1.5-2.1
Sampling Date	dd-mmm-yy	-	8-Feb-24	8-Feb-24	8-Feb-24	8-Feb-24	9-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	21-Feb-24	21-Feb-24	21-Feb-24	21-Feb-24	21-Feb-24
Certificate of Analysis No.	-	-	24Z120314	24Z120314	24Z120314	24Z120314	24Z120314
Acenaphthene	ug/g	96	0.09	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	ug/g	0.17	<0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	ug/g	0.74	0.28	<0.05	<0.05	<0.05	<0.05
Benz[a]anthracene	ug/g	0.96	0.33	<0.05	<0.05	<0.05	<0.05
Benzo[a]pyrene	ug/g	0.30	0.20	<0.05	<0.05	0.05	<0.05
Benzo[b]fluoranthene	ug/g	0.96	0.32	<0.05	<0.05	<0.05	<0.05
Benzo[ghi]perylene	ug/g	9.6	0.10	<0.05	<0.05	<0.05	<0.05
Benzo[k]fluoranthene	ug/g	0.96	0.10	<0.05	<0.05	<0.05	<0.05
Chrysene	ug/g	9.6	0.27	<0.05	<0.05	<0.05	<0.05
Dibenz[a h]anthracene	ug/g	0.10	<0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	ug/g	9.6	0.71	<0.05	<0.05	<0.05	<0.05
Fluorene	ug/g	69	0.11	<0.05	<0.05	<0.05	<0.05
Indeno[1 2 3-cd]pyrene	ug/g	0.95	0.08	<0.05	<0.05	<0.05	<0.05
Methylnaphthalene, 2-(1-) ¹	ug/g	85	<0.05	<0.05	<0.05	<0.05	<0.05
Naphthalene	ug/g	28	<0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	ug/g	16	0.68	<0.05	<0.05	<0.05	<0.05
Pyrene	ug/g	96	0.57	<0.05	<0.05	<0.05	<0.05

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

¹ the sum of 1-methylnaphthalene and 2- methylnaphthalene.

**TABLE 2D SOIL ANALYTICAL RESULTS
(PAHs)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 I/C/C fine/medium	MW106-13 Field Duplicate of MW106-3	RPD	MW107-4	MW110-4	MW111-4	MW112-4
Vapour Reading	see note	-	<5 ppm		<5 ppm	<5 ppm	<5 ppm	<5 ppm
Sample Depth	m bg	-	1.5-2.1		2.3-2.9	2.3-2.9	2.3-2.9	2.3-2.9
Sampling Date	dd-mmm-yy	-	9-Feb-24		9-Feb-24	16-Feb-24	16-Feb-24	16-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	21-Feb-24		21-Feb-24	1-Mar-24	1-Mar-24	1-Mar-24
Certificate of Analysis No.	-	-	24Z120314		24Z120314	24Z124184	24Z124184	24Z124184
Acenaphthene	ug/g	96	<0.05	-	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	ug/g	0.17	<0.05	-	<0.05	<0.05	<0.05	<0.05
Anthracene	ug/g	0.74	<0.05	-	<0.05	<0.05	<0.05	<0.05
Benz[a]anthracene	ug/g	0.96	<0.05	-	<0.05	<0.05	<0.05	<0.05
Benzo[a]pyrene	ug/g	0.30	<0.05	-	<0.05	<0.05	<0.05	<0.05
Benzo[b]fluoranthene	ug/g	0.96	<0.05	-	<0.05	<0.05	<0.05	<0.05
Benzo[ghi]perylene	ug/g	9.6	<0.05	-	<0.05	<0.05	<0.05	<0.05
Benzo[k]fluoranthene	ug/g	0.96	<0.05	-	<0.05	<0.05	<0.05	<0.05
Chrysene	ug/g	9.6	<0.05	-	<0.05	<0.05	<0.05	<0.05
Dibenz[a h]anthracene	ug/g	0.10	<0.05	-	<0.05	<0.05	<0.05	<0.05
Fluoranthene	ug/g	9.6	<0.05	-	<0.05	<0.05	<0.05	<0.05
Fluorene	ug/g	69	<0.05	-	<0.05	<0.05	<0.05	<0.05
Indeno[1 2 3-cd]pyrene	ug/g	0.95	<0.05	-	<0.05	<0.05	<0.05	<0.05
Methylnaphthalene, 2-(1-) ¹	ug/g	85	<0.05	-	<0.05	<0.05	<0.05	<0.05
Naphthalene	ug/g	28	<0.05	-	<0.05	<0.05	<0.05	<0.05
Phenanthrene	ug/g	16	<0.05	-	<0.05	<0.05	<0.05	<0.05
Pyrene	ug/g	96	<0.05	-	<0.05	<0.05	<0.05	<0.05

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition
Industrial/Commercial/Community Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

m bg meters below grade

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

¹ the sum of 1-methylnaphthalene and 2- methylnaphthalene.

**TABLE 2E SOIL ANALYTICAL RESULTS
(PCBs)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 I/C/C fine/medium	GS-1
Vapour Reading	see note	-	<5 ppm
Sample Depth	m bg	-	0-0.3
Sampling Date	dd-mmm-yy	-	14-Mar-24
Analysis Date (on or before)	dd-mmm-yy	-	21-Mar-24
Certificate of Analysis No.	-	-	24Z130493
Polychlorinated Biphenyls	-	1.1	<0.1

**TABLE 3A GROUNDWATER ANALYTICAL RESULTS
(METALS AND INORGANICS)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 fine/medium	MW101	MW1101 Field Duplicate of MW101	RPD	MW102	MW103	MW104	MW105
Vapour Reading	see note	-	15 ppm	15 ppm	-	<5 ppm	<5 ppm	<5 ppm	<5 ppm
Sampling Date	dd-mmm-yy	-	27-Feb-24	27-Feb-24	-	27-Feb-24	27-Feb-24	27-Feb-24	27-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	2-Mar-24	2-Mar-24	-	2-Mar-24	2-Mar-24	2-Mar-24	2-Mar-24
Certificate of Analysis No.	-	-	24Z124905	24Z124905	-	24Z124905	24Z124905	24Z124905	24Z124905
Antimony	ug/L	20,000	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Arsenic	ug/L	1,900	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Barium	ug/L	29,000	44.1	44.9	2%	87.7	194.0	55.9	108.0
Beryllium	ug/L	67	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
Boron (total)	ug/L	45,000	51.3	52.4	2%	62.5	65.2	52.7	53.2
Cadmium	ug/L	2.7	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20
Chromium Total	ug/L	810	<2.0	<2.0	-	<2.0	<2.0	<2.0	7.2
Cobalt	ug/L	66	<0.50	<0.50	-	<0.50	1.02	<0.50	<0.50
Copper	ug/L	87	3.0	3.3	-	2.2	2.3	1.3	1.4
Lead	ug/L	25	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
Molybdenum	ug/L	9,200	5.49	6.41	15%	4.37	6.86	3.16	4.48
Nickel	ug/L	490	3.2	1.9	-	4.2	7.5	2.6	7.9
Selenium	ug/L	63	<1.0	<1.0	-	<1.0	<1.0	1.8	2.2
Silver	ug/L	1.5	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20
Thallium	ug/L	510	<0.30	<0.30	-	<0.30	<0.30	<0.30	<0.30
Uranium	ug/L	420	18.40	18.50	1%	29.80	26.20	14.00	24.10
Vanadium	ug/L	250	2.28	2.54	11%	1.42	1.55	1.87	1.80
Zinc	ug/L	1,100	17.3	5.7	-	<5.0	5.2	<5.0	<5.0

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

**TABLE 3A GROUNDWATER ANALYTICAL RESULTS
(METALS AND INORGANICS)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 fine/medium	MW106	MW108	MW110	MW1121 Field Duplicate of MW110	RPD	MW111	MW112
Vapour Reading	see note	-	<5 ppm	<5 ppm	5 ppm	5 ppm	-	<5 ppm	<5 ppm
Sampling Date	dd-mmm-yy	-	27-Feb-24	27-Feb-24	27-Feb-24	27-Feb-24	-	27-Feb-24	27-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	2-Mar-24	2-Mar-24	2-Mar-24	2-Mar-24	-	2-Mar-24	2-Mar-24
Certificate of Analysis No.	-	-	24Z124905	24Z124905	24Z124905	24Z124905	-	24Z124905	24Z124905
Antimony	ug/L	20,000	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0
Arsenic	ug/L	1,900	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0
Barium	ug/L	29,000	67.2	128.0	83.2	86.5	4%	85.6	69.4
Beryllium	ug/L	67	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Boron (total)	ug/L	45,000	47.1	28.3	40.6	44.3	-	40.9	49.4
Cadmium	ug/L	2.7	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Chromium Total	ug/L	810	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0
Cobalt	ug/L	66	<0.50	0.62	<0.50	<0.50	-	<0.50	<0.50
Copper	ug/L	87	1.6	3.8	1.3	1.3	-	1.0	1.4
Lead	ug/L	25	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50
Molybdenum	ug/L	9,200	3.88	5.27	3.16	3.26	3%	3.50	3.98
Nickel	ug/L	490	4.5	15.2	1.5	1.4	-	2.7	1.9
Selenium	ug/L	63	<1.0	<1.0	<1.0	<1.0	-	<1.0	3.1
Silver	ug/L	1.5	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20
Thallium	ug/L	510	<0.30	<0.30	<0.30	<0.30	-	<0.30	<0.30
Uranium	ug/L	420	21.70	14.80	3.90	4.03	3%	9.74	8.01
Vanadium	ug/L	250	0.92	1.72	1.34	1.17	-	0.74	1.88
Zinc	ug/L	1,100	<5.0	<5.0	<5.0	<5.0	-	7.3	<5.0

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1
of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

TABLE 3B GROUNDWATER ANALYTICAL RESULTS
(BTEX and PHCs)
2180 MONTREAL ROAD, OTTAWA, ONTARIO

Sample Name	Units	STANDARDS Table 3 fine/medium	MW101	MW1101 Field Duplicate of MW101	RPD	MW102	MW103	MW104	MW105	MW106
Vapour Reading	see note	-	15 ppm	15 ppm	-	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm
Sampling Date	dd-mmm-yy	-	27-Feb-24	27-Feb-24	-	27-Feb-24	27-Feb-24	27-Feb-24	27-Feb-24	27-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	4-Mar-24	4-Mar-24	-	4-Mar-24	4-Mar-24	4-Mar-24	4-Mar-24	4-Mar-24
Certificate of Analysis No.	-	-	24Z124905	24Z124905	-	24Z124905	24Z124905	24Z124905	24Z124905	24Z124905
Benzene	ug/L	430	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	ug/L	18,000	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Ethylbenzene	ug/L	2,300	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Xylene Mixture	ug/L	4,200	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Petroleum Hydrocarbons F1 ¹	ug/L	750	<25	<25	-	<25	<25	<25	<25	<25
Petroleum Hydrocarbons F2	ug/L	150	<100	<100	-	<100	<100	<100	<100	<100
Petroleum Hydrocarbons F3	ug/L	500	<100	<100	-	<100	<100	<100	<100	<100
Petroleum Hydrocarbons F4	ug/L	500	<100	<100	-	<100	<100	<100	<100	<100

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
ppm parts per million
% LEL percent of the lower explosive limit
RPD Relative percent difference
Value Exceeds standard
Value Detection limit exceeds standard
¹ F1 fraction does not include BTEX.

TABLE 3B GROUNDWATER ANALYTICAL RESULTS
(BTEX and PHCs)
2180 MONTREAL ROAD, OTTAWA, ONTARIO

Sample Name	Units	STANDARDS Table 3 fine/medium	MW108	MW110	MW1121 Field Duplicate of MW110	RPD	MW111	MW112	Trip blank
Vapour Reading	see note	-	<5 ppm	5 ppm	5 ppm	-	<5 ppm	<5 ppm	-
Sampling Date	dd-mmm-yy	-	27-Feb-24	27-Feb-24	27-Feb-24	-	27-Feb-24	27-Feb-24	21-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	4-Mar-24	4-Mar-24	4-Mar-24	-	4-Mar-24	4-Mar-24	5-Mar-24
Certificate of Analysis No.	-	-	24Z124905	24Z124905	24Z124905	-	24Z124905	24Z124905	24Z124905
Benzene	ug/L	430	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Toluene	ug/L	18,000	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Ethylbenzene	ug/L	2,300	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Xylene Mixture	ug/L	4,200	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Petroleum Hydrocarbons F1 ¹	ug/L	750	<25	<25	<25	-	<25	<25	<25
Petroleum Hydrocarbons F2	ug/L	150	<100	<100	<100	-	<100	<100	<100
Petroleum Hydrocarbons F3	ug/L	500	<100	<100	<100	-	<100	<100	<100
Petroleum Hydrocarbons F4	ug/L	500	<100	<100	<100	-	<100	<100	<100

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1

of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed
ppm parts per million
% LEL percent of the lower explosive limit
RPD Relative percent difference
Value Exceeds standard
Value Detection limit exceeds standard
¹ F1 fraction does not include BTEX.

**TABLE 3C GROUNDWATER ANALYTICAL RESULTS
(VOCs EXCL. BTEX)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 fine/medium	MW101	MW1101 Field Duplicate of MW101	RPD	MW102	MW103	MW104	MW105	MW106
Vapour Reading	see note	-	15 ppm	15 ppm	-	<5 ppm	<5 ppm	<5 ppm	<5 ppm	<5 ppm
Sampling Date	dd-mmm-yy	-	27-Feb-24	27-Feb-24	-	27-Feb-24	27-Feb-24	27-Feb-24	27-Feb-24	27-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	4-Mar-24	4-Mar-24	-	4-Mar-24	4-Mar-24	4-Mar-24	4-Mar-24	4-Mar-24
Certificate of Analysis No.	-	-	24Z124905	24Z124905	-	24Z124905	24Z124905	24Z124905	24Z124905	24Z124905
Acetone	ug/L	130,000	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/L	85,000	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	ug/L	770	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Bromomethane	ug/L	56	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Carbon Tetrachloride	ug/L	8.4	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Chlorobenzene	ug/L	630	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Chloroform	ug/L	22	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	ug/L	82,000	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Dichlorobenzene, 1,2-	ug/L	9,600	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Dichlorobenzene, 1,3-	ug/L	9,600	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Dichlorobenzene, 1,4-	ug/L	67	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Dichlorodifluoromethane	ug/L	4,400	<0.40	<0.40	-	<0.40	<0.40	<0.40	<0.40	<0.40
Dichloroethane, 1,1-	ug/L	3,100	<0.30	<0.30	-	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloroethane, 1,2-	ug/L	12	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethylene, 1,1-	ug/L	17	<0.30	<0.30	-	<0.30	<0.30	<0.30	<0.30	<0.30
Dichloroethylene, 1,2-cis-	ug/L	17	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloroethylene, 1,2-trans-	ug/L	17	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropane, 1,2-	ug/L	140	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Dichloropropene, 1,3-	ug/L	45	<0.30	<0.30	-	<0.30	<0.30	<0.30	<0.30	<0.30
Ethylene dibromide	ug/L	0.83	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Hexane (n)	ug/L	520	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Ethyl Ketone	ug/L	1,500,000	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Isobutyl Ketone	ug/L	580,000	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl tert-Butyl Ether (MTBE)	ug/L	1,400	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Methylene Chloride	ug/L	5,500	<0.30	<0.30	-	<0.30	<0.30	<0.30	<0.30	<0.30
Styrene	ug/L	9,100	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethane, 1,1,1,2-	ug/L	28	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethane, 1,1,2,2-	ug/L	15	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	ug/L	17	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	ug/L	6,700	<0.30	<0.30	-	<0.30	<0.30	<0.30	<0.30	<0.30
Trichloroethane, 1,1,2-	ug/L	30	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	ug/L	17	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	ug/L	2,500	<0.40	<0.40	-	<0.40	<0.40	<0.40	<0.40	<0.40
Vinyl Chloride	ug/L	1.7	<0.17	<0.17	-	<0.17	<0.17	<0.17	<0.17	<0.17

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

**TABLE 3C GROUNDWATER ANALYTICAL RESULTS
(VOCs EXCL. BTEX)
2180 MONTREAL ROAD, OTTAWA, ONTARIO**

Sample Name	Units	STANDARDS Table 3 fine/medium	MW108	MW110	MW1121 Field Duplicate of MW110	RPD	MW111	MW112	Trip blank
Vapour Reading	see note	-	<5 ppm	5 ppm	5 ppm	-	<5 ppm	<5 ppm	-
Sampling Date	dd-mmm-yy	-	27-Feb-24	27-Feb-24	27-Feb-24	-	27-Feb-24	27-Feb-24	21-Feb-24
Analysis Date (on or before)	dd-mmm-yy	-	4-Mar-24	4-Mar-24	4-Mar-24	-	4-Mar-24	4-Mar-24	5-Mar-24
Certificate of Analysis No.	-	-	24Z124905	24Z124905	24Z124905	-	24Z124905	24Z124905	24Z124905
Acetone	ug/L	130,000	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0
Bromodichloromethane	ug/L	85,000	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Bromoform	ug/L	770	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Bromomethane	ug/L	56	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Carbon Tetrachloride	ug/L	8.4	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Chlorobenzene	ug/L	630	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Chloroform	ug/L	22	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Dibromochloromethane	ug/L	82,000	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Dichlorobenzene, 1,2-	ug/L	9,600	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Dichlorobenzene, 1,3-	ug/L	9,600	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Dichlorobenzene, 1,4-	ug/L	67	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Dichlorodifluoromethane	ug/L	4,400	<0.40	<0.40	<0.40	-	<0.40	<0.40	<0.40
Dichloroethane, 1,1-	ug/L	3,100	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30
Dichloroethane, 1,2-	ug/L	12	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Dichloroethylene, 1,1-	ug/L	17	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30
Dichloroethylene, 1,2-cis-	ug/L	17	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Dichloroethylene, 1,2-trans-	ug/L	17	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Dichloropropane, 1,2-	ug/L	140	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Dichloropropene, 1,3-	ug/L	45	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30
Ethylene dibromide	ug/L	0.83	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Hexane (n)	ug/L	520	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Methyl Ethyl Ketone	ug/L	1,500,000	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0
Methyl Isobutyl Ketone	ug/L	580,000	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0
Methyl tert-Butyl Ether (MTBE)	ug/L	1,400	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Methylene Chloride	ug/L	5,500	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30
Styrene	ug/L	9,100	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Tetrachloroethane, 1,1,1,2-	ug/L	28	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Tetrachloroethane, 1,1,2,2-	ug/L	15	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10
Tetrachloroethylene	ug/L	17	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	ug/L	6,700	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30
Trichloroethane, 1,1,2-	ug/L	30	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Trichloroethylene	ug/L	17	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20
Trichlorofluoromethane	ug/L	2,500	<0.40	<0.40	<0.40	-	<0.40	<0.40	<0.40
Vinyl Chloride	ug/L	1.7	<0.17	<0.17	<0.17	-	<0.17	<0.17	<0.17

Standards from Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act (April 15, 2011 and as amended)

Table 3: Full Depth Generic SCS in a Non-Potable Ground Water Condition

All Types of Property-Use, Fine- to Medium-Textured Soil

- Not analyzed

RPD Relative percent difference

Value Exceeds standard

Value Detection limit exceeds standard

APPENDIX I
CORRESPONDENCE REGARDING NON-POTABLE
STANDARDS



March 26, 2024
CO952.01

City of Ottawa
Planning, Infrastructure and Economic Development
110 Laurier Avenue West
Ottawa, ON
K1P 1J1

Attention: Michel Kearney, P.Geo.
Senior Hydrogeologist

Via Email: Michel.Kearney@ottawa.ca

**Re: Notification of Environmental Standards
2180 Montreal Road and 972 Shefford Road, Ottawa, Ontario**

Dear Mr. Kearney:

Terrapex Environmental Ltd. (Terrapex) has been retained by the property owner to conduct a Phase Two Environmental Site Assessment at 2180 Montreal Road and 972 Shefford Road, Ottawa, Ontario (the site).

After reviewing Ontario Regulation (O. Reg.) 153/04 *Records of Site Condition - Part XV.1 of the Act*, Terrapex has determined that the site meets the requirements outlined in Section 35 of the regulation. As such, applicable full depth generic site condition standards in a non-potable groundwater condition will be applied to the analytical data obtained from the site.

On behalf of the owner, and in accordance with the requirements of Section 35 of O. Reg. 153/04, Terrapex is hereby providing written notice to the City of Ottawa of the intention to apply non-potable groundwater site condition standards in preparing a Record of Site Condition for the property at 2180 Montreal Road and 972 Shefford Road, Ottawa, Ontario.

If you have any questions or concerns regarding this matter, please do not hesitate to contact the undersigned.

Sincerely,
TERRAPEX ENVIRONMENTAL LTD.

Craig Beaton, P.Eng.
Senior Project Manager

APPENDIX II

BOREHOLE LOGS

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF: MW101											
ADDRESS: 2180 MONTREAL ROAD				STATION:															
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m): 5033052.33		EASTING (m): 453984.93		ELEV. (m) 67.46											
CONTRACTOR: STRATA DRILLING				METHOD: HOLLOW STEM AUGER															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
					40	80	120	160	20	40	60	80							
		ASPHALT (64 mm)	0	67.46	11								1	40	<5		M&I PAH		
		FILL	0.5	67.0															
		compact, moist, brown sand and gravel trace clay																	
		firm, moist, grey SILTY CLAY trace clay	1	66.5	4								2	100	<5				
			1.5	66.0															
			2	65.5	5								3	90	<5				
			2.5	65.0															
		soft, wet, grey SILTY CLAY															M&I PAH BTEX PHC VOC		
			3	64.5	2								4	100	<5				
			3.5	64.0															
		very soft	4	63.5	0								5	100	<5				
			4.5	63.0															
			5	62.5									6	100	<5				
		END OF BOREHOLE																	
					LOGGED BY: EB				DRILLING DATE: 7-FEB-24										
					INPUT BY: SW				MONITORING DATE: 27-FEB-2024										
					REVIEWED BY: CB				PAGE 1 OF 1										

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF: MW102											
ADDRESS: 2180 MONTREAL ROAD				STATION:															
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m): 5033031.67		EASTING (m): 454015.85		ELEV. (m) 67.28											
CONTRACTOR: STRATA DRILLING				METHOD: HOLLOW STEM AUGER															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					40	80	120	160	PL	W.C.	LL								
		ASPHALT (80 mm)	0	67.28															
		FILL	0.5	67.0									1	30	<5		M&I PAH		
		loose, moist, brown sand and gravel																	
		firm, moist, brown SILT CLAY	1	66.5									2	40	<5				
		trace sand																	
			1.5	66.0															
			2	65.5									3	40	<5		M&I PAH BTEX PHC VOC		
		soft, wet, grey SILTY CLAY	2.5	65.0									4	100	<5				
			3	64.5															
			3.5	64.0									5	100	<5				
		--- saturated	4	63.5									6	100	<5				
			4.5	63.0															
			5	62.5									7	100	<5				
		END OF BOREHOLE																	



LOGGED BY: EB

INPUT BY: SW

REVIEWED BY: CB

DRILLING DATE: 8-FEB-24

MONITORING DATE: 27-FEB-2024

PAGE 1 OF 1

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF: MW103											
ADDRESS: 2180 MONTREAL ROAD				STATION:															
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m): 5033005.35		EASTING (m): 453961.46		ELEV. (m) 67.90											
CONTRACTOR: STRATA DRILLING				METHOD: HOLLOW STEM AUGER															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
					40	80	120	160	20	40	60	80							
		ASPHALT (80 mm)	0																
		FILL																	
		moist, brown sand and gravel	0.5	67.5									1	40	<5				
		moist, brown SILTY CLAY	1	67									2	60	<5				
		trace sand	1.5	66.5									3	100	<5				
			2	66									4	100	<5				
			2.5	65.5									5	100	<5				
			3	65									6	100	<5				
			3.5	64.5									7	100	<5				
			4	64									8	100	<5				
			4.5	63.5									9	100	<5				
			5	63															
			5.5	62.5															
			6	62															
			6.5	61.5															
			7	61															
		END OF BOREHOLE																	



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INPUT BY: SW	MONITORING DATE: 27-FEB-2024
REVIEWED BY: CB	PAGE 1 OF 1

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF: MW104											
ADDRESS: 2180 MONTREAL ROAD				STATION:															
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m): 5033019.42		EASTING (m): 453973.59		ELEV. (m) 67.54											
CONTRACTOR: STRATA DRILLING				METHOD: HOLLOW STEM AUGER															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
					40	80	120	160	20	40	60	80							
		ASPHALT (80 mm)	0	67.5															
		FILL																	
		moist, brown sand and gravel	0.5	67															
		firm, moist, brown SILTY CLAY	1	66.5															
		trace sand																	
		very soft	1.5	66															
		wet	2	65.5															
		wet, grey	2.5	65															
			3	64.5															
			3.5	64															
		saturated	4	63.5															
			4.5	63															
			5	62.5															
		END OF BOREHOLE																	



LOGGED BY: EB

INPUT BY: SW

REVIEWED BY: CB

DRILLING DATE: 8-FEB-24

MONITORING DATE: 27-FEB-2024

PAGE 1 OF 1

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF:											
ADDRESS: 2180 MONTREAL ROAD				STATION:				MW105											
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m): 5033034.44		EASTING (m): 453955.77		ELEV. (m) 67.69											
CONTRACTOR: STRATA DRILLING				METHOD: HOLLOW STEM AUGER															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
					40	80	120	160	20	40	60	80							
		ASPHALT (80 mm)	0	67.5															
		FILL	0.5	67													M&I, PAH		
		moist, brown sand and gravel																	
		moist, brown SILTY CLAY	1	66.5															
		trace sand																	
			1.5	66															
			2	65.5													PAH BTEX PHC VOC		
		---	2.5	65															
		wet	3	64.5															
			3.5	64															
		grey	4	63.5															
			4.5	63															
		---	5	62.5															
		very soft	5.5	62															
			6	61.5															
			6.5	61															
			7	60.5															
		END OF BOREHOLE																	



LOGGED BY: EB	DRILLING DATE: 8-FEB-24
INPUT BY: SW	MONITORING DATE: 27-FEB-2024
REVIEWED BY: CB	PAGE 1 OF 1

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF: MW106											
ADDRESS: 2180 MONTREAL ROAD				STATION:															
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m): 5033043.94		EASTING (m): 454006.28		ELEV. (m) 67.07											
CONTRACTOR: STRATA DRILLING				METHOD: HOLLOW STEM AUGER															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
					40	80	120	160	20	40	60	80							
		ASPHALT (80 mm)	0	67	5									1	5	<5			
		FILL	0.5	66.5										2	70	<5			
		moist, brown sand and gravel																	
		firm, moist, brown/grey SILTY CLAY	1	66	5									3	100	<5			
		trace sand																	
		---	1.5	65.5															
		soft																	
		---	2	65															
		wet																	
		---	2.5	64.5															
		---	3	64															
		---	3.5	63.5															
		very soft																	
		saturated	4	63															
		---	4.5	62.5															
		---	5	62															
		END OF BOREHOLE																	



LOGGED BY: EB

INPUT BY: SW

REVIEWED BY: CB

DRILLING DATE: 8-FEB-24

MONITORING DATE: 27-FEB-2024

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CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF: MW107											
ADDRESS: 2180 MONTREAL ROAD				STATION:															
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m): 5033076.59		EASTING (m): 454003.55		ELEV. (m) 67.41											
CONTRACTOR: STRATA DRILLING				METHOD: HOLLOW STEM AUGER															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
					40	80	120	160	20	40	60	80							
		TOPSOIL (80 mm) coarse, moist, brown SAND trace clay and gravel	0	67										1	40	<5			
		firm, moist, brown SILTY CLAY trace sand	0.5	66.5										2	100	<5			
			1	66										3	100	<5			
			1.5	65.5										4	100	<5			
			2	65										5	100	<5			
		--- soft	2.5	64.5										6	100	<5			
			3	64										7	100	<5			
		--- very soft	3.5	63.5										8	100	<5			
			4	63										9	100	<5			
			4.5	62.5										10	100	<5			
		--- saturated	5	62															
			5.5	61.5															
			6	61															
			6.5	60.5															
			7																
		END OF BOREHOLE																	



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DRILLING DATE: 9-FEB-24

MONITORING DATE: 27-FEB-2024

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CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF:											
ADDRESS: 2180 MONTREAL ROAD				STATION:				MW108											
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m): 5033076.70		EASTING (m): 454002.91		ELEV. (m) 67.44											
CONTRACTOR: STRATA DRILLING				METHOD: HOLLOW STEM AUGER															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					40 80 120 160														
					N-VALUE (Blows/300mm)				PL W.C. LL										
					20	40	60	80	20	40	60	80							
			0																
			0.5	67															
			1	66.5															
			1.5	66															
			2	65.5															
			2.5	65															
			3	64.5															
			3.5	64															
			4	63.5															
			4.5	63															
		END OF BOREHOLE																	
					LOGGED BY: EB				DRILLING DATE: 9-FEB-24										
					INPUT BY: SW				MONITORING DATE: 27-FEB-2024										
					REVIEWED BY: CB				PAGE 1 OF 1										

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF:											
ADDRESS: 2180 MONTREAL ROAD				STATION:				MW109											
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m): 5033005.35		EASTING (m): 453961.46		ELEV. (m) 67.90											
CONTRACTOR: STRATA DRILLING				METHOD: HOLLOW STEM AUGER															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
					40	80	120	160	20	40	60	80							
			0	67.5															AUGERED TO 7.0 mbg FOR MONITORING WELL INSTALLATION. STRATIGRAPHY IS SHOWN ON MW103.
			0.5	67															
			1	66.5															
			1.5	66															
			2	65.5															
			2.5	65															
			3	64.5															
			3.5	64															
			4	63.5															
			4.5	63															
			5	62.5															
			5.5	62															
			6	61.5															
		END OF BOREHOLE	7	61															
					LOGGED BY: EB				DRILLING DATE: 9-FEB-24										
					INPUT BY: SW				MONITORING DATE: 18-MAR-2024										
					REVIEWED BY: CB				PAGE 1 OF 1										

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF: MW110												
ADDRESS: 2180 MONTREAL ROAD				STATION:																
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m): 5032991.07		EASTING (m): 454009.57		ELEV. (m) 67.84												
CONTRACTOR: STRATA DRILLING				METHOD: HOLLOW STEM AUGER																
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE												
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON								
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS	
					N-VALUE (Blows/300mm)				PL W.C. LL											
					40	80	120	160	20	40	60	80								
					20	40	60	80	20	40	60	80								
		FILL moist, brown sand and gravel	0	67.5	6								1	20	<5		M&I			
		firm, moist SILTY CLAY trace sand	0.5	67	6								2	80	<5					
			1	66.5	6								3	90	<5					
		--- soft	2	66	4								4	100	<5		PAH BTX PHC VOC			
			2.5	65.5	2								5	100	<5					
		--- wet	3	65									6	100	<5					
			3.5	64.5									7	100	<5					
		--- very soft	4	64	0															
			4.5	63.5																
		--- saturated	5	63																
		END OF BOREHOLE																		

LOGGED BY: EB

INPUT BY: SW

REVIEWED BY: CB

DRILLING DATE: 16-FEB-24

MONITORING DATE: 27-FEB-2024

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CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF: MW111											
ADDRESS: 2180 MONTREAL ROAD				STATION:															
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m): 5033006.91		EASTING (m): 454010.28		ELEV. (m) 67.82											
CONTRACTOR: STRATA DRILLING				METHOD: HOLLOW STEM AUGER															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
					40	80	120	160	20	40	60	80							
					20	40	60	80	20	40	60	80							
		FILL moist, brown sand and gravel trace clay	0	67.5	▲ 6								1	40	<5		M&I		
		firm, moist, brown SILTY CLAY trace sand	0.5	67									2	90	<5				
			1	66.5	▲ 5								3	100	<5				
			1.5	66	▲ 6								4	100	<5		PAH BTEX PHC VOC		
		soft	2	65.5									5	100	<5				
			2.5	65	▲ 2								6	100	<5				
		wet	3	64.5									7	100	<5				
			3.5	64															
		very soft	4	63.5	▲ 0														
		saturated	4.5	63															
		END OF BOREHOLE	5																
				LOGGED BY: EB				DRILLING DATE: 16-FEB-24											
				INPUT BY: SW				MONITORING DATE: 27-FEB-2024											
				REVIEWED BY: CB				PAGE 1 OF 1											

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF:											
ADDRESS: 2180 MONTREAL ROAD				STATION:				MW112											
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m): 5033000.40		EASTING (m): 454037.21		ELEV. (m) 67.47											
CONTRACTOR: STRATA DRILLING				METHOD: HOLLOW STEM AUGER															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
					40	80	120	160	20	40	60	80							
		FILL moist, brown sand and gravel firm, moist, brown SILTY CLAY trace sand	0	67.4									1	30	<5		M&I		
			0.5	67.0									2	80	<5				
			1	66.5									3	100	<5				
			1.5	66.0									4	100	<5		PAH BTEX PHC VOC		
			2	65.5									5	100	<5				
			2.5	65.0									6	100	<5				
			3	64.5									7	100	<5				
			3.5	64.0															
			4	63.5															
			4.5	63.0															
			5	62.5															
		END OF BOREHOLE																	



LOGGED BY: EB

DRILLING DATE: 16-FEB-24

INPUT BY: SW

MONITORING DATE: 27-FEB-2024

REVIEWED BY: CB

PAGE 1 OF 1

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF:											
ADDRESS: 2180 MONTREAL ROAD				STATION:				MW113											
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m):		EASTING (m):		ELEV. (m) 67.64											
CONTRACTOR: STRATA DRILLING				METHOD: DIRECT PUSH															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		AUGER		DRIVEN		CORING		DYNAMIC CONE		SHELBY		SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					N-VALUE (Blows/300mm)				PL W.C. LL										
					20 40 60 80	40 80 120 160	20 40 60 80	20 40 60 80	20 40 60 80										
		ASPHALT (100 mm)	0	67.5	20		4.3					1	47						
		FILL	0.5	67															
		moist, black																	
		gravel																	
		trace sand																	
		firm, moist, grey	1	66.5	4		45.1					2	100						
		SILTY CLAY																	
		trace sand																	
			1.5	66															
			2	65.5															
		---	2.5	65	2		63					3	100						
		soft																	
			3	64.5															
		---	3.5	64	1		65.4					4	100						
		very soft																	
			4	63.5	1		55.7					5	100						
			4.5	63															
			5	62.5	1		76.3					6	100						
			5.5	62	1		78					7	100						
			6	61.5	1		71.2					8	100						
			6.5	61															
			7	60.5															
			7.5	60															
			8	59.5	1		74.8					9	100						
			8.5	59															
			9	58.5															

LOGGED BY: HM

INPUT BY: SAF

REVIEWED BY: CB

DRILLING DATE: 5-MAR-2024

MONITORING DATE: 18-MAR-2024

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CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF:											
ADDRESS: 2180 MONTREAL ROAD				STATION:				MW113											
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m):		EASTING (m):		ELEV. (m) 67.64											
CONTRACTOR: STRATA DRILLING				METHOD: DIRECT PUSH															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					40 80 120 160				PL W.C. LL										
					N-VALUE (Blows/300mm)				20 40 60 80										
			9.5	58	1						78.2	10	100						
			10	57.5															
			10.5	57															
			11	56.5	1						75.7	11	100						
			11.5	56															
			12	55.5															
			12.5	55	1						71.6	12	100						
			13	54.5															
			13.5	54															
			14	53.5	1						66.3	13	100						
			14.5	53															
			15	52.5															
			15.5	52	1						69.2	14	100						
			16	51.5															
			16.5	51															
			17	50.5	1						66.4	15	100						
			17.5	50															
			18	49.5															
			18.5	49	1						65.6	16	100						
					LOGGED BY: HM				DRILLING DATE: 5-MAR-2024										
					INPUT BY: SAF				MONITORING DATE: 18-MAR-2024										
					REVIEWED BY: CB				PAGE 2 OF 3										

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF:											
ADDRESS: 2180 MONTREAL ROAD				STATION:				MW113											
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m):		EASTING (m):		ELEV. (m) 67.64											
CONTRACTOR: STRATA DRILLING				METHOD: DIRECT PUSH															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppt or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					40 80 120 160				PL W.C. LL										
					N-VALUE (Blows/300mm)														
					20 40 60 80				20 40 60 80										
			19	48.5															
			19.5	48															
			20	47.5	1					67.4			17	100					
			20.5	47															
			21	46.5															
			21.5	46	1					64.0			18	100					
			22	45.5															
			22.5	45															
			23	44.5	1					67.2			19	100					
			23.5	44															
			24	43.5															
			24.5	43	1					68.7			20	100					
		END OF BOREHOLE																	
										LOGGED BY: HM		DRILLING DATE: 5-MAR-2024							
										INPUT BY: SAF		MONITORING DATE: 18-MAR-2024							
										REVIEWED BY: CB		PAGE 3 OF 3							

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF:											
ADDRESS: 2180 MONTREAL ROAD				STATION:				MW114											
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m):		EASTING (m):		ELEV. (m) 67.80											
CONTRACTOR: STRATA DRILLING				METHOD: DIRECT PUSH															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		AUGER		DRIVEN		CORING		DYNAMIC CONE		SHELBY		SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					40 80 120 160				PL W.C. LL										
					N-VALUE (Blows/300mm)														
					20 40 60 80			20 40 60 80											
		ASPHALT (100 mm)	0	67.8	8			5.6				1	42						
		FILL	0.5	67.5															
		moist, black gravel																	
		trace sand																	
		firm, moist, brown	1	67	4			40.0				2	83						
		CLAYEY SILT																	
		trace sand	1.5	66.5															
			2	66	4			38.2				3	100						
			2.5	65.5															
			3	65															
			3.5	64.5	2			60.7				4	100						
		very soft	4	64															
			4.5	63.5	1			65.6				5	100						
		moist, grey SILTY CLAY	5	63	1			72.6				6	100						
			5.5	62.5															
			6	62	1			74.2				7	100						
			6.5	61.5	1			72.8				8	100						
			7	61															
			7.5	60.5															
			8	60	1			77.9				9	100						
			8.5	59.5															
			9	59															
			9.5	58.5															



LOGGED BY: HM	DRILLING DATE: 6-MAR-2024
INPUT BY: SAF	MONITORING DATE: 18-MAR-2024
REVIEWED BY: CB	PAGE 1 OF 3

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF:											
ADDRESS: 2180 MONTREAL ROAD				STATION:				MW114											
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m):		EASTING (m):		ELEV. (m) 67.80											
CONTRACTOR: STRATA DRILLING				METHOD: DIRECT PUSH															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					40 80 120 160				PL W.C. LL										
					N-VALUE (Blows/300mm)														
					20 40 60 80				20 40 60 80										
			9.5	67.8	1						71.4		10	100					
			10	58															
			10.5	57.5															
			11	57	1						70.3		11	100					
			11.5	56.5															
			12	56															
			12.5	55.5	1						71.2		12	100					
			13	55															
			13.5	54.5															
			14	54	1						66.8		13	100					
			14.5	53.5															
			15	53															
			15.5	52.5	1						62.6		14	100					
			16	52															
			16.5	51.5															
			17	51	1						65.5		15	100					
			17.5	50.5															
			18	50															
			18.5	49.5	1						64.3		16	100					
					LOGGED BY: HM				DRILLING DATE: 6-MAR-2024										
					INPUT BY: SAF				MONITORING DATE: 18-MAR-2024										
					REVIEWED BY: CB				PAGE 2 OF 3										

CLIENT: SUNCOR				PROJECT NO.: CO952.01				RECORD OF:											
ADDRESS: 2180 MONTREAL ROAD				STATION:				MW114											
CITY/PROVINCE: OTTAWA, ONTARIO				NORTHING (m):		EASTING (m):		ELEV. (m) 67.80											
CONTRACTOR: STRATA DRILLING				METHOD: DIRECT PUSH															
BOREHOLE DIAMETER (cm): 20		WELL DIAMETER (cm): 5		SCREEN SLOT #: 10		SAND TYPE: #2		SEALANT TYPE: BENTONITE											
SAMPLE TYPE		☐ AUGER		☒ DRIVEN		☒ CORING		☐ DYNAMIC CONE		☐ SHELBY		☐ SPLIT SPOON							
GWL (m)	SOIL SYMBOL	SOIL DESCRIPTION	DEPTH (m)	ELEVATION (m)	SHEAR STRENGTH (kPa)				WATER CONTENT (%)				SAMPLE NO.	SAMPLE TYPE	RECOVERY (%)	SV/TOV (ppm or %LEL)	LABORATORY TESTING	WELL INSTALLATION	REMARKS
					40 80 120 160				PL W.C. LL										
					N-VALUE (Blows/300mm)														
					20 40 60 80	20 40 60 80													
			19	49															
			19.5	48.5															
			20	48															
			20.5	47.5															
			21	47															
			21.5	46.5															
			22	46															
			22.5	45.5															
			23	45															
			23.5	44.5															
			24	44															
			24.5	43.5															
			43	43															
		END OF BOREHOLE																	
										LOGGED BY: HM		DRILLING DATE: 6-MAR-2024							
										INPUT BY: SAF		MONITORING DATE: 18-MAR-2024							
										REVIEWED BY: CB		PAGE 3 OF 3							

APPENDIX III
LABORATORY CERTIFICATES OF ANALYSIS

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED
20 GURDWARA ROAD, UNIT 1
OTTAWA, ON K2E 8B3
613 745 6471

ATTENTION TO: Craig Beaton

PROJECT: CO952.01

AGAT WORK ORDER: 24Z120314

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer

DATE REPORTED: Feb 21, 2024

PAGES (INCLUDING COVER): 54

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.

Certificate of Analysis

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-13

DATE REPORTED: 2024-02-21

				SAMPLE DESCRIPTION:		MW101-1	MW101-4	MW102-1	MW102-3	MW103-3	MW104-1	MW104-3	MW105-1
				SAMPLE TYPE:		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
				DATE SAMPLED:		2024-02-07 13:00	2024-02-07 13:20	2024-02-08 09:30	2024-02-08 09:41	2024-02-08 12:25	2024-02-08 13:50	2024-02-08 14:05	2024-02-08 15:00
Parameter	Unit	G / S	RDL	5645714	5645715	5645717	5645718	5645720	5645722	5645725	5645727		
Antimony	µg/g	50	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	3	2	2	2	2	2	3	3	3	2
Barium	µg/g	670	2.0	190	295	258	324	406	309	317	380		
Beryllium	µg/g	10	0.5	<0.5	0.6	<0.5	0.7	0.6	0.5	0.7	0.6		
Boron	µg/g	120	5	7	6	10	6	<5	8	8	<5		
Boron (Hot Water Soluble)	µg/g	2	0.10	0.12	0.14	0.18	<0.10	<0.10	0.19	<0.10	<0.10		
Cadmium	µg/g	1.9	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Chromium	µg/g	160	5	55	166	20	176	161	129	146	136		
Cobalt	µg/g	100	0.8	11.0	27.8	4.9	26.8	26.2	23.5	27.0	28.0		
Copper	µg/g	300	1.0	21.5	60.9	8.7	69.2	55.5	49.7	60.5	56.7		
Lead	µg/g	120	1	13	10	12	11	9	11	11	9		
Molybdenum	µg/g	40	0.5	1.0	0.6	1.8	0.6	0.6	1.0	0.9	0.6		
Nickel	µg/g	340	1	29	85	19	89	79	70	78	73		
Selenium	µg/g	5.5	0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8		
Silver	µg/g	50	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Thallium	µg/g	3.3	0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5		
Uranium	µg/g	33	0.50	1.01	1.27	0.61	1.74	1.57	1.47	1.54	1.38		
Vanadium	µg/g	86	2.0	53.9	120	23.0	120	127	104	116	123		
Zinc	µg/g	340	5	81	150	32	164	176	125	152	159		
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
Cyanide, WAD	µg/g	0.051	0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040		
Mercury	µg/g	20	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10		
Electrical Conductivity (2:1)	mS/cm	1.4	0.005	0.350	0.363	0.385	3.39	2.14	0.456	1.30	2.96		
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	N/A	1.60	1.07	1.60	2.43	3.67	3.93	1.28	8.32		
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	7.01	6.99	7.11	7.11	7.24	7.24	7.04	7.07		

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-13

DATE REPORTED: 2024-02-21

		SAMPLE DESCRIPTION:		MW106-3	MW106-13
		SAMPLE TYPE:		Soil	Soil
		DATE SAMPLED:		2024-02-09 08:40	2024-02-09 08:40
Parameter	Unit	G / S	RDL	5645737	5645738
Antimony	µg/g	50	0.8	<0.8	<0.8
Arsenic	µg/g	18	1	3	3
Barium	µg/g	670	2.0	327	340
Beryllium	µg/g	10	0.5	0.7	0.7
Boron	µg/g	120	5	9	7
Boron (Hot Water Soluble)	µg/g	2	0.10	0.11	0.10
Cadmium	µg/g	1.9	0.5	<0.5	<0.5
Chromium	µg/g	160	5	159	178
Cobalt	µg/g	100	0.8	26.0	29.1
Copper	µg/g	300	1.0	59.6	68.0
Lead	µg/g	120	1	10	11
Molybdenum	µg/g	40	0.5	0.5	0.6
Nickel	µg/g	340	1	77	92
Selenium	µg/g	5.5	0.8	<0.8	<0.8
Silver	µg/g	50	0.5	<0.5	<0.5
Thallium	µg/g	3.3	0.5	<0.5	<0.5
Uranium	µg/g	33	0.50	1.56	1.65
Vanadium	µg/g	86	2.0	124	132
Zinc	µg/g	340	5	159	169
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040	<0.040
Mercury	µg/g	20	0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	1.4	0.005	0.784	0.864
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	N/A	1.05	1.04
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	6.91	6.75

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-13

DATE REPORTED: 2024-02-21

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5645714-5645727 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl₂ extract prepared at 2:1 ratio. SAR is a calculated parameter.

5645737 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). SAR is a calculated parameter.

Please note that due to a high water-absorbing capacity of the sample the extraction for pH determination was prepared at 10:1 ratio (10 parts extraction fluid: 1 part soil).

5645738 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl₂ extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-13

DATE REPORTED: 2024-02-21

SAMPLE DESCRIPTION:				MW101-1	MW101-4	MW102-1	MW102-3	MW103-3	MW104-1	MW104-3	MW105-1
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-02-07 13:00	2024-02-07 13:20	2024-02-08 09:30	2024-02-08 09:41	2024-02-08 12:25	2024-02-08 13:50	2024-02-08 14:05	2024-02-08 15:00
Parameter	Unit	G / S	RDL	5645714	5645715	5645717	5645718	5645720	5645722	5645725	5645727
Naphthalene	µg/g	28	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	<0.05	<0.05
Phenanthrene	µg/g	16	0.05	0.10	<0.05	0.06	<0.05	<0.05	0.68	<0.05	<0.05
Anthracene	µg/g	0.74	0.05	0.07	<0.05	<0.05	<0.05	<0.05	0.28	<0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	0.22	<0.05	0.12	<0.05	<0.05	0.71	<0.05	<0.05
Pyrene	µg/g	96	0.05	0.21	<0.05	0.10	<0.05	<0.05	0.57	<0.05	<0.05
Benz(a)anthracene	µg/g	0.96	0.05	0.09	<0.05	<0.05	<0.05	<0.05	0.33	<0.05	<0.05
Chrysene	µg/g	9.6	0.05	0.09	<0.05	<0.05	<0.05	<0.05	0.27	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	0.09	<0.05	0.05	<0.05	<0.05	0.32	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.10	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.20	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.95	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	0.05	<0.05	<0.05	<0.05	<0.05	0.10	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	85	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	5.7	31.9	14.6	27.0	26.0	5.6	32.9	28.9
Surrogate	Unit	Acceptable Limits									
Naphthalene-d8	%	50-140		90	100	115	75	100	70	90	85
Acridine-d9	%	50-140		80	85	75	85	80	70	100	90
Terphenyl-d14	%	50-140		105	85	95	75	85	75	85	80

Certified By:

Jinkal Patel

Certificate of Analysis

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-13

DATE REPORTED: 2024-02-21

SAMPLE DESCRIPTION:				MW106-3	MW106-13	MW107-4	MW105-3
SAMPLE TYPE:				Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-02-09 08:40	2024-02-09 08:40	2024-02-09 14:10	2024-02-08 15:17
Parameter	Unit	G / S	RDL	5645737	5645738	5645740	5647140
Naphthalene	µg/g	28	0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	16	0.05	<0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	96	0.05	<0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05	0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.95	0.05	<0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	85	0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	29.6	32.9	17.0	30.9
Surrogate	Unit	Acceptable Limits					
Naphthalene-d8	%	50-140		95	70	75	75
Acridine-d9	%	50-140		70	75	110	80
Terphenyl-d14	%	50-140		105	105	105	120

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5645714-5647140 Results are based on the dry weight of the soil.

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

2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-13

DATE REPORTED: 2024-02-21

SAMPLE DESCRIPTION:				MW101-4	MW102-3	MW103-3	MW104-3	MW106-3	MW106-13	MW107-4	MW105-3
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-02-07 13:20	2024-02-08 09:41	2024-02-08 12:25	2024-02-08 14:05	2024-02-09 08:40	2024-02-09 08:40	2024-02-09 14:10	2024-02-08 15:17
Parameter	Unit	G / S	RDL	5645715	5645718	5645720	5645725	5645737	5645738	5645740	5647140
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5	<5	<5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5	<5	<5	<5	<5	<5
F2 (C10 to C16)	µg/g	250	10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	2500	50	<50	<50	<50	<50	<50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	6600	50	<50	<50	<50	<50	<50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA	NA	NA	NA	NA	NA	NA	NA
Moisture Content	%		0.1	31.9	27.0	26.0	32.9	29.6	32.9	17.0	30.9
Surrogate	Unit	Acceptable Limits									
Toluene-d8	%	50-140	102	93	96	97	94	97	96	97	97
Terphenyl	%	60-140	70	75	70	73	78	80	75	83	83

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5645715-5647140 Results are based on sample dry weight.

The C6-C10 fraction is calculated using toluene response factor.

C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

The chromatogram has returned to baseline by the retention time of nC50.

Total C6 - C50 results are corrected for BTEX and PAH contributions.

C>10 - C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.

C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-02-13

DATE REPORTED: 2024-02-16

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-02-09
16:00

Parameter Unit G / S RDL 5647137

Benzene µg/g 0.4 0.02 <0.02

Toluene µg/g 78 0.05 <0.05

Ethylbenzene µg/g 19 0.05 <0.05

m & p-Xylene µg/g 0.05 <0.05

o-Xylene µg/g 0.05 <0.05

Xylenes (Total) µg/g 30 0.05 <0.05

F1 (C6 to C10) µg/g 65 5 <5

F1 (C6 to C10) minus BTEX µg/g 65 5 <5

Surrogate Unit Acceptable Limits

Toluene-d8 % Recovery 60-140 94

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5647137 A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.

Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.

C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.

The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Jinkal Patel



Certificate of Analysis

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-13

DATE REPORTED: 2024-02-16

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-02-09
16:00

5647137

Parameter	Unit	G / S	RDL	
Dichlorodifluoromethane	µg/g	25	0.05	<0.05
Vinyl Chloride	ug/g	0.25	0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05
Acetone	ug/g	28	0.50	<0.50
1,1-Dichloroethylene	ug/g	0.48	0.05	<0.05
Methylene Chloride	ug/g	2	0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	9.3	0.05	<0.05
Methyl tert-butyl Ether	ug/g	3.2	0.05	<0.05
1,1-Dichloroethane	ug/g	21	0.02	<0.02
Methyl Ethyl Ketone	ug/g	88	0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	37	0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03
1,1,1-Trichloroethane	ug/g	12	0.05	<0.05
Carbon Tetrachloride	ug/g	1.5	0.05	<0.05
Benzene	ug/g	0.4	0.02	<0.02
1,2-Dichloropropane	ug/g	0.68	0.03	<0.03
Trichloroethylene	ug/g	0.61	0.03	<0.03
Bromodichloromethane	ug/g	18	0.05	<0.05
Methyl Isobutyl Ketone	ug/g	210	0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.11	0.04	<0.04
Toluene	ug/g	78	0.05	<0.05
Dibromochloromethane	ug/g	13	0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04
Tetrachloroethylene	ug/g	21	0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05
Ethylbenzene	ug/g	19	0.05	<0.05

Certified By:

Prakash Patel



Certificate of Analysis

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-13

DATE REPORTED: 2024-02-16

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-02-09
16:00

5647137

Parameter	Unit	G / S	RDL	5647137
m & p-Xylene	ug/g		0.05	<0.05
Bromoform	ug/g	1.7	0.05	<0.05
Styrene	ug/g	43	0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.05	<0.05
o-Xylene	ug/g		0.05	<0.05
1,3-Dichlorobenzene	ug/g	12	0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.84	0.05	<0.05
1,2-Dichlorobenzene	ug/g	8.5	0.05	<0.05
Xylenes (Total)	ug/g	30	0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.21	0.04	<0.04
n-Hexane	µg/g	88	0.05	<0.05
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	50-140	94	
4-Bromofluorobenzene	% Recovery	50-140	89	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5647137 A small amount of methanol extract was diluted in water and analyzed by purge & trap GC/MS.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-13

DATE REPORTED: 2024-02-20

SAMPLE DESCRIPTION:				MW101-4	MW102-3	MW103-3	MW104-3	MW106-3	MW106-13	MW107-4	MW105-3
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-02-07 13:20	2024-02-08 09:41	2024-02-08 12:25	2024-02-08 14:05	2024-02-09 08:40	2024-02-09 08:40	2024-02-09 14:10	2024-02-08 15:17
Parameter	Unit	G / S	RDL	5645715	5645718	5645720	5645725	5645737	5645738	5645740	5647140
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.25	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.48	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	9.3	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	3.2	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	21	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	88	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	37	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	1.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.4	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.68	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.61	0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	18	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	210	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.11	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Toluene	ug/g	78	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	21	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	19	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Certified By:

Jinkal Patel



Certificate of Analysis

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-13

DATE REPORTED: 2024-02-20

SAMPLE DESCRIPTION:				MW101-4	MW102-3	MW103-3	MW104-3	MW106-3	MW106-13	MW107-4	MW105-3
SAMPLE TYPE:				Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
DATE SAMPLED:				2024-02-07 13:20	2024-02-08 09:41	2024-02-08 12:25	2024-02-08 14:05	2024-02-09 08:40	2024-02-09 08:40	2024-02-09 14:10	2024-02-08 15:17
Parameter	Unit	G / S	RDL	5645715	5645718	5645720	5645725	5645737	5645738	5645740	5647140
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	1.7	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	ug/g	43	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	12	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.84	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	8.5	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	30	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.21	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	88	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	31.9	27.0	26.0	32.9	29.6	32.9	17.0	30.9
Surrogate	Unit	Acceptable Limits									
Toluene-d8	% Recovery	50-140		102	93	96	97	94	97	96	97
4-Bromofluorobenzene	% Recovery	50-140		93	89	86	85	86	86	88	86

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5645715-5647140 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.

Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.

1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.

The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Jinkal Patel



Exceedance Summary

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

SAMPLEID	SAMPLE TITLE	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	UNIT	GUIDEVALUE	RESULT
5645715	MW101-4	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Chromium	µg/g	160	166
5645715	MW101-4	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	120
5645718	MW102-3	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Chromium	µg/g	160	176
5645718	MW102-3	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	3.39
5645718	MW102-3	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	120
5645720	MW103-3	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Chromium	µg/g	160	161
5645720	MW103-3	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	2.14
5645720	MW103-3	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	127
5645722	MW104-1	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	104
5645725	MW104-3	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	116
5645727	MW105-1	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Electrical Conductivity (2:1)	mS/cm	1.4	2.96
5645727	MW105-1	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	123
5645737	MW106-3	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	124
5645738	MW106-13	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Chromium	µg/g	160	178
5645738	MW106-13	ON T3 S ICC MFT	O. Reg. 153(511) - Metals & Inorganics (Soil)	Vanadium	µg/g	86	132

Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

Soil Analysis

RPT Date:			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	5645714	5645714	<0.8	<0.8	NA	< 0.8	106%	70%	130%	97%	80%	120%	94%	70%	130%
Arsenic	5645714	5645714	3	2	NA	< 1	121%	70%	130%	98%	80%	120%	108%	70%	130%
Barium	5645714	5645714	190	194	2.1%	< 2.0	106%	70%	130%	96%	80%	120%	107%	70%	130%
Beryllium	5645714	5645714	<0.5	<0.5	NA	< 0.5	90%	70%	130%	91%	80%	120%	88%	70%	130%
Boron	5645714	5645714	7	7	NA	< 5	81%	70%	130%	97%	80%	120%	82%	70%	130%
Boron (Hot Water Soluble)	5645714	5645714	0.12	0.15	NA	< 0.10	91%	60%	140%	102%	70%	130%	97%	60%	140%
Cadmium	5645714	5645714	<0.5	<0.5	NA	< 0.5	99%	70%	130%	100%	80%	120%	106%	70%	130%
Chromium	5645714	5645714	55	57	3.6%	< 5	119%	70%	130%	105%	80%	120%	107%	70%	130%
Cobalt	5645714	5645714	11.0	11.4	3.6%	< 0.8	111%	70%	130%	99%	80%	120%	102%	70%	130%
Copper	5645714	5645714	21.5	23.5	8.9%	< 1.0	100%	70%	130%	107%	80%	120%	104%	70%	130%
Lead	5645714	5645714	13	14	7.4%	< 1	111%	70%	130%	104%	80%	120%	102%	70%	130%
Molybdenum	5645714	5645714	1.0	1.1	NA	< 0.5	122%	70%	130%	113%	80%	120%	122%	70%	130%
Nickel	5645714	5645714	29	31	6.7%	< 1	111%	70%	130%	100%	80%	120%	100%	70%	130%
Selenium	5645714	5645714	<0.8	<0.8	NA	< 0.8	99%	70%	130%	94%	80%	120%	104%	70%	130%
Silver	5645714	5645714	<0.5	<0.5	NA	< 0.5	112%	70%	130%	115%	80%	120%	99%	70%	130%
Thallium	5645714	5645714	<0.5	<0.5	NA	< 0.5	120%	70%	130%	96%	80%	120%	97%	70%	130%
Uranium	5645714	5645714	1.01	0.98	NA	< 0.50	118%	70%	130%	107%	80%	120%	114%	70%	130%
Vanadium	5645714	5645714	53.9	55.0	2.0%	< 2.0	125%	70%	130%	100%	80%	120%	103%	70%	130%
Zinc	5645714	5645714	81	84	3.6%	< 5	115%	70%	130%	106%	80%	120%	114%	70%	130%
Chromium, Hexavalent	5650404		<0.2	<0.2	NA	< 0.2	86%	70%	130%	98%	80%	120%	71%	70%	130%
Cyanide, WAD	5644517		<0.040	<0.040	NA	< 0.040	101%	70%	130%	108%	80%	120%	99%	70%	130%
Mercury	5645714	5645714	<0.10	<0.10	NA	< 0.10	117%	70%	130%	106%	80%	120%	111%	70%	130%
Electrical Conductivity (2:1)	5645714	5645714	0.350	0.332	5.3%	< 0.005	90%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	5645714		1.60	1.59	0.6%	NA									
pH, 2:1 CaCl2 Extraction	5647911		7.02	7.37	4.9%	NA	102%	80%	120%						

Comments: NA signifies Not Applicable.

pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:


Nivine Basly

Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

Trace Organics Analysis

RPT Date:			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

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

Naphthalene	5647140	<0.05	<0.05	NA	< 0.05	72%	50%	140%	103%	50%	140%	78%	50%	140%
Acenaphthylene	5647140	<0.05	<0.05	NA	< 0.05	107%	50%	140%	98%	50%	140%	78%	50%	140%
Acenaphthene	5647140	<0.05	<0.05	NA	< 0.05	73%	50%	140%	80%	50%	140%	73%	50%	140%
Fluorene	5647140	<0.05	<0.05	NA	< 0.05	86%	50%	140%	83%	50%	140%	80%	50%	140%
Phenanthrene	5647140	<0.05	<0.05	NA	< 0.05	83%	50%	140%	95%	50%	140%	98%	50%	140%
Anthracene	5647140	<0.05	<0.05	NA	< 0.05	115%	50%	140%	88%	50%	140%	95%	50%	140%
Fluoranthene	5647140	<0.05	<0.05	NA	< 0.05	96%	50%	140%	73%	50%	140%	93%	50%	140%
Pyrene	5647140	<0.05	<0.05	NA	< 0.05	104%	50%	140%	103%	50%	140%	83%	50%	140%
Benz(a)anthracene	5647140	<0.05	<0.05	NA	< 0.05	93%	50%	140%	88%	50%	140%	78%	50%	140%
Chrysene	5647140	<0.05	<0.05	NA	< 0.05	113%	50%	140%	90%	50%	140%	85%	50%	140%
Benzo(b)fluoranthene	5647140	<0.05	<0.05	NA	< 0.05	111%	50%	140%	78%	50%	140%	98%	50%	140%
Benzo(k)fluoranthene	5647140	<0.05	<0.05	NA	< 0.05	93%	50%	140%	90%	50%	140%	93%	50%	140%
Benzo(a)pyrene	5647140	<0.05	<0.05	NA	< 0.05	112%	50%	140%	75%	50%	140%	83%	50%	140%
Indeno(1,2,3-cd)pyrene	5647140	<0.05	<0.05	NA	< 0.05	103%	50%	140%	73%	50%	140%	78%	50%	140%
Dibenz(a,h)anthracene	5647140	<0.05	<0.05	NA	< 0.05	103%	50%	140%	93%	50%	140%	83%	50%	140%
Benzo(g,h,i)perylene	5647140	<0.05	<0.05	NA	< 0.05	104%	50%	140%	110%	50%	140%	83%	50%	140%

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

Naphthalene	5615068	<0.05	<0.05	NA	< 0.05	101%	50%	140%	90%	50%	140%	78%	50%	140%
Acenaphthylene	5615068	<0.05	<0.05	NA	< 0.05	91%	50%	140%	73%	50%	140%	83%	50%	140%
Acenaphthene	5615068	<0.05	<0.05	NA	< 0.05	103%	50%	140%	80%	50%	140%	73%	50%	140%
Fluorene	5615068	<0.05	<0.05	NA	< 0.05	96%	50%	140%	93%	50%	140%	83%	50%	140%
Phenanthrene	5615068	<0.05	<0.05	NA	< 0.05	114%	50%	140%	83%	50%	140%	75%	50%	140%
Anthracene	5615068	<0.05	<0.05	NA	< 0.05	107%	50%	140%	95%	50%	140%	98%	50%	140%
Fluoranthene	5615068	<0.05	<0.05	NA	< 0.05	116%	50%	140%	100%	50%	140%	100%	50%	140%
Pyrene	5615068	<0.05	<0.05	NA	< 0.05	117%	50%	140%	108%	50%	140%	95%	50%	140%
Benz(a)anthracene	5615068	<0.05	<0.05	NA	< 0.05	116%	50%	140%	85%	50%	140%	78%	50%	140%
Chrysene	5615068	<0.05	<0.05	NA	< 0.05	94%	50%	140%	88%	50%	140%	80%	50%	140%
Benzo(b)fluoranthene	5615068	<0.05	<0.05	NA	< 0.05	93%	50%	140%	85%	50%	140%	100%	50%	140%
Benzo(k)fluoranthene	5615068	<0.05	<0.05	NA	< 0.05	109%	50%	140%	90%	50%	140%	95%	50%	140%
Benzo(a)pyrene	5615068	<0.05	<0.05	NA	< 0.05	104%	50%	140%	73%	50%	140%	83%	50%	140%
Indeno(1,2,3-cd)pyrene	5615068	<0.05	<0.05	NA	< 0.05	95%	50%	140%	98%	50%	140%	78%	50%	140%
Dibenz(a,h)anthracene	5615068	<0.05	<0.05	NA	< 0.05	112%	50%	140%	85%	50%	140%	80%	50%	140%
Benzo(g,h,i)perylene	5615068	<0.05	<0.05	NA	< 0.05	80%	50%	140%	103%	50%	140%	73%	50%	140%

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

F1 (C6 to C10)	5647746	<5	<5	NA	< 5	94%	60%	140%	89%	60%	140%	96%	60%	140%
F2 (C10 to C16)	5644503	< 10	< 10	NA	< 10	120%	60%	140%	82%	60%	140%	92%	60%	140%
F3 (C16 to C34)	5644503	< 50	< 50	NA	< 50	116%	60%	140%	98%	60%	140%	115%	60%	140%
F4 (C34 to C50)	5644503	< 50	< 50	NA	< 50	62%	60%	140%	85%	60%	140%	109%	60%	140%

Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

Trace Organics Analysis (Continued)

RPT Date:			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE				
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

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

Dichlorodifluoromethane	5647746		< 0.05	< 0.05	NA	< 0.05	90%	50%	140%	83%	50%	140%	109%	50%	140%
Vinyl Chloride	5647746		< 0.02	< 0.02	NA	< 0.02	107%	50%	140%	89%	50%	140%	102%	50%	140%
Bromomethane	5647746		< 0.05	< 0.05	NA	< 0.05	98%	50%	140%	102%	50%	140%	92%	50%	140%
Trichlorofluoromethane	5647746		< 0.05	< 0.05	NA	< 0.05	108%	50%	140%	80%	50%	140%	86%	50%	140%
Acetone	5647746		< 0.50	< 0.50	NA	< 0.50	95%	50%	140%	108%	50%	140%	96%	50%	140%
1,1-Dichloroethylene	5647746		< 0.05	< 0.05	NA	< 0.05	94%	50%	140%	69%	60%	130%	105%	50%	140%
Methylene Chloride	5647746		< 0.05	< 0.05	NA	< 0.05	91%	50%	140%	92%	60%	130%	102%	50%	140%
Trans- 1,2-Dichloroethylene	5647746		< 0.05	< 0.05	NA	< 0.05	76%	50%	140%	92%	60%	130%	67%	50%	140%
Methyl tert-butyl Ether	5647746		< 0.05	< 0.05	NA	< 0.05	68%	50%	140%	70%	60%	130%	95%	50%	140%
1,1-Dichloroethane	5647746		< 0.02	< 0.02	NA	< 0.02	99%	50%	140%	72%	60%	130%	85%	50%	140%
Methyl Ethyl Ketone	5647746		< 0.50	< 0.50	NA	< 0.50	96%	50%	140%	99%	50%	140%	95%	50%	140%
Cis- 1,2-Dichloroethylene	5647746		< 0.02	< 0.02	NA	< 0.02	97%	50%	140%	60%	60%	130%	101%	50%	140%
Chloroform	5647746		< 0.04	< 0.04	NA	< 0.04	106%	50%	140%	66%	60%	130%	100%	50%	140%
1,2-Dichloroethane	5647746		< 0.03	< 0.03	NA	< 0.03	107%	50%	140%	95%	60%	130%	97%	50%	140%
1,1,1-Trichloroethane	5647746		< 0.05	< 0.05	NA	< 0.05	81%	50%	140%	80%	60%	130%	87%	50%	140%
Carbon Tetrachloride	5647746		< 0.05	< 0.05	NA	< 0.05	76%	50%	140%	64%	60%	130%	67%	50%	140%
Benzene	5647746		< 0.02	< 0.02	NA	< 0.02	102%	50%	140%	65%	60%	130%	84%	50%	140%
1,2-Dichloropropane	5647746		< 0.03	< 0.03	NA	< 0.03	104%	50%	140%	71%	60%	130%	83%	50%	140%
Trichloroethylene	5647746		< 0.03	< 0.03	NA	< 0.03	109%	50%	140%	78%	60%	130%	105%	50%	140%
Bromodichloromethane	5647746		< 0.05	< 0.05	NA	< 0.05	97%	50%	140%	64%	60%	130%	88%	50%	140%
Methyl Isobutyl Ketone	5647746		< 0.50	< 0.50	NA	< 0.50	89%	50%	140%	95%	50%	140%	96%	50%	140%
1,1,2-Trichloroethane	5647746		< 0.04	< 0.04	NA	< 0.04	103%	50%	140%	69%	60%	130%	94%	50%	140%
Toluene	5647746		< 0.05	< 0.05	NA	< 0.05	94%	50%	140%	93%	60%	130%	101%	50%	140%
Dibromochloromethane	5647746		< 0.05	< 0.05	NA	< 0.05	72%	50%	140%	67%	60%	130%	104%	50%	140%
Ethylene Dibromide	5647746		< 0.04	< 0.04	NA	< 0.04	92%	50%	140%	79%	60%	130%	86%	50%	140%
Tetrachloroethylene	5647746		< 0.05	< 0.05	NA	< 0.05	79%	50%	140%	89%	60%	130%	89%	50%	140%
1,1,1,2-Tetrachloroethane	5647746		< 0.04	< 0.04	NA	< 0.04	79%	50%	140%	90%	60%	130%	104%	50%	140%
Chlorobenzene	5647746		< 0.05	< 0.05	NA	< 0.05	102%	50%	140%	70%	60%	130%	107%	50%	140%
Ethylbenzene	5647746		< 0.05	< 0.05	NA	< 0.05	98%	50%	140%	66%	60%	130%	102%	50%	140%
m & p-Xylene	5647746		< 0.05	< 0.05	NA	< 0.05	91%	50%	140%	95%	60%	130%	115%	50%	140%
Bromoform	5647746		< 0.05	< 0.05	NA	< 0.05	69%	50%	140%	89%	60%	130%	84%	50%	140%
Styrene	5647746		< 0.05	< 0.05	NA	< 0.05	92%	50%	140%	65%	60%	130%	102%	50%	140%
1,1,2,2-Tetrachloroethane	5647746		< 0.05	< 0.05	NA	< 0.05	87%	50%	140%	77%	60%	130%	81%	50%	140%
o-Xylene	5647746		< 0.05	< 0.05	NA	< 0.05	97%	50%	140%	60%	60%	130%	107%	50%	140%
1,3-Dichlorobenzene	5647746		< 0.05	< 0.05	NA	< 0.05	86%	50%	140%	65%	60%	130%	95%	50%	140%
1,4-Dichlorobenzene	5647746		< 0.05	< 0.05	NA	< 0.05	86%	50%	140%	91%	60%	130%	106%	50%	140%
1,2-Dichlorobenzene	5647746		< 0.05	< 0.05	NA	< 0.05	100%	50%	140%	66%	60%	130%	106%	50%	140%
n-Hexane	5647746		< 0.05	< 0.05	NA	< 0.05	63%	50%	140%	66%	60%	130%	66%	50%	140%

Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

Trace Organics Analysis (Continued)

RPT Date:			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE	
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Benzene	5644247	0.75	0.73	2.7%	< 0.02	84%	60%	140%	74%	60%	140%	84%	60%	140%
Toluene	5644247	0.10	0.12	NA	< 0.05	80%	60%	140%	72%	60%	140%	73%	60%	140%
Ethylbenzene	5644247	0.24	0.33	NA	< 0.05	90%	60%	140%	100%	60%	140%	102%	60%	140%
m & p-Xylene	5644247	0.46	0.57	21.4%	< 0.05	92%	60%	140%	79%	60%	140%	84%	60%	140%
o-Xylene	5644247	<0.05	<0.05	NA	< 0.05	71%	60%	140%	94%	60%	140%	73%	60%	140%
F1 (C6 to C10)	5644247	70	79	12.1%	< 5	95%	60%	140%	96%	60%	140%	100%	60%	140%

Certified By:





Time Markers

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645714	MW101-1	Soil	07-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-FEB-2024	21-FEB-2024	SE
Arsenic	21-FEB-2024	21-FEB-2024	SE
Barium	21-FEB-2024	21-FEB-2024	SE
Beryllium	21-FEB-2024	21-FEB-2024	SE
Boron	21-FEB-2024	21-FEB-2024	SE
Boron (Hot Water Soluble)	21-FEB-2024	21-FEB-2024	ZK
Cadmium	21-FEB-2024	21-FEB-2024	SE
Chromium	21-FEB-2024	21-FEB-2024	SE
Cobalt	21-FEB-2024	21-FEB-2024	SE
Copper	21-FEB-2024	21-FEB-2024	SE
Lead	21-FEB-2024	21-FEB-2024	SE
Molybdenum	21-FEB-2024	21-FEB-2024	SE
Nickel	21-FEB-2024	21-FEB-2024	SE
Selenium	21-FEB-2024	21-FEB-2024	SE
Silver	21-FEB-2024	21-FEB-2024	SE
Thallium	21-FEB-2024	21-FEB-2024	SE
Uranium	21-FEB-2024	21-FEB-2024	SE
Vanadium	21-FEB-2024	21-FEB-2024	SE
Zinc	21-FEB-2024	21-FEB-2024	SE
Chromium, Hexavalent	21-FEB-2024	21-FEB-2024	RC
Cyanide, WAD	21-FEB-2024	21-FEB-2024	BG
Mercury	21-FEB-2024	21-FEB-2024	SE
Electrical Conductivity (2:1)	21-FEB-2024	21-FEB-2024	SR
Sodium Adsorption Ratio (2:1) (Calc.)	21-FEB-2024	21-FEB-2024	XH
pH, 2:1 CaCl2 Extraction	21-FEB-2024	21-FEB-2024	SR

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-FEB-2024	21-FEB-2024	CA
Acenaphthylene	21-FEB-2024	21-FEB-2024	CA
Acenaphthene	21-FEB-2024	21-FEB-2024	CA
Fluorene	21-FEB-2024	21-FEB-2024	CA
Phenanthrene	21-FEB-2024	21-FEB-2024	CA
Anthracene	21-FEB-2024	21-FEB-2024	CA
Fluoranthene	21-FEB-2024	21-FEB-2024	CA
Pyrene	21-FEB-2024	21-FEB-2024	CA
Benz(a)anthracene	21-FEB-2024	21-FEB-2024	CA
Chrysene	21-FEB-2024	21-FEB-2024	CA
Benzo(b)fluoranthene	21-FEB-2024	21-FEB-2024	CA



Time Markers

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645714	MW101-1	Soil	07-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(k)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(a)pyrene	21-FEB-2024	21-FEB-2024	CA
Indeno(1,2,3-cd)pyrene	21-FEB-2024	21-FEB-2024	CA
Dibenz(a,h)anthracene	21-FEB-2024	21-FEB-2024	CA
Benzo(g,h,i)perylene	21-FEB-2024	21-FEB-2024	CA
2-and 1-methyl Naphthalene	21-FEB-2024	21-FEB-2024	SYS
Naphthalene-d8	21-FEB-2024	21-FEB-2024	CA
Acridine-d9	21-FEB-2024	21-FEB-2024	CA
Terphenyl-d14	21-FEB-2024	21-FEB-2024	CA
Moisture Content	20-FEB-2024	20-FEB-2024	AK

5645715	MW101-4	Soil	07-FEB-2024	13-FEB-2024
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O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-FEB-2024	21-FEB-2024	SE
Arsenic	21-FEB-2024	21-FEB-2024	SE
Barium	21-FEB-2024	21-FEB-2024	SE
Beryllium	21-FEB-2024	21-FEB-2024	SE
Boron	21-FEB-2024	21-FEB-2024	SE
Boron (Hot Water Soluble)	21-FEB-2024	21-FEB-2024	ZK
Cadmium	21-FEB-2024	21-FEB-2024	SE
Chromium	21-FEB-2024	21-FEB-2024	SE
Cobalt	21-FEB-2024	21-FEB-2024	SE
Copper	21-FEB-2024	21-FEB-2024	SE
Lead	21-FEB-2024	21-FEB-2024	SE
Molybdenum	21-FEB-2024	21-FEB-2024	SE
Nickel	21-FEB-2024	21-FEB-2024	SE
Selenium	21-FEB-2024	21-FEB-2024	SE
Silver	21-FEB-2024	21-FEB-2024	SE
Thallium	21-FEB-2024	21-FEB-2024	SE
Uranium	21-FEB-2024	21-FEB-2024	SE
Vanadium	21-FEB-2024	21-FEB-2024	SE
Zinc	21-FEB-2024	21-FEB-2024	SE
Chromium, Hexavalent	21-FEB-2024	21-FEB-2024	RC
Cyanide, WAD	21-FEB-2024	21-FEB-2024	BG
Mercury	21-FEB-2024	21-FEB-2024	SE
Electrical Conductivity (2:1)	21-FEB-2024	21-FEB-2024	SR
Sodium Adsorption Ratio (2:1) (Calc.)	21-FEB-2024	21-FEB-2024	XH



Time Markers

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645715	MW101-4	Soil	07-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
pH, 2:1 CaCl ₂ Extraction	21-FEB-2024	21-FEB-2024	SR

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-FEB-2024	21-FEB-2024	CA
Acenaphthylene	21-FEB-2024	21-FEB-2024	CA
Acenaphthene	21-FEB-2024	21-FEB-2024	CA
Fluorene	21-FEB-2024	21-FEB-2024	CA
Phenanthrene	21-FEB-2024	21-FEB-2024	CA
Anthracene	21-FEB-2024	21-FEB-2024	CA
Fluoranthene	21-FEB-2024	21-FEB-2024	CA
Pyrene	21-FEB-2024	21-FEB-2024	CA
Benz(a)anthracene	21-FEB-2024	21-FEB-2024	CA
Chrysene	21-FEB-2024	21-FEB-2024	CA
Benzo(b)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(k)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(a)pyrene	21-FEB-2024	21-FEB-2024	CA
Indeno(1,2,3-cd)pyrene	21-FEB-2024	21-FEB-2024	CA
Dibenz(a,h)anthracene	21-FEB-2024	21-FEB-2024	CA
Benzo(g,h,i)perylene	21-FEB-2024	21-FEB-2024	CA
2-and 1-methyl Naphthalene	21-FEB-2024	21-FEB-2024	SYS
Naphthalene-d ₈	21-FEB-2024	21-FEB-2024	CA
Acridine-d ₉	21-FEB-2024	21-FEB-2024	CA
Terphenyl-d ₁₄	21-FEB-2024	21-FEB-2024	CA
Moisture Content	20-FEB-2024	20-FEB-2024	AK

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	15-FEB-2024	15-FEB-2024	CK
F1 (C6 to C10) minus BTEX	15-FEB-2024	15-FEB-2024	SYS
Toluene-d ₈	15-FEB-2024	15-FEB-2024	CK
F2 (C10 to C16)	20-FEB-2024	20-FEB-2024	CBB
F2 (C10 to C16) minus Naphthalene	21-FEB-2024	21-FEB-2024	SYS
F3 (C16 to C34)	20-FEB-2024	20-FEB-2024	CBB
F3 (C16 to C34) minus PAHs	21-FEB-2024	21-FEB-2024	SYS
F4 (C34 to C50)	20-FEB-2024	20-FEB-2024	CBB
Gravimetric Heavy Hydrocarbons	20-FEB-2024	20-FEB-2024	CBB
Moisture Content	20-FEB-2024	20-FEB-2024	AK
Terphenyl	20-FEB-2024	20-FEB-2024	CBB



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CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645715	MW101-4	Soil	07-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	15-FEB-2024	15-FEB-2024	CK
Vinyl Chloride	15-FEB-2024	15-FEB-2024	CK
Bromomethane	15-FEB-2024	15-FEB-2024	CK
Trichlorofluoromethane	15-FEB-2024	15-FEB-2024	CK
Acetone	15-FEB-2024	15-FEB-2024	CK
1,1-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Methylene Chloride	15-FEB-2024	15-FEB-2024	CK
Trans- 1,2-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Methyl tert-butyl Ether	15-FEB-2024	15-FEB-2024	CK
1,1-Dichloroethane	15-FEB-2024	15-FEB-2024	CK
Methyl Ethyl Ketone	15-FEB-2024	15-FEB-2024	CK
Cis- 1,2-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Chloroform	15-FEB-2024	15-FEB-2024	CK
1,2-Dichloroethane	15-FEB-2024	15-FEB-2024	CK
1,1,1-Trichloroethane	15-FEB-2024	15-FEB-2024	CK
Carbon Tetrachloride	15-FEB-2024	15-FEB-2024	CK
Benzene	15-FEB-2024	15-FEB-2024	CK
1,2-Dichloropropane	15-FEB-2024	15-FEB-2024	CK
Trichloroethylene	15-FEB-2024	15-FEB-2024	CK
Bromodichloromethane	15-FEB-2024	15-FEB-2024	CK
Methyl Isobutyl Ketone	15-FEB-2024	15-FEB-2024	CK
1,1,2-Trichloroethane	15-FEB-2024	15-FEB-2024	CK
Toluene	15-FEB-2024	15-FEB-2024	CK
Dibromochloromethane	15-FEB-2024	15-FEB-2024	CK
Ethylene Dibromide	15-FEB-2024	15-FEB-2024	CK
Tetrachloroethylene	16-FEB-2024	16-FEB-2024	CK
1,1,1,2-Tetrachloroethane	15-FEB-2024	15-FEB-2024	CK
Chlorobenzene	15-FEB-2024	15-FEB-2024	CK
Ethylbenzene	15-FEB-2024	15-FEB-2024	CK
m & p-Xylene	15-FEB-2024	15-FEB-2024	CK
Bromoform	15-FEB-2024	15-FEB-2024	CK
Styrene	15-FEB-2024	15-FEB-2024	CK
1,1,2,2-Tetrachloroethane	15-FEB-2024	15-FEB-2024	CK
o-Xylene	15-FEB-2024	15-FEB-2024	CK
1,3-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
1,4-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
1,2-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
Xylenes (Total)	15-FEB-2024	15-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	15-FEB-2024	15-FEB-2024	SYS



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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645715	MW101-4	Soil	07-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
n-Hexane	15-FEB-2024	15-FEB-2024	CK
Toluene-d8	16-FEB-2024	16-FEB-2024	CK
4-Bromofluorobenzene	16-FEB-2024	16-FEB-2024	CK
Moisture Content	20-FEB-2024	20-FEB-2024	AK

5645717	MW102-1	Soil	08-FEB-2024	13-FEB-2024
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O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-FEB-2024	21-FEB-2024	SE
Arsenic	21-FEB-2024	21-FEB-2024	SE
Barium	21-FEB-2024	21-FEB-2024	SE
Beryllium	21-FEB-2024	21-FEB-2024	SE
Boron	21-FEB-2024	21-FEB-2024	SE
Boron (Hot Water Soluble)	21-FEB-2024	21-FEB-2024	ZK
Cadmium	21-FEB-2024	21-FEB-2024	SE
Chromium	21-FEB-2024	21-FEB-2024	SE
Cobalt	21-FEB-2024	21-FEB-2024	SE
Copper	21-FEB-2024	21-FEB-2024	SE
Lead	21-FEB-2024	21-FEB-2024	SE
Molybdenum	21-FEB-2024	21-FEB-2024	SE
Nickel	21-FEB-2024	21-FEB-2024	SE
Selenium	21-FEB-2024	21-FEB-2024	SE
Silver	21-FEB-2024	21-FEB-2024	SE
Thallium	21-FEB-2024	21-FEB-2024	SE
Uranium	21-FEB-2024	21-FEB-2024	SE
Vanadium	21-FEB-2024	21-FEB-2024	SE
Zinc	21-FEB-2024	21-FEB-2024	SE
Chromium, Hexavalent	21-FEB-2024	21-FEB-2024	RC
Cyanide, WAD	21-FEB-2024	21-FEB-2024	BG
Mercury	21-FEB-2024	21-FEB-2024	SE
Electrical Conductivity (2:1)	21-FEB-2024	21-FEB-2024	SR
Sodium Adsorption Ratio (2:1) (Calc.)	21-FEB-2024	21-FEB-2024	XH
pH, 2:1 CaCl2 Extraction	21-FEB-2024	21-FEB-2024	SR

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-FEB-2024	21-FEB-2024	CA
Acenaphthylene	21-FEB-2024	21-FEB-2024	CA



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PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645717	MW102-1	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Acenaphthene	21-FEB-2024	21-FEB-2024	CA
Fluorene	21-FEB-2024	21-FEB-2024	CA
Phenanthrene	21-FEB-2024	21-FEB-2024	CA
Anthracene	21-FEB-2024	21-FEB-2024	CA
Fluoranthene	21-FEB-2024	21-FEB-2024	CA
Pyrene	21-FEB-2024	21-FEB-2024	CA
Benz(a)anthracene	21-FEB-2024	21-FEB-2024	CA
Chrysene	21-FEB-2024	21-FEB-2024	CA
Benzo(b)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(k)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(a)pyrene	21-FEB-2024	21-FEB-2024	CA
Indeno(1,2,3-cd)pyrene	21-FEB-2024	21-FEB-2024	CA
Dibenz(a,h)anthracene	21-FEB-2024	21-FEB-2024	CA
Benzo(g,h,i)perylene	21-FEB-2024	21-FEB-2024	CA
2-and 1-methyl Naphthalene	21-FEB-2024	21-FEB-2024	SYS
Naphthalene-d8	21-FEB-2024	21-FEB-2024	CA
Acridine-d9	21-FEB-2024	21-FEB-2024	CA
Terphenyl-d14	21-FEB-2024	21-FEB-2024	CA
Moisture Content	20-FEB-2024	20-FEB-2024	AK

5645718	MW102-3	Soil	08-FEB-2024	13-FEB-2024
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O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-FEB-2024	21-FEB-2024	SE
Arsenic	21-FEB-2024	21-FEB-2024	SE
Barium	21-FEB-2024	21-FEB-2024	SE
Beryllium	21-FEB-2024	21-FEB-2024	SE
Boron	21-FEB-2024	21-FEB-2024	SE
Boron (Hot Water Soluble)	21-FEB-2024	21-FEB-2024	ZK
Cadmium	21-FEB-2024	21-FEB-2024	SE
Chromium	21-FEB-2024	21-FEB-2024	SE
Cobalt	21-FEB-2024	21-FEB-2024	SE
Copper	21-FEB-2024	21-FEB-2024	SE
Lead	21-FEB-2024	21-FEB-2024	SE
Molybdenum	21-FEB-2024	21-FEB-2024	SE
Nickel	21-FEB-2024	21-FEB-2024	SE
Selenium	21-FEB-2024	21-FEB-2024	SE
Silver	21-FEB-2024	21-FEB-2024	SE



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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645718	MW102-3	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Thallium	21-FEB-2024	21-FEB-2024	SE
Uranium	21-FEB-2024	21-FEB-2024	SE
Vanadium	21-FEB-2024	21-FEB-2024	SE
Zinc	21-FEB-2024	21-FEB-2024	SE
Chromium, Hexavalent	21-FEB-2024	21-FEB-2024	RC
Cyanide, WAD	21-FEB-2024	21-FEB-2024	BG
Mercury	21-FEB-2024	21-FEB-2024	SE
Electrical Conductivity (2:1)	21-FEB-2024	21-FEB-2024	SR
Sodium Adsorption Ratio (2:1) (Calc.)	21-FEB-2024	21-FEB-2024	XH
pH, 2:1 CaCl2 Extraction	21-FEB-2024	21-FEB-2024	SR

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-FEB-2024	21-FEB-2024	CA
Acenaphthylene	21-FEB-2024	21-FEB-2024	CA
Acenaphthene	21-FEB-2024	21-FEB-2024	CA
Fluorene	21-FEB-2024	21-FEB-2024	CA
Phenanthrene	21-FEB-2024	21-FEB-2024	CA
Anthracene	21-FEB-2024	21-FEB-2024	CA
Fluoranthene	21-FEB-2024	21-FEB-2024	CA
Pyrene	21-FEB-2024	21-FEB-2024	CA
Benz(a)anthracene	21-FEB-2024	21-FEB-2024	CA
Chrysene	21-FEB-2024	21-FEB-2024	CA
Benzo(b)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(k)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(a)pyrene	21-FEB-2024	21-FEB-2024	CA
Indeno(1,2,3-cd)pyrene	21-FEB-2024	21-FEB-2024	CA
Dibenz(a,h)anthracene	21-FEB-2024	21-FEB-2024	CA
Benzo(g,h,i)perylene	21-FEB-2024	21-FEB-2024	CA
2-and 1-methyl Naphthalene	21-FEB-2024	21-FEB-2024	SYS
Naphthalene-d8	21-FEB-2024	21-FEB-2024	CA
Acridine-d9	21-FEB-2024	21-FEB-2024	CA
Terphenyl-d14	21-FEB-2024	21-FEB-2024	CA
Moisture Content	20-FEB-2024	20-FEB-2024	AK

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	15-FEB-2024	15-FEB-2024	CK
F1 (C6 to C10) minus BTEX	15-FEB-2024	15-FEB-2024	SYS



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TEL (905)712-5100
FAX (905)712-5122
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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645718	MW102-3	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Toluene-d8	15-FEB-2024	15-FEB-2024	CK
F2 (C10 to C16)	20-FEB-2024	20-FEB-2024	CBB
F2 (C10 to C16) minus Naphthalene	21-FEB-2024	21-FEB-2024	SYS
F3 (C16 to C34)	20-FEB-2024	20-FEB-2024	CBB
F3 (C16 to C34) minus PAHs	21-FEB-2024	21-FEB-2024	SYS
F4 (C34 to C50)	20-FEB-2024	20-FEB-2024	CBB
Gravimetric Heavy Hydrocarbons	20-FEB-2024	20-FEB-2024	CBB
Moisture Content	20-FEB-2024	20-FEB-2024	AK
Terphenyl	20-FEB-2024	20-FEB-2024	CBB

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	15-FEB-2024	15-FEB-2024	CK
Vinyl Chloride	15-FEB-2024	15-FEB-2024	CK
Bromomethane	15-FEB-2024	15-FEB-2024	CK
Trichlorofluoromethane	15-FEB-2024	15-FEB-2024	CK
Acetone	15-FEB-2024	15-FEB-2024	CK
1,1-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Methylene Chloride	15-FEB-2024	15-FEB-2024	CK
Trans- 1,2-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Methyl tert-butyl Ether	15-FEB-2024	15-FEB-2024	CK
1,1-Dichloroethane	15-FEB-2024	15-FEB-2024	CK
Methyl Ethyl Ketone	15-FEB-2024	15-FEB-2024	CK
Cis- 1,2-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Chloroform	15-FEB-2024	15-FEB-2024	CK
1,2-Dichloroethane	15-FEB-2024	15-FEB-2024	CK
1,1,1-Trichloroethane	15-FEB-2024	15-FEB-2024	CK
Carbon Tetrachloride	15-FEB-2024	15-FEB-2024	CK
Benzene	15-FEB-2024	15-FEB-2024	CK
1,2-Dichloropropane	15-FEB-2024	15-FEB-2024	CK
Trichloroethylene	15-FEB-2024	15-FEB-2024	CK
Bromodichloromethane	15-FEB-2024	15-FEB-2024	CK
Methyl Isobutyl Ketone	15-FEB-2024	15-FEB-2024	CK
1,1,2-Trichloroethane	15-FEB-2024	15-FEB-2024	CK
Toluene	15-FEB-2024	15-FEB-2024	CK
Dibromochloromethane	15-FEB-2024	15-FEB-2024	CK
Ethylene Dibromide	15-FEB-2024	15-FEB-2024	CK
Tetrachloroethylene	16-FEB-2024	16-FEB-2024	CK
1,1,1,2-Tetrachloroethane	15-FEB-2024	15-FEB-2024	CK



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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645718	MW102-3	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	15-FEB-2024	15-FEB-2024	CK
Ethylbenzene	15-FEB-2024	15-FEB-2024	CK
m & p-Xylene	15-FEB-2024	15-FEB-2024	CK
Bromoform	15-FEB-2024	15-FEB-2024	CK
Styrene	15-FEB-2024	15-FEB-2024	CK
1,1,2,2-Tetrachloroethane	15-FEB-2024	15-FEB-2024	CK
o-Xylene	15-FEB-2024	15-FEB-2024	CK
1,3-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
1,4-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
1,2-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
Xylenes (Total)	15-FEB-2024	15-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	15-FEB-2024	15-FEB-2024	SYS
n-Hexane	15-FEB-2024	15-FEB-2024	CK
Toluene-d8	16-FEB-2024	16-FEB-2024	CK
4-Bromofluorobenzene	16-FEB-2024	16-FEB-2024	CK
Moisture Content	20-FEB-2024	20-FEB-2024	AK

5645720	MW103-3	Soil	08-FEB-2024	13-FEB-2024
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O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-FEB-2024	21-FEB-2024	SE
Arsenic	21-FEB-2024	21-FEB-2024	SE
Barium	21-FEB-2024	21-FEB-2024	SE
Beryllium	21-FEB-2024	21-FEB-2024	SE
Boron	21-FEB-2024	21-FEB-2024	SE
Boron (Hot Water Soluble)	21-FEB-2024	21-FEB-2024	ZK
Cadmium	21-FEB-2024	21-FEB-2024	SE
Chromium	21-FEB-2024	21-FEB-2024	SE
Cobalt	21-FEB-2024	21-FEB-2024	SE
Copper	21-FEB-2024	21-FEB-2024	SE
Lead	21-FEB-2024	21-FEB-2024	SE
Molybdenum	21-FEB-2024	21-FEB-2024	SE
Nickel	21-FEB-2024	21-FEB-2024	SE
Selenium	21-FEB-2024	21-FEB-2024	SE
Silver	21-FEB-2024	21-FEB-2024	SE
Thallium	21-FEB-2024	21-FEB-2024	SE
Uranium	21-FEB-2024	21-FEB-2024	SE
Vanadium	21-FEB-2024	21-FEB-2024	SE



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AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645720	MW103-3	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Zinc	21-FEB-2024	21-FEB-2024	SE
Chromium, Hexavalent	21-FEB-2024	21-FEB-2024	RC
Cyanide, WAD	21-FEB-2024	21-FEB-2024	BG
Mercury	21-FEB-2024	21-FEB-2024	SE
Electrical Conductivity (2:1)	21-FEB-2024	21-FEB-2024	SR
Sodium Adsorption Ratio (2:1) (Calc.)	21-FEB-2024	21-FEB-2024	XH
pH, 2:1 CaCl2 Extraction	21-FEB-2024	21-FEB-2024	SR

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-FEB-2024	21-FEB-2024	CA
Acenaphthylene	21-FEB-2024	21-FEB-2024	CA
Acenaphthene	21-FEB-2024	21-FEB-2024	CA
Fluorene	21-FEB-2024	21-FEB-2024	CA
Phenanthrene	21-FEB-2024	21-FEB-2024	CA
Anthracene	21-FEB-2024	21-FEB-2024	CA
Fluoranthene	21-FEB-2024	21-FEB-2024	CA
Pyrene	21-FEB-2024	21-FEB-2024	CA
Benz(a)anthracene	21-FEB-2024	21-FEB-2024	CA
Chrysene	21-FEB-2024	21-FEB-2024	CA
Benzo(b)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(k)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(a)pyrene	21-FEB-2024	21-FEB-2024	CA
Indeno(1,2,3-cd)pyrene	21-FEB-2024	21-FEB-2024	CA
Dibenz(a,h)anthracene	21-FEB-2024	21-FEB-2024	CA
Benzo(g,h,i)perylene	21-FEB-2024	21-FEB-2024	CA
2-and 1-methyl Naphthalene	21-FEB-2024	21-FEB-2024	SYS
Naphthalene-d8	21-FEB-2024	21-FEB-2024	CA
Acridine-d9	21-FEB-2024	21-FEB-2024	CA
Terphenyl-d14	21-FEB-2024	21-FEB-2024	CA
Moisture Content	20-FEB-2024	20-FEB-2024	AK

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	15-FEB-2024	15-FEB-2024	CK
F1 (C6 to C10) minus BTEX	15-FEB-2024	15-FEB-2024	SYS
Toluene-d8	15-FEB-2024	15-FEB-2024	CK
F2 (C10 to C16)	20-FEB-2024	20-FEB-2024	CBB
F2 (C10 to C16) minus Naphthalene	21-FEB-2024	21-FEB-2024	SYS



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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645720	MW103-3	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F3 (C16 to C34)	20-FEB-2024	20-FEB-2024	CBB
F3 (C16 to C34) minus PAHs	21-FEB-2024	21-FEB-2024	SYS
F4 (C34 to C50)	20-FEB-2024	20-FEB-2024	CBB
Gravimetric Heavy Hydrocarbons	20-FEB-2024	20-FEB-2024	CBB
Moisture Content	20-FEB-2024	20-FEB-2024	AK
Terphenyl	20-FEB-2024	20-FEB-2024	CBB

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	15-FEB-2024	15-FEB-2024	CK
Vinyl Chloride	15-FEB-2024	15-FEB-2024	CK
Bromomethane	15-FEB-2024	15-FEB-2024	CK
Trichlorofluoromethane	15-FEB-2024	15-FEB-2024	CK
Acetone	15-FEB-2024	15-FEB-2024	CK
1,1-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Methylene Chloride	15-FEB-2024	15-FEB-2024	CK
Trans- 1,2-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Methyl tert-butyl Ether	15-FEB-2024	15-FEB-2024	CK
1,1-Dichloroethane	15-FEB-2024	15-FEB-2024	CK
Methyl Ethyl Ketone	15-FEB-2024	15-FEB-2024	CK
Cis- 1,2-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Chloroform	15-FEB-2024	15-FEB-2024	CK
1,2-Dichloroethane	15-FEB-2024	15-FEB-2024	CK
1,1,1-Trichloroethane	15-FEB-2024	15-FEB-2024	CK
Carbon Tetrachloride	15-FEB-2024	15-FEB-2024	CK
Benzene	15-FEB-2024	15-FEB-2024	CK
1,2-Dichloropropane	15-FEB-2024	15-FEB-2024	CK
Trichloroethylene	15-FEB-2024	15-FEB-2024	CK
Bromodichloromethane	15-FEB-2024	15-FEB-2024	CK
Methyl Isobutyl Ketone	15-FEB-2024	15-FEB-2024	CK
1,1,2-Trichloroethane	15-FEB-2024	15-FEB-2024	CK
Toluene	15-FEB-2024	15-FEB-2024	CK
Dibromochloromethane	15-FEB-2024	15-FEB-2024	CK
Ethylene Dibromide	15-FEB-2024	15-FEB-2024	CK
Tetrachloroethylene	16-FEB-2024	16-FEB-2024	CK
1,1,1,2-Tetrachloroethane	15-FEB-2024	15-FEB-2024	CK
Chlorobenzene	15-FEB-2024	15-FEB-2024	CK
Ethylbenzene	15-FEB-2024	15-FEB-2024	CK
m & p-Xylene	15-FEB-2024	15-FEB-2024	CK



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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645720	MW103-3	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Bromoform	15-FEB-2024	15-FEB-2024	CK
Styrene	15-FEB-2024	15-FEB-2024	CK
1,1,2,2-Tetrachloroethane	15-FEB-2024	15-FEB-2024	CK
o-Xylene	15-FEB-2024	15-FEB-2024	CK
1,3-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
1,4-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
1,2-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
Xylenes (Total)	15-FEB-2024	15-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	15-FEB-2024	15-FEB-2024	SYS
n-Hexane	15-FEB-2024	15-FEB-2024	CK
Toluene-d8	16-FEB-2024	16-FEB-2024	CK
4-Bromofluorobenzene	16-FEB-2024	16-FEB-2024	CK
Moisture Content	20-FEB-2024	20-FEB-2024	AK

5645722	MW104-1	Soil	08-FEB-2024	13-FEB-2024
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O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-FEB-2024	21-FEB-2024	SE
Arsenic	21-FEB-2024	21-FEB-2024	SE
Barium	21-FEB-2024	21-FEB-2024	SE
Beryllium	21-FEB-2024	21-FEB-2024	SE
Boron	21-FEB-2024	21-FEB-2024	SE
Boron (Hot Water Soluble)	21-FEB-2024	21-FEB-2024	ZK
Cadmium	21-FEB-2024	21-FEB-2024	SE
Chromium	21-FEB-2024	21-FEB-2024	SE
Cobalt	21-FEB-2024	21-FEB-2024	SE
Copper	21-FEB-2024	21-FEB-2024	SE
Lead	21-FEB-2024	21-FEB-2024	SE
Molybdenum	21-FEB-2024	21-FEB-2024	SE
Nickel	21-FEB-2024	21-FEB-2024	SE
Selenium	21-FEB-2024	21-FEB-2024	SE
Silver	21-FEB-2024	21-FEB-2024	SE
Thallium	21-FEB-2024	21-FEB-2024	SE
Uranium	21-FEB-2024	21-FEB-2024	SE
Vanadium	21-FEB-2024	21-FEB-2024	SE
Zinc	21-FEB-2024	21-FEB-2024	SE
Chromium, Hexavalent	21-FEB-2024	21-FEB-2024	RC
Cyanide, WAD	21-FEB-2024	21-FEB-2024	BG



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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645722	MW104-1	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Mercury	21-FEB-2024	21-FEB-2024	SE
Electrical Conductivity (2:1)	21-FEB-2024	21-FEB-2024	SR
Sodium Adsorption Ratio (2:1) (Calc.)	21-FEB-2024	21-FEB-2024	XH
pH, 2:1 CaCl2 Extraction	21-FEB-2024	21-FEB-2024	SR

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-FEB-2024	21-FEB-2024	CA
Acenaphthylene	21-FEB-2024	21-FEB-2024	CA
Acenaphthene	21-FEB-2024	21-FEB-2024	CA
Fluorene	21-FEB-2024	21-FEB-2024	CA
Phenanthrene	21-FEB-2024	21-FEB-2024	CA
Anthracene	21-FEB-2024	21-FEB-2024	CA
Fluoranthene	21-FEB-2024	21-FEB-2024	CA
Pyrene	21-FEB-2024	21-FEB-2024	CA
Benz(a)anthracene	21-FEB-2024	21-FEB-2024	CA
Chrysene	21-FEB-2024	21-FEB-2024	CA
Benzo(b)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(k)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(a)pyrene	21-FEB-2024	21-FEB-2024	CA
Indeno(1,2,3-cd)pyrene	21-FEB-2024	21-FEB-2024	CA
Dibenz(a,h)anthracene	21-FEB-2024	21-FEB-2024	CA
Benzo(g,h,i)perylene	21-FEB-2024	21-FEB-2024	CA
2-and 1-methyl Naphthalene	21-FEB-2024	21-FEB-2024	SYS
Naphthalene-d8	21-FEB-2024	21-FEB-2024	CA
Acridine-d9	21-FEB-2024	21-FEB-2024	CA
Terphenyl-d14	21-FEB-2024	21-FEB-2024	CA
Moisture Content	20-FEB-2024	20-FEB-2024	AK

5645725	MW104-3	Soil	08-FEB-2024	13-FEB-2024
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O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-FEB-2024	21-FEB-2024	SE
Arsenic	21-FEB-2024	21-FEB-2024	SE
Barium	21-FEB-2024	21-FEB-2024	SE
Beryllium	21-FEB-2024	21-FEB-2024	SE
Boron	21-FEB-2024	21-FEB-2024	SE
Boron (Hot Water Soluble)	21-FEB-2024	21-FEB-2024	ZK



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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645725	MW104-3	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Cadmium	21-FEB-2024	21-FEB-2024	SE
Chromium	21-FEB-2024	21-FEB-2024	SE
Cobalt	21-FEB-2024	21-FEB-2024	SE
Copper	21-FEB-2024	21-FEB-2024	SE
Lead	21-FEB-2024	21-FEB-2024	SE
Molybdenum	21-FEB-2024	21-FEB-2024	SE
Nickel	21-FEB-2024	21-FEB-2024	SE
Selenium	21-FEB-2024	21-FEB-2024	SE
Silver	21-FEB-2024	21-FEB-2024	SE
Thallium	21-FEB-2024	21-FEB-2024	SE
Uranium	21-FEB-2024	21-FEB-2024	SE
Vanadium	21-FEB-2024	21-FEB-2024	SE
Zinc	21-FEB-2024	21-FEB-2024	SE
Chromium, Hexavalent	21-FEB-2024	21-FEB-2024	RC
Cyanide, WAD	21-FEB-2024	21-FEB-2024	BG
Mercury	21-FEB-2024	21-FEB-2024	SE
Electrical Conductivity (2:1)	21-FEB-2024	21-FEB-2024	SR
Sodium Adsorption Ratio (2:1) (Calc.)	21-FEB-2024	21-FEB-2024	XH
pH, 2:1 CaCl2 Extraction	21-FEB-2024	21-FEB-2024	SR

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-FEB-2024	21-FEB-2024	CA
Acenaphthylene	21-FEB-2024	21-FEB-2024	CA
Acenaphthene	21-FEB-2024	21-FEB-2024	CA
Fluorene	21-FEB-2024	21-FEB-2024	CA
Phenanthrene	21-FEB-2024	21-FEB-2024	CA
Anthracene	21-FEB-2024	21-FEB-2024	CA
Fluoranthene	21-FEB-2024	21-FEB-2024	CA
Pyrene	21-FEB-2024	21-FEB-2024	CA
Benz(a)anthracene	21-FEB-2024	21-FEB-2024	CA
Chrysene	21-FEB-2024	21-FEB-2024	CA
Benzo(b)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(k)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(a)pyrene	21-FEB-2024	21-FEB-2024	CA
Indeno(1,2,3-cd)pyrene	21-FEB-2024	21-FEB-2024	CA
Dibenz(a,h)anthracene	21-FEB-2024	21-FEB-2024	CA
Benzo(g,h,i)perylene	21-FEB-2024	21-FEB-2024	CA
2-and 1-methyl Naphthalene	21-FEB-2024	21-FEB-2024	SYS



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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645725	MW104-3	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene-d8	21-FEB-2024	21-FEB-2024	CA
Acridine-d9	21-FEB-2024	21-FEB-2024	CA
Terphenyl-d14	21-FEB-2024	21-FEB-2024	CA
Moisture Content	20-FEB-2024	20-FEB-2024	AK

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	15-FEB-2024	15-FEB-2024	CK
F1 (C6 to C10) minus BTEX	15-FEB-2024	15-FEB-2024	SYS
Toluene-d8	15-FEB-2024	15-FEB-2024	CK
F2 (C10 to C16)	20-FEB-2024	20-FEB-2024	CBB
F2 (C10 to C16) minus Naphthalene	21-FEB-2024	21-FEB-2024	SYS
F3 (C16 to C34)	20-FEB-2024	20-FEB-2024	CBB
F3 (C16 to C34) minus PAHs	21-FEB-2024	21-FEB-2024	SYS
F4 (C34 to C50)	20-FEB-2024	20-FEB-2024	CBB
Gravimetric Heavy Hydrocarbons	20-FEB-2024	20-FEB-2024	CBB
Moisture Content	20-FEB-2024	20-FEB-2024	AK
Terphenyl	20-FEB-2024	20-FEB-2024	CBB

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	15-FEB-2024	15-FEB-2024	CK
Vinyl Chloride	15-FEB-2024	15-FEB-2024	CK
Bromomethane	15-FEB-2024	15-FEB-2024	CK
Trichlorofluoromethane	15-FEB-2024	15-FEB-2024	CK
Acetone	15-FEB-2024	15-FEB-2024	CK
1,1-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Methylene Chloride	15-FEB-2024	15-FEB-2024	CK
Trans- 1,2-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Methyl tert-butyl Ether	15-FEB-2024	15-FEB-2024	CK
1,1-Dichloroethane	15-FEB-2024	15-FEB-2024	CK
Methyl Ethyl Ketone	15-FEB-2024	15-FEB-2024	CK
Cis- 1,2-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Chloroform	15-FEB-2024	15-FEB-2024	CK
1,2-Dichloroethane	15-FEB-2024	15-FEB-2024	CK
1,1,1-Trichloroethane	15-FEB-2024	15-FEB-2024	CK
Carbon Tetrachloride	15-FEB-2024	15-FEB-2024	CK
Benzene	15-FEB-2024	15-FEB-2024	CK
1,2-Dichloropropane	15-FEB-2024	15-FEB-2024	CK



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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645725	MW104-3	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Trichloroethylene	15-FEB-2024	15-FEB-2024	CK
Bromodichloromethane	15-FEB-2024	15-FEB-2024	CK
Methyl Isobutyl Ketone	15-FEB-2024	15-FEB-2024	CK
1,1,2-Trichloroethane	15-FEB-2024	15-FEB-2024	CK
Toluene	15-FEB-2024	15-FEB-2024	CK
Dibromochloromethane	15-FEB-2024	15-FEB-2024	CK
Ethylene Dibromide	15-FEB-2024	15-FEB-2024	CK
Tetrachloroethylene	16-FEB-2024	16-FEB-2024	CK
1,1,1,2-Tetrachloroethane	15-FEB-2024	15-FEB-2024	CK
Chlorobenzene	15-FEB-2024	15-FEB-2024	CK
Ethylbenzene	15-FEB-2024	15-FEB-2024	CK
m & p-Xylene	15-FEB-2024	15-FEB-2024	CK
Bromoform	15-FEB-2024	15-FEB-2024	CK
Styrene	15-FEB-2024	15-FEB-2024	CK
1,1,2,2-Tetrachloroethane	15-FEB-2024	15-FEB-2024	CK
o-Xylene	15-FEB-2024	15-FEB-2024	CK
1,3-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
1,4-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
1,2-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
Xylenes (Total)	15-FEB-2024	15-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	15-FEB-2024	15-FEB-2024	SYS
n-Hexane	15-FEB-2024	15-FEB-2024	CK
Toluene-d8	16-FEB-2024	16-FEB-2024	CK
4-Bromofluorobenzene	16-FEB-2024	16-FEB-2024	CK
Moisture Content	20-FEB-2024	20-FEB-2024	AK

5645727	MW105-1	Soil	08-FEB-2024	13-FEB-2024
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O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-FEB-2024	21-FEB-2024	SE
Arsenic	21-FEB-2024	21-FEB-2024	SE
Barium	21-FEB-2024	21-FEB-2024	SE
Beryllium	21-FEB-2024	21-FEB-2024	SE
Boron	21-FEB-2024	21-FEB-2024	SE
Boron (Hot Water Soluble)	21-FEB-2024	21-FEB-2024	ZK
Cadmium	21-FEB-2024	21-FEB-2024	SE
Chromium	21-FEB-2024	21-FEB-2024	SE
Cobalt	21-FEB-2024	21-FEB-2024	SE



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AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645727	MW105-1	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Copper	21-FEB-2024	21-FEB-2024	SE
Lead	21-FEB-2024	21-FEB-2024	SE
Molybdenum	21-FEB-2024	21-FEB-2024	SE
Nickel	21-FEB-2024	21-FEB-2024	SE
Selenium	21-FEB-2024	21-FEB-2024	SE
Silver	21-FEB-2024	21-FEB-2024	SE
Thallium	21-FEB-2024	21-FEB-2024	SE
Uranium	21-FEB-2024	21-FEB-2024	SE
Vanadium	21-FEB-2024	21-FEB-2024	SE
Zinc	21-FEB-2024	21-FEB-2024	SE
Chromium, Hexavalent	21-FEB-2024	21-FEB-2024	RC
Cyanide, WAD	21-FEB-2024	21-FEB-2024	BG
Mercury	21-FEB-2024	21-FEB-2024	SE
Electrical Conductivity (2:1)	21-FEB-2024	21-FEB-2024	SR
Sodium Adsorption Ratio (2:1) (Calc.)	21-FEB-2024	21-FEB-2024	XH
pH, 2:1 CaCl2 Extraction	21-FEB-2024	21-FEB-2024	SR

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-FEB-2024	21-FEB-2024	CA
Acenaphthylene	21-FEB-2024	21-FEB-2024	CA
Acenaphthene	21-FEB-2024	21-FEB-2024	CA
Fluorene	21-FEB-2024	21-FEB-2024	CA
Phenanthrene	21-FEB-2024	21-FEB-2024	CA
Anthracene	21-FEB-2024	21-FEB-2024	CA
Fluoranthene	21-FEB-2024	21-FEB-2024	CA
Pyrene	21-FEB-2024	21-FEB-2024	CA
Benz(a)anthracene	21-FEB-2024	21-FEB-2024	CA
Chrysene	21-FEB-2024	21-FEB-2024	CA
Benzo(b)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(k)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(a)pyrene	21-FEB-2024	21-FEB-2024	CA
Indeno(1,2,3-cd)pyrene	21-FEB-2024	21-FEB-2024	CA
Dibenz(a,h)anthracene	21-FEB-2024	21-FEB-2024	CA
Benzo(g,h,i)perylene	21-FEB-2024	21-FEB-2024	CA
2-and 1-methyl Naphthalene	21-FEB-2024	21-FEB-2024	SYS
Naphthalene-d8	21-FEB-2024	21-FEB-2024	CA
Acridine-d9	21-FEB-2024	21-FEB-2024	CA
Terphenyl-d14	21-FEB-2024	21-FEB-2024	CA



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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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FAX (905)712-5122
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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645727	MW105-1	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Moisture Content	20-FEB-2024	20-FEB-2024	AK

5645737	MW106-3	Soil	09-FEB-2024	13-FEB-2024
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O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-FEB-2024	21-FEB-2024	SE
Arsenic	21-FEB-2024	21-FEB-2024	SE
Barium	21-FEB-2024	21-FEB-2024	SE
Beryllium	21-FEB-2024	21-FEB-2024	SE
Boron	21-FEB-2024	21-FEB-2024	SE
Boron (Hot Water Soluble)	21-FEB-2024	21-FEB-2024	ZK
Cadmium	21-FEB-2024	21-FEB-2024	SE
Chromium	21-FEB-2024	21-FEB-2024	SE
Cobalt	21-FEB-2024	21-FEB-2024	SE
Copper	21-FEB-2024	21-FEB-2024	SE
Lead	21-FEB-2024	21-FEB-2024	SE
Molybdenum	21-FEB-2024	21-FEB-2024	SE
Nickel	21-FEB-2024	21-FEB-2024	SE
Selenium	21-FEB-2024	21-FEB-2024	SE
Silver	21-FEB-2024	21-FEB-2024	SE
Thallium	21-FEB-2024	21-FEB-2024	SE
Uranium	21-FEB-2024	21-FEB-2024	SE
Vanadium	21-FEB-2024	21-FEB-2024	SE
Zinc	21-FEB-2024	21-FEB-2024	SE
Chromium, Hexavalent	21-FEB-2024	21-FEB-2024	RC
Cyanide, WAD	21-FEB-2024	21-FEB-2024	BG
Mercury	21-FEB-2024	21-FEB-2024	SE
Electrical Conductivity (2:1)	21-FEB-2024	21-FEB-2024	SR
Sodium Adsorption Ratio (2:1) (Calc.)	21-FEB-2024	21-FEB-2024	XH
pH, 2:1 CaCl2 Extraction	21-FEB-2024	21-FEB-2024	SR

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-FEB-2024	21-FEB-2024	CA
Acenaphthylene	21-FEB-2024	21-FEB-2024	CA
Acenaphthene	21-FEB-2024	21-FEB-2024	CA
Fluorene	21-FEB-2024	21-FEB-2024	CA
Phenanthrene	21-FEB-2024	21-FEB-2024	CA



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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645737	MW106-3	Soil	09-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Anthracene	21-FEB-2024	21-FEB-2024	CA
Fluoranthene	21-FEB-2024	21-FEB-2024	CA
Pyrene	21-FEB-2024	21-FEB-2024	CA
Benz(a)anthracene	21-FEB-2024	21-FEB-2024	CA
Chrysene	21-FEB-2024	21-FEB-2024	CA
Benzo(b)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(k)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(a)pyrene	21-FEB-2024	21-FEB-2024	CA
Indeno(1,2,3-cd)pyrene	21-FEB-2024	21-FEB-2024	CA
Dibenz(a,h)anthracene	21-FEB-2024	21-FEB-2024	CA
Benzo(g,h,i)perylene	21-FEB-2024	21-FEB-2024	CA
2-and 1-methyl Naphthalene	21-FEB-2024	21-FEB-2024	SYS
Naphthalene-d8	21-FEB-2024	21-FEB-2024	CA
Acridine-d9	21-FEB-2024	21-FEB-2024	CA
Terphenyl-d14	21-FEB-2024	21-FEB-2024	CA
Moisture Content	20-FEB-2024	20-FEB-2024	AK

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	15-FEB-2024	15-FEB-2024	CK
F1 (C6 to C10) minus BTEX	15-FEB-2024	15-FEB-2024	SYS
Toluene-d8	15-FEB-2024	15-FEB-2024	CK
F2 (C10 to C16)	20-FEB-2024	20-FEB-2024	CBB
F2 (C10 to C16) minus Naphthalene	21-FEB-2024	21-FEB-2024	SYS
F3 (C16 to C34)	20-FEB-2024	20-FEB-2024	CBB
F3 (C16 to C34) minus PAHs	21-FEB-2024	21-FEB-2024	SYS
F4 (C34 to C50)	20-FEB-2024	20-FEB-2024	CBB
Gravimetric Heavy Hydrocarbons	20-FEB-2024	20-FEB-2024	CBB
Moisture Content	20-FEB-2024	20-FEB-2024	AK
Terphenyl	20-FEB-2024	20-FEB-2024	CBB

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	15-FEB-2024	15-FEB-2024	CK
Vinyl Chloride	15-FEB-2024	15-FEB-2024	CK
Bromomethane	15-FEB-2024	15-FEB-2024	CK
Trichlorofluoromethane	15-FEB-2024	15-FEB-2024	CK
Acetone	15-FEB-2024	15-FEB-2024	CK
1,1-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK



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AGAT WORK ORDER: 24Z120314

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645737	MW106-3	Soil	09-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	15-FEB-2024	15-FEB-2024	CK
Trans- 1,2-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Methyl tert-butyl Ether	15-FEB-2024	15-FEB-2024	CK
1,1-Dichloroethane	15-FEB-2024	15-FEB-2024	CK
Methyl Ethyl Ketone	15-FEB-2024	15-FEB-2024	CK
Cis- 1,2-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Chloroform	15-FEB-2024	15-FEB-2024	CK
1,2-Dichloroethane	15-FEB-2024	15-FEB-2024	CK
1,1,1-Trichloroethane	15-FEB-2024	15-FEB-2024	CK
Carbon Tetrachloride	15-FEB-2024	15-FEB-2024	CK
Benzene	15-FEB-2024	15-FEB-2024	CK
1,2-Dichloropropane	15-FEB-2024	15-FEB-2024	CK
Trichloroethylene	15-FEB-2024	15-FEB-2024	CK
Bromodichloromethane	15-FEB-2024	15-FEB-2024	CK
Methyl Isobutyl Ketone	15-FEB-2024	15-FEB-2024	CK
1,1,2-Trichloroethane	15-FEB-2024	15-FEB-2024	CK
Toluene	15-FEB-2024	15-FEB-2024	CK
Dibromochloromethane	15-FEB-2024	15-FEB-2024	CK
Ethylene Dibromide	15-FEB-2024	15-FEB-2024	CK
Tetrachloroethylene	16-FEB-2024	16-FEB-2024	CK
1,1,1,2-Tetrachloroethane	15-FEB-2024	15-FEB-2024	CK
Chlorobenzene	15-FEB-2024	15-FEB-2024	CK
Ethylbenzene	15-FEB-2024	15-FEB-2024	CK
m & p-Xylene	15-FEB-2024	15-FEB-2024	CK
Bromoform	15-FEB-2024	15-FEB-2024	CK
Styrene	15-FEB-2024	15-FEB-2024	CK
1,1,2,2-Tetrachloroethane	15-FEB-2024	15-FEB-2024	CK
o-Xylene	15-FEB-2024	15-FEB-2024	CK
1,3-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
1,4-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
1,2-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
Xylenes (Total)	15-FEB-2024	15-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	15-FEB-2024	15-FEB-2024	SYS
n-Hexane	15-FEB-2024	15-FEB-2024	CK
Toluene-d8	16-FEB-2024	16-FEB-2024	CK
4-Bromofluorobenzene	16-FEB-2024	16-FEB-2024	CK
Moisture Content	20-FEB-2024	20-FEB-2024	AK

5645738	MW106-13	Soil	09-FEB-2024	13-FEB-2024
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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645738	MW106-13	Soil	09-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	21-FEB-2024	21-FEB-2024	SE
Arsenic	21-FEB-2024	21-FEB-2024	SE
Barium	21-FEB-2024	21-FEB-2024	SE
Beryllium	21-FEB-2024	21-FEB-2024	SE
Boron	21-FEB-2024	21-FEB-2024	SE
Boron (Hot Water Soluble)	21-FEB-2024	21-FEB-2024	ZK
Cadmium	21-FEB-2024	21-FEB-2024	SE
Chromium	21-FEB-2024	21-FEB-2024	SE
Cobalt	21-FEB-2024	21-FEB-2024	SE
Copper	21-FEB-2024	21-FEB-2024	SE
Lead	21-FEB-2024	21-FEB-2024	SE
Molybdenum	21-FEB-2024	21-FEB-2024	SE
Nickel	21-FEB-2024	21-FEB-2024	SE
Selenium	21-FEB-2024	21-FEB-2024	SE
Silver	21-FEB-2024	21-FEB-2024	SE
Thallium	21-FEB-2024	21-FEB-2024	SE
Uranium	21-FEB-2024	21-FEB-2024	SE
Vanadium	21-FEB-2024	21-FEB-2024	SE
Zinc	21-FEB-2024	21-FEB-2024	SE
Chromium, Hexavalent	21-FEB-2024	21-FEB-2024	RC
Cyanide, WAD	21-FEB-2024	21-FEB-2024	BG
Mercury	21-FEB-2024	21-FEB-2024	SE
Electrical Conductivity (2:1)	21-FEB-2024	21-FEB-2024	SR
Sodium Adsorption Ratio (2:1) (Calc.)	21-FEB-2024	21-FEB-2024	XH
pH, 2:1 CaCl2 Extraction	21-FEB-2024	21-FEB-2024	SR

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-FEB-2024	21-FEB-2024	CA
Acenaphthylene	21-FEB-2024	21-FEB-2024	CA
Acenaphthene	21-FEB-2024	21-FEB-2024	CA
Fluorene	21-FEB-2024	21-FEB-2024	CA
Phenanthrene	21-FEB-2024	21-FEB-2024	CA
Anthracene	21-FEB-2024	21-FEB-2024	CA
Fluoranthene	21-FEB-2024	21-FEB-2024	CA
Pyrene	21-FEB-2024	21-FEB-2024	CA
Benz(a)anthracene	21-FEB-2024	21-FEB-2024	CA
Chrysene	21-FEB-2024	21-FEB-2024	CA
Benzo(b)fluoranthene	21-FEB-2024	21-FEB-2024	CA



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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645738	MW106-13	Soil	09-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(k)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(a)pyrene	21-FEB-2024	21-FEB-2024	CA
Indeno(1,2,3-cd)pyrene	21-FEB-2024	21-FEB-2024	CA
Dibenz(a,h)anthracene	21-FEB-2024	21-FEB-2024	CA
Benzo(g,h,i)perylene	21-FEB-2024	21-FEB-2024	CA
2-and 1-methyl Naphthalene	21-FEB-2024	21-FEB-2024	SYS
Naphthalene-d8	21-FEB-2024	21-FEB-2024	CA
Acridine-d9	21-FEB-2024	21-FEB-2024	CA
Terphenyl-d14	21-FEB-2024	21-FEB-2024	CA
Moisture Content	20-FEB-2024	20-FEB-2024	AK

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)			
F1 (C6 to C10) minus BTEX	15-FEB-2024	15-FEB-2024	SYS
Toluene-d8	15-FEB-2024	15-FEB-2024	CK
F2 (C10 to C16)	20-FEB-2024	20-FEB-2024	CBB
F2 (C10 to C16) minus Naphthalene	21-FEB-2024	21-FEB-2024	SYS
F3 (C16 to C34)	20-FEB-2024	20-FEB-2024	CBB
F3 (C16 to C34) minus PAHs	21-FEB-2024	21-FEB-2024	SYS
F4 (C34 to C50)	20-FEB-2024	20-FEB-2024	CBB
Gravimetric Heavy Hydrocarbons	20-FEB-2024	20-FEB-2024	CBB
Moisture Content	20-FEB-2024	20-FEB-2024	AK
Terphenyl	20-FEB-2024	20-FEB-2024	CBB

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	15-FEB-2024	15-FEB-2024	CK
Vinyl Chloride	15-FEB-2024	15-FEB-2024	CK
Bromomethane	15-FEB-2024	15-FEB-2024	CK
Trichlorofluoromethane	15-FEB-2024	15-FEB-2024	CK
Acetone	15-FEB-2024	15-FEB-2024	CK
1,1-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Methylene Chloride	15-FEB-2024	15-FEB-2024	CK
Trans- 1,2-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK
Methyl tert-butyl Ether	15-FEB-2024	15-FEB-2024	CK
1,1-Dichloroethane	15-FEB-2024	15-FEB-2024	CK
Methyl Ethyl Ketone	15-FEB-2024	15-FEB-2024	CK
Cis- 1,2-Dichloroethylene	15-FEB-2024	15-FEB-2024	CK



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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645738	MW106-13	Soil	09-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chloroform	15-FEB-2024	15-FEB-2024	CK
1,2-Dichloroethane	15-FEB-2024	15-FEB-2024	CK
1,1,1-Trichloroethane	15-FEB-2024	15-FEB-2024	CK
Carbon Tetrachloride	15-FEB-2024	15-FEB-2024	CK
Benzene	15-FEB-2024	15-FEB-2024	CK
1,2-Dichloropropane	15-FEB-2024	15-FEB-2024	CK
Trichloroethylene	15-FEB-2024	15-FEB-2024	CK
Bromodichloromethane	15-FEB-2024	15-FEB-2024	CK
Methyl Isobutyl Ketone	15-FEB-2024	15-FEB-2024	CK
1,1,2-Trichloroethane	15-FEB-2024	15-FEB-2024	CK
Toluene	15-FEB-2024	15-FEB-2024	CK
Dibromochloromethane	15-FEB-2024	15-FEB-2024	CK
Ethylene Dibromide	15-FEB-2024	15-FEB-2024	CK
Tetrachloroethylene	16-FEB-2024	16-FEB-2024	CK
1,1,1,2-Tetrachloroethane	15-FEB-2024	15-FEB-2024	CK
Chlorobenzene	15-FEB-2024	15-FEB-2024	CK
Ethylbenzene	15-FEB-2024	15-FEB-2024	CK
m & p-Xylene	15-FEB-2024	15-FEB-2024	CK
Bromoform	15-FEB-2024	15-FEB-2024	CK
Styrene	15-FEB-2024	15-FEB-2024	CK
1,1,2,2-Tetrachloroethane	15-FEB-2024	15-FEB-2024	CK
o-Xylene	15-FEB-2024	15-FEB-2024	CK
1,3-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
1,4-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
1,2-Dichlorobenzene	15-FEB-2024	15-FEB-2024	CK
Xylenes (Total)	15-FEB-2024	15-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	15-FEB-2024	15-FEB-2024	SYS
n-Hexane	15-FEB-2024	15-FEB-2024	CK
Toluene-d8	16-FEB-2024	16-FEB-2024	CK
4-Bromofluorobenzene	16-FEB-2024	16-FEB-2024	CK
Moisture Content	20-FEB-2024	20-FEB-2024	AK

5645740	MW107-4	Soil	09-FEB-2024	13-FEB-2024
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O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-FEB-2024	21-FEB-2024	CA
Acenaphthylene	21-FEB-2024	21-FEB-2024	CA
Acenaphthene	21-FEB-2024	21-FEB-2024	CA



Time Markers

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645740	MW107-4	Soil	09-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Fluorene	21-FEB-2024	21-FEB-2024	CA
Phenanthrene	21-FEB-2024	21-FEB-2024	CA
Anthracene	21-FEB-2024	21-FEB-2024	CA
Fluoranthene	21-FEB-2024	21-FEB-2024	CA
Pyrene	21-FEB-2024	21-FEB-2024	CA
Benz(a)anthracene	21-FEB-2024	21-FEB-2024	CA
Chrysene	21-FEB-2024	21-FEB-2024	CA
Benzo(b)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(k)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(a)pyrene	21-FEB-2024	21-FEB-2024	CA
Indeno(1,2,3-cd)pyrene	21-FEB-2024	21-FEB-2024	CA
Dibenz(a,h)anthracene	21-FEB-2024	21-FEB-2024	CA
Benzo(g,h,i)perylene	21-FEB-2024	21-FEB-2024	CA
2-and 1-methyl Naphthalene	21-FEB-2024	21-FEB-2024	SYS
Naphthalene-d8	21-FEB-2024	21-FEB-2024	CA
Acridine-d9	21-FEB-2024	21-FEB-2024	CA
Terphenyl-d14	21-FEB-2024	21-FEB-2024	CA
Moisture Content	20-FEB-2024	20-FEB-2024	AK

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	16-FEB-2024	16-FEB-2024	CK
F1 (C6 to C10) minus BTEX	16-FEB-2024	16-FEB-2024	SYS
Toluene-d8	16-FEB-2024	16-FEB-2024	CK
F2 (C10 to C16)	20-FEB-2024	20-FEB-2024	CBB
F2 (C10 to C16) minus Naphthalene	21-FEB-2024	21-FEB-2024	SYS
F3 (C16 to C34)	20-FEB-2024	20-FEB-2024	CBB
F3 (C16 to C34) minus PAHs	21-FEB-2024	21-FEB-2024	SYS
F4 (C34 to C50)	20-FEB-2024	20-FEB-2024	CBB
Gravimetric Heavy Hydrocarbons	20-FEB-2024	20-FEB-2024	CBB
Moisture Content	20-FEB-2024	20-FEB-2024	AK
Terphenyl	20-FEB-2024	20-FEB-2024	CBB

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	16-FEB-2024	16-FEB-2024	CK
Vinyl Chloride	16-FEB-2024	16-FEB-2024	CK
Bromomethane	16-FEB-2024	16-FEB-2024	CK
Trichlorofluoromethane	16-FEB-2024	16-FEB-2024	CK



Time Markers

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
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FAX (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5645740	MW107-4	Soil	09-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Acetone	16-FEB-2024	16-FEB-2024	CK
1,1-Dichloroethylene	16-FEB-2024	16-FEB-2024	CK
Methylene Chloride	16-FEB-2024	16-FEB-2024	CK
Trans- 1,2-Dichloroethylene	16-FEB-2024	16-FEB-2024	CK
Methyl tert-butyl Ether	16-FEB-2024	16-FEB-2024	CK
1,1-Dichloroethane	16-FEB-2024	16-FEB-2024	CK
Methyl Ethyl Ketone	16-FEB-2024	16-FEB-2024	CK
Cis- 1,2-Dichloroethylene	16-FEB-2024	16-FEB-2024	CK
Chloroform	16-FEB-2024	16-FEB-2024	CK
1,2-Dichloroethane	16-FEB-2024	16-FEB-2024	CK
1,1,1-Trichloroethane	16-FEB-2024	16-FEB-2024	CK
Carbon Tetrachloride	16-FEB-2024	16-FEB-2024	CK
Benzene	16-FEB-2024	16-FEB-2024	CK
1,2-Dichloropropane	16-FEB-2024	16-FEB-2024	CK
Trichloroethylene	16-FEB-2024	16-FEB-2024	CK
Bromodichloromethane	16-FEB-2024	16-FEB-2024	CK
Methyl Isobutyl Ketone	16-FEB-2024	16-FEB-2024	CK
1,1,2-Trichloroethane	16-FEB-2024	16-FEB-2024	CK
Toluene	16-FEB-2024	16-FEB-2024	CK
Dibromochloromethane	16-FEB-2024	16-FEB-2024	CK
Ethylene Dibromide	16-FEB-2024	16-FEB-2024	CK
Tetrachloroethylene	16-FEB-2024	16-FEB-2024	CK
1,1,1,2-Tetrachloroethane	16-FEB-2024	16-FEB-2024	CK
Chlorobenzene	16-FEB-2024	16-FEB-2024	CK
Ethylbenzene	16-FEB-2024	16-FEB-2024	CK
m & p-Xylene	16-FEB-2024	16-FEB-2024	CK
Bromoform	16-FEB-2024	16-FEB-2024	CK
Styrene	16-FEB-2024	16-FEB-2024	CK
1,1,2,2-Tetrachloroethane	16-FEB-2024	16-FEB-2024	CK
o-Xylene	16-FEB-2024	16-FEB-2024	CK
1,3-Dichlorobenzene	16-FEB-2024	16-FEB-2024	CK
1,4-Dichlorobenzene	16-FEB-2024	16-FEB-2024	CK
1,2-Dichlorobenzene	16-FEB-2024	16-FEB-2024	CK
Xylenes (Total)	16-FEB-2024	16-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	16-FEB-2024	16-FEB-2024	SYS
n-Hexane	16-FEB-2024	16-FEB-2024	CK
Toluene-d8	16-FEB-2024	16-FEB-2024	CK
4-Bromofluorobenzene	16-FEB-2024	16-FEB-2024	CK
Moisture Content	20-FEB-2024	20-FEB-2024	AK



Time Markers

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5647137	Methanol Blank	MeOH	09-FEB-2024	13-FEB-2024

O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	16-FEB-2024	16-FEB-2024	CK
Toluene	16-FEB-2024	16-FEB-2024	CK
Ethylbenzene	16-FEB-2024	16-FEB-2024	CK
m & p-Xylene	16-FEB-2024	16-FEB-2024	CK
o-Xylene	16-FEB-2024	16-FEB-2024	CK
Xylenes (Total)	16-FEB-2024	16-FEB-2024	SYS
F1 (C6 to C10)	16-FEB-2024	16-FEB-2024	CK
F1 (C6 to C10) minus BTEX	16-FEB-2024	16-FEB-2024	SYS
Toluene-d8	16-FEB-2024	16-FEB-2024	CK

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	16-FEB-2024	16-FEB-2024	CK
Vinyl Chloride	16-FEB-2024	16-FEB-2024	CK
Bromomethane	16-FEB-2024	16-FEB-2024	CK
Trichlorofluoromethane	16-FEB-2024	16-FEB-2024	CK
Acetone	16-FEB-2024	16-FEB-2024	CK
1,1-Dichloroethylene	16-FEB-2024	16-FEB-2024	CK
Methylene Chloride	16-FEB-2024	16-FEB-2024	CK
Trans- 1,2-Dichloroethylene	16-FEB-2024	16-FEB-2024	CK
Methyl tert-butyl Ether	16-FEB-2024	16-FEB-2024	CK
1,1-Dichloroethane	16-FEB-2024	16-FEB-2024	CK
Methyl Ethyl Ketone	16-FEB-2024	16-FEB-2024	CK
Cis- 1,2-Dichloroethylene	16-FEB-2024	16-FEB-2024	CK
Chloroform	16-FEB-2024	16-FEB-2024	CK
1,2-Dichloroethane	16-FEB-2024	16-FEB-2024	CK
1,1,1-Trichloroethane	16-FEB-2024	16-FEB-2024	CK
Carbon Tetrachloride	16-FEB-2024	16-FEB-2024	CK
Benzene	16-FEB-2024	16-FEB-2024	CK
1,2-Dichloropropane	16-FEB-2024	16-FEB-2024	CK
Trichloroethylene	16-FEB-2024	16-FEB-2024	CK
Bromodichloromethane	16-FEB-2024	16-FEB-2024	CK
Methyl Isobutyl Ketone	16-FEB-2024	16-FEB-2024	CK
1,1,2-Trichloroethane	16-FEB-2024	16-FEB-2024	CK
Toluene	16-FEB-2024	16-FEB-2024	CK
Dibromochloromethane	16-FEB-2024	16-FEB-2024	CK
Ethylene Dibromide	16-FEB-2024	16-FEB-2024	CK
Tetrachloroethylene	16-FEB-2024	16-FEB-2024	CK



Time Markers

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5647137	Methanol Blank	MeOH	09-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
1,1,1,2-Tetrachloroethane	16-FEB-2024	16-FEB-2024	CK
Chlorobenzene	16-FEB-2024	16-FEB-2024	CK
Ethylbenzene	16-FEB-2024	16-FEB-2024	CK
m & p-Xylene	16-FEB-2024	16-FEB-2024	CK
Bromoform	16-FEB-2024	16-FEB-2024	CK
Styrene	16-FEB-2024	16-FEB-2024	CK
1,1,2,2-Tetrachloroethane	16-FEB-2024	16-FEB-2024	CK
o-Xylene	16-FEB-2024	16-FEB-2024	CK
1,3-Dichlorobenzene	16-FEB-2024	16-FEB-2024	CK
1,4-Dichlorobenzene	16-FEB-2024	16-FEB-2024	CK
1,2-Dichlorobenzene	16-FEB-2024	16-FEB-2024	CK
Xylenes (Total)	16-FEB-2024	16-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	16-FEB-2024	16-FEB-2024	SYS
n-Hexane	16-FEB-2024	16-FEB-2024	CK
Toluene-d8	16-FEB-2024	16-FEB-2024	CK
4-Bromofluorobenzene	16-FEB-2024	16-FEB-2024	CK

5647140	MW105-3	Soil	08-FEB-2024	13-FEB-2024
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O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	21-FEB-2024	21-FEB-2024	CA
Acenaphthylene	21-FEB-2024	21-FEB-2024	CA
Acenaphthene	21-FEB-2024	21-FEB-2024	CA
Fluorene	21-FEB-2024	21-FEB-2024	CA
Phenanthrene	21-FEB-2024	21-FEB-2024	CA
Anthracene	21-FEB-2024	21-FEB-2024	CA
Fluoranthene	21-FEB-2024	21-FEB-2024	CA
Pyrene	21-FEB-2024	21-FEB-2024	CA
Benz(a)anthracene	21-FEB-2024	21-FEB-2024	CA
Chrysene	21-FEB-2024	21-FEB-2024	CA
Benzo(b)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(k)fluoranthene	21-FEB-2024	21-FEB-2024	CA
Benzo(a)pyrene	21-FEB-2024	21-FEB-2024	CA
Indeno(1,2,3-cd)pyrene	21-FEB-2024	21-FEB-2024	CA
Dibenz(a,h)anthracene	21-FEB-2024	21-FEB-2024	CA
Benzo(g,h,i)perylene	21-FEB-2024	21-FEB-2024	CA
2-and 1-methyl Naphthalene	21-FEB-2024	21-FEB-2024	SYS
Naphthalene-d8	21-FEB-2024	21-FEB-2024	CA



Time Markers

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5647140	MW105-3	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Acridine-d9	21-FEB-2024	21-FEB-2024	CA
Terphenyl-d14	21-FEB-2024	21-FEB-2024	CA
Moisture Content	20-FEB-2024	20-FEB-2024	AK

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	16-FEB-2024	16-FEB-2024	CK
F1 (C6 to C10) minus BTEX	16-FEB-2024	16-FEB-2024	SYS
Toluene-d8	16-FEB-2024	16-FEB-2024	CK
F2 (C10 to C16)	20-FEB-2024	20-FEB-2024	CBB
F2 (C10 to C16) minus Naphthalene	21-FEB-2024	21-FEB-2024	SYS
F3 (C16 to C34)	20-FEB-2024	20-FEB-2024	CBB
F3 (C16 to C34) minus PAHs	21-FEB-2024	21-FEB-2024	SYS
F4 (C34 to C50)	20-FEB-2024	20-FEB-2024	CBB
Gravimetric Heavy Hydrocarbons	20-FEB-2024	20-FEB-2024	CBB
Moisture Content	20-FEB-2024	20-FEB-2024	AK
Terphenyl	20-FEB-2024	20-FEB-2024	CBB

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	16-FEB-2024	16-FEB-2024	CK
Vinyl Chloride	16-FEB-2024	16-FEB-2024	CK
Bromomethane	16-FEB-2024	16-FEB-2024	CK
Trichlorofluoromethane	16-FEB-2024	16-FEB-2024	CK
Acetone	16-FEB-2024	16-FEB-2024	CK
1,1-Dichloroethylene	16-FEB-2024	16-FEB-2024	CK
Methylene Chloride	16-FEB-2024	16-FEB-2024	CK
Trans- 1,2-Dichloroethylene	16-FEB-2024	16-FEB-2024	CK
Methyl tert-butyl Ether	16-FEB-2024	16-FEB-2024	CK
1,1-Dichloroethane	16-FEB-2024	16-FEB-2024	CK
Methyl Ethyl Ketone	16-FEB-2024	16-FEB-2024	CK
Cis- 1,2-Dichloroethylene	16-FEB-2024	16-FEB-2024	CK
Chloroform	16-FEB-2024	16-FEB-2024	CK
1,2-Dichloroethane	16-FEB-2024	16-FEB-2024	CK
1,1,1-Trichloroethane	16-FEB-2024	16-FEB-2024	CK
Carbon Tetrachloride	16-FEB-2024	16-FEB-2024	CK
Benzene	16-FEB-2024	16-FEB-2024	CK
1,2-Dichloropropane	16-FEB-2024	16-FEB-2024	CK
Trichloroethylene	16-FEB-2024	16-FEB-2024	CK



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PROJECT: CO952.01

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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5647140	MW105-3	Soil	08-FEB-2024	13-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Bromodichloromethane	16-FEB-2024	16-FEB-2024	CK
Methyl Isobutyl Ketone	16-FEB-2024	16-FEB-2024	CK
1,1,2-Trichloroethane	16-FEB-2024	16-FEB-2024	CK
Toluene	16-FEB-2024	16-FEB-2024	CK
Dibromochloromethane	16-FEB-2024	16-FEB-2024	CK
Ethylene Dibromide	16-FEB-2024	16-FEB-2024	CK
Tetrachloroethylene	16-FEB-2024	16-FEB-2024	CK
1,1,1,2-Tetrachloroethane	16-FEB-2024	16-FEB-2024	CK
Chlorobenzene	16-FEB-2024	16-FEB-2024	CK
Ethylbenzene	16-FEB-2024	16-FEB-2024	CK
m & p-Xylene	16-FEB-2024	16-FEB-2024	CK
Bromoform	16-FEB-2024	16-FEB-2024	CK
Styrene	16-FEB-2024	16-FEB-2024	CK
1,1,2,2-Tetrachloroethane	16-FEB-2024	16-FEB-2024	CK
o-Xylene	16-FEB-2024	16-FEB-2024	CK
1,3-Dichlorobenzene	16-FEB-2024	16-FEB-2024	CK
1,4-Dichlorobenzene	16-FEB-2024	16-FEB-2024	CK
1,2-Dichlorobenzene	16-FEB-2024	16-FEB-2024	CK
Xylenes (Total)	16-FEB-2024	16-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	16-FEB-2024	16-FEB-2024	SYS
n-Hexane	16-FEB-2024	16-FEB-2024	CK
Toluene-d8	16-FEB-2024	16-FEB-2024	CK
4-Bromofluorobenzene	16-FEB-2024	16-FEB-2024	CK
Moisture Content	20-FEB-2024	20-FEB-2024	AK

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

PROJECT: CO952.01

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

AGAT WORK ORDER: 24Z120314

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl ₂ Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

PROJECT: CO952.01

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

AGAT WORK ORDER: 24Z120314

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
Dichlorodifluoromethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

PROJECT: CO952.01

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

AGAT WORK ORDER: 24Z120314

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

PROJECT: CO952.01

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

AGAT WORK ORDER: 24Z120314

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z120314

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS



Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water intended for human consumption)

Report Information:

Company: Terrapex Environmental Ltd.
Contact: Craig Beaton
Address: 1-20 Gurdwara Road
Ottawa, ON K2E 8B3
Phone: 613-745-6471 Fax: 613-745-0796
Reports to be sent to: C.Beaton@terrapex.com
1. Email: edd@terrapex.com
2. Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04 ☐ No Regulatory Requirement
☐ Sewer Use ☐ Regulation 558
☐ Sanitary ☐ CCME
☐ Storm ☐ Prov. Water Quality Objectives (PWQO)
☐ Other
Soil Texture (Check One) ☐ Coarse ☐ Fine
Region: ☐ Indicate One

Is this submission for a Record of Site Condition?

☐ Yes ☒ No

Report Guideline on Certificate of Analysis

☒ Yes ☐ No

Activity

Assessment (circle one)
☐ A1 ☐ A2 ☒ AR ☐ AV

Remediation (circle one)
☐ RE ☐ RX ☐ RI ☐ RA

Contaminant Management (circle one)
☐ M ☐ MW ☐ MV

Laboratory Use Only

Work Order #: 242120314

Cooler Quantity: one - 100B ice

Arrival Temperatures: 5.3 | 5.4 | 5.5

CT 3.6 | 3.5 | 2.1

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: Loss TCE

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ 1 Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
*TAT is exclusive of weekends and statutory holidays

Project Information:

Project: CO952.01
Site Location: 2180 Montreal Road, Ottawa, ON
Outlet #: 65004
Sampled By: EB
AGAT Quote #: SUNCOR Downstream PO:
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact:
Address:
Email:

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y/N	Field Filtered - Metals, Hg, CMI	Metals and Inorganics	0. Reg 153	Nutrients	Volatiles	PHCs F1 - F4	ABNS	PAHs	PCBs	Organochlorine Pesticides	TCLP	Sewer Use	Potentially Hazardous or High Concentration (Y/N)
MW101-1	Feb 7/24	13:00	2	S	M&T, FI-F4/VOCS, PAHs	2		☒	☐ All Metals ☐ 153 Metals (excl. Hydrides)	☐ TP ☐ NH ₄ ☐ TKN	☒ VOC ☒ BTEX ☐ THM			☒					
MW101-4	Feb 7/24	13:20	3	S		2		☒	☐ Hydride Metals ☐ 153 Metals (incl. Hydrides)	☐ NO ₃ ☐ NO ₂ ☐ NO ₂ -NO ₃									
MW102-1	Feb 8/24	9:30	2	S		2		☒	ORPs: ☐ B-HWS ☐ Cl ☐ CN										
MW102-3	Feb 8/24	9:41	3	S		2		☒	☐ C ⁴⁺ ☐ EC ☐ FOC ☐ Hg										
MW103-3	Feb 8/24	12:25	3	S		2		☒	☐ pH ☐ SAR										
MW104-1	Feb 8/24	13:50	2	S		2		☒	Full Metals Scan										
MW104-3	Feb 8/24	14:05	3	S		2		☒	Regulation/Custom Metals										
MW105-1	Feb 8/24	13:00	2	S		2		☒											
MW106-3	Feb 9/24	8:40	3	S		2		☒											
MW106-13	Feb 9/24	8:40	3	S		2		☒											
MW107-4	Feb 9/24	14:10	2	S		2		☒											

Samples Relinquished By (Print Name and Sign): Craig Beaton	Date: 14-11 Feb 03/24	Time: 15h30	Samples Received By (Print Name and Sign): C. Beaton	Date: 02/13/24	Time: 14h15	# jars used and not returned:
Samples Relinquished By (Print Name and Sign): C. Beaton	Date: 02/13/24	Time: 15h30	Samples Received By (Print Name and Sign): Name S	Date: 14/24	Time: 10h30	Page 1 of 2
Samples Relinquished By (Print Name and Sign):	Date:	Time:	Samples Received By (Print Name and Sign):	Date:	Time:	N°:

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED
20 GURDWARA ROAD, UNIT 1
OTTAWA, ON K2E 8B3
613 745 6471

ATTENTION TO: Craig Beaton

PROJECT: CO952.01

AGAT WORK ORDER: 24Z124184

SOIL ANALYSIS REVIEWED BY: Amanjot Bhela, Lab Operation Manager

TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer

DATE REPORTED: Mar 01, 2024

PAGES (INCLUDING COVER): 31

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



Certificate of Analysis

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-26

DATE REPORTED: 2024-03-01

SAMPLE DESCRIPTION:				MW110-1	MW111-1	MW112-1
SAMPLE TYPE:				Soil	Soil	Soil
DATE SAMPLED:				2024-02-16 08:45	2024-02-16 11:20	2024-02-16 12:50
Parameter	Unit	G / S	RDL	5681059	5681096	5681098
Antimony	µg/g	50	0.8	<0.8	<0.8	<0.8
Arsenic	µg/g	18	1	2	1	<1
Barium	µg/g	670	2.0	101	90.1	71.8
Beryllium	µg/g	10	0.5	<0.5	<0.5	<0.5
Boron	µg/g	120	5	<5	<5	<5
Boron (Hot Water Soluble)	µg/g	2	0.10	0.11	<0.10	<0.10
Cadmium	µg/g	1.9	0.5	<0.5	<0.5	<0.5
Chromium	µg/g	160	5	37	35	17
Cobalt	µg/g	100	0.8	10.2	9.0	5.0
Copper	µg/g	300	1.0	19.0	16.5	10.5
Lead	µg/g	120	1	21	5	4
Molybdenum	µg/g	40	0.5	0.8	0.9	1.1
Nickel	µg/g	340	1	19	18	8
Selenium	µg/g	5.5	0.8	<0.8	<0.8	<0.8
Silver	µg/g	50	0.5	<0.5	<0.5	<0.5
Thallium	µg/g	3.3	0.5	<0.5	<0.5	<0.5
Uranium	µg/g	33	0.50	0.58	0.60	<0.50
Vanadium	µg/g	86	2.0	35.3	31.5	16.6
Zinc	µg/g	340	5	109	39	15
Chromium, Hexavalent	µg/g	10	0.2	<0.2	<0.2	<0.2
Cyanide, WAD	µg/g	0.051	0.040	<0.040	<0.040	<0.040
Mercury	µg/g	20	0.10	<0.10	<0.10	<0.10
Electrical Conductivity (2:1)	mS/cm	1.4	0.005	0.392	0.537	0.395
Sodium Adsorption Ratio (2:1) (Calc.)	N/A	12	N/A	3.21	4.29	3.83
pH, 2:1 CaCl2 Extraction	pH Units	5.0-9.0	NA	6.78	6.94	6.92

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-26

DATE REPORTED: 2024-03-01

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5681059-5681098 EC was determined on the DI water extract obtained from the 2:1 leaching procedure (2 parts DI water:1 part soil). pH was determined on the 0.01M CaCl₂ extract prepared at 2:1 ratio. SAR is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
CANADA L4Z 1Y2
TEL (905)712-5100
FAX (905)712-5122
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CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-26

DATE REPORTED: 2024-03-01

SAMPLE DESCRIPTION:				MW110-4	MW111-4	MW112-4
SAMPLE TYPE:				Soil	Soil	Soil
DATE SAMPLED:				2024-02-16 09:00	2024-02-16 11:30	2024-02-16 13:00
Parameter	Unit	G / S	RDL	5681049	5681097	5681101
Naphthalene	µg/g	28	0.05	<0.05	<0.05	<0.05
Acenaphthylene	µg/g	0.17	0.05	<0.05	<0.05	<0.05
Acenaphthene	µg/g	96	0.05	<0.05	<0.05	<0.05
Fluorene	µg/g	69	0.05	<0.05	<0.05	<0.05
Phenanthrene	µg/g	16	0.05	<0.05	<0.05	<0.05
Anthracene	µg/g	0.74	0.05	<0.05	<0.05	<0.05
Fluoranthene	µg/g	9.6	0.05	<0.05	<0.05	<0.05
Pyrene	µg/g	96	0.05	<0.05	<0.05	<0.05
Benz(a)anthracene	µg/g	0.96	0.05	<0.05	<0.05	<0.05
Chrysene	µg/g	9.6	0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	µg/g	0.96	0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	µg/g	0.3	0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.95	0.05	<0.05	<0.05	<0.05
Dibenz(a,h)anthracene	µg/g	0.1	0.05	<0.05	<0.05	<0.05
Benzo(g,h,i)perylene	µg/g	9.6	0.05	<0.05	<0.05	<0.05
2-and 1-methyl Naphthalene	µg/g	85	0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	31.8	31.5	30.2
Surrogate	Unit	Acceptable Limits				
Naphthalene-d8	%	50-140		98	89	91
Acridine-d9	%	50-140		91	81	85
Terphenyl-d14	%	50-140		74	77	74

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5681049-5681101 Results are based on the dry weight of the soil.

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

2- and 1-Methyl Naphthalene is a calculated parameter. The calculated value is the sum of 2-Methyl Naphthalene and 1-Methyl Naphthalene.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-26

DATE REPORTED: 2024-03-01

		SAMPLE DESCRIPTION:		MW110-4	MW111-4	MW112-4
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-02-16 09:00	2024-02-16 11:30	2024-02-16 13:00
Parameter	Unit	G / S	RDL	5681049	5681097	5681101
F1 (C6 to C10)	µg/g	65	5	<5	<5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5	<5	<5
F2 (C10 to C16)	µg/g	250	10	<10	<10	<10
F2 (C10 to C16) minus Naphthalene	µg/g		10	<10	<10	<10
F3 (C16 to C34)	µg/g	2500	50	<50	<50	<50
F3 (C16 to C34) minus PAHs	µg/g		50	<50	<50	<50
F4 (C34 to C50)	µg/g	6600	50	<50	<50	<50
Gravimetric Heavy Hydrocarbons	µg/g	6600	50	NA	NA	NA
Moisture Content	%		0.1	31.8	31.5	30.2
Surrogate	Unit	Acceptable Limits				
Toluene-d8	%	50-140	97	97	97	
Terphenyl	%	60-140	77	73	81	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5681049-5681101 Results are based on sample dry weight.

The C6-C10 fraction is calculated using toluene response factor.

C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16-C50 and are only determined if the chromatogram of the C34 - C50 hydrocarbons indicates that hydrocarbons >C50 are present.

The chromatogram has returned to baseline by the retention time of nC50.

Total C6 - C50 results are corrected for BTEX and PAH contributions.

C>10 - C16 (F2- Naphthalene) is a calculated parameter. The calculated value is F2 - Naphthalene.

C>16 - C34 (F3-PAH) is a calculated parameter. The calculated value is F3-PAH (PAH: sum of Phenanthrene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-c,d)pyrene and Pyrene).

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 + nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

DATE RECEIVED: 2024-02-26

DATE REPORTED: 2024-02-29

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-02-16
13:00

Parameter	Unit	G / S	RDL	5681102
Benzene	µg/g	0.4	0.02	<0.02
Toluene	µg/g	78	0.05	<0.05
Ethylbenzene	µg/g	19	0.05	<0.05
m & p-Xylene	µg/g		0.05	<0.05
o-Xylene	µg/g		0.05	<0.05
Xylenes (Total)	µg/g	30	0.05	<0.05
F1 (C6 to C10)	µg/g	65	5	<5
F1 (C6 to C10) minus BTEX	µg/g	65	5	<5
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	60-140	98	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5681102

A small amount of the methanol extract was diluted in water and the purge & trap GC/MS/FID analysis was performed.

Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.

C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.

The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-26

DATE REPORTED: 2024-02-29

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-02-16
13:00

Parameter	Unit	G / S	RDL	5681102
Dichlorodifluoromethane	µg/g	25	0.05	<0.05
Vinyl Chloride	ug/g	0.25	0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05
Acetone	ug/g	28	0.50	<0.50
1,1-Dichloroethylene	ug/g	0.48	0.05	<0.05
Methylene Chloride	ug/g	2	0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	9.3	0.05	<0.05
Methyl tert-butyl Ether	ug/g	3.2	0.05	<0.05
1,1-Dichloroethane	ug/g	21	0.02	<0.02
Methyl Ethyl Ketone	ug/g	88	0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	37	0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03
1,1,1-Trichloroethane	ug/g	12	0.05	<0.05
Carbon Tetrachloride	ug/g	1.5	0.05	<0.05
Benzene	ug/g	0.4	0.02	<0.02
1,2-Dichloropropane	ug/g	0.68	0.03	<0.03
Trichloroethylene	ug/g	0.61	0.03	<0.03
Bromodichloromethane	ug/g	18	0.05	<0.05
Methyl Isobutyl Ketone	ug/g	210	0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.11	0.04	<0.04
Toluene	ug/g	78	0.05	<0.05
Dibromochloromethane	ug/g	13	0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04
Tetrachloroethylene	ug/g	21	0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05
Ethylbenzene	ug/g	19	0.05	<0.05

Certified By:

Prakash Patel



Certificate of Analysis

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-26

DATE REPORTED: 2024-02-29

SAMPLE DESCRIPTION: Methanol Blank

SAMPLE TYPE: MeOH

DATE SAMPLED: 2024-02-16
13:00

Parameter	Unit	G / S	RDL	5681102
m & p-Xylene	ug/g		0.05	<0.05
Bromoform	ug/g	1.7	0.05	<0.05
Styrene	ug/g	43	0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.05	<0.05
o-Xylene	ug/g		0.05	<0.05
1,3-Dichlorobenzene	ug/g	12	0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.84	0.05	<0.05
1,2-Dichlorobenzene	ug/g	8.5	0.05	<0.05
Xylenes (Total)	ug/g	30	0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.21	0.04	<0.04
n-Hexane	µg/g	88	0.05	<0.05
Surrogate	Unit	Acceptable Limits		
Toluene-d8	% Recovery	50-140	98	
4-Bromofluorobenzene	% Recovery	50-140	87	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5681102 A small amount of methanol extract was diluted in water and analyzed by purge & trap GC/MS.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



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AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-26

DATE REPORTED: 2024-03-01

SAMPLE DESCRIPTION:				MW110-4	MW111-4	MW112-4
SAMPLE TYPE:				Soil	Soil	Soil
DATE SAMPLED:				2024-02-16 09:00	2024-02-16 11:30	2024-02-16 13:00
Parameter	Unit	G / S	RDL	5681049	5681097	5681101
Dichlorodifluoromethane	µg/g	25	0.05	<0.05	<0.05	<0.05
Vinyl Chloride	ug/g	0.25	0.02	<0.02	<0.02	<0.02
Bromomethane	ug/g	0.05	0.05	<0.05	<0.05	<0.05
Trichlorofluoromethane	ug/g	5.8	0.05	<0.05	<0.05	<0.05
Acetone	ug/g	28	0.50	<0.50	<0.50	<0.50
1,1-Dichloroethylene	ug/g	0.48	0.05	<0.05	<0.05	<0.05
Methylene Chloride	ug/g	2	0.05	<0.05	<0.05	<0.05
Trans- 1,2-Dichloroethylene	ug/g	9.3	0.05	<0.05	<0.05	<0.05
Methyl tert-butyl Ether	ug/g	3.2	0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	ug/g	21	0.02	<0.02	<0.02	<0.02
Methyl Ethyl Ketone	ug/g	88	0.50	<0.50	<0.50	<0.50
Cis- 1,2-Dichloroethylene	ug/g	37	0.02	<0.02	<0.02	<0.02
Chloroform	ug/g	0.18	0.04	<0.04	<0.04	<0.04
1,2-Dichloroethane	ug/g	0.05	0.03	<0.03	<0.03	<0.03
1,1,1-Trichloroethane	ug/g	12	0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	ug/g	1.5	0.05	<0.05	<0.05	<0.05
Benzene	ug/g	0.4	0.02	<0.02	<0.02	<0.02
1,2-Dichloropropane	ug/g	0.68	0.03	<0.03	<0.03	<0.03
Trichloroethylene	ug/g	0.61	0.03	<0.03	<0.03	<0.03
Bromodichloromethane	ug/g	18	0.05	<0.05	<0.05	<0.05
Methyl Isobutyl Ketone	ug/g	210	0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	ug/g	0.11	0.04	<0.04	<0.04	<0.04
Toluene	ug/g	78	0.05	<0.05	<0.05	<0.05
Dibromochloromethane	ug/g	13	0.05	<0.05	<0.05	<0.05
Ethylene Dibromide	ug/g	0.05	0.04	<0.04	<0.04	<0.04
Tetrachloroethylene	ug/g	21	0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	ug/g	0.11	0.04	<0.04	<0.04	<0.04
Chlorobenzene	ug/g	2.7	0.05	<0.05	<0.05	<0.05
Ethylbenzene	ug/g	19	0.05	<0.05	<0.05	<0.05

Certified By:

Pinkal Patel



Certificate of Analysis

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

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

DATE RECEIVED: 2024-02-26

DATE REPORTED: 2024-03-01

SAMPLE DESCRIPTION:				MW110-4	MW111-4	MW112-4
SAMPLE TYPE:				Soil	Soil	Soil
DATE SAMPLED:				2024-02-16 09:00	2024-02-16 11:30	2024-02-16 13:00
Parameter	Unit	G / S	RDL	5681049	5681097	5681101
m & p-Xylene	ug/g		0.05	<0.05	<0.05	<0.05
Bromoform	ug/g	1.7	0.05	<0.05	<0.05	<0.05
Styrene	ug/g	43	0.05	<0.05	<0.05	<0.05
1,1,2,2-Tetrachloroethane	ug/g	0.094	0.05	<0.05	<0.05	<0.05
o-Xylene	ug/g		0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	ug/g	12	0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	ug/g	0.84	0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	ug/g	8.5	0.05	<0.05	<0.05	<0.05
Xylenes (Total)	ug/g	30	0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene (Cis + Trans)	µg/g	0.21	0.05	<0.05	<0.05	<0.05
n-Hexane	µg/g	88	0.05	<0.05	<0.05	<0.05
Moisture Content	%		0.1	31.8	31.5	30.2
Surrogate	Unit	Acceptable Limits				
Toluene-d8	% Recovery	50-140		97	97	97
4-Bromofluorobenzene	% Recovery	50-140		88	87	84

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils

Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5681049-5681101 The sample was analyzed using the high level technique. The sample was extracted using methanol, a small amount of the methanol extract was diluted in water and the purge & trap GC/MS analysis was performed. Results are based on the dry weight of the soil.

Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene + o-Xylene.

1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.

The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

Soil Analysis

RPT Date:			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
O. Reg. 153(511) - Metals & Inorganics (Soil)															
Antimony	5680623		<0.8	<0.8	NA	< 0.8	128%	70%	130%	97%	80%	120%	103%	70%	130%
Arsenic	5680623		4	4	NA	< 1	106%	70%	130%	95%	80%	120%	100%	70%	130%
Barium	5680623		33.5	37.0	9.9%	< 2.0	100%	70%	130%	100%	80%	120%	99%	70%	130%
Beryllium	5680623		<0.5	<0.5	NA	< 0.5	105%	70%	130%	99%	80%	120%	102%	70%	130%
Boron	5680623		7	7	NA	< 5	91%	70%	130%	97%	80%	120%	92%	70%	130%
Boron (Hot Water Soluble)	5689454		0.50	0.45	NA	< 0.10	91%	60%	140%	103%	70%	130%	113%	60%	140%
Cadmium	5680623		<0.5	<0.5	NA	< 0.5	70%	70%	130%	90%	80%	120%	89%	70%	130%
Chromium	5680623		13	14	NA	< 5	102%	70%	130%	91%	80%	120%	110%	70%	130%
Cobalt	5680623		7.3	8.4	14.0%	< 0.8	109%	70%	130%	98%	80%	120%	105%	70%	130%
Copper	5680623		24.2	27.1	11.3%	< 1.0	99%	70%	130%	100%	80%	120%	108%	70%	130%
Molybdenum	5680623		<0.5	<0.5	NA	< 0.5	100%	70%	130%	102%	80%	120%	105%	70%	130%
Nickel	5680623		14	16	13.3%	< 1	107%	70%	130%	90%	80%	120%	98%	70%	130%
Selenium	5680623		<0.8	<0.8	NA	< 0.8	103%	70%	130%	93%	80%	120%	98%	70%	130%
Silver	5680623		<0.5	<0.5	NA	< 0.5	99%	70%	130%	91%	80%	120%	89%	70%	130%
Thallium	5680623		<0.5	<0.5	NA	< 0.5	114%	70%	130%	87%	80%	120%	89%	70%	130%
Uranium	5680623		<0.50	<0.50	NA	< 0.50	100%	70%	130%	94%	80%	120%	95%	70%	130%
Vanadium	5680623		20.3	21.8	7.1%	< 2.0	124%	70%	130%	94%	80%	120%	109%	70%	130%
Chromium, Hexavalent	5681059	5681059	<0.2	<0.2	NA	< 0.2	86%	70%	130%	98%	80%	120%	76%	70%	130%
Cyanide, WAD	5681059	5681059	<0.040	<0.040	NA	< 0.040	105%	70%	130%	90%	80%	120%	92%	70%	130%
Mercury	5680623		<0.10	<0.10	NA	< 0.10	102%	70%	130%	100%	80%	120%	97%	70%	130%
Electrical Conductivity (2:1)	5681059	5681059	0.392	0.388	1.0%	< 0.005	109%	80%	120%						
Sodium Adsorption Ratio (2:1) (Calc.)	5681059	5681059	3.21	3.24	0.9%	NA									
pH, 2:1 CaCl2 Extraction	5680949		6.21	6.40	3.0%	NA	100%	80%	120%						

Comments: NA signifies Not Applicable.

pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:



Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

Trace Organics Analysis

RPT Date:			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE				
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

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

F1 (C6 to C10)	5680950		<5	<5	NA	< 5	100%	60%	140%	87%	60%	140%	89%	60%	140%
F2 (C10 to C16)	5681101	5681101	< 10	< 10	NA	< 10	117%	60%	140%	102%	60%	140%	112%	60%	140%
F3 (C16 to C34)	5681101	5681101	< 50	< 50	NA	< 50	114%	60%	140%	110%	60%	140%	112%	60%	140%
F4 (C34 to C50)	5681101	5681101	< 50	< 50	NA	< 50	72%	60%	140%	97%	60%	140%	94%	60%	140%

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

Dichlorodifluoromethane	5680950		<0.05	<0.05	NA	< 0.05	104%	50%	140%	82%	50%	140%	91%	50%	140%
Vinyl Chloride	5680950		<0.02	<0.02	NA	< 0.02	94%	50%	140%	88%	50%	140%	80%	50%	140%
Bromomethane	5680950		<0.05	<0.05	NA	< 0.05	101%	50%	140%	118%	50%	140%	109%	50%	140%
Trichlorofluoromethane	5680950		<0.05	<0.05	NA	< 0.05	107%	50%	140%	106%	50%	140%	116%	50%	140%
Acetone	5680950		<0.50	<0.50	NA	< 0.50	98%	50%	140%	106%	50%	140%	96%	50%	140%

1,1-Dichloroethylene	5680950		<0.05	<0.05	NA	< 0.05	84%	50%	140%	93%	60%	130%	95%	50%	140%
Methylene Chloride	5680950		<0.05	<0.05	NA	< 0.05	94%	50%	140%	101%	60%	130%	100%	50%	140%
Trans- 1,2-Dichloroethylene	5680950		<0.05	<0.05	NA	< 0.05	94%	50%	140%	96%	60%	130%	91%	50%	140%
Methyl tert-butyl Ether	5680950		<0.05	<0.05	NA	< 0.05	101%	50%	140%	97%	60%	130%	104%	50%	140%
1,1-Dichloroethane	5680950		<0.02	<0.02	NA	< 0.02	92%	50%	140%	103%	60%	130%	101%	50%	140%

Methyl Ethyl Ketone	5680950		<0.50	<0.50	NA	< 0.50	98%	50%	140%	96%	50%	140%	94%	50%	140%
Cis- 1,2-Dichloroethylene	5680950		<0.02	<0.02	NA	< 0.02	91%	50%	140%	102%	60%	130%	98%	50%	140%
Chloroform	5680950		<0.04	<0.04	NA	< 0.04	88%	50%	140%	91%	60%	130%	95%	50%	140%
1,2-Dichloroethane	5680950		<0.03	<0.03	NA	< 0.03	101%	50%	140%	99%	60%	130%	101%	50%	140%
1,1,1-Trichloroethane	5680950		<0.05	<0.05	NA	< 0.05	98%	50%	140%	86%	60%	130%	84%	50%	140%

Carbon Tetrachloride	5680950		<0.05	<0.05	NA	< 0.05	85%	50%	140%	85%	60%	130%	93%	50%	140%
Benzene	5680950		<0.02	<0.02	NA	< 0.02	98%	50%	140%	104%	60%	130%	84%	50%	140%
1,2-Dichloropropane	5680950		<0.03	<0.03	NA	< 0.03	99%	50%	140%	99%	60%	130%	78%	50%	140%
Trichloroethylene	5680950		<0.03	<0.03	NA	< 0.03	93%	50%	140%	100%	60%	130%	103%	50%	140%
Bromodichloromethane	5680950		<0.05	<0.05	NA	< 0.05	103%	50%	140%	103%	60%	130%	80%	50%	140%

Methyl Isobutyl Ketone	5680950		<0.50	<0.50	NA	< 0.50	110%	50%	140%	101%	50%	140%	106%	50%	140%
1,1,2-Trichloroethane	5680950		<0.04	<0.04	NA	< 0.04	91%	50%	140%	87%	60%	130%	87%	50%	140%
Toluene	5680950		<0.05	<0.05	NA	< 0.05	92%	50%	140%	94%	60%	130%	86%	50%	140%
Dibromochloromethane	5680950		<0.05	<0.05	NA	< 0.05	95%	50%	140%	98%	60%	130%	90%	50%	140%
Ethylene Dibromide	5680950		<0.04	<0.04	NA	< 0.04	76%	50%	140%	104%	60%	130%	93%	50%	140%

Tetrachloroethylene	5680950		<0.05	<0.05	NA	< 0.05	89%	50%	140%	99%	60%	130%	109%	50%	140%
1,1,1,2-Tetrachloroethane	5680950		<0.04	<0.04	NA	< 0.04	90%	50%	140%	84%	60%	130%	92%	50%	140%
Chlorobenzene	5680950		<0.05	<0.05	NA	< 0.05	95%	50%	140%	94%	60%	130%	88%	50%	140%
Ethylbenzene	5680950		<0.05	<0.05	NA	< 0.05	95%	50%	140%	104%	60%	130%	88%	50%	140%
m & p-Xylene	5680950		<0.05	<0.05	NA	< 0.05	104%	50%	140%	111%	60%	130%	97%	50%	140%

Bromoform	5680950		<0.05	<0.05	NA	< 0.05	95%	50%	140%	91%	60%	130%	82%	50%	140%
Styrene	5680950		<0.05	<0.05	NA	< 0.05	99%	50%	140%	99%	60%	130%	83%	50%	140%
1,1,2,2-Tetrachloroethane	5680950		<0.05	<0.05	NA	< 0.05	79%	50%	140%	92%	60%	130%	100%	50%	140%
o-Xylene	5680950		<0.05	<0.05	NA	< 0.05	88%	50%	140%	102%	60%	130%	101%	50%	140%

AGAT QUALITY ASSURANCE REPORT (V1)

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

Results relate only to the items tested. Results apply to samples as received.

Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

Trace Organics Analysis (Continued)

RPT Date:			DUPLICATE				REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	5680950		<0.05	<0.05	NA	< 0.05	97%	50%	140%	105%	60%	130%	103%	50%	140%
1,4-Dichlorobenzene	5680950		<0.05	<0.05	NA	< 0.05	96%	50%	140%	91%	60%	130%	91%	50%	140%
1,2-Dichlorobenzene	5680950		<0.05	<0.05	NA	< 0.05	98%	50%	140%	97%	60%	130%	99%	50%	140%
n-Hexane	5680950		<0.05	<0.05	NA	< 0.05	61%	50%	140%	64%	60%	130%	68%	50%	140%
O. Reg. 153(511) - PAHs (Soil)															
Naphthalene	5680949		<0.05	<0.05	NA	< 0.05	100%	50%	140%	73%	50%	140%	98%	50%	140%
Acenaphthylene	5680949		<0.05	<0.05	NA	< 0.05	102%	50%	140%	85%	50%	140%	98%	50%	140%
Acenaphthene	5680949		<0.05	<0.05	NA	< 0.05	103%	50%	140%	68%	50%	140%	113%	50%	140%
Fluorene	5680949		<0.05	<0.05	NA	< 0.05	105%	50%	140%	80%	50%	140%	110%	50%	140%
Phenanthrene	5680949		<0.05	<0.05	NA	< 0.05	109%	50%	140%	73%	50%	140%	113%	50%	140%
Anthracene	5680949		<0.05	<0.05	NA	< 0.05	101%	50%	140%	78%	50%	140%	105%	50%	140%
Fluoranthene	5680949		<0.05	<0.05	NA	< 0.05	110%	50%	140%	93%	50%	140%	113%	50%	140%
Pyrene	5680949		<0.05	<0.05	NA	< 0.05	105%	50%	140%	75%	50%	140%	113%	50%	140%
Benz(a)anthracene	5680949		<0.05	<0.05	NA	< 0.05	85%	50%	140%	85%	50%	140%	88%	50%	140%
Chrysene	5680949		<0.05	<0.05	NA	< 0.05	105%	50%	140%	85%	50%	140%	100%	50%	140%
Benzo(b)fluoranthene	5680949		<0.05	<0.05	NA	< 0.05	121%	50%	140%	90%	50%	140%	100%	50%	140%
Benzo(k)fluoranthene	5680949		<0.05	<0.05	NA	< 0.05	118%	50%	140%	90%	50%	140%	95%	50%	140%
Benzo(a)pyrene	5680949		<0.05	<0.05	NA	< 0.05	92%	50%	140%	93%	50%	140%	80%	50%	140%
Indeno(1,2,3-cd)pyrene	5680949		<0.05	<0.05	NA	< 0.05	88%	50%	140%	95%	50%	140%	108%	50%	140%
Dibenz(a,h)anthracene	5680949		<0.05	<0.05	NA	< 0.05	80%	50%	140%	73%	50%	140%	70%	50%	140%
Benzo(g,h,i)perylene	5680949		<0.05	<0.05	NA	< 0.05	74%	50%	140%	75%	50%	140%	68%	50%	140%

Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By:





Time Markers

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5681049	MW110-4	Soil	16-FEB-2024	26-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	01-MAR-2024	01-MAR-2024	JJ
Acenaphthylene	01-MAR-2024	01-MAR-2024	JJ
Acenaphthene	01-MAR-2024	01-MAR-2024	JJ
Fluorene	01-MAR-2024	01-MAR-2024	JJ
Phenanthrene	01-MAR-2024	01-MAR-2024	JJ
Anthracene	01-MAR-2024	01-MAR-2024	JJ
Fluoranthene	01-MAR-2024	01-MAR-2024	JJ
Pyrene	01-MAR-2024	01-MAR-2024	JJ
Benz(a)anthracene	01-MAR-2024	01-MAR-2024	JJ
Chrysene	01-MAR-2024	01-MAR-2024	JJ
Benzo(b)fluoranthene	01-MAR-2024	01-MAR-2024	JJ
Benzo(k)fluoranthene	01-MAR-2024	01-MAR-2024	JJ
Benzo(a)pyrene	01-MAR-2024	01-MAR-2024	JJ
Indeno(1,2,3-cd)pyrene	01-MAR-2024	01-MAR-2024	JJ
Dibenz(a,h)anthracene	01-MAR-2024	01-MAR-2024	JJ
Benzo(g,h,i)perylene	01-MAR-2024	01-MAR-2024	JJ
2-and 1-methyl Naphthalene	01-MAR-2024	01-MAR-2024	SYS
Naphthalene-d8	01-MAR-2024	01-MAR-2024	JJ
Acridine-d9	01-MAR-2024	01-MAR-2024	JJ
Terphenyl-d14	01-MAR-2024	01-MAR-2024	JJ
Moisture Content	01-MAR-2024	01-MAR-2024	AK

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	29-FEB-2024	29-FEB-2024	CK
F1 (C6 to C10) minus BTEX	29-FEB-2024	29-FEB-2024	SYS
Toluene-d8	29-FEB-2024	29-FEB-2024	CK
F2 (C10 to C16)	01-MAR-2024	01-MAR-2024	SS
F2 (C10 to C16) minus Naphthalene	01-MAR-2024	01-MAR-2024	SYS
F3 (C16 to C34)	01-MAR-2024	01-MAR-2024	SS
F3 (C16 to C34) minus PAHs	01-MAR-2024	01-MAR-2024	SYS
F4 (C34 to C50)	01-MAR-2024	01-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	01-MAR-2024	01-MAR-2024	AK
Terphenyl	01-MAR-2024	01-MAR-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	29-FEB-2024	29-FEB-2024	CK



Time Markers

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5681049	MW110-4	Soil	16-FEB-2024	26-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Vinyl Chloride	29-FEB-2024	29-FEB-2024	CK
Bromomethane	29-FEB-2024	29-FEB-2024	CK
Trichlorofluoromethane	29-FEB-2024	29-FEB-2024	CK
Acetone	29-FEB-2024	29-FEB-2024	CK
1,1-Dichloroethylene	29-FEB-2024	29-FEB-2024	CK
Methylene Chloride	29-FEB-2024	29-FEB-2024	CK
Trans- 1,2-Dichloroethylene	29-FEB-2024	29-FEB-2024	CK
Methyl tert-butyl Ether	29-FEB-2024	29-FEB-2024	CK
1,1-Dichloroethane	29-FEB-2024	29-FEB-2024	CK
Methyl Ethyl Ketone	29-FEB-2024	29-FEB-2024	CK
Cis- 1,2-Dichloroethylene	29-FEB-2024	29-FEB-2024	CK
Chloroform	29-FEB-2024	29-FEB-2024	CK
1,2-Dichloroethane	29-FEB-2024	29-FEB-2024	CK
1,1,1-Trichloroethane	29-FEB-2024	29-FEB-2024	CK
Carbon Tetrachloride	29-FEB-2024	29-FEB-2024	CK
Benzene	29-FEB-2024	29-FEB-2024	CK
1,2-Dichloropropane	29-FEB-2024	29-FEB-2024	CK
Trichloroethylene	29-FEB-2024	29-FEB-2024	CK
Bromodichloromethane	29-FEB-2024	29-FEB-2024	CK
Methyl Isobutyl Ketone	29-FEB-2024	29-FEB-2024	CK
1,1,2-Trichloroethane	29-FEB-2024	29-FEB-2024	CK
Toluene	29-FEB-2024	29-FEB-2024	CK
Dibromochloromethane	29-FEB-2024	29-FEB-2024	CK
Ethylene Dibromide	29-FEB-2024	29-FEB-2024	CK
Tetrachloroethylene	29-FEB-2024	29-FEB-2024	CK
1,1,1,2-Tetrachloroethane	29-FEB-2024	29-FEB-2024	CK
Chlorobenzene	29-FEB-2024	29-FEB-2024	CK
Ethylbenzene	29-FEB-2024	29-FEB-2024	CK
m & p-Xylene	29-FEB-2024	29-FEB-2024	CK
Bromoform	29-FEB-2024	29-FEB-2024	CK
Styrene	29-FEB-2024	29-FEB-2024	CK
1,1,2,2-Tetrachloroethane	29-FEB-2024	29-FEB-2024	CK
o-Xylene	29-FEB-2024	29-FEB-2024	CK
1,3-Dichlorobenzene	29-FEB-2024	29-FEB-2024	CK
1,4-Dichlorobenzene	29-FEB-2024	29-FEB-2024	CK
1,2-Dichlorobenzene	29-FEB-2024	29-FEB-2024	CK
Xylenes (Total)	29-FEB-2024	29-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	29-FEB-2024	29-FEB-2024	SYS
n-Hexane	29-FEB-2024	29-FEB-2024	CK



Time Markers

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5681049	MW110-4	Soil	16-FEB-2024	26-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Toluene-d8	29-FEB-2024	29-FEB-2024	CK
4-Bromofluorobenzene	29-FEB-2024	29-FEB-2024	CK
Moisture Content	01-MAR-2024	01-MAR-2024	AK

5681059	MW110-1	Soil	16-FEB-2024	26-FEB-2024
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O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	01-MAR-2024	01-MAR-2024	SE
Arsenic	01-MAR-2024	01-MAR-2024	SE
Barium	01-MAR-2024	01-MAR-2024	SE
Beryllium	01-MAR-2024	01-MAR-2024	SE
Boron	01-MAR-2024	01-MAR-2024	SE
Boron (Hot Water Soluble)	01-MAR-2024	01-MAR-2024	ZK
Cadmium	01-MAR-2024	01-MAR-2024	SE
Chromium	01-MAR-2024	01-MAR-2024	SE
Cobalt	01-MAR-2024	01-MAR-2024	SE
Copper	01-MAR-2024	01-MAR-2024	SE
Lead	01-MAR-2024	01-MAR-2024	SE
Molybdenum	01-MAR-2024	01-MAR-2024	SE
Nickel	01-MAR-2024	01-MAR-2024	SE
Selenium	01-MAR-2024	01-MAR-2024	SE
Silver	01-MAR-2024	01-MAR-2024	SE
Thallium	01-MAR-2024	01-MAR-2024	SE
Uranium	01-MAR-2024	01-MAR-2024	SE
Vanadium	01-MAR-2024	01-MAR-2024	SE
Zinc	01-MAR-2024	01-MAR-2024	SE
Chromium, Hexavalent	29-FEB-2024	29-FEB-2024	RC
Cyanide, WAD	01-MAR-2024	01-MAR-2024	BG
Mercury	01-MAR-2024	01-MAR-2024	SE
Electrical Conductivity (2:1)	01-MAR-2024	01-MAR-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	01-MAR-2024	01-MAR-2024	XH
pH, 2:1 CaCl2 Extraction	29-FEB-2024	29-FEB-2024	XL

5681096	MW111-1	Soil	16-FEB-2024	26-FEB-2024
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O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
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Time Markers

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5681096	MW111-1	Soil	16-FEB-2024	26-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	01-MAR-2024	01-MAR-2024	SE
Arsenic	01-MAR-2024	01-MAR-2024	SE
Barium	01-MAR-2024	01-MAR-2024	SE
Beryllium	01-MAR-2024	01-MAR-2024	SE
Boron	01-MAR-2024	01-MAR-2024	SE
Boron (Hot Water Soluble)	01-MAR-2024	01-MAR-2024	ZK
Cadmium	01-MAR-2024	01-MAR-2024	SE
Chromium	01-MAR-2024	01-MAR-2024	SE
Cobalt	01-MAR-2024	01-MAR-2024	SE
Copper	01-MAR-2024	01-MAR-2024	SE
Lead	01-MAR-2024	01-MAR-2024	SE
Molybdenum	01-MAR-2024	01-MAR-2024	SE
Nickel	01-MAR-2024	01-MAR-2024	SE
Selenium	01-MAR-2024	01-MAR-2024	SE
Silver	01-MAR-2024	01-MAR-2024	SE
Thallium	01-MAR-2024	01-MAR-2024	SE
Uranium	01-MAR-2024	01-MAR-2024	SE
Vanadium	01-MAR-2024	01-MAR-2024	SE
Zinc	01-MAR-2024	01-MAR-2024	SE
Chromium, Hexavalent	29-FEB-2024	29-FEB-2024	RC
Cyanide, WAD	01-MAR-2024	01-MAR-2024	BG
Mercury	01-MAR-2024	01-MAR-2024	SE
Electrical Conductivity (2:1)	01-MAR-2024	01-MAR-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	01-MAR-2024	01-MAR-2024	XH
pH, 2:1 CaCl2 Extraction	29-FEB-2024	29-FEB-2024	XL

5681097	MW111-4	Soil	16-FEB-2024	26-FEB-2024
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O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	01-MAR-2024	01-MAR-2024	JJ
Acenaphthylene	01-MAR-2024	01-MAR-2024	JJ
Acenaphthene	01-MAR-2024	01-MAR-2024	JJ
Fluorene	01-MAR-2024	01-MAR-2024	JJ
Phenanthrene	01-MAR-2024	01-MAR-2024	JJ
Anthracene	01-MAR-2024	01-MAR-2024	JJ
Fluoranthene	01-MAR-2024	01-MAR-2024	JJ
Pyrene	01-MAR-2024	01-MAR-2024	JJ
Benz(a)anthracene	01-MAR-2024	01-MAR-2024	JJ



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AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5681097	MW111-4	Soil	16-FEB-2024	26-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chrysene	01-MAR-2024	01-MAR-2024	JJ
Benzo(b)fluoranthene	01-MAR-2024	01-MAR-2024	JJ
Benzo(k)fluoranthene	01-MAR-2024	01-MAR-2024	JJ
Benzo(a)pyrene	01-MAR-2024	01-MAR-2024	JJ
Indeno(1,2,3-cd)pyrene	01-MAR-2024	01-MAR-2024	JJ
Dibenz(a,h)anthracene	01-MAR-2024	01-MAR-2024	JJ
Benzo(g,h,i)perylene	01-MAR-2024	01-MAR-2024	JJ
2-and 1-methyl Naphthalene	01-MAR-2024	01-MAR-2024	SYS
Naphthalene-d8	01-MAR-2024	01-MAR-2024	JJ
Acridine-d9	01-MAR-2024	01-MAR-2024	JJ
Terphenyl-d14	01-MAR-2024	01-MAR-2024	JJ
Moisture Content	01-MAR-2024	01-MAR-2024	AK

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	29-FEB-2024	29-FEB-2024	CK
F1 (C6 to C10) minus BTEX	29-FEB-2024	29-FEB-2024	SYS
Toluene-d8	29-FEB-2024	29-FEB-2024	CK
F2 (C10 to C16)	01-MAR-2024	01-MAR-2024	SS
F2 (C10 to C16) minus Naphthalene	01-MAR-2024	01-MAR-2024	SYS
F3 (C16 to C34)	01-MAR-2024	01-MAR-2024	SS
F3 (C16 to C34) minus PAHs	01-MAR-2024	01-MAR-2024	SYS
F4 (C34 to C50)	01-MAR-2024	01-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	01-MAR-2024	01-MAR-2024	AK
Terphenyl	01-MAR-2024	01-MAR-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	29-FEB-2024	29-FEB-2024	CK
Vinyl Chloride	29-FEB-2024	29-FEB-2024	CK
Bromomethane	29-FEB-2024	29-FEB-2024	CK
Trichlorofluoromethane	29-FEB-2024	29-FEB-2024	CK
Acetone	29-FEB-2024	29-FEB-2024	CK
1,1-Dichloroethylene	29-FEB-2024	29-FEB-2024	CK
Methylene Chloride	29-FEB-2024	29-FEB-2024	CK
Trans- 1,2-Dichloroethylene	29-FEB-2024	29-FEB-2024	CK
Methyl tert-butyl Ether	29-FEB-2024	29-FEB-2024	CK
1,1-Dichloroethane	29-FEB-2024	29-FEB-2024	CK



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AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5681097	MW111-4	Soil	16-FEB-2024	26-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methyl Ethyl Ketone	29-FEB-2024	29-FEB-2024	CK
Cis- 1,2-Dichloroethylene	29-FEB-2024	29-FEB-2024	CK
Chloroform	29-FEB-2024	29-FEB-2024	CK
1,2-Dichloroethane	29-FEB-2024	29-FEB-2024	CK
1,1,1-Trichloroethane	29-FEB-2024	29-FEB-2024	CK
Carbon Tetrachloride	29-FEB-2024	29-FEB-2024	CK
Benzene	29-FEB-2024	29-FEB-2024	CK
1,2-Dichloropropane	29-FEB-2024	29-FEB-2024	CK
Trichloroethylene	29-FEB-2024	29-FEB-2024	CK
Bromodichloromethane	29-FEB-2024	29-FEB-2024	CK
Methyl Isobutyl Ketone	29-FEB-2024	29-FEB-2024	CK
1,1,2-Trichloroethane	29-FEB-2024	29-FEB-2024	CK
Toluene	29-FEB-2024	29-FEB-2024	CK
Dibromochloromethane	29-FEB-2024	29-FEB-2024	CK
Ethylene Dibromide	29-FEB-2024	29-FEB-2024	CK
Tetrachloroethylene	29-FEB-2024	29-FEB-2024	CK
1,1,1,2-Tetrachloroethane	29-FEB-2024	29-FEB-2024	CK
Chlorobenzene	29-FEB-2024	29-FEB-2024	CK
Ethylbenzene	29-FEB-2024	29-FEB-2024	CK
m & p-Xylene	29-FEB-2024	29-FEB-2024	CK
Bromoform	29-FEB-2024	29-FEB-2024	CK
Styrene	29-FEB-2024	29-FEB-2024	CK
1,1,2,2-Tetrachloroethane	29-FEB-2024	29-FEB-2024	CK
o-Xylene	29-FEB-2024	29-FEB-2024	CK
1,3-Dichlorobenzene	29-FEB-2024	29-FEB-2024	CK
1,4-Dichlorobenzene	29-FEB-2024	29-FEB-2024	CK
1,2-Dichlorobenzene	29-FEB-2024	29-FEB-2024	CK
Xylenes (Total)	29-FEB-2024	29-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	29-FEB-2024	29-FEB-2024	SYS
n-Hexane	29-FEB-2024	29-FEB-2024	CK
Toluene-d8	29-FEB-2024	29-FEB-2024	CK
4-Bromofluorobenzene	29-FEB-2024	29-FEB-2024	CK
Moisture Content	01-MAR-2024	01-MAR-2024	AK

5681098	MW112-1	Soil	16-FEB-2024	26-FEB-2024
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O. Reg. 153(511) - Metals & Inorganics (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Antimony	01-MAR-2024	01-MAR-2024	SE



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AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5681098	MW112-1	Soil	16-FEB-2024	26-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Arsenic	01-MAR-2024	01-MAR-2024	SE
Barium	01-MAR-2024	01-MAR-2024	SE
Beryllium	01-MAR-2024	01-MAR-2024	SE
Boron	01-MAR-2024	01-MAR-2024	SE
Boron (Hot Water Soluble)	01-MAR-2024	01-MAR-2024	ZK
Cadmium	01-MAR-2024	01-MAR-2024	SE
Chromium	01-MAR-2024	01-MAR-2024	SE
Cobalt	01-MAR-2024	01-MAR-2024	SE
Copper	01-MAR-2024	01-MAR-2024	SE
Lead	01-MAR-2024	01-MAR-2024	SE
Molybdenum	01-MAR-2024	01-MAR-2024	SE
Nickel	01-MAR-2024	01-MAR-2024	SE
Selenium	01-MAR-2024	01-MAR-2024	SE
Silver	01-MAR-2024	01-MAR-2024	SE
Thallium	01-MAR-2024	01-MAR-2024	SE
Uranium	01-MAR-2024	01-MAR-2024	SE
Vanadium	01-MAR-2024	01-MAR-2024	SE
Zinc	01-MAR-2024	01-MAR-2024	SE
Chromium, Hexavalent	29-FEB-2024	29-FEB-2024	RC
Cyanide, WAD	01-MAR-2024	01-MAR-2024	BG
Mercury	01-MAR-2024	01-MAR-2024	SE
Electrical Conductivity (2:1)	01-MAR-2024	01-MAR-2024	XL
Sodium Adsorption Ratio (2:1) (Calc.)	01-MAR-2024	01-MAR-2024	XH
pH, 2:1 CaCl2 Extraction	29-FEB-2024	29-FEB-2024	XL

5681101	MW112-4	Soil	16-FEB-2024	26-FEB-2024
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O. Reg. 153(511) - PAHs (Soil)

Parameter	Date Prepared	Date Analyzed	Initials
Naphthalene	01-MAR-2024	01-MAR-2024	JJ
Acenaphthylene	01-MAR-2024	01-MAR-2024	JJ
Acenaphthene	01-MAR-2024	01-MAR-2024	JJ
Fluorene	01-MAR-2024	01-MAR-2024	JJ
Phenanthrene	01-MAR-2024	01-MAR-2024	JJ
Anthracene	01-MAR-2024	01-MAR-2024	JJ
Fluoranthene	01-MAR-2024	01-MAR-2024	JJ
Pyrene	01-MAR-2024	01-MAR-2024	JJ
Benz(a)anthracene	01-MAR-2024	01-MAR-2024	JJ
Chrysene	01-MAR-2024	01-MAR-2024	JJ



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AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5681101	MW112-4	Soil	16-FEB-2024	26-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Benzo(b)fluoranthene	01-MAR-2024	01-MAR-2024	JJ
Benzo(k)fluoranthene	01-MAR-2024	01-MAR-2024	JJ
Benzo(a)pyrene	01-MAR-2024	01-MAR-2024	JJ
Indeno(1,2,3-cd)pyrene	01-MAR-2024	01-MAR-2024	JJ
Dibenz(a,h)anthracene	01-MAR-2024	01-MAR-2024	JJ
Benzo(g,h,i)perylene	01-MAR-2024	01-MAR-2024	JJ
2-and 1-methyl Naphthalene	01-MAR-2024	01-MAR-2024	SYS
Naphthalene-d8	01-MAR-2024	01-MAR-2024	JJ
Acridine-d9	01-MAR-2024	01-MAR-2024	JJ
Terphenyl-d14	01-MAR-2024	01-MAR-2024	JJ
Moisture Content	01-MAR-2024	01-MAR-2024	AK

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	29-FEB-2024	29-FEB-2024	CK
F1 (C6 to C10) minus BTEX	29-FEB-2024	29-FEB-2024	SYS
Toluene-d8	29-FEB-2024	29-FEB-2024	CK
F2 (C10 to C16)	01-MAR-2024	01-MAR-2024	SS
F2 (C10 to C16) minus Naphthalene	01-MAR-2024	01-MAR-2024	SYS
F3 (C16 to C34)	01-MAR-2024	01-MAR-2024	SS
F3 (C16 to C34) minus PAHs	01-MAR-2024	01-MAR-2024	SYS
F4 (C34 to C50)	01-MAR-2024	01-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Moisture Content	01-MAR-2024	01-MAR-2024	AK
Terphenyl	01-MAR-2024	01-MAR-2024	SS

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	29-FEB-2024	29-FEB-2024	CK
Vinyl Chloride	29-FEB-2024	29-FEB-2024	CK
Bromomethane	29-FEB-2024	29-FEB-2024	CK
Trichlorofluoromethane	29-FEB-2024	29-FEB-2024	CK
Acetone	29-FEB-2024	29-FEB-2024	CK
1,1-Dichloroethylene	29-FEB-2024	29-FEB-2024	CK
Methylene Chloride	29-FEB-2024	29-FEB-2024	CK
Trans- 1,2-Dichloroethylene	29-FEB-2024	29-FEB-2024	CK
Methyl tert-butyl Ether	29-FEB-2024	29-FEB-2024	CK
1,1-Dichloroethane	29-FEB-2024	29-FEB-2024	CK
Methyl Ethyl Ketone	29-FEB-2024	29-FEB-2024	CK



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AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5681101	MW112-4	Soil	16-FEB-2024	26-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Cis- 1,2-Dichloroethylene	29-FEB-2024	29-FEB-2024	CK
Chloroform	29-FEB-2024	29-FEB-2024	CK
1,2-Dichloroethane	29-FEB-2024	29-FEB-2024	CK
1,1,1-Trichloroethane	29-FEB-2024	29-FEB-2024	CK
Carbon Tetrachloride	29-FEB-2024	29-FEB-2024	CK
Benzene	29-FEB-2024	29-FEB-2024	CK
1,2-Dichloropropane	29-FEB-2024	29-FEB-2024	CK
Trichloroethylene	29-FEB-2024	29-FEB-2024	CK
Bromodichloromethane	29-FEB-2024	29-FEB-2024	CK
Methyl Isobutyl Ketone	29-FEB-2024	29-FEB-2024	CK
1,1,2-Trichloroethane	29-FEB-2024	29-FEB-2024	CK
Toluene	29-FEB-2024	29-FEB-2024	CK
Dibromochloromethane	29-FEB-2024	29-FEB-2024	CK
Ethylene Dibromide	29-FEB-2024	29-FEB-2024	CK
Tetrachloroethylene	29-FEB-2024	29-FEB-2024	CK
1,1,1,2-Tetrachloroethane	29-FEB-2024	29-FEB-2024	CK
Chlorobenzene	29-FEB-2024	29-FEB-2024	CK
Ethylbenzene	29-FEB-2024	29-FEB-2024	CK
m & p-Xylene	29-FEB-2024	29-FEB-2024	CK
Bromoform	29-FEB-2024	29-FEB-2024	CK
Styrene	29-FEB-2024	29-FEB-2024	CK
1,1,2,2-Tetrachloroethane	29-FEB-2024	29-FEB-2024	CK
o-Xylene	29-FEB-2024	29-FEB-2024	CK
1,3-Dichlorobenzene	29-FEB-2024	29-FEB-2024	CK
1,4-Dichlorobenzene	29-FEB-2024	29-FEB-2024	CK
1,2-Dichlorobenzene	29-FEB-2024	29-FEB-2024	CK
Xylenes (Total)	29-FEB-2024	29-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	29-FEB-2024	29-FEB-2024	SYS
n-Hexane	29-FEB-2024	29-FEB-2024	CK
Toluene-d8	29-FEB-2024	29-FEB-2024	CK
4-Bromofluorobenzene	29-FEB-2024	29-FEB-2024	CK
Moisture Content	01-MAR-2024	01-MAR-2024	AK

5681102	Methanol Blank	MeOH	16-FEB-2024	26-FEB-2024
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O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Benzene	29-FEB-2024	29-FEB-2024	CK
Toluene	29-FEB-2024	29-FEB-2024	CK



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AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5681102	Methanol Blank	MeOH	16-FEB-2024	26-FEB-2024

O. Reg. 153(511) - PHCs F1/BTEX (MeOH)

Parameter	Date Prepared	Date Analyzed	Initials
Ethylbenzene	29-FEB-2024	29-FEB-2024	CK
m & p-Xylene	29-FEB-2024	29-FEB-2024	CK
o-Xylene	29-FEB-2024	29-FEB-2024	CK
Xylenes (Total)	29-FEB-2024	29-FEB-2024	SYS
F1 (C6 to C10)	29-FEB-2024	29-FEB-2024	CK
F1 (C6 to C10) minus BTEX	29-FEB-2024	29-FEB-2024	SYS
Toluene-d8	29-FEB-2024	29-FEB-2024	CK

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	29-FEB-2024	29-FEB-2024	CK
Vinyl Chloride	29-FEB-2024	29-FEB-2024	CK
Bromomethane	29-FEB-2024	29-FEB-2024	CK
Trichlorofluoromethane	29-FEB-2024	29-FEB-2024	CK
Acetone	29-FEB-2024	29-FEB-2024	CK
1,1-Dichloroethylene	29-FEB-2024	29-FEB-2024	CK
Methylene Chloride	29-FEB-2024	29-FEB-2024	CK
Trans- 1,2-Dichloroethylene	29-FEB-2024	29-FEB-2024	CK
Methyl tert-butyl Ether	29-FEB-2024	29-FEB-2024	CK
1,1-Dichloroethane	29-FEB-2024	29-FEB-2024	CK
Methyl Ethyl Ketone	29-FEB-2024	29-FEB-2024	CK
Cis- 1,2-Dichloroethylene	29-FEB-2024	29-FEB-2024	CK
Chloroform	29-FEB-2024	29-FEB-2024	CK
1,2-Dichloroethane	29-FEB-2024	29-FEB-2024	CK
1,1,1-Trichloroethane	29-FEB-2024	29-FEB-2024	CK
Carbon Tetrachloride	29-FEB-2024	29-FEB-2024	CK
Benzene	29-FEB-2024	29-FEB-2024	CK
1,2-Dichloropropane	29-FEB-2024	29-FEB-2024	CK
Trichloroethylene	29-FEB-2024	29-FEB-2024	CK
Bromodichloromethane	29-FEB-2024	29-FEB-2024	CK
Methyl Isobutyl Ketone	29-FEB-2024	29-FEB-2024	CK
1,1,2-Trichloroethane	29-FEB-2024	29-FEB-2024	CK
Toluene	29-FEB-2024	29-FEB-2024	CK
Dibromochloromethane	29-FEB-2024	29-FEB-2024	CK
Ethylene Dibromide	29-FEB-2024	29-FEB-2024	CK
Tetrachloroethylene	29-FEB-2024		CK
1,1,1,2-Tetrachloroethane	29-FEB-2024	29-FEB-2024	CK
Chlorobenzene	29-FEB-2024	29-FEB-2024	CK
Ethylbenzene	29-FEB-2024	29-FEB-2024	CK



Time Markers

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5681102	Methanol Blank	MeOH	16-FEB-2024	26-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
m & p-Xylene	29-FEB-2024	29-FEB-2024	CK
Bromoform	29-FEB-2024	29-FEB-2024	CK
Styrene	29-FEB-2024	29-FEB-2024	CK
1,1,2,2-Tetrachloroethane	29-FEB-2024	29-FEB-2024	CK
o-Xylene	29-FEB-2024	29-FEB-2024	CK
1,3-Dichlorobenzene	29-FEB-2024	29-FEB-2024	CK
1,4-Dichlorobenzene	29-FEB-2024	29-FEB-2024	CK
1,2-Dichlorobenzene	29-FEB-2024	29-FEB-2024	CK
Xylenes (Total)	29-FEB-2024	29-FEB-2024	SYS
1,3-Dichloropropene (Cis + Trans)	29-FEB-2024	29-FEB-2024	SYS
n-Hexane	29-FEB-2024	29-FEB-2024	CK
Toluene-d8	29-FEB-2024	29-FEB-2024	CK
4-Bromofluorobenzene	29-FEB-2024	29-FEB-2024	CK

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

PROJECT: CO952.01

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

AGAT WORK ORDER: 24Z124184

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Antimony	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Arsenic	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Barium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Beryllium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Boron (Hot Water Soluble)	MET-93-6104	modified from EPA 6010D and MSA PART 3, CH 21	ICP/OES
Cadmium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Cobalt	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Copper	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Lead	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Molybdenum	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Nickel	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Selenium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Silver	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Thallium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Uranium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Vanadium	MET-93-6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Zinc	MET 93 -6103	modified from EPA 3050B and EPA 6020B and ON MOECC	ICP-MS
Chromium, Hexavalent	INOR-93-6068	modified from EPA 3060 and EPA 7196	SPECTROPHOTOMETER
Cyanide, WAD	INOR-93-6052	modified from ON MOECC E3015, SM 4500-CN- I, G-387	SEGMENTED FLOW ANALYSIS
Mercury	MET-93-6103	modified from EPA 7471B and SM 3112 B	ICP-MS
Electrical Conductivity (2:1)	INOR-93-6075	modified from MSA PART 3, CH 14 and SM 2510 B	PC TITRATE
Sodium Adsorption Ratio (2:1) (Calc.)	INOR-93-6007	modified from EPA 6010D & Analytical Protocol	ICP/OES
pH, 2:1 CaCl ₂ Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acenaphthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluorene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Phenanthrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benz(a)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Chrysene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(b)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(k)fluoranthene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(a)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Indeno(1,2,3-cd)pyrene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Dibenz(a,h)anthracene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Benzo(g,h,i)perylene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
2-and 1-methyl Naphthalene	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Naphthalene-d8	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Acridine-d9	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Terphenyl-d14	ORG-91-5106	modified from EPA 3570 and EPA 8270E	GC/MS
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
F1 (C6 to C10)	VOL-91-5009	modified from CCME Tier 1 Method	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5009	modified from CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F2 (C10 to C16) minus Naphthalene	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F3 (C16 to C34) minus PAHs	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
F4 (C34 to C50)	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE
Terphenyl	VOL-91-5009	modified from CCME Tier 1 Method	GC/FID
Benzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

PROJECT: CO952.01

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

AGAT WORK ORDER: 24Z124184

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Toluene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5009	modified from EPA SW-846 5035C & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5009	modified from EPA 5035C and EPA 8260D	(P&T)GC/MS
F1 (C6 to C10) minus BTEX	VOL-91-5009	CCME Tier 1 Method	P&T GC/FID
Toluene-d8	VOL-91-5009	modified from EPA SW-846 5030C & 8260D	(P&T)GC/MS
Dichlorodifluoromethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

PROJECT: CO952.01

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

AGAT WORK ORDER: 24Z124184

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA SW-846 5035 & 8260D	(P&T)GC/MS
Dichlorodifluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

PROJECT: CO952.01

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

AGAT WORK ORDER: 24Z124184

ATTENTION TO: Craig Beaton

SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trans- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl tert-butyl Ether	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Cis- 1,2-Dichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z124184

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: EB

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
1,4-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene (Cis + Trans)	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5002	modified from EPA 5035A and EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5002	modified from EPA 5035A & EPA 8260D	(P&T)GC/MS

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED
20 GURDWARA ROAD, UNIT 1
OTTAWA, ON K2E 8B3
613 745 6471

ATTENTION TO: Craig Beaton

PROJECT: CO952.01

AGAT WORK ORDER: 24Z124905

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

WATER ANALYSIS REVIEWED BY: Yris Verastegui, Inorganic Team Lead

DATE REPORTED: Mar 07, 2024

PAGES (INCLUDING COVER): 43

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
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- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



Certificate of Analysis

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: SH, AH

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

DATE RECEIVED: 2024-02-28

DATE REPORTED: 2024-03-07

SAMPLE DESCRIPTION:				MW101	MW102	MW103	MW104	MW105	MW106	MW108	MW110
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2024-02-27 10:45	2024-02-27 13:00	2024-02-27 14:30	2024-02-27 14:00	2024-02-27 13:30	2024-02-27 12:20	2024-02-27 11:50	2024-02-27 16:50
Parameter	Unit	G / S	RDL	5690099	5690104	5690105	5690106	5690107	5690108	5690109	5690110
F1 (C6 to C10)	µg/L	750	25	<25	<25	<25	<25	<25	<25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	750	25	<25	<25	<25	<25	<25	<25	<25	<25
F2 (C10 to C16)	µg/L	150	100	<100	<100	<100	<100	<100	<100	<100	<100
F3 (C16 to C34)	µg/L	500	100	<100	<100	<100	<100	<100	<100	<100	<100
F4 (C34 to C50)	µg/L	500	100	<100	<100	<100	<100	<100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA	NA	NA	NA	NA	NA	NA	NA
Sediment				1	3	1	1	1	1	1	1
Surrogate	Unit	Acceptable Limits									
Toluene-d8	%	50-140		99	96	95	98	104	97	96	101
Terphenyl	% Recovery	60-140		95	80	116	95	91	71	99	99
SAMPLE DESCRIPTION:				MW111	MW112	MW1101	MW1121	Trip blank			
SAMPLE TYPE:				Water	Water	Water	Water	Water			
DATE SAMPLED:				2024-02-27 16:10	2024-02-27 15:15	2024-02-27 10:45	2024-02-27 16:50	2024-02-21			
Parameter	Unit	G / S	RDL	5690111	5690112	5690113	5690114	5690122			
F1 (C6 to C10)	µg/L	750	25	<25	<25	<25	<25	<25			
F1 (C6 to C10) minus BTEX	µg/L	750	25	<25	<25	<25	<25	<25			
F2 (C10 to C16)	µg/L	150	100	<100	<100	<100	<100	<100			
F3 (C16 to C34)	µg/L	500	100	<100	<100	<100	<100	<100			
F4 (C34 to C50)	µg/L	500	100	<100	<100	<100	<100	<100			
Gravimetric Heavy Hydrocarbons	µg/L		500	NA	NA	NA	NA	NA			
Sediment				1	1	1	1	1			
Surrogate	Unit	Acceptable Limits									
Toluene-d8	%	50-140		96	97	94	99	93			
Terphenyl	% Recovery	60-140		82	90	83	91	73			

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: SH, AH

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

DATE RECEIVED: 2024-02-28

DATE REPORTED: 2024-03-07

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5690099-5690122 The C6-C10 fraction is calculated using Toluene response factor.
Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
C6-C10 (F1 minus BTEX) is a calculated parameter. The calculated value is F1 minus BTEX.
The calculated parameters are non-accredited. The parameters that are components of the calculation are accredited.
The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.
Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.
The chromatogram has returned to baseline by the retention time of nC50.
Total C6-C50 results are corrected for BTEX contribution.
This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.
nC6 and nC10 response factors are within 30% of Toluene response factor.
nC10, nC16 and nC34 response factors are within 10% of their average.
C50 response factor is within 70% of nC10 + nC16 nC34 average.
Linearity is within 15%.
Extraction and holding times were met for this sample.
Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153/04, results are considered valid without determining the PAH contribution if not requested by the client.
NA = Not Applicable

Sediment parameter is comment only based on visual inspection of the sample prior to extraction and is not an accredited test.

Legend: 1 = no sediment present; 2 = sediment present; 3 = sediment present in trace amounts

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: SH, AH

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

DATE RECEIVED: 2024-02-28

DATE REPORTED: 2024-03-07

SAMPLE DESCRIPTION:				MW101	MW102	MW103	MW104	MW105	MW106	MW108	MW110
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2024-02-27 10:45	2024-02-27 13:00	2024-02-27 14:30	2024-02-27 14:00	2024-02-27 13:30	2024-02-27 12:20	2024-02-27 11:50	2024-02-27 16:50
Parameter	Unit	G / S	RDL	5690099	5690104	5690105	5690106	5690107	5690108	5690109	5690110
Dichlorodifluoromethane	µg/L	4400	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Vinyl Chloride	µg/L	1.7	0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Bromomethane	µg/L	56	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	2500	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Acetone	µg/L	130000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	17	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methylene Chloride	µg/L	5500	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl tert-butyl ether	µg/L	1400	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	3100	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	1500000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	22	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	12	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	6700	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	8.4	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	430	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	140	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	85000	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	580000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	30	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	18000	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	82000	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.83	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	28	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	µg/L	630	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylbenzene	µg/L	2300	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: SH, AH

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

DATE RECEIVED: 2024-02-28

DATE REPORTED: 2024-03-07

SAMPLE DESCRIPTION:				MW101	MW102	MW103	MW104	MW105	MW106	MW108	MW110
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2024-02-27 10:45	2024-02-27 13:00	2024-02-27 14:30	2024-02-27 14:00	2024-02-27 13:30	2024-02-27 12:20	2024-02-27 11:50	2024-02-27 16:50
Parameter	Unit	G / S	RDL	5690099	5690104	5690105	5690106	5690107	5690108	5690109	5690110
m & p-Xylene	µg/L		0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	770	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Styrene	µg/L	9100	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	15	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
o-Xylene	µg/L		0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichlorobenzene	µg/L	9600	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	67	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	9600	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	45	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Xylenes (Total)	µg/L	4200	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
n-Hexane	µg/L	520	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate	Unit	Acceptable Limits									
Toluene-d8	% Recovery	50-140		99	96	95	98	104	97	96	101
4-Bromofluorobenzene	% Recovery	50-140		93	96	92	91	92	93	92	95

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: SH, AH

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

DATE RECEIVED: 2024-02-28

DATE REPORTED: 2024-03-07

SAMPLE DESCRIPTION:				MW111	MW112	MW1101	MW1121	Trip blank
SAMPLE TYPE:				Water	Water	Water	Water	Water
DATE SAMPLED:				2024-02-27 16:10	2024-02-27 15:15	2024-02-27 10:45	2024-02-27 16:50	2024-02-21
Parameter	Unit	G / S	RDL	5690111	5690112	5690113	5690114	5690122
Dichlorodifluoromethane	µg/L	4400	0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Vinyl Chloride	µg/L	1.7	0.17	<0.17	<0.17	<0.17	<0.17	<0.17
Bromomethane	µg/L	56	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane	µg/L	2500	0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Acetone	µg/L	130000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	µg/L	17	0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methylene Chloride	µg/L	5500	0.30	<0.30	<0.30	<0.30	<0.30	<0.30
trans- 1,2-Dichloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl tert-butyl ether	µg/L	1400	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1-Dichloroethane	µg/L	3100	0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Methyl Ethyl Ketone	µg/L	1500000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis- 1,2-Dichloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Chloroform	µg/L	22	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloroethane	µg/L	12	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	6700	0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Carbon Tetrachloride	µg/L	8.4	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Benzene	µg/L	430	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,2-Dichloropropane	µg/L	140	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromodichloromethane	µg/L	85000	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Methyl Isobutyl Ketone	µg/L	580000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	µg/L	30	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Toluene	µg/L	18000	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromochloromethane	µg/L	82000	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylene Dibromide	µg/L	0.83	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tetrachloroethylene	µg/L	17	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1,2-Tetrachloroethane	µg/L	28	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorobenzene	µg/L	630	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Ethylbenzene	µg/L	2300	0.10	<0.10	<0.10	<0.10	<0.10	<0.10

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: SH, AH

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

DATE RECEIVED: 2024-02-28

DATE REPORTED: 2024-03-07

SAMPLE DESCRIPTION:				MW111	MW112	MW1101	MW1121	Trip blank
SAMPLE TYPE:				Water	Water	Water	Water	Water
DATE SAMPLED:				2024-02-27 16:10	2024-02-27 15:15	2024-02-27 10:45	2024-02-27 16:50	2024-02-21
Parameter	Unit	G / S	RDL	5690111	5690112	5690113	5690114	5690122
m & p-Xylene	µg/L		0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Bromoform	µg/L	770	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Styrene	µg/L	9100	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,1,2,2-Tetrachloroethane	µg/L	15	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
o-Xylene	µg/L		0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichlorobenzene	µg/L	9600	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,4-Dichlorobenzene	µg/L	67	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,2-Dichlorobenzene	µg/L	9600	0.10	<0.10	<0.10	<0.10	<0.10	<0.10
1,3-Dichloropropene	µg/L	45	0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Xylenes (Total)	µg/L	4200	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
n-Hexane	µg/L	520	0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Surrogate	Unit	Acceptable Limits						
Toluene-d8	% Recovery	50-140		96	97	94	99	93
4-Bromofluorobenzene	% Recovery	50-140		91	94	89	94	91

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5690099-5690122 Xylenes total is a calculated parameter. The calculated value is the sum of m&p-Xylene and o-Xylene.
1,3-Dichloropropene total is a calculated parameter. The calculated value is the sum of Cis-1,3-Dichloropropene and Trans-1,3-Dichloropropene.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: SH, AH

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

DATE RECEIVED: 2024-02-28

DATE REPORTED: 2024-03-07

SAMPLE DESCRIPTION:				MW101	MW102	MW103	MW104	MW105	MW106	MW108	MW110
SAMPLE TYPE:				Water	Water	Water	Water	Water	Water	Water	Water
DATE SAMPLED:				2024-02-27 10:45	2024-02-27 13:00	2024-02-27 14:30	2024-02-27 14:00	2024-02-27 13:30	2024-02-27 12:20	2024-02-27 11:50	2024-02-27 16:50
Parameter	Unit	G / S	RDL	5690099	5690104	5690105	5690106	5690107	5690108	5690109	5690110
Dissolved Antimony	µg/L	20000	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dissolved Arsenic	µg/L	1900	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dissolved Barium	µg/L	29000	2.0	44.1	87.7	194	55.9	108	67.2	128	83.2
Dissolved Beryllium	µg/L	67	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dissolved Boron	µg/L	45000	10.0	51.3	62.5	65.2	52.7	53.2	47.1	28.3	40.6
Dissolved Cadmium	µg/L	2.7	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dissolved Chromium	µg/L	810	2.0	<2.0	<2.0	<2.0	<2.0	7.2	<2.0	<2.0	<2.0
Dissolved Cobalt	µg/L	66	0.50	<0.50	<0.50	1.02	<0.50	<0.50	<0.50	0.62	<0.50
Dissolved Copper	µg/L	87	1.0	3.0	2.2	2.3	1.3	1.4	1.6	3.8	1.3
Dissolved Lead	µg/L	25	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dissolved Molybdenum	µg/L	9200	0.50	5.49	4.37	6.86	3.16	4.48	3.88	5.27	3.16
Dissolved Nickel	µg/L	490	1.0	3.2	4.2	7.5	2.6	7.9	4.5	15.2	1.5
Dissolved Selenium	µg/L	63	1.0	<1.0	<1.0	<1.0	1.8	2.2	<1.0	<1.0	<1.0
Dissolved Silver	µg/L	1.5	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dissolved Thallium	µg/L	510	0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
Dissolved Uranium	µg/L	420	0.50	18.4	29.8	26.2	14.0	24.1	21.7	14.8	3.90
Dissolved Vanadium	µg/L	250	0.40	2.28	1.42	1.55	1.87	1.80	0.92	1.72	1.34
Dissolved Zinc	µg/L	1100	5.0	17.3	<5.0	5.2	<5.0	<5.0	<5.0	<5.0	<5.0

Certified By:

Iris Veraistegui



Certificate of Analysis

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: SH, AH

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

DATE RECEIVED: 2024-02-28

DATE REPORTED: 2024-03-07

SAMPLE DESCRIPTION:				MW111	MW112	MW1101	MW1121
SAMPLE TYPE:				Water	Water	Water	Water
DATE SAMPLED:				2024-02-27 16:10	2024-02-27 15:15	2024-02-27 10:45	2024-02-27 16:50
Parameter	Unit	G / S	RDL	5690111	5690112	5690113	5690114
Dissolved Antimony	µg/L	20000	1.0	<1.0	<1.0	<1.0	<1.0
Dissolved Arsenic	µg/L	1900	1.0	<1.0	<1.0	<1.0	<1.0
Dissolved Barium	µg/L	29000	2.0	85.6	69.4	44.9	86.5
Dissolved Beryllium	µg/L	67	0.50	<0.50	<0.50	<0.50	<0.50
Dissolved Boron	µg/L	45000	10.0	40.9	49.4	52.4	44.3
Dissolved Cadmium	µg/L	2.7	0.20	<0.20	<0.20	<0.20	<0.20
Dissolved Chromium	µg/L	810	2.0	<2.0	<2.0	<2.0	<2.0
Dissolved Cobalt	µg/L	66	0.50	<0.50	<0.50	<0.50	<0.50
Dissolved Copper	µg/L	87	1.0	1.0	1.4	3.3	1.3
Dissolved Lead	µg/L	25	0.50	<0.50	<0.50	<0.50	<0.50
Dissolved Molybdenum	µg/L	9200	0.50	3.50	3.98	6.41	3.26
Dissolved Nickel	µg/L	490	1.0	2.7	1.9	1.9	1.4
Dissolved Selenium	µg/L	63	1.0	<1.0	3.1	<1.0	<1.0
Dissolved Silver	µg/L	1.5	0.20	<0.20	<0.20	<0.20	<0.20
Dissolved Thallium	µg/L	510	0.30	<0.30	<0.30	<0.30	<0.30
Dissolved Uranium	µg/L	420	0.50	9.74	8.01	18.5	4.03
Dissolved Vanadium	µg/L	250	0.40	0.74	1.88	2.54	1.17
Dissolved Zinc	µg/L	1100	5.0	7.3	<5.0	5.7	<5.0

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Non-Potable Ground Water - All Types of Property Uses - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5690099-5690114 Metals analysis completed on a filtered sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Iris Veraestegui

Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: SH, AH

Trace Organics Analysis

RPT Date: Mar 07, 2024			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE				
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

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

F1 (C6 to C10)	5693243		<25	<25	NA	< 25	97%	60%	140%	85%	60%	140%	104%	60%	140%
F2 (C10 to C16)	5690106	5690106	< 100	< 100	NA	< 100	122%	60%	140%	70%	60%	140%	107%	60%	140%
F3 (C16 to C34)	5690106	5690106	< 100	< 100	NA	< 100	121%	60%	140%	68%	60%	140%	64%	60%	140%
F4 (C34 to C50)	5690106	5690106	< 100	< 100	NA	< 100	83%	60%	140%	81%	60%	140%	90%	60%	140%

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

Dichlorodifluoromethane	5693243		<0.40	<0.40	NA	< 0.40	88%	50%	140%	87%	50%	140%	90%	50%	140%
Vinyl Chloride	5693243		<0.17	<0.17	NA	< 0.17	100%	50%	140%	94%	50%	140%	91%	50%	140%
Bromomethane	5693243		<0.20	<0.20	NA	< 0.20	102%	50%	140%	87%	50%	140%	91%	50%	140%
Trichlorofluoromethane	5693243		<0.40	<0.40	NA	< 0.40	94%	50%	140%	90%	50%	140%	95%	50%	140%
Acetone	5693243		<1.0	<1.0	NA	< 1.0	110%	50%	140%	86%	50%	140%	93%	50%	140%

1,1-Dichloroethylene	5693243		<0.30	<0.30	NA	< 0.30	111%	50%	140%	119%	60%	130%	106%	50%	140%
Methylene Chloride	5693243		<0.30	<0.30	NA	< 0.30	110%	50%	140%	117%	60%	130%	105%	50%	140%
trans- 1,2-Dichloroethylene	5693243		<0.20	<0.20	NA	< 0.20	94%	50%	140%	114%	60%	130%	118%	50%	140%
Methyl tert-butyl ether	5693243		<0.20	<0.20	NA	< 0.20	88%	50%	140%	88%	60%	130%	89%	50%	140%
1,1-Dichloroethane	5693243		<0.30	<0.30	NA	< 0.30	96%	50%	140%	111%	60%	130%	106%	50%	140%

Methyl Ethyl Ketone	5693243		<1.0	<1.0	NA	< 1.0	118%	50%	140%	103%	50%	140%	102%	50%	140%
cis- 1,2-Dichloroethylene	5693243		<0.20	<0.20	NA	< 0.20	103%	50%	140%	112%	60%	130%	102%	50%	140%
Chloroform	5693243		<0.20	<0.20	NA	< 0.20	95%	50%	140%	117%	60%	130%	104%	50%	140%
1,2-Dichloroethane	5693243		0.85	0.85	NA	< 0.20	109%	50%	140%	107%	60%	130%	93%	50%	140%
1,1,1-Trichloroethane	5693243		<0.30	<0.30	NA	< 0.30	70%	50%	140%	82%	60%	130%	102%	50%	140%

Carbon Tetrachloride	5693243		<0.20	<0.20	NA	< 0.20	74%	50%	140%	71%	60%	130%	87%	50%	140%
Benzene	5693243		<0.20	<0.20	NA	< 0.20	100%	50%	140%	120%	60%	130%	103%	50%	140%
1,2-Dichloropropane	5693243		<0.20	<0.20	NA	< 0.20	68%	50%	140%	77%	60%	130%	94%	50%	140%
Trichloroethylene	5693243		<0.20	<0.20	NA	< 0.20	99%	50%	140%	118%	60%	130%	101%	50%	140%
Bromodichloromethane	5693243		<0.20	<0.20	NA	< 0.20	86%	50%	140%	101%	60%	130%	105%	50%	140%

Methyl Isobutyl Ketone	5693243		<1.0	<1.0	NA	< 1.0	111%	50%	140%	106%	50%	140%	110%	50%	140%
1,1,2-Trichloroethane	5693243		<0.20	<0.20	NA	< 0.20	80%	50%	140%	84%	60%	130%	97%	50%	140%
Toluene	5693243		<0.20	<0.20	NA	< 0.20	93%	50%	140%	107%	60%	130%	100%	50%	140%
Dibromochloromethane	5693243		<0.10	<0.10	NA	< 0.10	78%	50%	140%	72%	60%	130%	107%	50%	140%
Ethylene Dibromide	5693243		<0.10	<0.10	NA	< 0.10	97%	50%	140%	88%	60%	130%	91%	50%	140%

Tetrachloroethylene	5693243		<0.20	<0.20	NA	< 0.20	93%	50%	140%	110%	60%	130%	97%	50%	140%
1,1,1,2-Tetrachloroethane	5693243		<0.10	<0.10	NA	< 0.10	84%	50%	140%	67%	60%	130%	86%	50%	140%
Chlorobenzene	5693243		<0.10	<0.10	NA	< 0.10	101%	50%	140%	114%	60%	130%	98%	50%	140%
Ethylbenzene	5693243		<0.10	<0.10	NA	< 0.10	78%	50%	140%	76%	60%	130%	94%	50%	140%
m & p-Xylene	5693243		<0.20	<0.20	NA	< 0.20	97%	50%	140%	96%	60%	130%	101%	50%	140%

Bromoform	5693243		<0.10	<0.10	NA	< 0.10	100%	50%	140%	73%	60%	130%	119%	50%	140%
Styrene	5693243		<0.10	<0.10	NA	< 0.10	86%	50%	140%	93%	60%	130%	74%	50%	140%
1,1,2,2-Tetrachloroethane	5693243		<0.10	<0.10	NA	< 0.10	81%	50%	140%	65%	60%	130%	95%	50%	140%
o-Xylene	5693243		<0.10	<0.10	NA	< 0.10	99%	50%	140%	100%	60%	130%	102%	50%	140%

AGAT QUALITY ASSURANCE REPORT (V1)

Page 10 of 43

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

Results relate only to the items tested. Results apply to samples as received.

Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

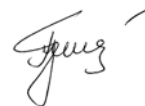
SAMPLED BY: SH, AH

Trace Organics Analysis (Continued)

RPT Date: Mar 07, 2024

RPT Date: Mar 07, 2024			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
1,3-Dichlorobenzene	5693243		<0.10	<0.10	NA	< 0.10	108%	50%	140%	115%	60%	130%	99%	50%	140%
1,4-Dichlorobenzene	5693243		<0.10	<0.10	NA	< 0.10	111%	50%	140%	116%	60%	130%	98%	50%	140%
1,2-Dichlorobenzene	5693243		<0.10	<0.10	NA	< 0.10	109%	50%	140%	108%	60%	130%	99%	50%	140%
n-Hexane	5693243		<0.20	<0.20	NA	< 0.20	85%	50%	140%	101%	60%	130%	113%	50%	140%

Certified By:



Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

PROJECT: CO952.01

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

AGAT WORK ORDER: 24Z124905

ATTENTION TO: Craig Beaton

SAMPLED BY: SH, AH

Water Analysis

RPT Date: Mar 07, 2024

DUPLICATE

REFERENCE MATERIAL

METHOD BLANK SPIKE

MATRIX SPIKE

PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD	Method Blank	Method			Recovery	Acceptable Limits		Recovery	Acceptable Limits	
							Measured Value	Limits			Lower	Upper		Lower	Upper
								Lower	Upper						
O. Reg. 153(511) - Metals (Including Hydrides) (Water)															
Dissolved Antimony	5690099	5690099	<1.0	<1.0	NA	< 1.0	103%	70%	130%	102%	80%	120%	100%	70%	130%
Dissolved Arsenic	5690099	5690099	<1.0	<1.0	NA	< 1.0	101%	70%	130%	99%	80%	120%	104%	70%	130%
Dissolved Barium	5690099	5690099	44.1	45.5	3.1%	< 2.0	101%	70%	130%	101%	80%	120%	99%	70%	130%
Dissolved Beryllium	5690099	5690099	<0.50	<0.50	NA	< 0.50	105%	70%	130%	107%	80%	120%	104%	70%	130%
Dissolved Boron	5690099	5690099	51.3	54.1	5.3%	< 10.0	103%	70%	130%	110%	80%	120%	99%	70%	130%
Dissolved Cadmium	5690099	5690099	<0.20	<0.20	NA	< 0.20	98%	70%	130%	103%	80%	120%	94%	70%	130%
Dissolved Chromium	5690099	5690099	<2.0	<2.0	NA	< 2.0	101%	70%	130%	99%	80%	120%	98%	70%	130%
Dissolved Cobalt	5690099	5690099	<0.50	<0.50	NA	< 0.50	99%	70%	130%	100%	80%	120%	96%	70%	130%
Dissolved Copper	5690099	5690099	3.0	4.4	NA	< 1.0	99%	70%	130%	98%	80%	120%	94%	70%	130%
Dissolved Lead	5690099	5690099	<0.50	<0.50	NA	< 0.50	101%	70%	130%	98%	80%	120%	90%	70%	130%
Dissolved Molybdenum	5690099	5690099	5.49	6.27	13.3%	< 0.50	104%	70%	130%	103%	80%	120%	103%	70%	130%
Dissolved Nickel	5690099	5690099	3.2	3.7	NA	< 1.0	99%	70%	130%	98%	80%	120%	93%	70%	130%
Dissolved Selenium	5690099	5690099	<1.0	<1.0	NA	< 1.0	108%	70%	130%	101%	80%	120%	116%	70%	130%
Dissolved Silver	5690099	5690099	<0.20	<0.20	NA	< 0.20	97%	70%	130%	97%	80%	120%	89%	70%	130%
Dissolved Thallium	5690099	5690099	<0.30	<0.30	NA	< 0.30	103%	70%	130%	100%	80%	120%	97%	70%	130%
Dissolved Uranium	5690099	5690099	18.4	19.1	3.7%	< 0.50	103%	70%	130%	104%	80%	120%	102%	70%	130%
Dissolved Vanadium	5690099	5690099	2.28	2.75	18.7%	< 0.40	101%	70%	130%	103%	80%	120%	102%	70%	130%
Dissolved Zinc	5690099	5690099	17.3	7.8	NA	< 5.0	102%	70%	130%	99%	80%	120%	95%	70%	130%

Comments: NA signifies Not Applicable.

Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:





Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690099	MW101	Water	27-FEB-2024	28-FEB-2024

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	02-MAR-2024	02-MAR-2024	DW
Dissolved Arsenic	02-MAR-2024	02-MAR-2024	DW
Dissolved Barium	02-MAR-2024	02-MAR-2024	DW
Dissolved Beryllium	02-MAR-2024	02-MAR-2024	DW
Dissolved Boron	02-MAR-2024	02-MAR-2024	DW
Dissolved Cadmium	02-MAR-2024	02-MAR-2024	DW
Dissolved Chromium	02-MAR-2024	02-MAR-2024	DW
Dissolved Cobalt	02-MAR-2024	02-MAR-2024	DW
Dissolved Copper	02-MAR-2024	02-MAR-2024	DW
Dissolved Lead	02-MAR-2024	02-MAR-2024	DW
Dissolved Molybdenum	02-MAR-2024	02-MAR-2024	DW
Dissolved Nickel	02-MAR-2024	02-MAR-2024	DW
Dissolved Selenium	02-MAR-2024	02-MAR-2024	DW
Dissolved Silver	02-MAR-2024	02-MAR-2024	DW
Dissolved Thallium	02-MAR-2024	02-MAR-2024	DW
Dissolved Uranium	02-MAR-2024	02-MAR-2024	DW
Dissolved Vanadium	02-MAR-2024	02-MAR-2024	DW
Dissolved Zinc	02-MAR-2024	02-MAR-2024	DW

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	04-MAR-2024	04-MAR-2024	MK
F1 (C6 to C10) minus BTEX	04-MAR-2024	04-MAR-2024	SYS
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-MAR-2024	04-MAR-2024	MK
Vinyl Chloride	04-MAR-2024	04-MAR-2024	MK
Bromomethane	04-MAR-2024	04-MAR-2024	MK
Trichlorofluoromethane	04-MAR-2024	04-MAR-2024	MK
Acetone	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK



Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690099	MW101	Water	27-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	04-MAR-2024	04-MAR-2024	MK
trans- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Methyl tert-butyl ether	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
Methyl Ethyl Ketone	04-MAR-2024	04-MAR-2024	MK
cis- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Chloroform	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
1,1,1-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Carbon Tetrachloride	04-MAR-2024	04-MAR-2024	MK
Benzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloropropane	04-MAR-2024	04-MAR-2024	MK
Trichloroethylene	04-MAR-2024	04-MAR-2024	MK
Bromodichloromethane	04-MAR-2024	04-MAR-2024	MK
Methyl Isobutyl Ketone	04-MAR-2024	04-MAR-2024	MK
1,1,2-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Toluene	04-MAR-2024	04-MAR-2024	MK
Dibromochloromethane	04-MAR-2024	04-MAR-2024	MK
Ethylene Dibromide	04-MAR-2024	04-MAR-2024	MK
Tetrachloroethylene	04-MAR-2024	04-MAR-2024	MK
1,1,1,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
Chlorobenzene	04-MAR-2024	04-MAR-2024	MK
Ethylbenzene	04-MAR-2024	04-MAR-2024	MK
m & p-Xylene	04-MAR-2024	04-MAR-2024	MK
Bromoform	04-MAR-2024	04-MAR-2024	MK
Styrene	04-MAR-2024	04-MAR-2024	MK
1,1,2,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
o-Xylene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,4-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichloropropene	04-MAR-2024	04-MAR-2024	SYS
Xylenes (Total)	04-MAR-2024	04-MAR-2024	SYS
n-Hexane	04-MAR-2024	04-MAR-2024	MK
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
4-Bromofluorobenzene	04-MAR-2024	04-MAR-2024	MK

5690104	MW102	Water	27-FEB-2024	28-FEB-2024
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Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690104	MW102	Water	27-FEB-2024	28-FEB-2024

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	02-MAR-2024	02-MAR-2024	DW
Dissolved Arsenic	02-MAR-2024	02-MAR-2024	DW
Dissolved Barium	02-MAR-2024	02-MAR-2024	DW
Dissolved Beryllium	02-MAR-2024	02-MAR-2024	DW
Dissolved Boron	02-MAR-2024	02-MAR-2024	DW
Dissolved Cadmium	02-MAR-2024	02-MAR-2024	DW
Dissolved Chromium	02-MAR-2024	02-MAR-2024	DW
Dissolved Cobalt	02-MAR-2024	02-MAR-2024	DW
Dissolved Copper	02-MAR-2024	02-MAR-2024	DW
Dissolved Lead	02-MAR-2024	02-MAR-2024	DW
Dissolved Molybdenum	02-MAR-2024	02-MAR-2024	DW
Dissolved Nickel	02-MAR-2024	02-MAR-2024	DW
Dissolved Selenium	02-MAR-2024	02-MAR-2024	DW
Dissolved Silver	02-MAR-2024	02-MAR-2024	DW
Dissolved Thallium	02-MAR-2024	02-MAR-2024	DW
Dissolved Uranium	02-MAR-2024	02-MAR-2024	DW
Dissolved Vanadium	02-MAR-2024	02-MAR-2024	DW
Dissolved Zinc	02-MAR-2024	02-MAR-2024	DW

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	04-MAR-2024	04-MAR-2024	MK
F1 (C6 to C10) minus BTEX	04-MAR-2024	04-MAR-2024	SYS
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-MAR-2024	04-MAR-2024	MK
Vinyl Chloride	04-MAR-2024	04-MAR-2024	MK
Bromomethane	04-MAR-2024	04-MAR-2024	MK
Trichlorofluoromethane	04-MAR-2024	04-MAR-2024	MK
Acetone	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK



Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690104	MW102	Water	27-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	04-MAR-2024	04-MAR-2024	MK
trans- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Methyl tert-butyl ether	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
Methyl Ethyl Ketone	04-MAR-2024	04-MAR-2024	MK
cis- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Chloroform	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
1,1,1-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Carbon Tetrachloride	04-MAR-2024	04-MAR-2024	MK
Benzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloropropane	04-MAR-2024	04-MAR-2024	MK
Trichloroethylene	04-MAR-2024	04-MAR-2024	MK
Bromodichloromethane	04-MAR-2024	04-MAR-2024	MK
Methyl Isobutyl Ketone	04-MAR-2024	04-MAR-2024	MK
1,1,2-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Toluene	04-MAR-2024	04-MAR-2024	MK
Dibromochloromethane	04-MAR-2024	04-MAR-2024	MK
Ethylene Dibromide	04-MAR-2024	04-MAR-2024	MK
Tetrachloroethylene	04-MAR-2024	04-MAR-2024	MK
1,1,1,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
Chlorobenzene	04-MAR-2024	04-MAR-2024	MK
Ethylbenzene	04-MAR-2024	04-MAR-2024	MK
m & p-Xylene	04-MAR-2024	04-MAR-2024	MK
Bromoform	04-MAR-2024	04-MAR-2024	MK
Styrene	04-MAR-2024	04-MAR-2024	MK
1,1,2,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
o-Xylene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,4-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichloropropene	04-MAR-2024	04-MAR-2024	SYS
Xylenes (Total)	04-MAR-2024	04-MAR-2024	SYS
n-Hexane	04-MAR-2024	04-MAR-2024	MK
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
4-Bromofluorobenzene	04-MAR-2024	04-MAR-2024	MK

5690105	MW103	Water	27-FEB-2024	28-FEB-2024
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AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690105	MW103	Water	27-FEB-2024	28-FEB-2024

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	02-MAR-2024	02-MAR-2024	DW
Dissolved Arsenic	02-MAR-2024	02-MAR-2024	DW
Dissolved Barium	02-MAR-2024	02-MAR-2024	DW
Dissolved Beryllium	02-MAR-2024	02-MAR-2024	DW
Dissolved Boron	02-MAR-2024	02-MAR-2024	DW
Dissolved Cadmium	02-MAR-2024	02-MAR-2024	DW
Dissolved Chromium	02-MAR-2024	02-MAR-2024	DW
Dissolved Cobalt	02-MAR-2024	02-MAR-2024	DW
Dissolved Copper	02-MAR-2024	02-MAR-2024	DW
Dissolved Lead	02-MAR-2024	02-MAR-2024	DW
Dissolved Molybdenum	02-MAR-2024	02-MAR-2024	DW
Dissolved Nickel	02-MAR-2024	02-MAR-2024	DW
Dissolved Selenium	02-MAR-2024	02-MAR-2024	DW
Dissolved Silver	02-MAR-2024	02-MAR-2024	DW
Dissolved Thallium	02-MAR-2024	02-MAR-2024	DW
Dissolved Uranium	02-MAR-2024	02-MAR-2024	DW
Dissolved Vanadium	02-MAR-2024	02-MAR-2024	DW
Dissolved Zinc	02-MAR-2024	02-MAR-2024	DW

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	04-MAR-2024	04-MAR-2024	MK
F1 (C6 to C10) minus BTEX	04-MAR-2024	04-MAR-2024	SYS
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-MAR-2024	04-MAR-2024	MK
Vinyl Chloride	04-MAR-2024	04-MAR-2024	MK
Bromomethane	04-MAR-2024	04-MAR-2024	MK
Trichlorofluoromethane	04-MAR-2024	04-MAR-2024	MK
Acetone	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK



Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690105	MW103	Water	27-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	04-MAR-2024	04-MAR-2024	MK
trans- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Methyl tert-butyl ether	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
Methyl Ethyl Ketone	04-MAR-2024	04-MAR-2024	MK
cis- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Chloroform	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
1,1,1-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Carbon Tetrachloride	04-MAR-2024	04-MAR-2024	MK
Benzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloropropane	04-MAR-2024	04-MAR-2024	MK
Trichloroethylene	04-MAR-2024	04-MAR-2024	MK
Bromodichloromethane	04-MAR-2024	04-MAR-2024	MK
Methyl Isobutyl Ketone	04-MAR-2024	04-MAR-2024	MK
1,1,2-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Toluene	04-MAR-2024	04-MAR-2024	MK
Dibromochloromethane	04-MAR-2024	04-MAR-2024	MK
Ethylene Dibromide	04-MAR-2024	04-MAR-2024	MK
Tetrachloroethylene	04-MAR-2024	04-MAR-2024	MK
1,1,1,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
Chlorobenzene	04-MAR-2024	04-MAR-2024	MK
Ethylbenzene	04-MAR-2024	04-MAR-2024	MK
m & p-Xylene	04-MAR-2024	04-MAR-2024	MK
Bromoform	04-MAR-2024	04-MAR-2024	MK
Styrene	04-MAR-2024	04-MAR-2024	MK
1,1,2,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
o-Xylene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,4-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichloropropene	04-MAR-2024	04-MAR-2024	SYS
Xylenes (Total)	04-MAR-2024	04-MAR-2024	SYS
n-Hexane	04-MAR-2024	04-MAR-2024	MK
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
4-Bromofluorobenzene	04-MAR-2024	04-MAR-2024	MK

5690106	MW104	Water	27-FEB-2024	28-FEB-2024
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Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690106	MW104	Water	27-FEB-2024	28-FEB-2024

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	02-MAR-2024	02-MAR-2024	DW
Dissolved Arsenic	02-MAR-2024	02-MAR-2024	DW
Dissolved Barium	02-MAR-2024	02-MAR-2024	DW
Dissolved Beryllium	02-MAR-2024	02-MAR-2024	DW
Dissolved Boron	02-MAR-2024	02-MAR-2024	DW
Dissolved Cadmium	02-MAR-2024	02-MAR-2024	DW
Dissolved Chromium	02-MAR-2024	02-MAR-2024	DW
Dissolved Cobalt	02-MAR-2024	02-MAR-2024	DW
Dissolved Copper	02-MAR-2024	02-MAR-2024	DW
Dissolved Lead	02-MAR-2024	02-MAR-2024	DW
Dissolved Molybdenum	02-MAR-2024	02-MAR-2024	DW
Dissolved Nickel	02-MAR-2024	02-MAR-2024	DW
Dissolved Selenium	02-MAR-2024	02-MAR-2024	DW
Dissolved Silver	02-MAR-2024	02-MAR-2024	DW
Dissolved Thallium	02-MAR-2024	02-MAR-2024	DW
Dissolved Uranium	02-MAR-2024	02-MAR-2024	DW
Dissolved Vanadium	02-MAR-2024	02-MAR-2024	DW
Dissolved Zinc	02-MAR-2024	02-MAR-2024	DW

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	04-MAR-2024	04-MAR-2024	MK
F1 (C6 to C10) minus BTEX	04-MAR-2024	04-MAR-2024	SYS
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-MAR-2024	04-MAR-2024	MK
Vinyl Chloride	04-MAR-2024	04-MAR-2024	MK
Bromomethane	04-MAR-2024	04-MAR-2024	MK
Trichlorofluoromethane	04-MAR-2024	04-MAR-2024	MK
Acetone	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK



Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690106	MW104	Water	27-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	04-MAR-2024	04-MAR-2024	MK
trans- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Methyl tert-butyl ether	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
Methyl Ethyl Ketone	04-MAR-2024	04-MAR-2024	MK
cis- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Chloroform	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
1,1,1-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Carbon Tetrachloride	04-MAR-2024	04-MAR-2024	MK
Benzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloropropane	04-MAR-2024	04-MAR-2024	MK
Trichloroethylene	04-MAR-2024	04-MAR-2024	MK
Bromodichloromethane	04-MAR-2024	04-MAR-2024	MK
Methyl Isobutyl Ketone	04-MAR-2024	04-MAR-2024	MK
1,1,2-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Toluene	04-MAR-2024	04-MAR-2024	MK
Dibromochloromethane	04-MAR-2024	04-MAR-2024	MK
Ethylene Dibromide	04-MAR-2024	04-MAR-2024	MK
Tetrachloroethylene	04-MAR-2024	04-MAR-2024	MK
1,1,1,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
Chlorobenzene	04-MAR-2024	04-MAR-2024	MK
Ethylbenzene	04-MAR-2024	04-MAR-2024	MK
m & p-Xylene	04-MAR-2024	04-MAR-2024	MK
Bromoform	04-MAR-2024	04-MAR-2024	MK
Styrene	04-MAR-2024	04-MAR-2024	MK
1,1,2,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
o-Xylene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,4-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichloropropene	04-MAR-2024	04-MAR-2024	SYS
Xylenes (Total)	04-MAR-2024	04-MAR-2024	SYS
n-Hexane	04-MAR-2024	04-MAR-2024	MK
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
4-Bromofluorobenzene	04-MAR-2024	04-MAR-2024	MK

5690107	MW105	Water	27-FEB-2024	28-FEB-2024
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AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690107	MW105	Water	27-FEB-2024	28-FEB-2024

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	02-MAR-2024	02-MAR-2024	DW
Dissolved Arsenic	02-MAR-2024	02-MAR-2024	DW
Dissolved Barium	02-MAR-2024	02-MAR-2024	DW
Dissolved Beryllium	02-MAR-2024	02-MAR-2024	DW
Dissolved Boron	02-MAR-2024	02-MAR-2024	DW
Dissolved Cadmium	02-MAR-2024	02-MAR-2024	DW
Dissolved Chromium	02-MAR-2024	02-MAR-2024	DW
Dissolved Cobalt	02-MAR-2024	02-MAR-2024	DW
Dissolved Copper	02-MAR-2024	02-MAR-2024	DW
Dissolved Lead	02-MAR-2024	02-MAR-2024	DW
Dissolved Molybdenum	02-MAR-2024	02-MAR-2024	DW
Dissolved Nickel	02-MAR-2024	02-MAR-2024	DW
Dissolved Selenium	02-MAR-2024	02-MAR-2024	DW
Dissolved Silver	02-MAR-2024	02-MAR-2024	DW
Dissolved Thallium	02-MAR-2024	02-MAR-2024	DW
Dissolved Uranium	02-MAR-2024	02-MAR-2024	DW
Dissolved Vanadium	02-MAR-2024	02-MAR-2024	DW
Dissolved Zinc	02-MAR-2024	02-MAR-2024	DW

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	04-MAR-2024	04-MAR-2024	MK
F1 (C6 to C10) minus BTEX	04-MAR-2024	04-MAR-2024	SYS
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-MAR-2024	04-MAR-2024	MK
Vinyl Chloride	04-MAR-2024	04-MAR-2024	MK
Bromomethane	04-MAR-2024	04-MAR-2024	MK
Trichlorofluoromethane	04-MAR-2024	04-MAR-2024	MK
Acetone	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK



Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690107	MW105	Water	27-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	04-MAR-2024	04-MAR-2024	MK
trans- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Methyl tert-butyl ether	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
Methyl Ethyl Ketone	04-MAR-2024	04-MAR-2024	MK
cis- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Chloroform	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
1,1,1-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Carbon Tetrachloride	04-MAR-2024	04-MAR-2024	MK
Benzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloropropane	04-MAR-2024	04-MAR-2024	MK
Trichloroethylene	04-MAR-2024	04-MAR-2024	MK
Bromodichloromethane	04-MAR-2024	04-MAR-2024	MK
Methyl Isobutyl Ketone	04-MAR-2024	04-MAR-2024	MK
1,1,2-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Toluene	04-MAR-2024	04-MAR-2024	MK
Dibromochloromethane	04-MAR-2024	04-MAR-2024	MK
Ethylene Dibromide	04-MAR-2024	04-MAR-2024	MK
Tetrachloroethylene	04-MAR-2024	04-MAR-2024	MK
1,1,1,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
Chlorobenzene	04-MAR-2024	04-MAR-2024	MK
Ethylbenzene	04-MAR-2024	04-MAR-2024	MK
m & p-Xylene	04-MAR-2024	04-MAR-2024	MK
Bromoform	04-MAR-2024	04-MAR-2024	MK
Styrene	04-MAR-2024	04-MAR-2024	MK
1,1,2,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
o-Xylene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,4-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichloropropene	04-MAR-2024	04-MAR-2024	SYS
Xylenes (Total)	04-MAR-2024	04-MAR-2024	SYS
n-Hexane	04-MAR-2024	04-MAR-2024	MK
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
4-Bromofluorobenzene	04-MAR-2024	04-MAR-2024	MK

5690108	MW106	Water	27-FEB-2024	28-FEB-2024
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Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690108	MW106	Water	27-FEB-2024	28-FEB-2024

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	02-MAR-2024	02-MAR-2024	DW
Dissolved Arsenic	02-MAR-2024	02-MAR-2024	DW
Dissolved Barium	02-MAR-2024	02-MAR-2024	DW
Dissolved Beryllium	02-MAR-2024	02-MAR-2024	DW
Dissolved Boron	02-MAR-2024	02-MAR-2024	DW
Dissolved Cadmium	02-MAR-2024	02-MAR-2024	DW
Dissolved Chromium	02-MAR-2024	02-MAR-2024	DW
Dissolved Cobalt	02-MAR-2024	02-MAR-2024	DW
Dissolved Copper	02-MAR-2024	02-MAR-2024	DW
Dissolved Lead	02-MAR-2024	02-MAR-2024	DW
Dissolved Molybdenum	02-MAR-2024	02-MAR-2024	DW
Dissolved Nickel	02-MAR-2024	02-MAR-2024	DW
Dissolved Selenium	02-MAR-2024	02-MAR-2024	DW
Dissolved Silver	02-MAR-2024	02-MAR-2024	DW
Dissolved Thallium	02-MAR-2024	02-MAR-2024	DW
Dissolved Uranium	02-MAR-2024	02-MAR-2024	DW
Dissolved Vanadium	02-MAR-2024	02-MAR-2024	DW
Dissolved Zinc	02-MAR-2024	02-MAR-2024	DW

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	04-MAR-2024	04-MAR-2024	MK
F1 (C6 to C10) minus BTEX	04-MAR-2024	04-MAR-2024	SYS
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-MAR-2024	04-MAR-2024	MK
Vinyl Chloride	04-MAR-2024	04-MAR-2024	MK
Bromomethane	04-MAR-2024	04-MAR-2024	MK
Trichlorofluoromethane	04-MAR-2024	04-MAR-2024	MK
Acetone	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK



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AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690108	MW106	Water	27-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	04-MAR-2024	04-MAR-2024	MK
trans- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Methyl tert-butyl ether	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
Methyl Ethyl Ketone	04-MAR-2024	04-MAR-2024	MK
cis- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Chloroform	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
1,1,1-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Carbon Tetrachloride	04-MAR-2024	04-MAR-2024	MK
Benzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloropropane	04-MAR-2024	04-MAR-2024	MK
Trichloroethylene	04-MAR-2024	04-MAR-2024	MK
Bromodichloromethane	04-MAR-2024	04-MAR-2024	MK
Methyl Isobutyl Ketone	04-MAR-2024	04-MAR-2024	MK
1,1,2-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Toluene	04-MAR-2024	04-MAR-2024	MK
Dibromochloromethane	04-MAR-2024	04-MAR-2024	MK
Ethylene Dibromide	04-MAR-2024	04-MAR-2024	MK
Tetrachloroethylene	04-MAR-2024	04-MAR-2024	MK
1,1,1,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
Chlorobenzene	04-MAR-2024	04-MAR-2024	MK
Ethylbenzene	04-MAR-2024	04-MAR-2024	MK
m & p-Xylene	04-MAR-2024	04-MAR-2024	MK
Bromoform	04-MAR-2024	04-MAR-2024	MK
Styrene	04-MAR-2024	04-MAR-2024	MK
1,1,2,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
o-Xylene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,4-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichloropropene	04-MAR-2024	04-MAR-2024	SYS
Xylenes (Total)	04-MAR-2024	04-MAR-2024	SYS
n-Hexane	04-MAR-2024	04-MAR-2024	MK
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
4-Bromofluorobenzene	04-MAR-2024	04-MAR-2024	MK

5690109	MW108	Water	27-FEB-2024	28-FEB-2024
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AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690109	MW108	Water	27-FEB-2024	28-FEB-2024

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	02-MAR-2024	02-MAR-2024	DW
Dissolved Arsenic	02-MAR-2024	02-MAR-2024	DW
Dissolved Barium	02-MAR-2024	02-MAR-2024	DW
Dissolved Beryllium	02-MAR-2024	02-MAR-2024	DW
Dissolved Boron	02-MAR-2024	02-MAR-2024	DW
Dissolved Cadmium	02-MAR-2024	02-MAR-2024	DW
Dissolved Chromium	02-MAR-2024	02-MAR-2024	DW
Dissolved Cobalt	02-MAR-2024	02-MAR-2024	DW
Dissolved Copper	02-MAR-2024	02-MAR-2024	DW
Dissolved Lead	02-MAR-2024	02-MAR-2024	DW
Dissolved Molybdenum	02-MAR-2024	02-MAR-2024	DW
Dissolved Nickel	02-MAR-2024	02-MAR-2024	DW
Dissolved Selenium	02-MAR-2024	02-MAR-2024	DW
Dissolved Silver	02-MAR-2024	02-MAR-2024	DW
Dissolved Thallium	02-MAR-2024	02-MAR-2024	DW
Dissolved Uranium	02-MAR-2024	02-MAR-2024	DW
Dissolved Vanadium	02-MAR-2024	02-MAR-2024	DW
Dissolved Zinc	02-MAR-2024	02-MAR-2024	DW

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	04-MAR-2024	04-MAR-2024	MK
F1 (C6 to C10) minus BTEX	04-MAR-2024	04-MAR-2024	SYS
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-MAR-2024	04-MAR-2024	MK
Vinyl Chloride	04-MAR-2024	04-MAR-2024	MK
Bromomethane	04-MAR-2024	04-MAR-2024	MK
Trichlorofluoromethane	04-MAR-2024	04-MAR-2024	MK
Acetone	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK



Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690109	MW108	Water	27-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	04-MAR-2024	04-MAR-2024	MK
trans- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Methyl tert-butyl ether	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
Methyl Ethyl Ketone	04-MAR-2024	04-MAR-2024	MK
cis- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Chloroform	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
1,1,1-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Carbon Tetrachloride	04-MAR-2024	04-MAR-2024	MK
Benzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloropropane	04-MAR-2024	04-MAR-2024	MK
Trichloroethylene	04-MAR-2024	04-MAR-2024	MK
Bromodichloromethane	04-MAR-2024	04-MAR-2024	MK
Methyl Isobutyl Ketone	04-MAR-2024	04-MAR-2024	MK
1,1,2-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Toluene	04-MAR-2024	04-MAR-2024	MK
Dibromochloromethane	04-MAR-2024	04-MAR-2024	MK
Ethylene Dibromide	04-MAR-2024	04-MAR-2024	MK
Tetrachloroethylene	04-MAR-2024	04-MAR-2024	MK
1,1,1,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
Chlorobenzene	04-MAR-2024	04-MAR-2024	MK
Ethylbenzene	04-MAR-2024	04-MAR-2024	MK
m & p-Xylene	04-MAR-2024	04-MAR-2024	MK
Bromoform	04-MAR-2024	04-MAR-2024	MK
Styrene	04-MAR-2024	04-MAR-2024	MK
1,1,2,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
o-Xylene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,4-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichloropropene	04-MAR-2024	04-MAR-2024	SYS
Xylenes (Total)	04-MAR-2024	04-MAR-2024	SYS
n-Hexane	04-MAR-2024	04-MAR-2024	MK
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
4-Bromofluorobenzene	04-MAR-2024	04-MAR-2024	MK

5690110	MW110	Water	27-FEB-2024	28-FEB-2024
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AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690110	MW110	Water	27-FEB-2024	28-FEB-2024

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	02-MAR-2024	02-MAR-2024	DW
Dissolved Arsenic	02-MAR-2024	02-MAR-2024	DW
Dissolved Barium	02-MAR-2024	02-MAR-2024	DW
Dissolved Beryllium	02-MAR-2024	02-MAR-2024	DW
Dissolved Boron	02-MAR-2024	02-MAR-2024	DW
Dissolved Cadmium	02-MAR-2024	02-MAR-2024	DW
Dissolved Chromium	02-MAR-2024	02-MAR-2024	DW
Dissolved Cobalt	02-MAR-2024	02-MAR-2024	DW
Dissolved Copper	02-MAR-2024	02-MAR-2024	DW
Dissolved Lead	02-MAR-2024	02-MAR-2024	DW
Dissolved Molybdenum	02-MAR-2024	02-MAR-2024	DW
Dissolved Nickel	02-MAR-2024	02-MAR-2024	DW
Dissolved Selenium	02-MAR-2024	02-MAR-2024	DW
Dissolved Silver	02-MAR-2024	02-MAR-2024	DW
Dissolved Thallium	02-MAR-2024	02-MAR-2024	DW
Dissolved Uranium	02-MAR-2024	02-MAR-2024	DW
Dissolved Vanadium	02-MAR-2024	02-MAR-2024	DW
Dissolved Zinc	02-MAR-2024	02-MAR-2024	DW

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	04-MAR-2024	04-MAR-2024	MK
F1 (C6 to C10) minus BTEX	04-MAR-2024	04-MAR-2024	SYS
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-MAR-2024	04-MAR-2024	MK
Vinyl Chloride	04-MAR-2024	04-MAR-2024	MK
Bromomethane	04-MAR-2024	04-MAR-2024	MK
Trichlorofluoromethane	04-MAR-2024	04-MAR-2024	MK
Acetone	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK



Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690110	MW110	Water	27-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	04-MAR-2024	04-MAR-2024	MK
trans- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Methyl tert-butyl ether	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
Methyl Ethyl Ketone	04-MAR-2024	04-MAR-2024	MK
cis- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Chloroform	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
1,1,1-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Carbon Tetrachloride	04-MAR-2024	04-MAR-2024	MK
Benzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloropropane	04-MAR-2024	04-MAR-2024	MK
Trichloroethylene	04-MAR-2024	04-MAR-2024	MK
Bromodichloromethane	04-MAR-2024	04-MAR-2024	MK
Methyl Isobutyl Ketone	04-MAR-2024	04-MAR-2024	MK
1,1,2-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Toluene	04-MAR-2024	04-MAR-2024	MK
Dibromochloromethane	04-MAR-2024	04-MAR-2024	MK
Ethylene Dibromide	04-MAR-2024	04-MAR-2024	MK
Tetrachloroethylene	04-MAR-2024	04-MAR-2024	MK
1,1,1,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
Chlorobenzene	04-MAR-2024	04-MAR-2024	MK
Ethylbenzene	04-MAR-2024	04-MAR-2024	MK
m & p-Xylene	04-MAR-2024	04-MAR-2024	MK
Bromoform	04-MAR-2024	04-MAR-2024	MK
Styrene	04-MAR-2024	04-MAR-2024	MK
1,1,2,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
o-Xylene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,4-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichloropropene	04-MAR-2024	04-MAR-2024	SYS
Xylenes (Total)	04-MAR-2024	04-MAR-2024	SYS
n-Hexane	04-MAR-2024	04-MAR-2024	MK
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
4-Bromofluorobenzene	04-MAR-2024	04-MAR-2024	MK

5690111	MW111	Water	27-FEB-2024	28-FEB-2024
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AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690111	MW111	Water	27-FEB-2024	28-FEB-2024

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	02-MAR-2024	02-MAR-2024	DW
Dissolved Arsenic	02-MAR-2024	02-MAR-2024	DW
Dissolved Barium	02-MAR-2024	02-MAR-2024	DW
Dissolved Beryllium	02-MAR-2024	02-MAR-2024	DW
Dissolved Boron	02-MAR-2024	02-MAR-2024	DW
Dissolved Cadmium	02-MAR-2024	02-MAR-2024	DW
Dissolved Chromium	02-MAR-2024	02-MAR-2024	DW
Dissolved Cobalt	02-MAR-2024	02-MAR-2024	DW
Dissolved Copper	02-MAR-2024	02-MAR-2024	DW
Dissolved Lead	02-MAR-2024	02-MAR-2024	DW
Dissolved Molybdenum	02-MAR-2024	02-MAR-2024	DW
Dissolved Nickel	02-MAR-2024	02-MAR-2024	DW
Dissolved Selenium	02-MAR-2024	02-MAR-2024	DW
Dissolved Silver	02-MAR-2024	02-MAR-2024	DW
Dissolved Thallium	02-MAR-2024	02-MAR-2024	DW
Dissolved Uranium	02-MAR-2024	02-MAR-2024	DW
Dissolved Vanadium	02-MAR-2024	02-MAR-2024	DW
Dissolved Zinc	02-MAR-2024	02-MAR-2024	DW

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	04-MAR-2024	04-MAR-2024	MK
F1 (C6 to C10) minus BTEX	04-MAR-2024	04-MAR-2024	SYS
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-MAR-2024	04-MAR-2024	MK
Vinyl Chloride	04-MAR-2024	04-MAR-2024	MK
Bromomethane	04-MAR-2024	04-MAR-2024	MK
Trichlorofluoromethane	04-MAR-2024	04-MAR-2024	MK
Acetone	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK



Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690111	MW111	Water	27-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	04-MAR-2024	04-MAR-2024	MK
trans- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Methyl tert-butyl ether	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
Methyl Ethyl Ketone	04-MAR-2024	04-MAR-2024	MK
cis- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Chloroform	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
1,1,1-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Carbon Tetrachloride	04-MAR-2024	04-MAR-2024	MK
Benzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloropropane	04-MAR-2024	04-MAR-2024	MK
Trichloroethylene	04-MAR-2024	04-MAR-2024	MK
Bromodichloromethane	04-MAR-2024	04-MAR-2024	MK
Methyl Isobutyl Ketone	04-MAR-2024	04-MAR-2024	MK
1,1,2-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Toluene	04-MAR-2024	04-MAR-2024	MK
Dibromochloromethane	04-MAR-2024	04-MAR-2024	MK
Ethylene Dibromide	04-MAR-2024	04-MAR-2024	MK
Tetrachloroethylene	04-MAR-2024	04-MAR-2024	MK
1,1,1,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
Chlorobenzene	04-MAR-2024	04-MAR-2024	MK
Ethylbenzene	04-MAR-2024	04-MAR-2024	MK
m & p-Xylene	04-MAR-2024	04-MAR-2024	MK
Bromoform	04-MAR-2024	04-MAR-2024	MK
Styrene	04-MAR-2024	04-MAR-2024	MK
1,1,2,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
o-Xylene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,4-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichloropropene	04-MAR-2024	04-MAR-2024	SYS
Xylenes (Total)	04-MAR-2024	04-MAR-2024	SYS
n-Hexane	04-MAR-2024	04-MAR-2024	MK
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
4-Bromofluorobenzene	04-MAR-2024	04-MAR-2024	MK

5690112	MW112	Water	27-FEB-2024	28-FEB-2024
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AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690112	MW112	Water	27-FEB-2024	28-FEB-2024

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	02-MAR-2024	02-MAR-2024	DW
Dissolved Arsenic	02-MAR-2024	02-MAR-2024	DW
Dissolved Barium	02-MAR-2024	02-MAR-2024	DW
Dissolved Beryllium	02-MAR-2024	02-MAR-2024	DW
Dissolved Boron	02-MAR-2024	02-MAR-2024	DW
Dissolved Cadmium	02-MAR-2024	02-MAR-2024	DW
Dissolved Chromium	02-MAR-2024	02-MAR-2024	DW
Dissolved Cobalt	02-MAR-2024	02-MAR-2024	DW
Dissolved Copper	02-MAR-2024	02-MAR-2024	DW
Dissolved Lead	02-MAR-2024	02-MAR-2024	DW
Dissolved Molybdenum	02-MAR-2024	02-MAR-2024	DW
Dissolved Nickel	02-MAR-2024	02-MAR-2024	DW
Dissolved Selenium	02-MAR-2024	02-MAR-2024	DW
Dissolved Silver	02-MAR-2024	02-MAR-2024	DW
Dissolved Thallium	02-MAR-2024	02-MAR-2024	DW
Dissolved Uranium	02-MAR-2024	02-MAR-2024	DW
Dissolved Vanadium	02-MAR-2024	02-MAR-2024	DW
Dissolved Zinc	02-MAR-2024	02-MAR-2024	DW

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	04-MAR-2024	04-MAR-2024	MK
F1 (C6 to C10) minus BTEX	04-MAR-2024	04-MAR-2024	SYS
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-MAR-2024	04-MAR-2024	MK
Vinyl Chloride	04-MAR-2024	04-MAR-2024	MK
Bromomethane	04-MAR-2024	04-MAR-2024	MK
Trichlorofluoromethane	04-MAR-2024	04-MAR-2024	MK
Acetone	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK



Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690112	MW112	Water	27-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	04-MAR-2024	04-MAR-2024	MK
trans- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Methyl tert-butyl ether	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
Methyl Ethyl Ketone	04-MAR-2024	04-MAR-2024	MK
cis- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Chloroform	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
1,1,1-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Carbon Tetrachloride	04-MAR-2024	04-MAR-2024	MK
Benzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloropropane	04-MAR-2024	04-MAR-2024	MK
Trichloroethylene	04-MAR-2024	04-MAR-2024	MK
Bromodichloromethane	04-MAR-2024	04-MAR-2024	MK
Methyl Isobutyl Ketone	04-MAR-2024	04-MAR-2024	MK
1,1,2-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Toluene	04-MAR-2024	04-MAR-2024	MK
Dibromochloromethane	04-MAR-2024	04-MAR-2024	MK
Ethylene Dibromide	04-MAR-2024	04-MAR-2024	MK
Tetrachloroethylene	04-MAR-2024	04-MAR-2024	MK
1,1,1,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
Chlorobenzene	04-MAR-2024	04-MAR-2024	MK
Ethylbenzene	04-MAR-2024	04-MAR-2024	MK
m & p-Xylene	04-MAR-2024	04-MAR-2024	MK
Bromoform	04-MAR-2024	04-MAR-2024	MK
Styrene	04-MAR-2024	04-MAR-2024	MK
1,1,2,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
o-Xylene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,4-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichloropropene	04-MAR-2024	04-MAR-2024	SYS
Xylenes (Total)	04-MAR-2024	04-MAR-2024	SYS
n-Hexane	04-MAR-2024	04-MAR-2024	MK
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
4-Bromofluorobenzene	04-MAR-2024	04-MAR-2024	MK

5690113	MW1101	Water	27-FEB-2024	28-FEB-2024
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AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690113	MW1101	Water	27-FEB-2024	28-FEB-2024

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	02-MAR-2024	02-MAR-2024	DW
Dissolved Arsenic	02-MAR-2024	02-MAR-2024	DW
Dissolved Barium	02-MAR-2024	02-MAR-2024	DW
Dissolved Beryllium	02-MAR-2024	02-MAR-2024	DW
Dissolved Boron	02-MAR-2024	02-MAR-2024	DW
Dissolved Cadmium	02-MAR-2024	02-MAR-2024	DW
Dissolved Chromium	02-MAR-2024	02-MAR-2024	DW
Dissolved Cobalt	02-MAR-2024	02-MAR-2024	DW
Dissolved Copper	02-MAR-2024	02-MAR-2024	DW
Dissolved Lead	02-MAR-2024	02-MAR-2024	DW
Dissolved Molybdenum	02-MAR-2024	02-MAR-2024	DW
Dissolved Nickel	02-MAR-2024	02-MAR-2024	DW
Dissolved Selenium	02-MAR-2024	02-MAR-2024	DW
Dissolved Silver	02-MAR-2024	02-MAR-2024	DW
Dissolved Thallium	02-MAR-2024	02-MAR-2024	DW
Dissolved Uranium	02-MAR-2024	02-MAR-2024	DW
Dissolved Vanadium	02-MAR-2024	02-MAR-2024	DW
Dissolved Zinc	02-MAR-2024	02-MAR-2024	DW

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	04-MAR-2024	04-MAR-2024	MK
F1 (C6 to C10) minus BTEX	04-MAR-2024	04-MAR-2024	SYS
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-MAR-2024	04-MAR-2024	MK
Vinyl Chloride	04-MAR-2024	04-MAR-2024	MK
Bromomethane	04-MAR-2024	04-MAR-2024	MK
Trichlorofluoromethane	04-MAR-2024	04-MAR-2024	MK
Acetone	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK



Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690113	MW1101	Water	27-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	04-MAR-2024	04-MAR-2024	MK
trans- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Methyl tert-butyl ether	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
Methyl Ethyl Ketone	04-MAR-2024	04-MAR-2024	MK
cis- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Chloroform	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
1,1,1-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Carbon Tetrachloride	04-MAR-2024	04-MAR-2024	MK
Benzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloropropane	04-MAR-2024	04-MAR-2024	MK
Trichloroethylene	04-MAR-2024	04-MAR-2024	MK
Bromodichloromethane	04-MAR-2024	04-MAR-2024	MK
Methyl Isobutyl Ketone	04-MAR-2024	04-MAR-2024	MK
1,1,2-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Toluene	04-MAR-2024	04-MAR-2024	MK
Dibromochloromethane	04-MAR-2024	04-MAR-2024	MK
Ethylene Dibromide	04-MAR-2024	04-MAR-2024	MK
Tetrachloroethylene	04-MAR-2024	04-MAR-2024	MK
1,1,1,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
Chlorobenzene	04-MAR-2024	04-MAR-2024	MK
Ethylbenzene	04-MAR-2024	04-MAR-2024	MK
m & p-Xylene	04-MAR-2024	04-MAR-2024	MK
Bromoform	04-MAR-2024	04-MAR-2024	MK
Styrene	04-MAR-2024	04-MAR-2024	MK
1,1,2,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
o-Xylene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,4-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichloropropene	04-MAR-2024	04-MAR-2024	SYS
Xylenes (Total)	04-MAR-2024	04-MAR-2024	SYS
n-Hexane	04-MAR-2024	04-MAR-2024	MK
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
4-Bromofluorobenzene	04-MAR-2024	04-MAR-2024	MK

5690114	MW1121	Water	27-FEB-2024	28-FEB-2024
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Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690114	MW1121	Water	27-FEB-2024	28-FEB-2024

O. Reg. 153(511) - Metals (Including Hydrides) (Water)

Parameter	Date Prepared	Date Analyzed	Initials
Dissolved Antimony	02-MAR-2024	02-MAR-2024	DW
Dissolved Arsenic	02-MAR-2024	02-MAR-2024	DW
Dissolved Barium	02-MAR-2024	02-MAR-2024	DW
Dissolved Beryllium	02-MAR-2024	02-MAR-2024	DW
Dissolved Boron	02-MAR-2024	02-MAR-2024	DW
Dissolved Cadmium	02-MAR-2024	02-MAR-2024	DW
Dissolved Chromium	02-MAR-2024	02-MAR-2024	DW
Dissolved Cobalt	02-MAR-2024	02-MAR-2024	DW
Dissolved Copper	02-MAR-2024	02-MAR-2024	DW
Dissolved Lead	02-MAR-2024	02-MAR-2024	DW
Dissolved Molybdenum	02-MAR-2024	02-MAR-2024	DW
Dissolved Nickel	02-MAR-2024	02-MAR-2024	DW
Dissolved Selenium	02-MAR-2024	02-MAR-2024	DW
Dissolved Silver	02-MAR-2024	02-MAR-2024	DW
Dissolved Thallium	02-MAR-2024	02-MAR-2024	DW
Dissolved Uranium	02-MAR-2024	02-MAR-2024	DW
Dissolved Vanadium	02-MAR-2024	02-MAR-2024	DW
Dissolved Zinc	02-MAR-2024	02-MAR-2024	DW

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	04-MAR-2024	04-MAR-2024	MK
F1 (C6 to C10) minus BTEX	04-MAR-2024	04-MAR-2024	SYS
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	04-MAR-2024	04-MAR-2024	MK
Vinyl Chloride	04-MAR-2024	04-MAR-2024	MK
Bromomethane	04-MAR-2024	04-MAR-2024	MK
Trichlorofluoromethane	04-MAR-2024	04-MAR-2024	MK
Acetone	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK



Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690114	MW1121	Water	27-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Methylene Chloride	04-MAR-2024	04-MAR-2024	MK
trans- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Methyl tert-butyl ether	04-MAR-2024	04-MAR-2024	MK
1,1-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
Methyl Ethyl Ketone	04-MAR-2024	04-MAR-2024	MK
cis- 1,2-Dichloroethylene	04-MAR-2024	04-MAR-2024	MK
Chloroform	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloroethane	04-MAR-2024	04-MAR-2024	MK
1,1,1-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Carbon Tetrachloride	04-MAR-2024	04-MAR-2024	MK
Benzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichloropropane	04-MAR-2024	04-MAR-2024	MK
Trichloroethylene	04-MAR-2024	04-MAR-2024	MK
Bromodichloromethane	04-MAR-2024	04-MAR-2024	MK
Methyl Isobutyl Ketone	04-MAR-2024	04-MAR-2024	MK
1,1,2-Trichloroethane	04-MAR-2024	04-MAR-2024	MK
Toluene	04-MAR-2024	04-MAR-2024	MK
Dibromochloromethane	04-MAR-2024	04-MAR-2024	MK
Ethylene Dibromide	04-MAR-2024	04-MAR-2024	MK
Tetrachloroethylene	04-MAR-2024	04-MAR-2024	MK
1,1,1,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
Chlorobenzene	04-MAR-2024	04-MAR-2024	MK
Ethylbenzene	04-MAR-2024	04-MAR-2024	MK
m & p-Xylene	04-MAR-2024	04-MAR-2024	MK
Bromoform	04-MAR-2024	04-MAR-2024	MK
Styrene	04-MAR-2024	04-MAR-2024	MK
1,1,2,2-Tetrachloroethane	04-MAR-2024	04-MAR-2024	MK
o-Xylene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,4-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,2-Dichlorobenzene	04-MAR-2024	04-MAR-2024	MK
1,3-Dichloropropene	04-MAR-2024	04-MAR-2024	SYS
Xylenes (Total)	04-MAR-2024	04-MAR-2024	SYS
n-Hexane	04-MAR-2024	04-MAR-2024	MK
Toluene-d8	04-MAR-2024	04-MAR-2024	MK
4-Bromofluorobenzene	04-MAR-2024	04-MAR-2024	MK

5690122	Trip blank	Water	21-FEB-2024	28-FEB-2024
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Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690122	Trip blank	Water	21-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
F1 (C6 to C10)	05-MAR-2024	05-MAR-2024	MK
F1 (C6 to C10) minus BTEX	05-MAR-2024	05-MAR-2024	SYS
Toluene-d8	05-MAR-2024	05-MAR-2024	MK
F2 (C10 to C16)			
F3 (C16 to C34)	27-MAR-2024	27-MAR-2024	SS
F4 (C34 to C50)	27-MAR-2024	27-MAR-2024	SS
Gravimetric Heavy Hydrocarbons			
Terphenyl	27-MAR-2024	27-MAR-2024	SS
Sediment	04-MAR-2024	04-MAR-2024	NH

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

Parameter	Date Prepared	Date Analyzed	Initials
Dichlorodifluoromethane	05-MAR-2024	05-MAR-2024	MK
Vinyl Chloride	05-MAR-2024	05-MAR-2024	MK
Bromomethane	05-MAR-2024	05-MAR-2024	MK
Trichlorofluoromethane	05-MAR-2024	05-MAR-2024	MK
Acetone	05-MAR-2024	05-MAR-2024	MK
1,1-Dichloroethylene	05-MAR-2024	05-MAR-2024	MK
Methylene Chloride	05-MAR-2024	05-MAR-2024	MK
trans- 1,2-Dichloroethylene	05-MAR-2024	05-MAR-2024	MK
Methyl tert-butyl ether	05-MAR-2024	05-MAR-2024	MK
1,1-Dichloroethane	05-MAR-2024	05-MAR-2024	MK
Methyl Ethyl Ketone	05-MAR-2024	05-MAR-2024	MK
cis- 1,2-Dichloroethylene	05-MAR-2024	05-MAR-2024	MK
Chloroform	05-MAR-2024	05-MAR-2024	MK
1,2-Dichloroethane	05-MAR-2024	05-MAR-2024	MK
1,1,1-Trichloroethane	05-MAR-2024	05-MAR-2024	MK
Carbon Tetrachloride	05-MAR-2024	05-MAR-2024	MK
Benzene	05-MAR-2024	05-MAR-2024	MK
1,2-Dichloropropane	05-MAR-2024	05-MAR-2024	MK
Trichloroethylene	05-MAR-2024	05-MAR-2024	MK
Bromodichloromethane	05-MAR-2024	05-MAR-2024	MK
Methyl Isobutyl Ketone	05-MAR-2024	05-MAR-2024	MK
1,1,2-Trichloroethane	05-MAR-2024	05-MAR-2024	MK
Toluene	05-MAR-2024	05-MAR-2024	MK
Dibromochloromethane	05-MAR-2024	05-MAR-2024	MK
Ethylene Dibromide	05-MAR-2024	05-MAR-2024	MK
Tetrachloroethylene	05-MAR-2024	05-MAR-2024	MK
1,1,1,2-Tetrachloroethane	05-MAR-2024	05-MAR-2024	MK



Time Markers

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5690122	Trip blank	Water	21-FEB-2024	28-FEB-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Chlorobenzene	05-MAR-2024	05-MAR-2024	MK
Ethylbenzene	05-MAR-2024	05-MAR-2024	MK
m & p-Xylene	05-MAR-2024	05-MAR-2024	MK
Bromoform	05-MAR-2024	05-MAR-2024	MK
Styrene	05-MAR-2024	05-MAR-2024	MK
1,1,2,2-Tetrachloroethane	05-MAR-2024	05-MAR-2024	MK
o-Xylene	05-MAR-2024	05-MAR-2024	MK
1,3-Dichlorobenzene	05-MAR-2024	05-MAR-2024	MK
1,4-Dichlorobenzene	05-MAR-2024	05-MAR-2024	MK
1,2-Dichlorobenzene	05-MAR-2024	05-MAR-2024	MK
1,3-Dichloropropene	05-MAR-2024	05-MAR-2024	SYS
Xylenes (Total)	05-MAR-2024	05-MAR-2024	SYS
n-Hexane	05-MAR-2024	05-MAR-2024	MK
Toluene-d8	05-MAR-2024	05-MAR-2024	MK
4-Bromofluorobenzene	05-MAR-2024	05-MAR-2024	MK

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: SH, AH

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
F1 (C6 to C10)	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/FID
F1 (C6 to C10) minus BTEX	VOL-91-5010	modified from MOE PHC-E3421	(P&T)GC/FID
Toluene-d8	VOL-91- 5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
F2 (C10 to C16)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F3 (C16 to C34)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
F4 (C34 to C50)	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Gravimetric Heavy Hydrocarbons	VOL-91-5010	modified from MOE PHC-E3421	BALANCE
Terphenyl	VOL-91-5010	modified from MOE PHC-E3421	GC/FID
Sediment			N/A
Dichlorodifluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Vinyl Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromomethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichlorofluoromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Acetone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methylene Chloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
trans- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl tert-butyl ether	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Ethyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
cis- 1,2-Dichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chloroform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Carbon Tetrachloride	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Benzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichloropropane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Trichloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromodichloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Methyl Isobutyl Ketone	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2-Trichloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: SH, AH

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Toluene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Dibromochloromethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylene Dibromide	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Tetrachloroethylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,1,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Chlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Ethylbenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
m & p-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Bromoform	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Styrene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,1,2,2-Tetrachloroethane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
o-Xylene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,4-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,2-Dichlorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
1,3-Dichloropropene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Xylenes (Total)	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
n-Hexane	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
Toluene-d8	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS
4-Bromofluorobenzene	VOL-91-5001	modified from EPA 5030B & EPA 8260D	(P&T)GC/MS

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z124905

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 Montreal Road, Ottawa, ON

SAMPLED BY: SH, AH

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Dissolved Antimony	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Arsenic	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Barium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Beryllium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Boron	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cadmium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Chromium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Cobalt	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Copper	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Lead	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Molybdenum	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Nickel	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Selenium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Silver	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Thallium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Uranium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Vanadium	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS
Dissolved Zinc	MET-93-6103	modified from EPA 200.8 and EPA 3005A	ICP-MS



Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: TerraFlex environmental
Contact: Craig Beaton
Address: 20, Gardway Rd., Ottawa, ON
Phone: 613-745-6471 Fax: 613-745-6796
Reports to be sent to:
1. Email: c.beaton@terraflex.com
2. Email: edd@terraflex.com

Project Information:

Project: C0952.01
Site Location: 2180, Montcal Rd., Ottawa, ON
Sampled By: SH, AH
AGAT Quote #: Success - Downstream PO:

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

Invoice Information:

Bill To Same: Yes ☒ No ☐

Company:
Contact:
Address:
Email:

Regulatory Requirements:

(Please check all applicable boxes)

☒ Regulation 153/04

☐ Regulation 406

☐ Sewer Use

☐ Sanitary ☐ Storm

Table 3 Indicate One

☐ Ind/Com

☐ Res/Park

☐ Agriculture

Table Indicate One

☐ Regulation 558

☐ CCME

Soil Texture (Check One)

☐ Coarse

☒ Fine

Region

☐ Prov. Water Quality Objectives (PWQO)

☐ Other

Indicate One

Is this submission for a
Record of Site Condition?

☐ Yes

☒ No

Report Guideline on
Certificate of Analysis

☒ Yes

☐ No

Sample Matrix Legend

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

Laboratory Use Only

Work Order #: 242124905
Cooler Quantity: one - 10058 ice
Arrival Temperatures: 10.0 10.1 10.3
4.4 4.5 4.7
3.1 3.9 3.5 29.5 9.6 9.5
Custody Seal Intact: ☐ Yes ☐ No ☐ N/A
Notes: BAGGED ICE

Turnaround Time (TAT) Required:

Regular TAT

☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days

☐ 2 Business Days

☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT
*TAT is exclusive of weekends and statutory holidays

For 'Same Day' analysis, please contact your AGAT CPM

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y / N	Field Filtered - Metals, Hg, CrVI, DOC	Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs	VOC	PAHs	PCBs	PCBs: Aroclors ☐	Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ Biop ☐ PCBs	Regulation 406 SPLP Rainwater Leach	Regulation 406 SPLP Metals ☐ VOCs ☐ SVOCs	Regulation 406 Characterization Package pH, ICPS Metals, BTEX, F1-F4	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. mw101	27-2-24	10:45 AM	11	GW		Y														
2. mw102	"	1:00 PM	"	GW		Y														
3. mw103	"	2:30 PM	"	GW		Y														
4. mw104	"	2:00 PM	"	GW		Y														
5. mw105	"	1:30 PM	"	GW		Y														
6. mw106	"	12:20 PM	"	GW		Y														
7. mw107	"	11:30 AM	"	GW		Y														
8. mw108	"	11:50 AM	"	GW		Y														
9. mw110	"	4:50 PM	"	GW		Y														
10. mw111	"	7:10 PM	"	GW		Y														
11. mw112	"	3:15 PM	"	GW		Y														

Samples Relinquished By (Print Name and Sign):

Craig Beaton / K Beaton

Samples Relinquished By (Print Name and Sign):

CG to Puro

Samples Relinquished By (Print Name and Sign):

Date:

Feb 28/24 13:30

Date:

02/29/24 15h00

Date:

Samples Received By (Print Name and Sign):

P. G. G. G. G.

Samples Received By (Print Name and Sign):

to

Samples Received By (Print Name and Sign):

Date:

02/28/24 16h40

Date:

03/01/24 8:30am

Date:

Time:

16h40

Time:

8:30am

Time:

Page 1 of 2

Nº: T - 153079

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED
20 GURDWARA ROAD, UNIT 1
OTTAWA, ON K2E 8B3
613 745 6471

ATTENTION TO: Yacouba Doro

PROJECT: CO952.01

AGAT WORK ORDER: 24Z125632

SOIL ANALYSIS REVIEWED BY: Nivine Basily, Inorganic Team Lead

DATE REPORTED: Mar 08, 2024

PAGES (INCLUDING COVER): 7

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



Certificate of Analysis

AGAT WORK ORDER: 24Z125632

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 MTL RD

ATTENTION TO: Yacouba Doro

SAMPLED BY: HM

Corrosivity Package

DATE RECEIVED: 2024-03-01

DATE REPORTED: 2024-03-08

		SAMPLE DESCRIPTION:		MW111-3	MW106-3	MW111-4
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-03-01 11:10	2024-03-01 11:10	2024-03-01 11:10
Parameter	Unit	G / S	RDL	5693651	5693653	5693654
Sulphate (2:1)	µg/g	2	49	147	66	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5693651-5693654 Sulphate was determined on the extract obtained from the 2:1 leaching procedure (2 parts DI water: 1 part soil). Resistivity is a calculated parameter.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 24Z125632

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 MTL RD

ATTENTION TO: Yacouba Doro

SAMPLED BY: HM

pH in Soil

DATE RECEIVED: 2024-03-01

DATE REPORTED: 2024-03-08

		SAMPLE DESCRIPTION:		MW111-3	MW106-3	MW111-4
		SAMPLE TYPE:		Soil	Soil	Soil
		DATE SAMPLED:		2024-03-01 11:10	2024-03-01 11:10	2024-03-01 11:10
Parameter	Unit	G / S	RDL	5693651	5693653	5693654
pH, 2:1 CaCl ₂ Extraction	pH Units		NA	6.80	6.63	6.51

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

5693651-5693654 pH was determined on the 0.01M CaCl₂ extract prepared at 2:1 ratio (2 parts extraction fluid : 1 part soil).

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:



N. Doro

Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

PROJECT: CO952.01

SAMPLING SITE: 2180 MTL RD

AGAT WORK ORDER: 24Z125632

ATTENTION TO: Yacouba Doro

SAMPLED BY: HM

Soil Analysis

RPT Date: Mar 08, 2024			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE	
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper

pH in Soil

pH, 2:1 CaCl₂ Extraction 5693645 5.99 6.16 2.7% NA 101% 80% 120%

Comments: NA signifies Not Applicable.

pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Corrosivity Package

Sulphate (2:1) 5693651 5693651 49 48 2.1% < 2 102% 70% 130% 95% 80% 120% 95% 70% 130%

Comments: NA signifies Not Applicable.

pH duplicates QA acceptance criteria was met relative as stated in Table 5-15 of Analytical Protocol document.

Duplicate NA: results are under 5X the RDL and will not be calculated.

Certified By:


Nivine Basly



Time Markers

AGAT WORK ORDER: 24Z125632

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Yacouba Doro

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5693651	MW111-3	Soil	01-MAR-2024	01-MAR-2024
Corrosivity Package				
Parameter		Date Prepared	Date Analyzed	Initials
Sulphate (2:1)		07-MAR-2024	07-MAR-2024	LC
pH in Soil				
Parameter		Date Prepared	Date Analyzed	Initials
pH, 2:1 CaCl2 Extraction		08-MAR-2024	08-MAR-2024	XL
5693653	MW106-3	Soil	01-MAR-2024	01-MAR-2024
Corrosivity Package				
Parameter		Date Prepared	Date Analyzed	Initials
Sulphate (2:1)		07-MAR-2024	07-MAR-2024	LC
pH in Soil				
Parameter		Date Prepared	Date Analyzed	Initials
pH, 2:1 CaCl2 Extraction		08-MAR-2024	08-MAR-2024	XL
5693654	MW111-4	Soil	01-MAR-2024	01-MAR-2024
Corrosivity Package				
Parameter		Date Prepared	Date Analyzed	Initials
Sulphate (2:1)		07-MAR-2024	07-MAR-2024	LC
pH in Soil				
Parameter		Date Prepared	Date Analyzed	Initials
pH, 2:1 CaCl2 Extraction		08-MAR-2024	08-MAR-2024	XL

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z125632

PROJECT: CO952.01

ATTENTION TO: Yacouba Doro

SAMPLING SITE: 2180 MTL RD

SAMPLED BY: HM

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Soil Analysis			
Sulphate (2:1)	INOR-93-6004	modified from SM 4110 B	ION CHROMATOGRAPH
pH, 2:1 CaCl ₂ Extraction	INOR-93-6075	modified from EPA 9045D, MCKEAGUE 3.11 E3137	PC TITRATE

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED
20 GURDWARA ROAD, UNIT 1
OTTAWA, ON K2E 8B3
613 745 6471

ATTENTION TO: Craig Beaton

PROJECT: CO952.01

AGAT WORK ORDER: 24Z130493

TRACE ORGANICS REVIEWED BY: Neli Popnikolova, Senior Chemist

DATE REPORTED: Mar 25, 2024

PAGES (INCLUDING COVER): 6

VERSION*: 1

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

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 24Z130493

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

SAMPLING SITE: 2180 MONTREAL ROAD, OTTAWA, ON

ATTENTION TO: Craig Beaton

SAMPLED BY: JF / SP

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

DATE RECEIVED: 2024-03-15

DATE REPORTED: 2024-03-25

SAMPLE DESCRIPTION: GS-1
SAMPLE TYPE: Soil
DATE SAMPLED: 2024-03-14
09:40
5738937

Parameter	Unit	G / S	RDL	
Polychlorinated Biphenyls	µg/g	1.1	0.1	<0.1
Moisture Content	%		0.1	15.1
Surrogate	Unit	Acceptable Limits		
Decachlorobiphenyl	%	50-140		108

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water Condition - Soil - Industrial/Commercial/Community Property Use - Medium and Fine Textured Soils
Guideline values are for general reference only. The guidelines provided may or may not be relevant for the intended use. Refer directly to the applicable standard for regulatory interpretation.

5738937 Results are based on the dry weight of soil extracted.
PCB total is a calculated parameter. The calculated value is the sum of Aroclor 1242, Aroclor 1248, Aroclor 1254 and Aroclor 1260.
The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Quality Assurance

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z130493

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 MONTREAL ROAD, OTTAWA, ON

SAMPLED BY: JF / SP

Trace Organics Analysis

RPT Date: Mar 25, 2024			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE	
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper

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

Polychlorinated Biphenyls	5721494	< 0.1	< 0.1	NA	< 0.1	105%	50%	140%	104%	50%	140%	88%	50%	140%
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Comments: When the average of the sample and duplicate results is less than 5x the RDL, the Relative Percent Difference (RPD) will be indicated as Not Applicable (NA).

Certified By:





Time Markers

AGAT WORK ORDER: 24Z130493

PROJECT: CO952.01

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

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

ATTENTION TO: Craig Beaton

Sample ID	Sample Description	Sample Type	Date Sampled	Date Received
5738937	GS-1	Soil	14-MAR-2024	15-MAR-2024

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

Parameter	Date Prepared	Date Analyzed	Initials
Polychlorinated Biphenyls	21-MAR-2024	22-MAR-2024	LSP
Decachlorobiphenyl	21-MAR-2024	22-MAR-2024	LSP
Moisture Content	21-MAR-2024	21-MAR-2024	PD

Method Summary

CLIENT NAME: TERRAPEX ENVIRONMENTAL LIMITED

AGAT WORK ORDER: 24Z130493

PROJECT: CO952.01

ATTENTION TO: Craig Beaton

SAMPLING SITE: 2180 MONTREAL ROAD, OTTAWA, ON

SAMPLED BY: JF / SP

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Polychlorinated Biphenyls	ORG-91-5113	modified from EPA SW-846 3570 & 8082A	GC/ECD
Decachlorobiphenyl	ORG-91-5113	modified from EPA SW-846 3541 & 8082A	GC/ECD
Moisture Content	VOL-91-5009	modified from CCME Tier 1 Method	BALANCE



Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Report Information:

Company: TERRAPEX ENVIRONMENTAL LTD
Contact: CRAIG BEATON
Address: 1-20 GURDWARA ROAD, NEPEAN, OTTAWA, ONPhone: 613-745-6471 Fax: _____
Reports to be sent to: C.BEATON@TERRAPEX.COM
1. Email: EDD@TERRAPEX.COM
2. Email: _____

Project Information:

Project: CO952.01
Site Location: 2180 MONTREAL ROAD, OTTAWA, ON
Sampled By: JF/SP
AGAT Quote #: SUNCOR DOWNSTREAM PO: _____
Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☒ No ☐Company: _____
Contact: _____
Address: _____
Email: _____

Regulatory Requirements:

(Please check all applicable boxes)

- ☒ Regulation 153/04
3
Table Indicate One
☒ Ind/Com
☐ Res/Park
☐ Agriculture
- ☐ Regulation 406
Table Indicate One
☐ Regulation 558
☐ CCME
- ☐ Sewer Use
☐ Sanitary ☐ Storm
Region _____
- ☐ Soil Texture (Check One)
☐ Coarse
☒ Fine
- ☐ Prov. Water Quality Objectives (PWQO)
☐ Other _____
Indicate One _____

Is this submission for a
Record of Site Condition?☐ Yes ☒ NoReport Guideline on
Certificate of Analysis☒ Yes ☐ No

Sample Matrix Legend

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

Field Filtered - Metals, Hg, CrVI, DOC

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Y / N	Metals & Inorganics	Metals - ☐ CrVI, ☐ Hg, ☐ HWSB	BTEX, F1-F4 PHCs	VOC	PAHs	POBs	POBs: Aroclors ☐	Landfill Disposal Characterization TCLP: ☐ M&I ☐ VOCs ☐ Aqueous ☐ Biop ☐ PCBs	Regulation 406 SPLP Rainwater Leach ☐ Metals ☐ SVOCs	Regulation 406 Characterization Package pH, ICPMs Metals, BTEX, F1-F4	Corrosivity: ☐ Moisture ☐ Sulphide	Potentially Hazardous or High Concentration (Y/N)
1. GS -1	14/03/2024	9:40 AM	1	S		N												
2.		AM																
3.		PM																
4.		AM																
5.		PM																
6.		AM																
7.		PM																
8.		AM																
9.		PM																
10.		AM																
11.		PM																

Samples Relinquished By (Print Name and Sign): SREE	Date: 15/03/2023	Time: 14:45	Samples Received By (Print Name and Sign): C. Beaton	Date: 2024-03-15	Time: 16:00
Samples Relinquished By (Print Name and Sign): [Signature]	Date: 2024-03-18	Time: 5:40	Samples Received By (Print Name and Sign): [Signature]	Date: Mar 19	Time: 8:45
Samples Relinquished By (Print Name and Sign):	Date:	Time:	Samples Received By (Print Name and Sign):	Date:	Time:

Laboratory Use Only

Work Order #: 242130493

Cooler Quantity: one - 100816
Arrival Temperatures: 6.7 | 6.8 | 6.9
4.3 | 4.1 | 4.2Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: bagged

Turnaround Time (TAT) Required:

Regular TAT

☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

Please provide prior notification for rush TAT

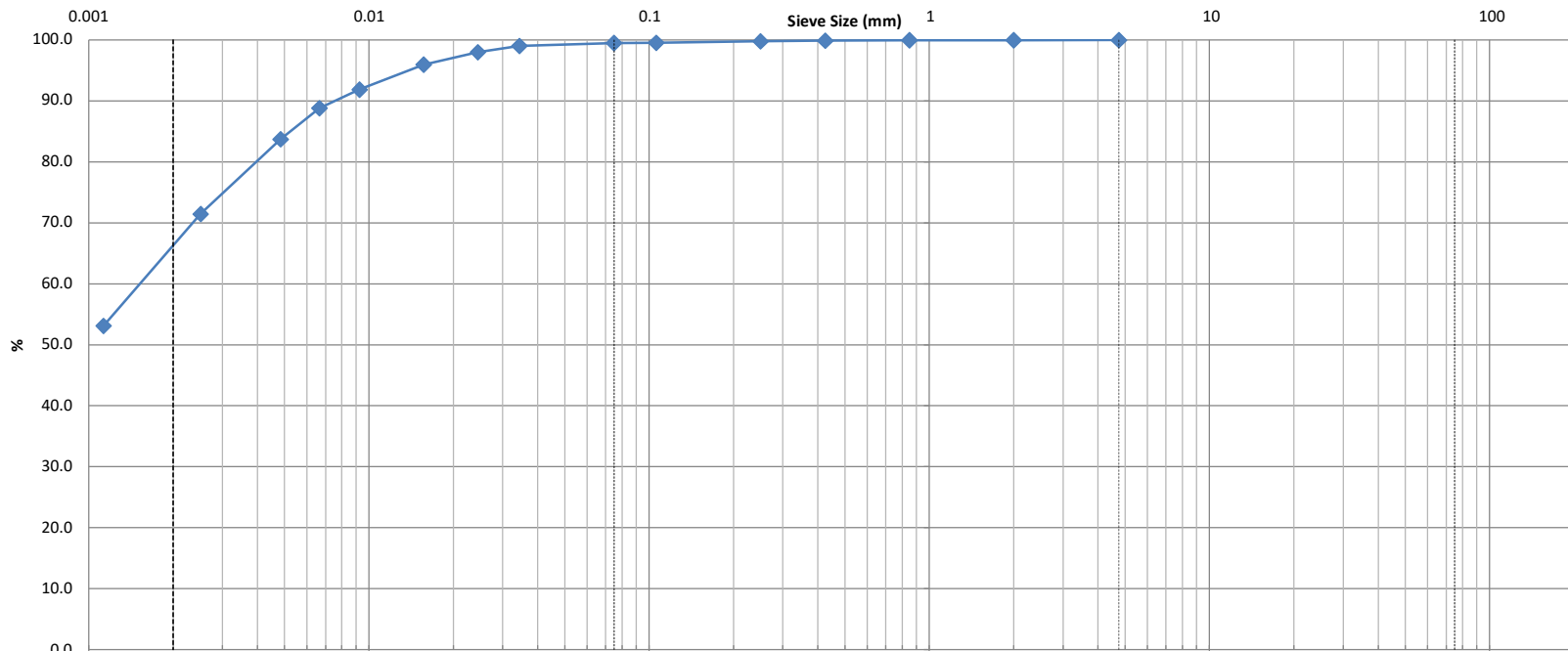
*TAT is exclusive of weekends and statutory holidays

For 'Same Day' analysis, please contact your AGAT CPM



SIEVE ANALYSIS
ASTM C136

CLIENT:	Terrapex	DEPTH:	12.5 - 14.5	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 101-5	LAB NO:	51148
PROJECT:	C0952.01			DATE RECEIVED:	1-Mar-24
				DATE TESTED:	4-Mar-24
DATE SAMPLED:	7-Feb-24			DATE REPORTED:	8-Mar-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification					MC(%)	LL	PL	PI	Cc	Cu
	D100	D60	D30	D10	Gravel (%)	Sand (%)					
					0.0	0.5			32.5		67.0

Comments:											
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REVIEWED BY:	Curtis Beadow					Joe Forsyth, P. Eng.					

CLIENT:	Terrapex	DEPTH:	12.5 - 14.5	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 101-5	DATE SAMPLED:	7-Feb-24
LAB No. :	51148	TESTED BY:	C.M	DATE RECEIVED:	1-Mar-24
SAMPLED BY:	-	DATE REPT'D:	8-Mar-24	DATE TESTED:	4-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
90.5		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	38.19	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.26	AIR DRY	118.50
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	90.50
		CORRECTED	0.764

GRAIN SIZE ANALYSIS

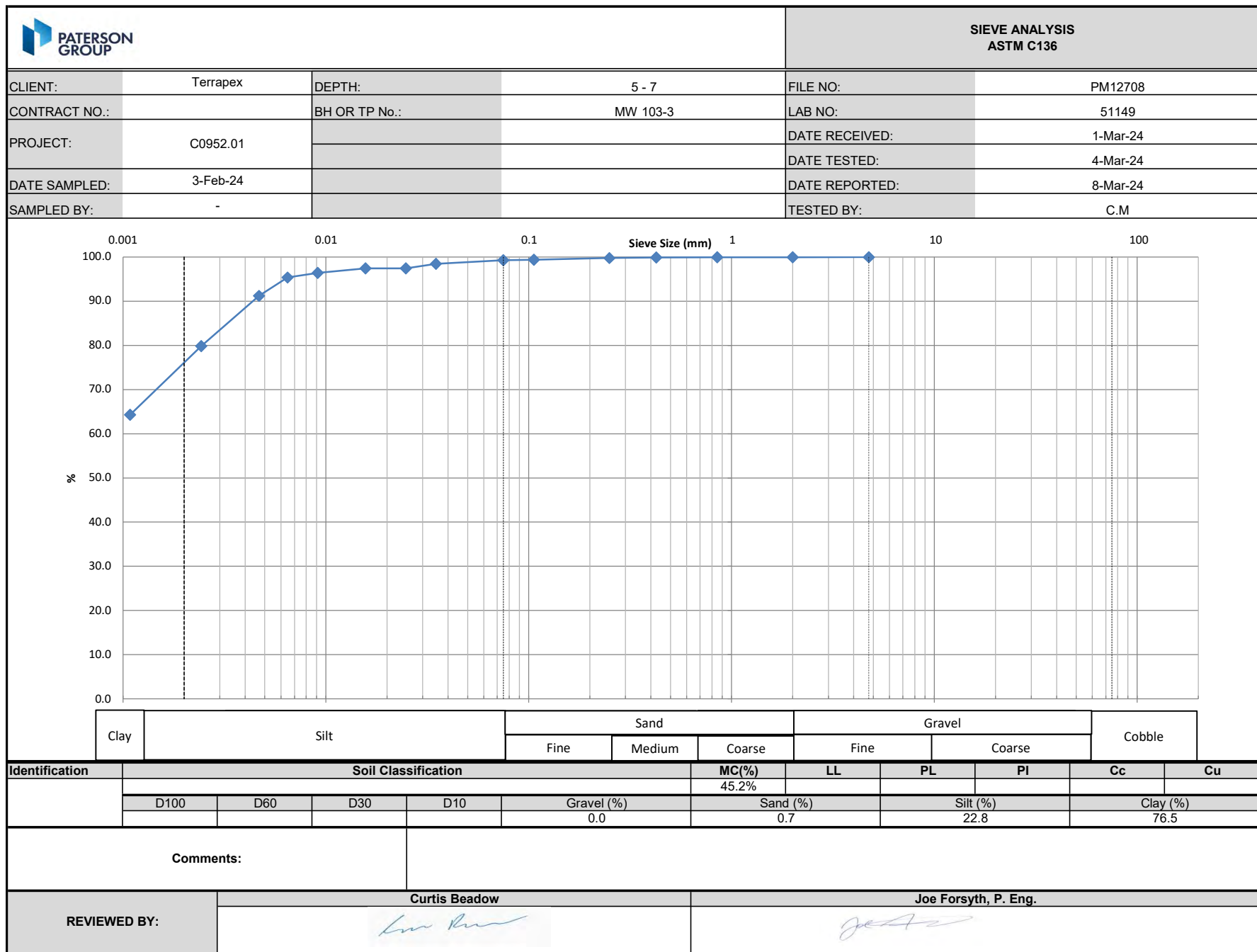
SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	90.5		
0.850	0.00	0.0	100.0
0.425	0.04	0.1	99.9
0.250	0.09	0.2	99.8
0.106	0.20	0.4	99.6
0.075	0.23	0.5	99.5
Pan	0.26		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	8:26	54.5	6.0	23.0	0.0344	99.1	99.0
2	8:27	54.0	6.0	23.0	0.0245	98.0	98.0
5	8:30	53.0	6.0	23.0	0.0157	96.0	96.0
15	8:40	51.0	6.0	23.0	0.0093	91.9	91.9
30	8:55	49.5	6.0	23.0	0.0067	88.9	88.8
60	9:25	47.0	6.0	23.0	0.0048	83.7	83.7
250	12:35	41.0	6.0	23.0	0.0025	71.5	71.5
1440	8:25	32.0	6.0	23.0	0.0011	53.1	53.1

Moisture = 58.0%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		



CLIENT:	Terrapex	DEPTH:	5 - 7	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 103-3	DATE SAMPLED:	3-Feb-24
LAB No. :	51149	TESTED BY:	C.M	DATE RECEIVED:	1-Mar-24
SAMPLED BY:	-	DATE REPT'D:	8-Mar-24	DATE TESTED:	4-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
103.3		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	40.13	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.36	AIR DRY	128.70
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	103.30
		CORRECTED	0.803

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	103.3		
0.850	0.00	0.0	100.0
0.425	0.02	0.1	99.9
0.250	0.08	0.2	99.8
0.106	0.27	0.6	99.4
0.075	0.33	0.7	99.3
Pan	0.36		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	7:59	53.5	6.0	23.0	0.0349	98.5	98.5
2	8:00	53.0	6.0	23.0	0.0248	97.5	97.5
5	8:03	53.0	6.0	23.0	0.0157	97.5	97.5
15	8:13	52.5	6.0	23.0	0.0091	96.5	96.4
30	8:28	52.0	6.0	23.0	0.0065	95.4	95.4
60	8:58	50.0	6.0	23.0	0.0047	91.3	91.2
250	12:08	44.5	6.0	23.0	0.0024	79.9	79.8
1440	7:58	37.0	6.0	23.0	0.0011	64.3	64.3

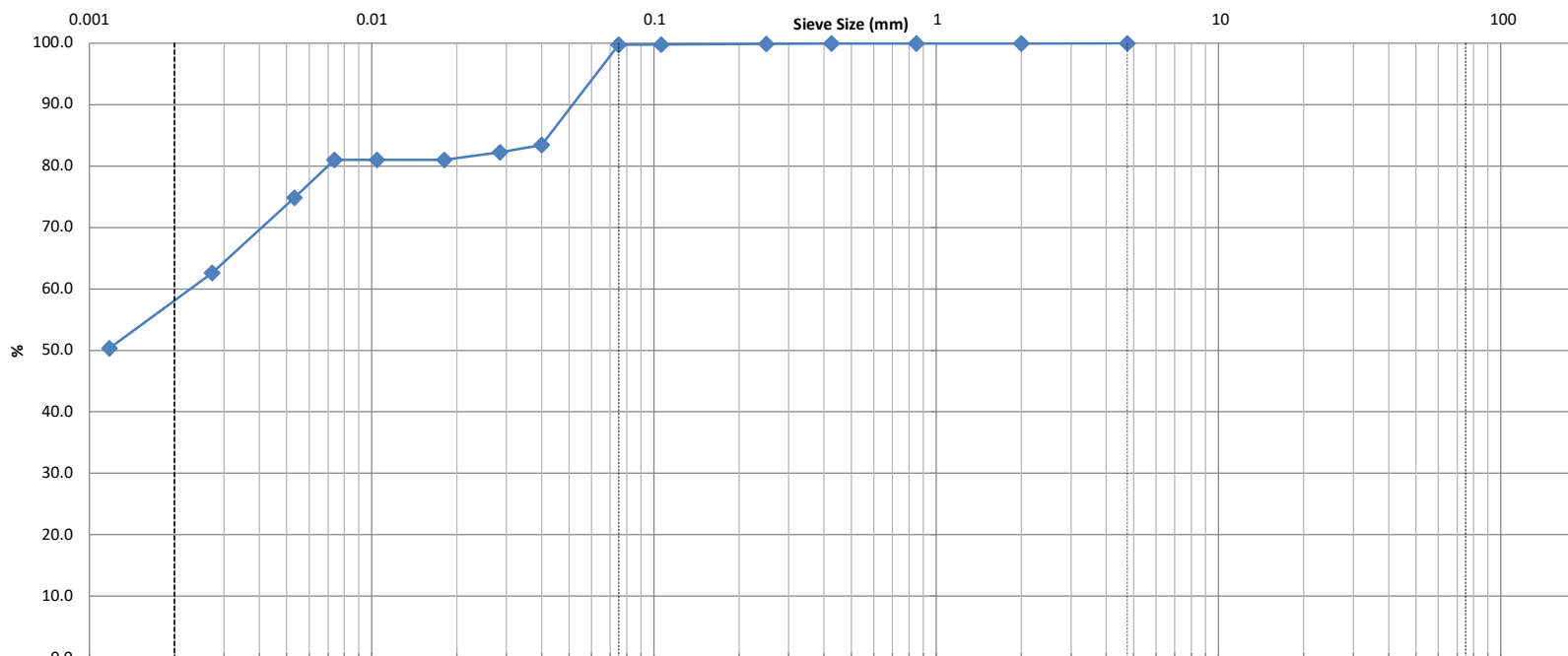
Moisture = 45.2%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		



**SIEVE ANALYSIS
ASTM C136**

CLIENT:	Terrapex	DEPTH:	10 - 12.5	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 103-5	LAB NO:	51150
PROJECT:	C0952.01			DATE RECEIVED:	1-Mar-24
				DATE TESTED:	4-Mar-24
DATE SAMPLED:	8-Feb-24			DATE REPORTED:	8-Mar-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification					MC(%)	LL	PL	PI	Cc	Cu
	D100	D60	D30	D10	Gravel (%)	50.6%					
					0.0	Sand (%)	0.3				
								40.2			
										59.5	

Comments:											
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REVIEWED BY:	Curtis Beadow					Joe Forsyth, P. Eng.					

CLIENT:	Terrapex	DEPTH:	10 - 12.5	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 103-5	DATE SAMPLED:	8-Feb-24
LAB No. :	51150	TESTED BY:	C.M	DATE RECEIVED:	1-Mar-24
SAMPLED BY:	-	DATE REPT'D:	8-Mar-24	DATE TESTED:	4-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
97.6		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	40.26	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.12	AIR DRY	121.20
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	97.60
		CORRECTED	0.805

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	97.6		
0.850	0.00	0.0	100.0
0.425	0.00	0.0	100.0
0.250	0.03	0.1	99.9
0.106	0.08	0.2	99.8
0.075	0.11	0.3	99.7
Pan	0.12		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

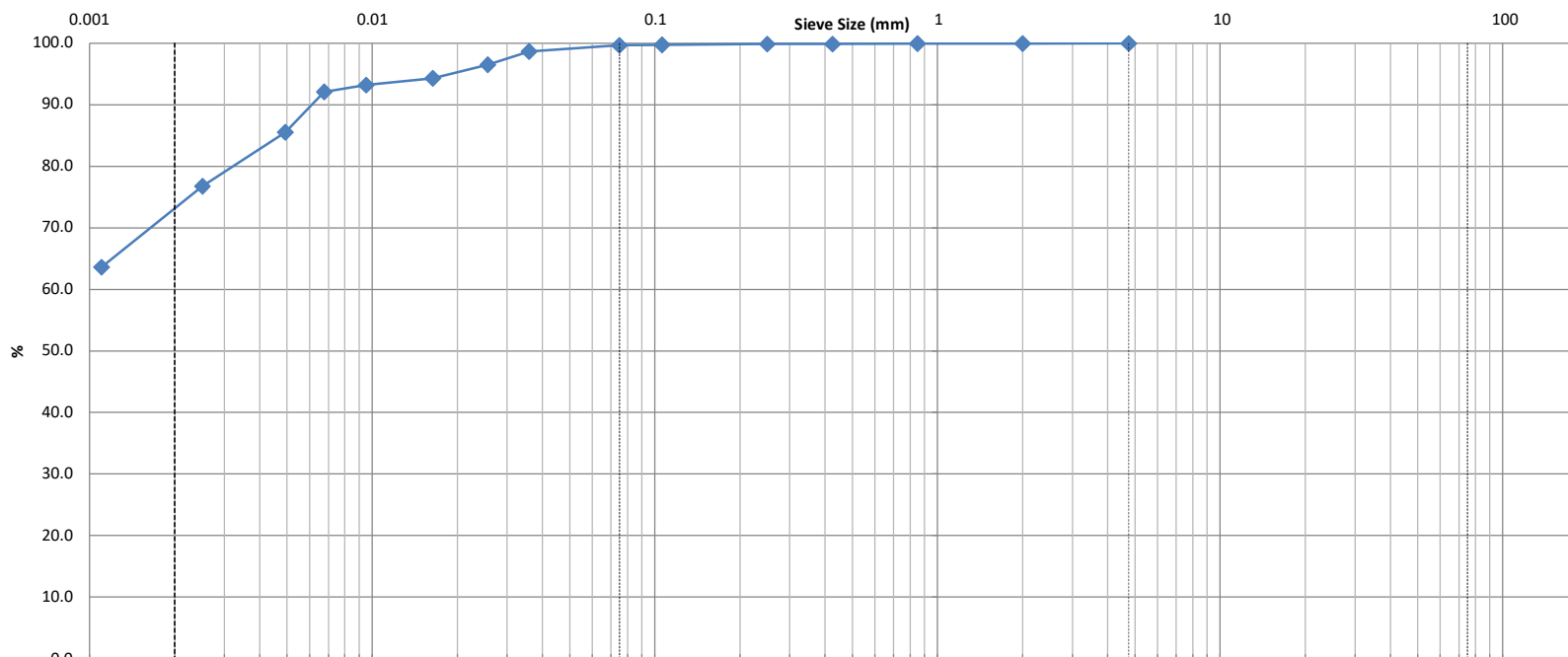
ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	8:48	40.0	6.0	23.0	0.0400	83.5	83.5
2	8:49	39.5	6.0	23.0	0.0284	82.3	82.2
5	8:52	39.0	6.0	23.0	0.0181	81.0	81.0
15	9:02	39.0	6.0	23.0	0.0104	81.0	81.0
30	9:17	39.0	6.0	23.0	0.0074	81.0	81.0
60	9:47	36.5	6.0	23.0	0.0053	74.9	74.9
250	0:57	31.5	6.0	23.0	0.0027	62.6	62.6
1440	8:47	26.5	6.0	23.0	0.0012	50.3	50.3

Moisture = 50.6%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		

**SIEVE ANALYSIS
ASTM C136**

CLIENT:	Terrapex	DEPTH:	7.5 - 9.5	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 104-4	LAB NO:	51151
PROJECT:	C0952.01			DATE RECEIVED:	1-Mar-24
				DATE TESTED:	4-Mar-24
DATE SAMPLED:	8-Feb-24			DATE REPORTED:	8-Mar-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification					MC(%)	LL	PL	PI	Cc	Cu
	D100	D60	D30	D10	Gravel (%)	60.4%					
					0.0	0.3			27.2	72.5	

Comments:											
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REVIEWED BY:	Curtis Beadow					Joe Forsyth, P. Eng.					

CLIENT:	Terrapex	DEPTH:	7.5 - 9.5	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 104-4	DATE SAMPLED:	8-Feb-24
LAB No. :	51151	TESTED BY:	C.M	DATE RECEIVED:	1-Mar-24
SAMPLED BY:	-	DATE REPT'D:	8-Mar-24	DATE TESTED:	4-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
89.8		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	38.51	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.14	AIR DRY	116.60
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	89.80
		CORRECTED	0.770

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	89.8		
0.850	0.00	0.0	100.0
0.425	0.03	0.1	99.9
0.250	0.04	0.1	99.9
0.106	0.10	0.2	99.8
0.075	0.13	0.3	99.7
Pan	0.14		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

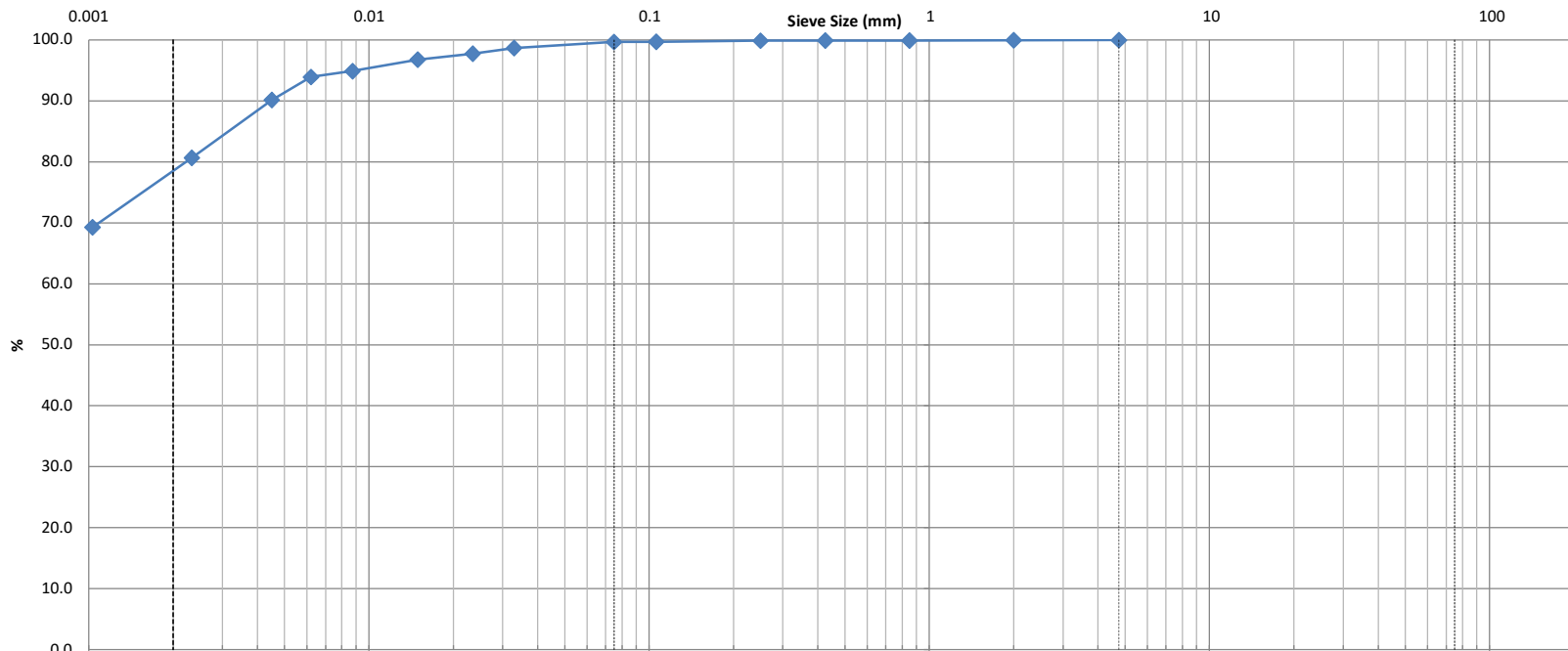
ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	8:20	51.0	6.0	23.0	0.0359	98.7	98.7
2	8:21	50.0	6.0	23.0	0.0256	96.6	96.5
5	8:24	49.0	6.0	23.0	0.0164	94.4	94.3
15	8:34	48.5	6.0	23.0	0.0095	93.3	93.2
30	8:49	48.0	6.0	23.0	0.0068	92.2	92.1
60	9:19	45.0	6.0	23.0	0.0049	85.6	85.6
250	12:29	41.0	6.0	23.0	0.0025	76.8	76.8
1440	8:19	35.0	6.0	23.0	0.0011	63.6	63.6

Moisture = 60.4%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		

**SIEVE ANALYSIS
ASTM C136**

CLIENT:	Terrapex	DEPTH:	5 - 7	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 106-3	LAB NO:	51152
PROJECT:	C0952.01			DATE RECEIVED:	1-Mar-24
				DATE TESTED:	4-Mar-24
DATE SAMPLED:	9-Feb-24			DATE REPORTED:	8-Mar-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification					MC(%)	LL	PL	PI	Cc	Cu
	D100	D60	D30	D10	Gravel (%)	Sand (%)					
					0.0	0.3			20.2		79.5

Comments:											
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REVIEWED BY:	Curtis Beadow					Joe Forsyth, P. Eng.					

CLIENT:	Terrapex	DEPTH:	5 - 7	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 106-3	DATE SAMPLED:	9-Feb-24
LAB No. :	51152	TESTED BY:	C.M	DATE RECEIVED:	1-Mar-24
SAMPLED BY:	-	DATE REPT'D:	8-Mar-24	DATE TESTED:	4-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
96.3		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	38.18	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.17	AIR DRY	126.10
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	96.30
		CORRECTED	0.764

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	96.3		
0.850	0.01	0.1	99.9
0.425	0.02	0.1	99.9
0.250	0.04	0.1	99.9
0.106	0.12	0.3	99.7
0.075	0.14	0.3	99.7
Pan	0.17		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

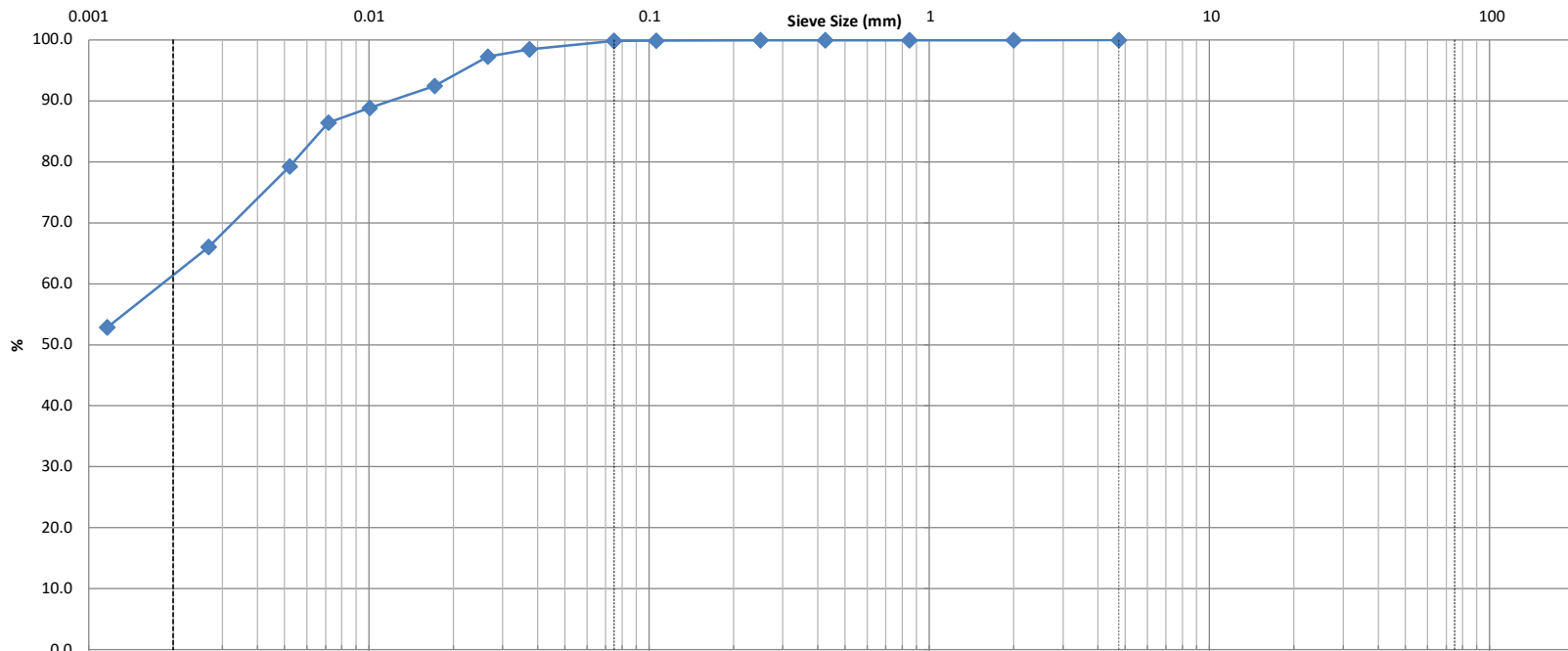
ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	8:55	58.0	6.0	23.0	0.0329	98.7	98.7
2	8:56	57.5	6.0	23.0	0.0235	97.8	97.8
5	8:59	57.0	6.0	23.0	0.0149	96.8	96.8
15	9:09	56.0	6.0	23.0	0.0087	94.9	94.9
30	9:24	55.5	6.0	23.0	0.0062	94.0	94.0
60	9:54	53.5	6.0	23.0	0.0045	90.2	90.2
250	1:04	48.5	6.0	23.0	0.0023	80.7	80.7
1440	8:54	42.5	6.0	23.0	0.0010	69.3	69.3

Moisture = 52.6%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		

**SIEVE ANALYSIS
ASTM C136**

CLIENT:	Terrapex	DEPTH:	12.5 - 14.5	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 110-6	LAB NO:	51153
PROJECT:	C0952.01			DATE RECEIVED:	1-Mar-24
				DATE TESTED:	4-Mar-24
DATE SAMPLED:	16-Feb-24			DATE REPORTED:	8-Mar-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification					MC(%)	LL	PL	PI	Cc	Cu
	D100	D60	D30	D10	Gravel (%)	Sand (%)					
					0.0	0.1			38.9	61.0	

Comments:											
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REVIEWED BY:	Curtis Beadow					Joe Forsyth, P. Eng.					

CLIENT:	Terrapex	DEPTH:	12.5 - 14.5	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 110-6	DATE SAMPLED:	16-Feb-24
LAB No. :	51153	TESTED BY:	C.M	DATE RECEIVED:	1-Mar-24
SAMPLED BY:	-	DATE REPT'D:	8-Mar-24	DATE TESTED:	4-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
63.7		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	41.15	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.07	AIR DRY	77.40
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	63.70
		CORRECTED	0.823

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	63.7		
0.850	0.00	0.0	100.0
0.425	0.00	0.0	100.0
0.250	0.00	0.0	100.0
0.106	0.03	0.1	99.9
0.075	0.05	0.1	99.9
Pan	0.07		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	9:15	47.0	6.0	23.0	0.0374	98.5	98.5
2	9:16	46.5	6.0	23.0	0.0266	97.3	97.3
5	9:19	44.5	6.0	23.0	0.0172	92.5	92.5
15	9:29	43.0	6.0	23.0	0.0101	88.9	88.9
30	9:44	42.0	6.0	23.0	0.0072	86.5	86.5
60	10:14	39.0	6.0	23.0	0.0052	79.3	79.3
250	1:24	33.5	6.0	23.0	0.0027	66.1	66.0
1440	9:14	28.0	6.0	23.0	0.0012	52.9	52.8

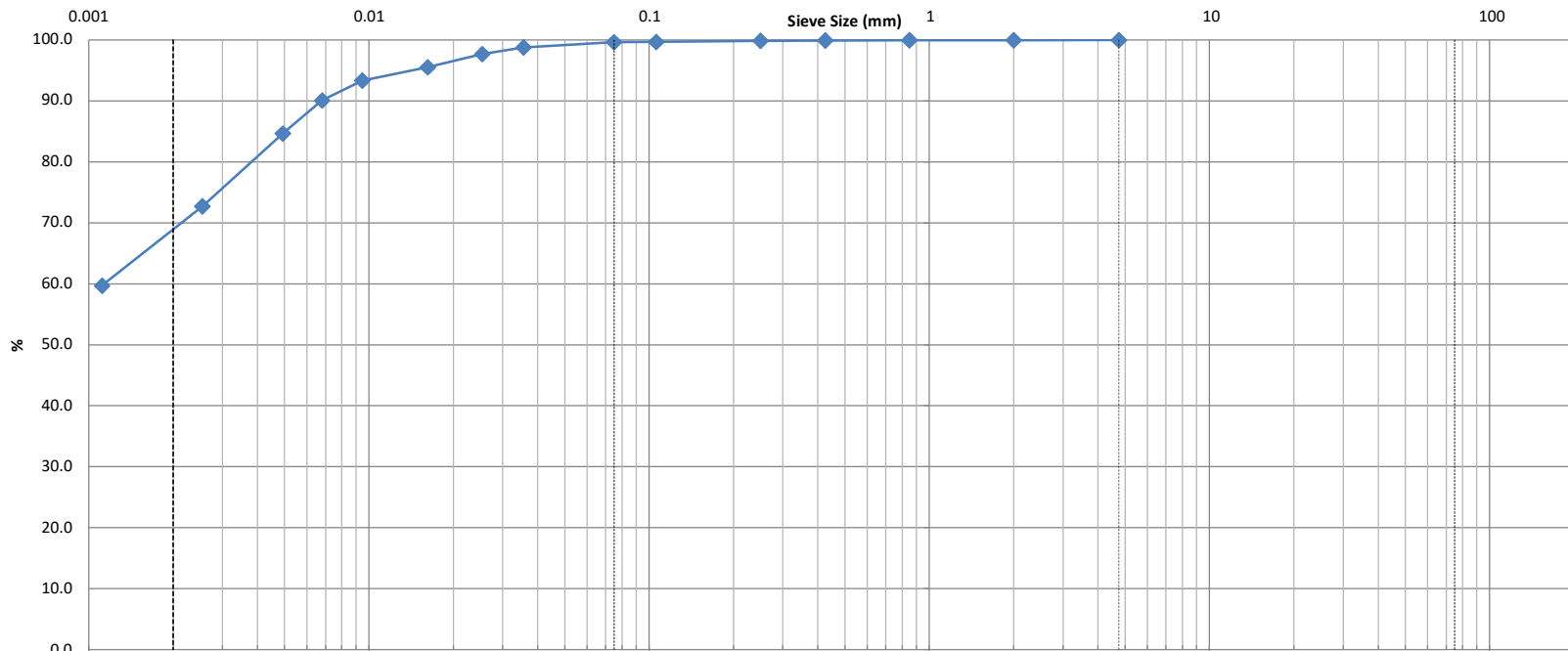
Moisture = 57.3%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		



SIEVE ANALYSIS
ASTM C136

CLIENT:	Terrapex	DEPTH:	7.5 - 9.5	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 110-4	LAB NO:	51154
PROJECT:	C0952.01			DATE RECEIVED:	1-Mar-24
				DATE TESTED:	4-Mar-24
DATE SAMPLED:	16-Feb-24			DATE REPORTED:	8-Mar-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification					MC(%)	LL	PL	PI	Cc	Cu
	D100	D60	D30	D10	Gravel (%)	49.7%					
					Sand (%)	0.4					
					0.0				30.1		69.5

Comments:											
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REVIEWED BY:	Curtis Beadow					Joe Forsyth, P. Eng.					

CLIENT:	Terrapex	DEPTH:	7.5 - 9.5	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 110-4	DATE SAMPLED:	16-Feb-24
LAB No. :	51154	TESTED BY:	C.M	DATE RECEIVED:	1-Mar-24
SAMPLED BY:	-	DATE REPT'D:	8-Mar-24	DATE TESTED:	4-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
97.5		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	40.06	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.18	AIR DRY	121.70
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	97.50
		CORRECTED	0.801

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	97.5		
0.850	0.00	0.0	100.0
0.425	0.02	0.1	99.9
0.250	0.06	0.2	99.8
0.106	0.13	0.3	99.7
0.075	0.16	0.4	99.6
Pan	0.18		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	9:22	51.5	6.0	23.0	0.0357	98.8	98.8
2	9:23	51.0	6.0	23.0	0.0254	97.7	97.7
5	9:26	50.0	6.0	23.0	0.0162	95.6	95.5
15	9:36	49.0	6.0	23.0	0.0095	93.4	93.4
30	9:51	47.5	6.0	23.0	0.0068	90.1	90.1
60	10:21	45.0	6.0	23.0	0.0049	84.7	84.7
250	1:31	39.5	6.0	23.0	0.0025	72.8	72.7
1440	9:21	33.5	6.0	23.0	0.0011	59.7	59.7

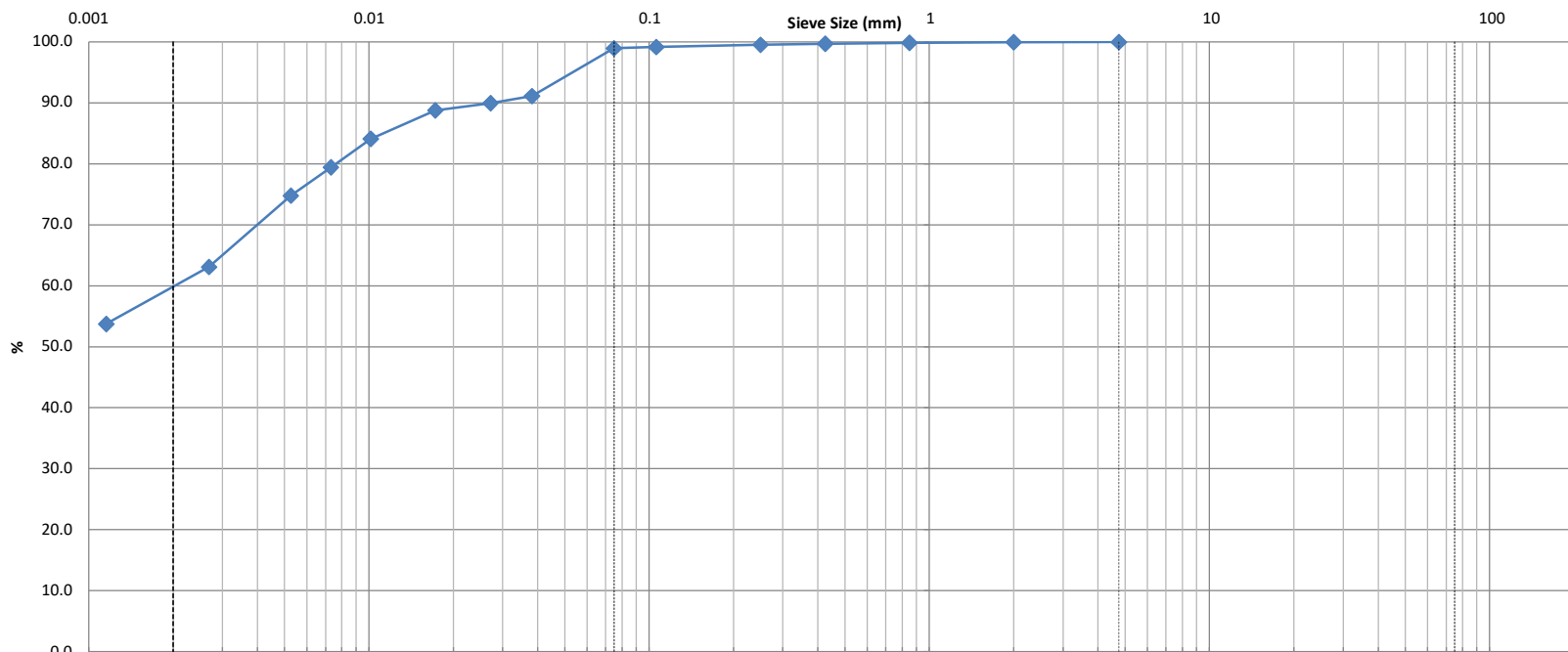
Moisture = 49.7%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		



**SIEVE ANALYSIS
ASTM C136**

CLIENT:	Terrapex	DEPTH:	5- 7	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 111-3	LAB NO:	51155
PROJECT:	C0952.01			DATE RECEIVED:	1-Mar-24
				DATE TESTED:	4-Mar-24
DATE SAMPLED:	16-Feb-24			DATE REPORTED:	8-Mar-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification					MC(%)	LL	PL	PI	Cc	Cu
	D100	D60	D30	D10	Gravel (%)	40.0%					
					0.0	Sand (%)	1.0				
								39.0			
										60.0	

Comments:											
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REVIEWED BY:	Curtis Beadow					Joe Forsyth, P. Eng.					

CLIENT:	Terrapex	DEPTH:	5- 7	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 111-3	DATE SAMPLED:	16-Feb-24
LAB No. :	51155	TESTED BY:	C.M	DATE RECEIVED:	1-Mar-24
SAMPLED BY:	-	DATE REPT'D:	8-Mar-24	DATE TESTED:	4-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
102.2		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	42.30	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.53	AIR DRY	120.80
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	102.20
		CORRECTED	0.846

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	102.2		
0.850	0.05	0.1	99.9
0.425	0.12	0.3	99.7
0.250	0.21	0.4	99.6
0.106	0.40	0.8	99.2
0.075	0.50	1.0	99.0
Pan	0.53		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	9:38	45.0	6.0	23.0	0.0382	91.2	91.1
2	9:39	44.5	6.0	23.0	0.0271	90.0	90.0
5	9:42	44.0	6.0	23.0	0.0173	88.8	88.8
15	9:52	42.0	6.0	23.0	0.0102	84.2	84.1
30	10:07	40.0	6.0	23.0	0.0073	79.5	79.5
60	10:37	38.0	6.0	23.0	0.0053	74.8	74.8
250	1:47	33.0	6.0	23.0	0.0027	63.1	63.1
1440	9:37	29.0	6.0	23.0	0.0012	53.8	53.7

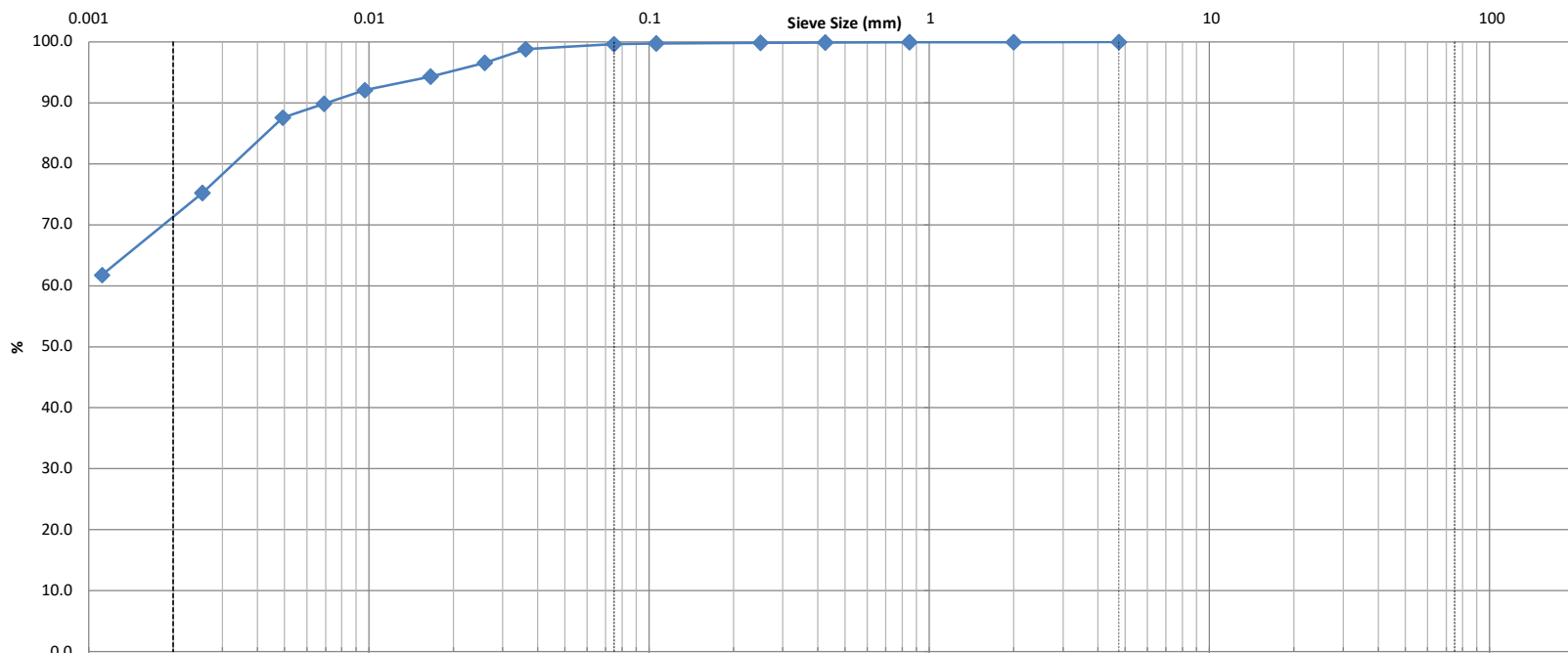
Moisture = 40.0%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		



SIEVE ANALYSIS
ASTM C136

CLIENT:	Terrapex	DEPTH:	7.5 - 9.5	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 111-4	LAB NO:	51156
PROJECT:	C0952.01			DATE RECEIVED:	1-Mar-24
				DATE TESTED:	4-Mar-24
DATE SAMPLED:	16-Feb-24			DATE REPORTED:	8-Mar-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification					MC(%)	LL	PL	PI	Cc	Cu
	D100	D60	D30	D10	Gravel (%)	Sand (%)					
					0.0	0.3			29.2		70.5

Comments:

Curtis Beadow

Joe Forsyth, P. Eng.

REVIEWED BY:

CLIENT:	Terrapex	DEPTH:	7.5 - 9.5	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 111-4	DATE SAMPLED:	16-Feb-24
LAB No. :	51156	TESTED BY:	C.M	DATE RECEIVED:	1-Mar-24
SAMPLED BY:	-	DATE REPT'D:	8-Mar-24	DATE TESTED:	4-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
97.9		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	40.06	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.17	AIR DRY	122.20
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	97.90
		CORRECTED	0.801

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	97.9		
0.850	0.00	0.0	100.0
0.425	0.02	0.1	99.9
0.250	0.05	0.1	99.9
0.106	0.10	0.2	99.8
0.075	0.15	0.3	99.7
Pan	0.17		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

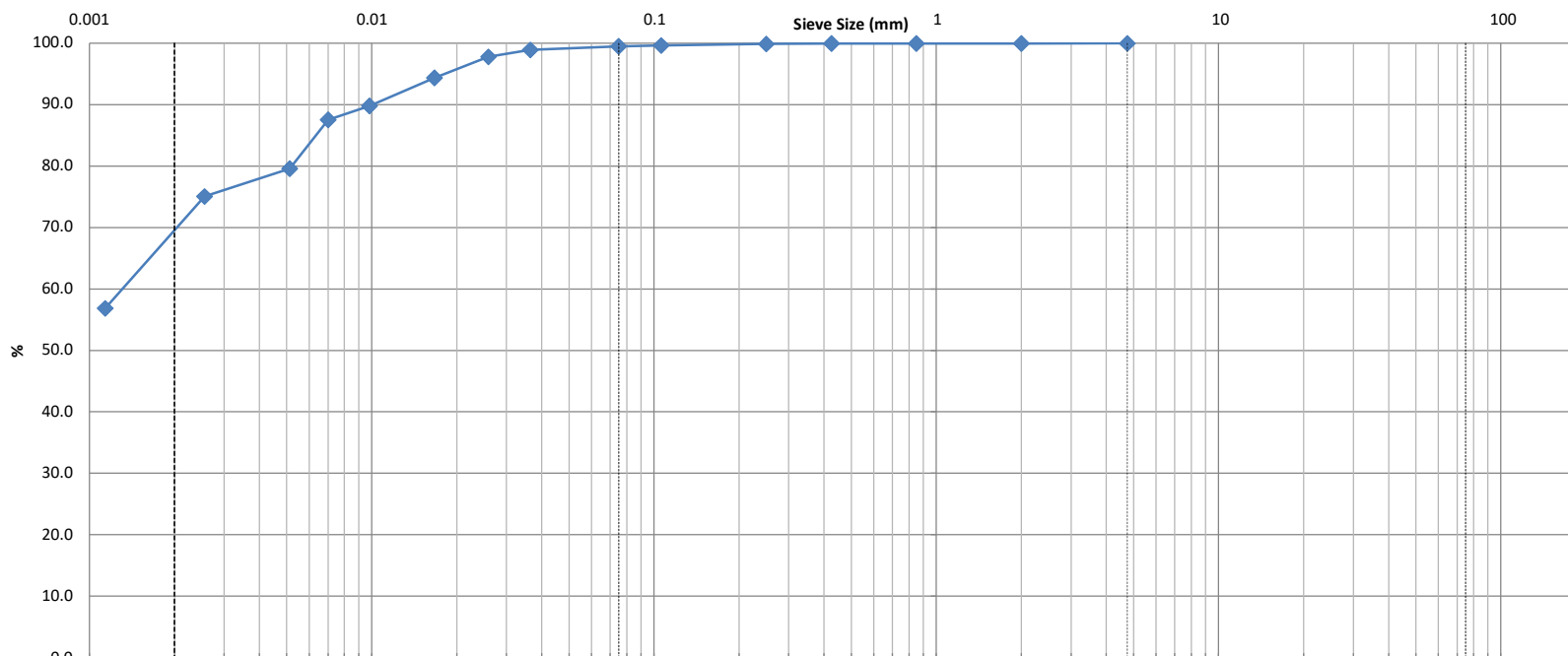
ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	7:51	50.0	6.0	23.0	0.0363	98.9	98.8
2	7:52	49.0	6.0	23.0	0.0259	96.6	96.6
5	7:55	48.0	6.0	23.0	0.0166	94.4	94.3
15	8:05	47.0	6.0	23.0	0.0097	92.1	92.1
30	8:20	46.0	6.0	23.0	0.0069	89.9	89.8
60	8:50	45.0	6.0	23.0	0.0049	87.6	87.6
250	12:00	39.5	6.0	23.0	0.0025	75.3	75.2
1440	7:50	33.5	6.0	23.0	0.0011	61.8	61.8

Moisture = 48.1%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		

**SIEVE ANALYSIS
ASTM C136**

CLIENT:	Terrapex	DEPTH:	7.5 - 9.5	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 112-4	LAB NO:	51157
PROJECT:	C0952.01			DATE RECEIVED:	1-Mar-24
				DATE TESTED:	4-Mar-24
DATE SAMPLED:	16-Feb-24			DATE REPORTED:	8-Mar-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification					MC(%)	LL	PL	PI	Cc	Cu
	D100	D60	D30	D10	Gravel (%)	Sand (%)					
					0.0	0.5			30.0		69.5

Comments:

REVIEWED BY:	Curtis Beadow					Joe Forsyth, P. Eng.					

CLIENT:	Terrapex	DEPTH:	7.5 - 9.5	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 112-4	DATE SAMPLED:	16-Feb-24
LAB No. :	51157	TESTED BY:	C.M	DATE RECEIVED:	1-Mar-24
SAMPLED BY:	-	DATE REPT'D:	8-Mar-24	DATE TESTED:	4-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
103.1		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	41.98	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.26	AIR DRY	122.80
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	103.10
		CORRECTED	0.840

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	103.1		
0.850	0.00	0.0	100.0
0.425	0.00	0.0	100.0
0.250	0.04	0.1	99.9
0.106	0.15	0.3	99.7
0.075	0.22	0.5	99.5
Pan	0.26		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	9:59	49.5	6.0	23.0	0.0365	99.0	98.9
2	10:00	49.0	6.0	23.0	0.0259	97.8	97.8
5	10:03	47.5	6.0	23.0	0.0167	94.4	94.4
15	10:13	45.5	6.0	23.0	0.0098	89.9	89.8
30	10:28	44.5	6.0	23.0	0.0070	87.6	87.6
60	10:58	41.0	6.0	23.0	0.0051	79.6	79.6
250	2:08	39.0	6.0	23.0	0.0026	75.1	75.1
1440	9:58	31.0	6.0	23.0	0.0011	56.9	56.9

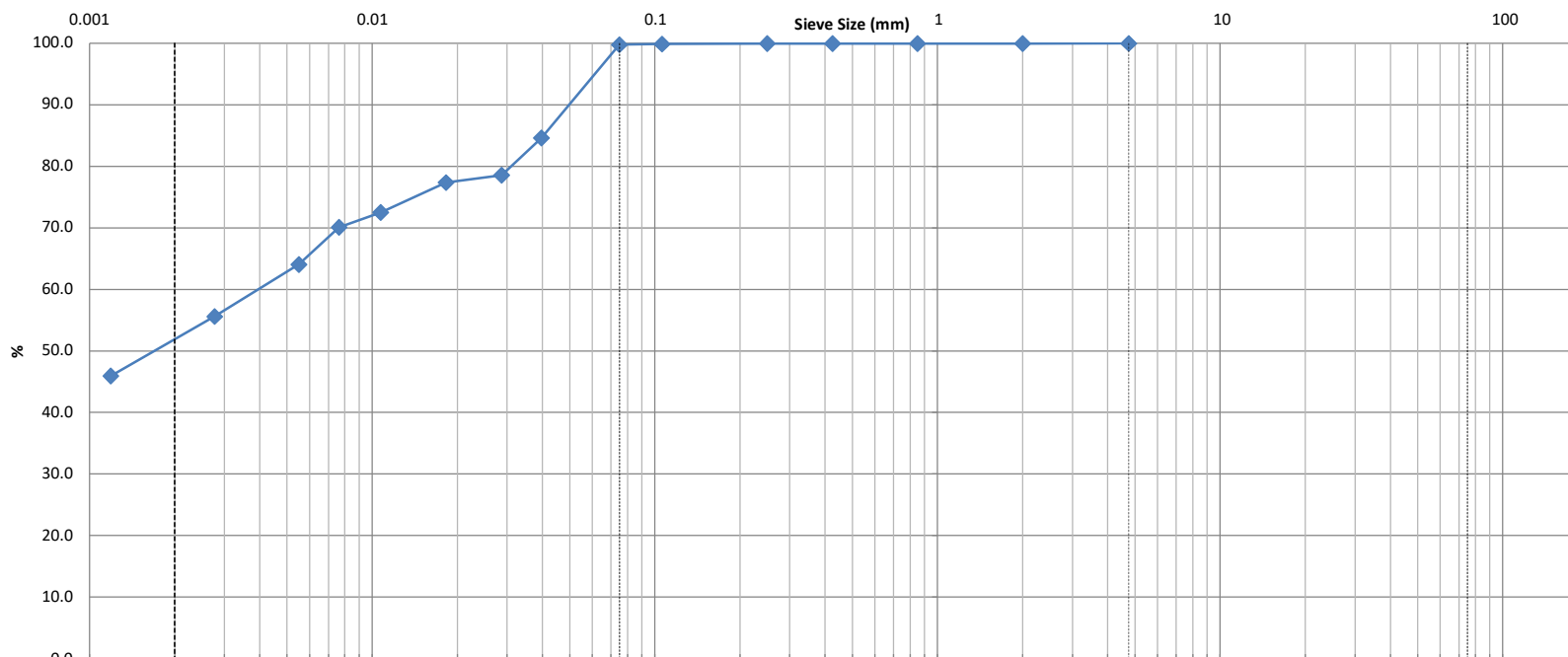
Moisture = 42.6%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		



SIEVE ANALYSIS
ASTM C136

CLIENT:	Terrapex	DEPTH:	11 - 12	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 112-5	LAB NO:	51158
PROJECT:	C0952.01			DATE RECEIVED:	1-Mar-24
				DATE TESTED:	4-Mar-24
DATE SAMPLED:	16-Feb-24			DATE REPORTED:	8-Mar-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification					MC(%)	LL	PL	PI	Cc	Cu
	D100	D60	D30	D10	Gravel (%)	49.4%					
					Sand (%)	0.2					
					0.0			48.8		51.0	

Comments:											
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REVIEWED BY:	Curtis Beadow					Joe Forsyth, P. Eng.					

CLIENT:	Terrapex	DEPTH:	11 - 12	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 112-5	DATE SAMPLED:	16-Feb-24
LAB No. :	51158	TESTED BY:	C.M	DATE RECEIVED:	1-Mar-24
SAMPLED BY:	-	DATE REPT'D:	8-Mar-24	DATE TESTED:	4-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
96.4		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	40.88	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.10	AIR DRY	117.90
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	96.40
		CORRECTED	0.818

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	96.4		
0.850	0.00	0.0	100.0
0.425	0.00	0.0	100.0
0.250	0.00	0.0	100.0
0.106	0.04	0.1	99.9
0.075	0.08	0.2	99.8
Pan	0.10		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	9:45	41.0	6.0	23.0	0.0397	84.7	84.6
2	9:46	38.5	6.0	23.0	0.0287	78.6	78.6
5	9:49	38.0	6.0	23.0	0.0182	77.4	77.4
15	9:59	36.0	6.0	23.0	0.0107	72.6	72.5
30	10:14	35.0	6.0	23.0	0.0076	70.1	70.1
60	10:44	32.5	6.0	23.0	0.0055	64.1	64.1
250	1:54	29.0	6.0	23.0	0.0028	55.6	55.6
1440	9:44	25.0	6.0	23.0	0.0012	46.0	45.9

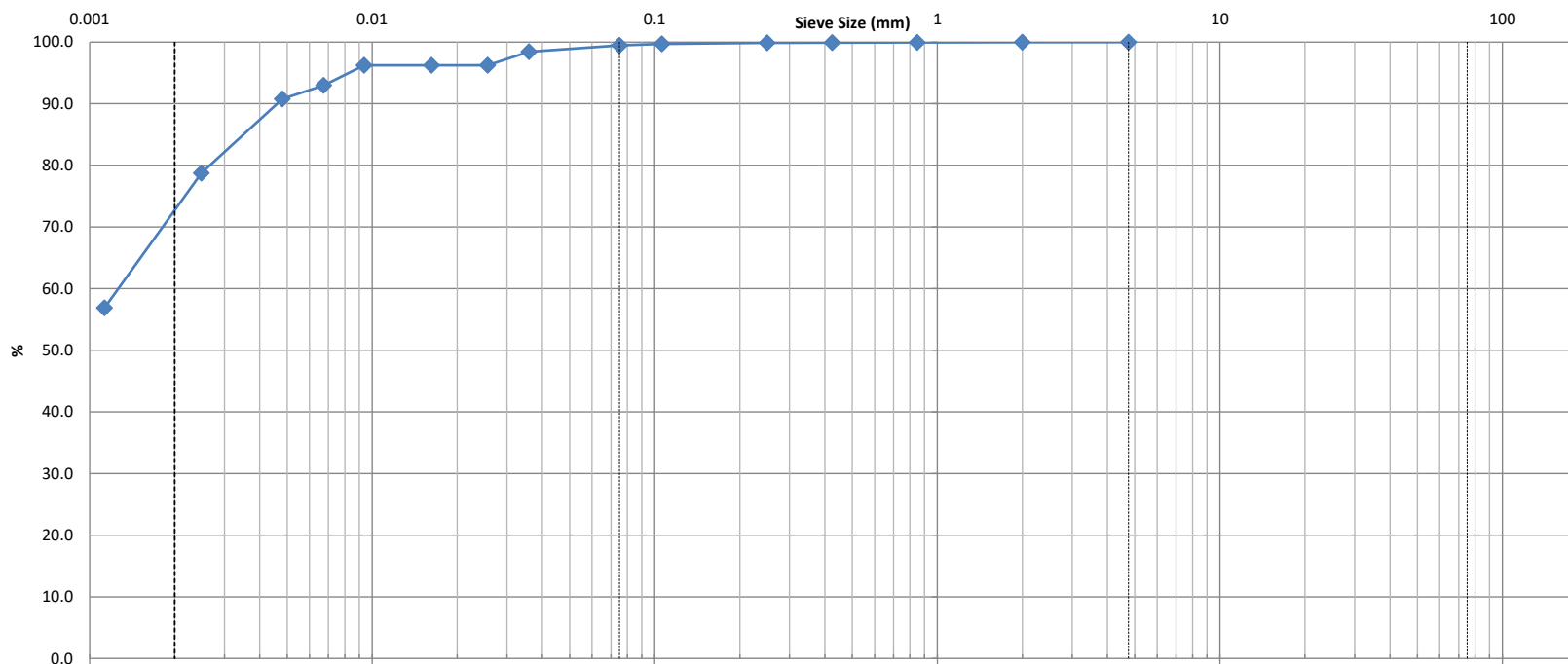
Moisture = 49.4%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		



SIEVE ANALYSIS
ASTM C136

CLIENT:	Terrapex	DEPTH:	-	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 113-2	LAB NO:	51323
PROJECT:	C0952.01			DATE RECEIVED:	22-Mar-24
				DATE TESTED:	25-Mar-24
DATE SAMPLED:	5-Mar-24			DATE REPORTED:	1-Apr-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification				MC(%)	LL	PL	PI	Cc	Cu
	MH - Elastic Silt				42.7%	86	29	27		
	D100	D60	D30	D10	Gravel (%)	Sand (%)	Silt (%)	Clay (%)		
					0.0	0.5	28.3	71.2		

Comments:	Brown - Grey Clay
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REVIEWED BY:	Curtis Beadow	Joe Forsyth, P. Eng.

CLIENT:	Terrapex	DEPTH:	-	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 113-2	DATE SAMPLED:	5-Mar-24
LAB No. :	51323	TESTED BY:	C.M	DATE RECEIVED:	22-Mar-24
SAMPLED BY:	-	DATE REPT'D:	1-Apr-24	DATE TESTED:	25-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
120.3		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	42.96	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.27	AIR DRY	140.00
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	120.30
		CORRECTED	0.859

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	120.3		
0.850	0.01	0.0	100.0
0.425	0.02	0.1	99.9
0.250	0.04	0.1	99.9
0.106	0.13	0.3	99.7
0.075	0.25	0.5	99.5
Pan	0.27		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	8:44	51.0	6.0	23.0	0.0359	98.5	98.4
2	8:45	50.0	6.0	23.0	0.0256	96.3	96.2
5	8:48	50.0	6.0	23.0	0.0162	96.3	96.2
15	8:58	50.0	6.0	23.0	0.0094	96.3	96.2
30	9:13	48.5	6.0	23.0	0.0067	93.0	93.0
60	9:43	47.5	6.0	23.0	0.0048	90.8	90.8
250	0:53	42.0	6.0	23.0	0.0025	78.8	78.7
1440	8:43	32.0	6.0	23.0	0.0011	56.9	56.9

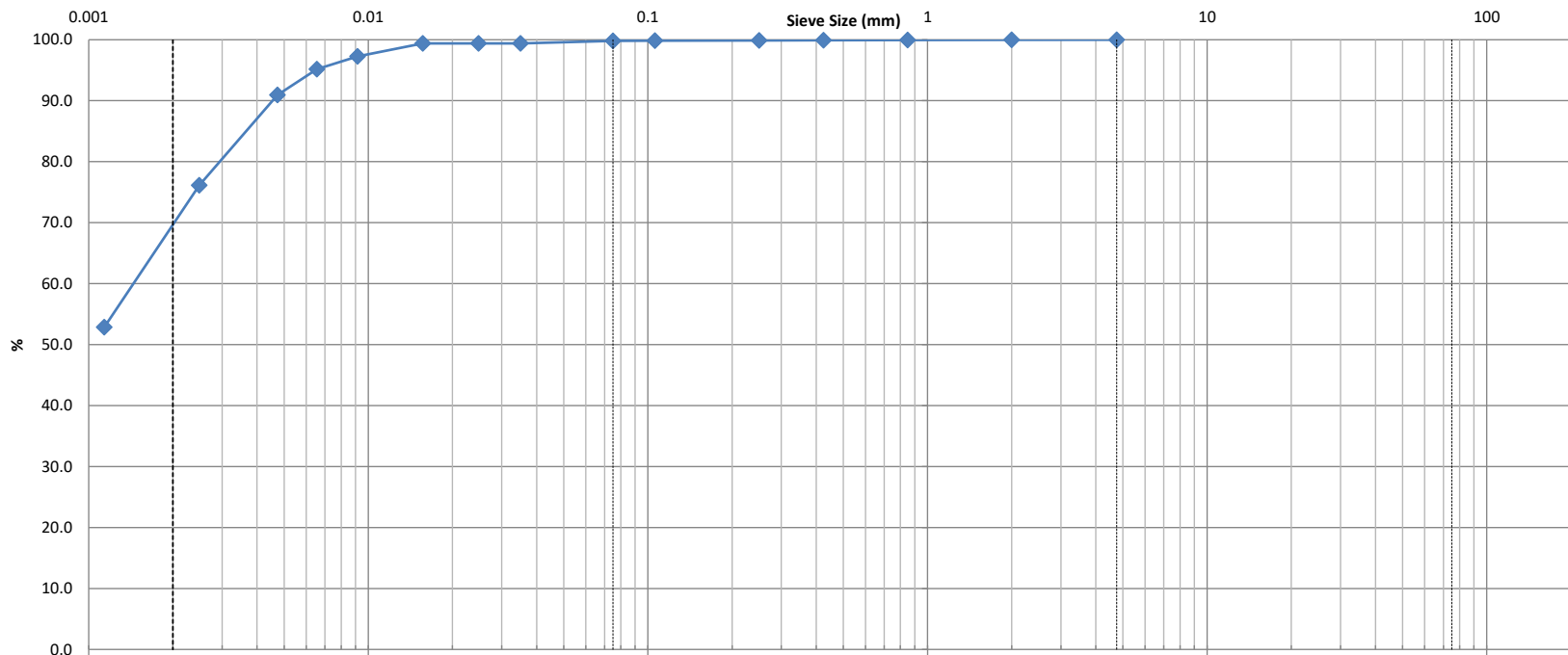
Moisture = 42.7%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		



SIEVE ANALYSIS
ASTM C136

CLIENT:	Terrapex	DEPTH:	-	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 113-4	LAB NO:	51324
PROJECT:	C0952.01			DATE RECEIVED:	22-Mar-24
				DATE TESTED:	25-Mar-24
DATE SAMPLED:	5-Mar-24			DATE REPORTED:	1-Apr-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification				MC(%)	LL	PL	PI	Cc	Cu
	CH - Fat Clay				63.4%	81	27	53		
	D100	D60	D30	D10	Gravel (%)	Sand (%)	Silt (%)	Clay (%)		
					0.0	0.2	29.8	70.0		

Comments:	Grey Clay
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REVIEWED BY:	Curtis Beadow	Joe Forsyth, P. Eng.

CLIENT:	Terrapex	DEPTH:	-	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 113-4	DATE SAMPLED:	5-Mar-24
LAB No. :	51324	TESTED BY:	C.M	DATE RECEIVED:	22-Mar-24
SAMPLED BY:	-	DATE REPT'D:	1-Apr-24	DATE TESTED:	25-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
110.9		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	38.06	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.09	AIR DRY	145.70
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	110.90
		CORRECTED	0.761

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	110.9		
0.850	0.01	0.0	100.0
0.425	0.03	0.1	99.9
0.250	0.05	0.1	99.9
0.106	0.07	0.2	99.8
0.075	0.08	0.2	99.8
Pan	0.09		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	8:48	53.0	6.0	23.0	0.0351	99.4	99.4
2	8:49	53.0	6.0	23.0	0.0248	99.4	99.4
5	8:52	53.0	6.0	23.0	0.0157	99.4	99.4
15	9:02	52.0	6.0	23.0	0.0092	97.3	97.3
30	9:17	51.0	6.0	23.0	0.0065	95.2	95.2
60	9:47	49.0	6.0	23.0	0.0047	91.0	90.9
250	0:57	42.0	6.0	23.0	0.0025	76.1	76.1
1440	8:47	31.0	6.0	23.0	0.0011	52.9	52.9

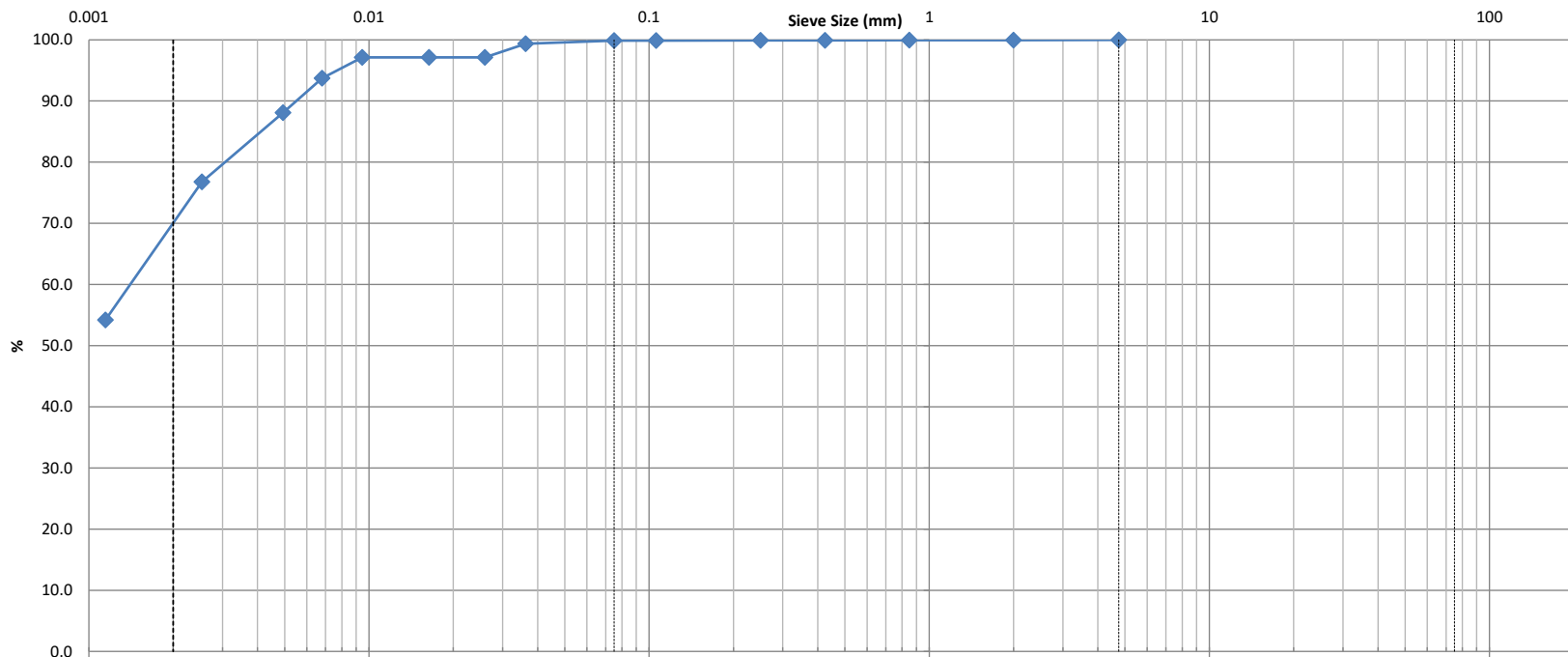
Moisture = 63.4%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		



SIEVE ANALYSIS
ASTM C136

CLIENT:	Terrapex	DEPTH:	-	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 113-10	LAB NO:	51325
PROJECT:	C0952.01			DATE RECEIVED:	22-Mar-24
				DATE TESTED:	25-Mar-24
DATE SAMPLED:	5-Mar-24			DATE REPORTED:	1-Apr-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification				MC(%)	LL	PL	PI	Cc	Cu
	CH - Fat Clay				74.2%	85	30	56		
	D100	D60	D30	D10	Gravel (%)	Sand (%)	Silt (%)	Clay (%)		
					0.0	0.1	29.9	70.0		

Comments:	Grey Clay
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REVIEWED BY:	Curtis Beadow	Joe Forsyth, P. Eng.

CLIENT:	Terrapex	DEPTH:	-	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 113-10	DATE SAMPLED:	5-Mar-24
LAB No. :	51325	TESTED BY:	C.M	DATE RECEIVED:	22-Mar-24
SAMPLED BY:	-	DATE REPT'D:	1-Apr-24	DATE TESTED:	25-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
96.0		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	37.18	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.04	AIR DRY	129.10
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	96.00
		CORRECTED	0.744

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	96.0		
0.850	0.00	0.0	100.0
0.425	0.02	0.1	99.9
0.250	0.03	0.1	99.9
0.106	0.04	0.1	99.9
0.075	0.04	0.1	99.9
Pan	0.04		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	9:06	50.0	6.0	23.0	0.0363	99.4	99.4
2	9:07	49.0	6.0	23.0	0.0259	97.1	97.1
5	9:10	49.0	6.0	23.0	0.0164	97.1	97.1
15	9:20	49.0	6.0	23.0	0.0095	97.1	97.1
30	9:35	47.5	6.0	23.0	0.0068	93.8	93.7
60	10:05	45.0	6.0	23.0	0.0049	88.1	88.1
250	1:15	40.0	6.0	23.0	0.0025	76.8	76.8
1440	9:05	30.0	6.0	23.0	0.0011	54.2	54.2

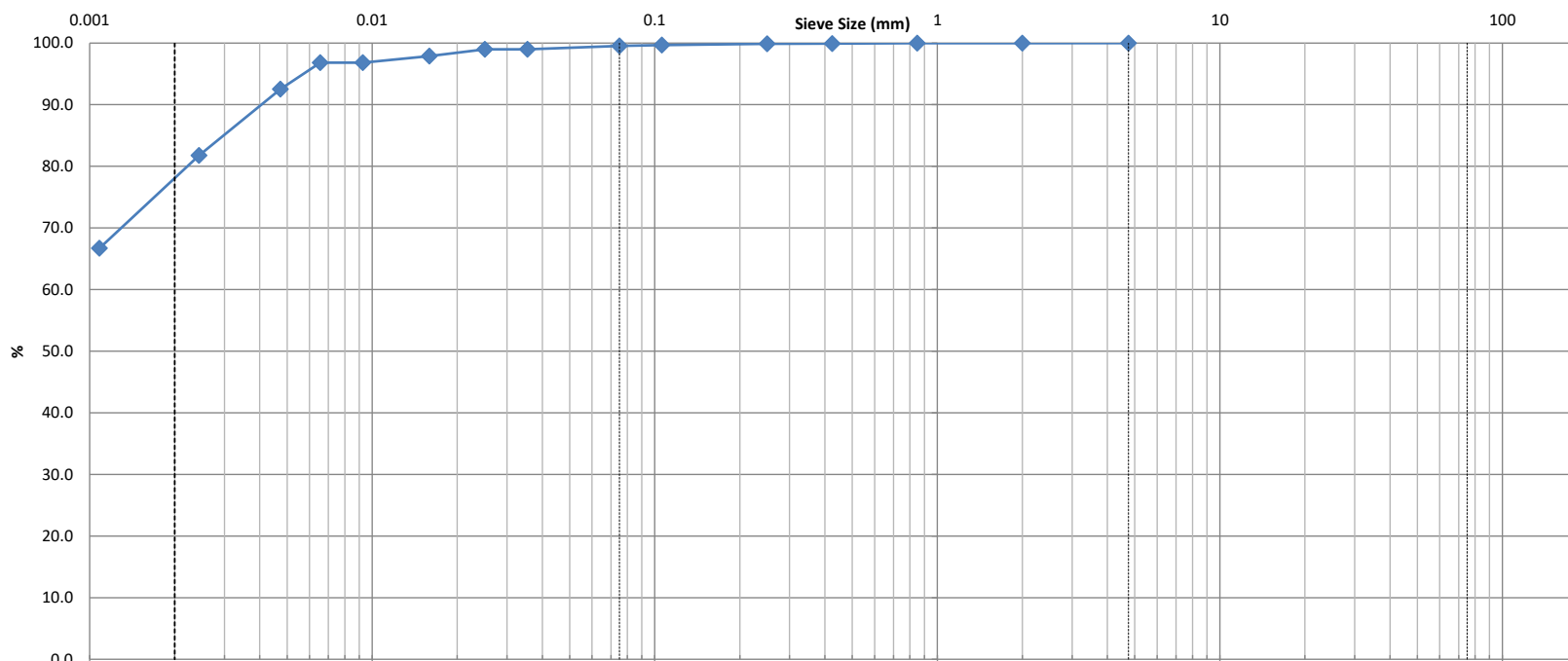
Moisture = 74.2%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		



SIEVE ANALYSIS
ASTM C136

CLIENT:	Terrapex	DEPTH:	-	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 114-3	LAB NO:	51326
PROJECT:	C0952.01			DATE RECEIVED:	22-Mar-24
				DATE TESTED:	25-Mar-24
DATE SAMPLED:	6-Mar-24			DATE REPORTED:	1-Apr-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification				MC(%)	LL	PL	PI	Cc	Cu
	CH - Fat Clay				28.8%	76	30	48		
	D100	D60	D30	D10	Gravel (%)	Sand (%)	Silt (%)	Clay (%)		
					0.0	0.4	20.6	79.0		

Comments:	Brown - Grey Clay
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REVIEWED BY:	Curtis Beadow	Joe Forsyth, P. Eng.

CLIENT:	Terrapex	DEPTH:	-	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 114-3	DATE SAMPLED:	6-Mar-24
LAB No. :	51326	TESTED BY:	C.M	DATE RECEIVED:	22-Mar-24
SAMPLED BY:	-	DATE REPT'D:	1-Apr-24	DATE TESTED:	25-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
111.5		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	45.07	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.25	AIR DRY	123.70
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	111.50
		CORRECTED	0.901

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	111.5		
0.850	0.00	0.0	100.0
0.425	0.02	0.1	99.9
0.250	0.04	0.1	99.9
0.106	0.14	0.3	99.7
0.075	0.21	0.4	99.6
Pan	0.25		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	9:10	52.0	6.0	23.0	0.0355	99.0	99.0
2	9:11	52.0	6.0	23.0	0.0251	99.0	99.0
5	9:14	51.5	6.0	23.0	0.0160	97.9	97.9
15	9:24	51.0	6.0	23.0	0.0093	96.9	96.8
30	9:39	51.0	6.0	23.0	0.0065	96.9	96.8
60	10:09	49.0	6.0	23.0	0.0047	92.5	92.5
250	1:19	44.0	6.0	23.0	0.0024	81.8	81.8
1440	9:09	37.0	6.0	23.0	0.0011	66.7	66.7

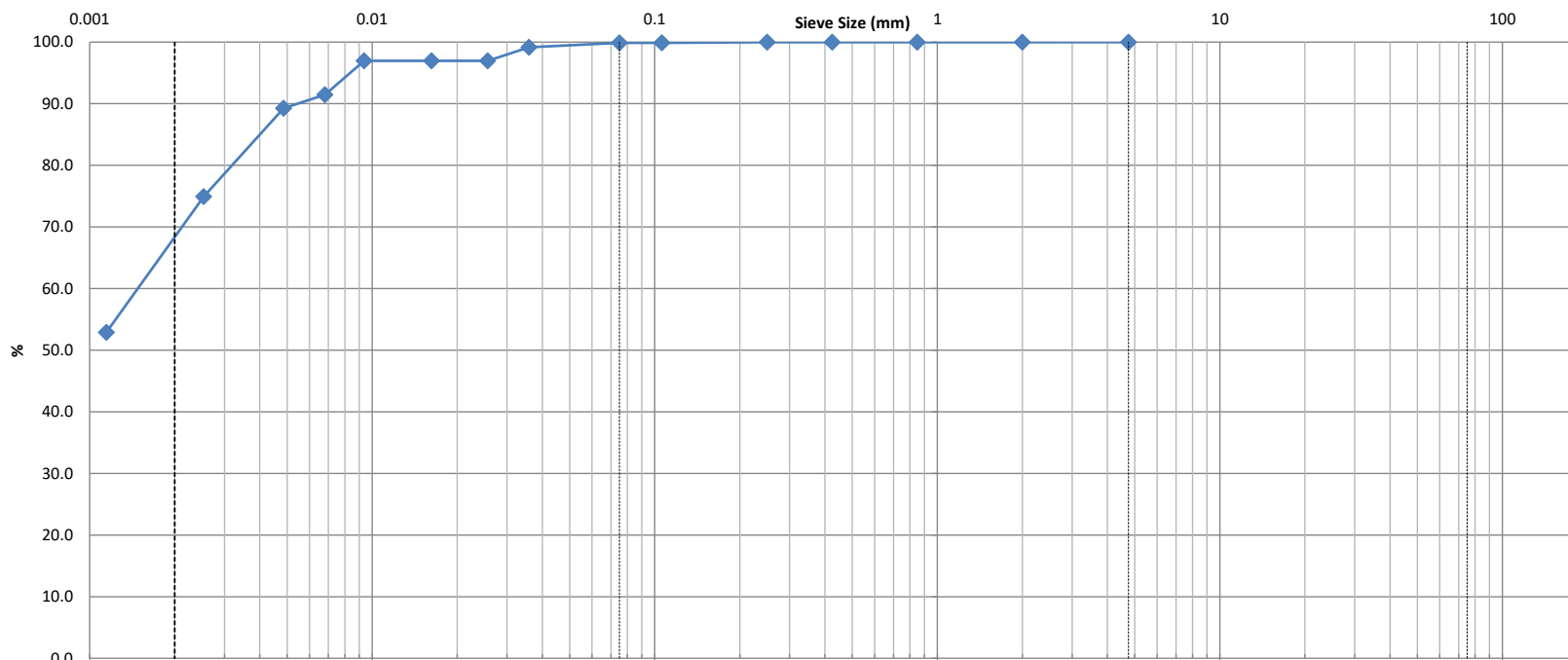
Moisture = 28.8%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		



SIEVE ANALYSIS
ASTM C136

CLIENT:	Terrapex	DEPTH:	-	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 114-9	LAB NO:	51327
PROJECT:	C0952.01			DATE RECEIVED:	22-Mar-24
				DATE TESTED:	25-Mar-24
DATE SAMPLED:	6-Mar-24			DATE REPORTED:	1-Apr-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification				MC(%)	LL	PL	PI	Cc	Cu
	CH - Fat Clay				71.9%	83	30	53		
	D100	D60	D30	D10	Gravel (%)	Sand (%)	Silt (%)	Clay (%)		
					0.0	0.1	30.4	69.5		

Comments:	Grey Clay
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REVIEWED BY:	Curtis Beadow	Joe Forsyth, P. Eng.

CLIENT:	Terrapex	DEPTH:	-	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 114-9	DATE SAMPLED:	6-Mar-24
LAB No. :	51327	TESTED BY:	C.M	DATE RECEIVED:	22-Mar-24
SAMPLED BY:	-	DATE REPT'D:	1-Apr-24	DATE TESTED:	25-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
103.3		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	37.54	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.07	AIR DRY	137.60
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	103.30
		CORRECTED	0.751

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	103.3		
0.850	0.00	0.0	100.0
0.425	0.00	0.0	100.0
0.250	0.00	0.0	100.0
0.106	0.04	0.1	99.9
0.075	0.05	0.1	99.9
Pan	0.07		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	9:36	51.0	6.0	23.0	0.0359	99.2	99.2
2	9:37	50.0	6.0	23.0	0.0256	97.0	97.0
5	9:40	50.0	6.0	23.0	0.0162	97.0	97.0
15	9:50	50.0	6.0	23.0	0.0094	97.0	97.0
30	10:05	47.5	6.0	23.0	0.0068	91.5	91.5
60	10:35	46.5	6.0	23.0	0.0049	89.3	89.3
250	1:45	40.0	6.0	23.0	0.0025	75.0	74.9
1440	9:35	30.0	6.0	23.0	0.0011	52.9	52.9

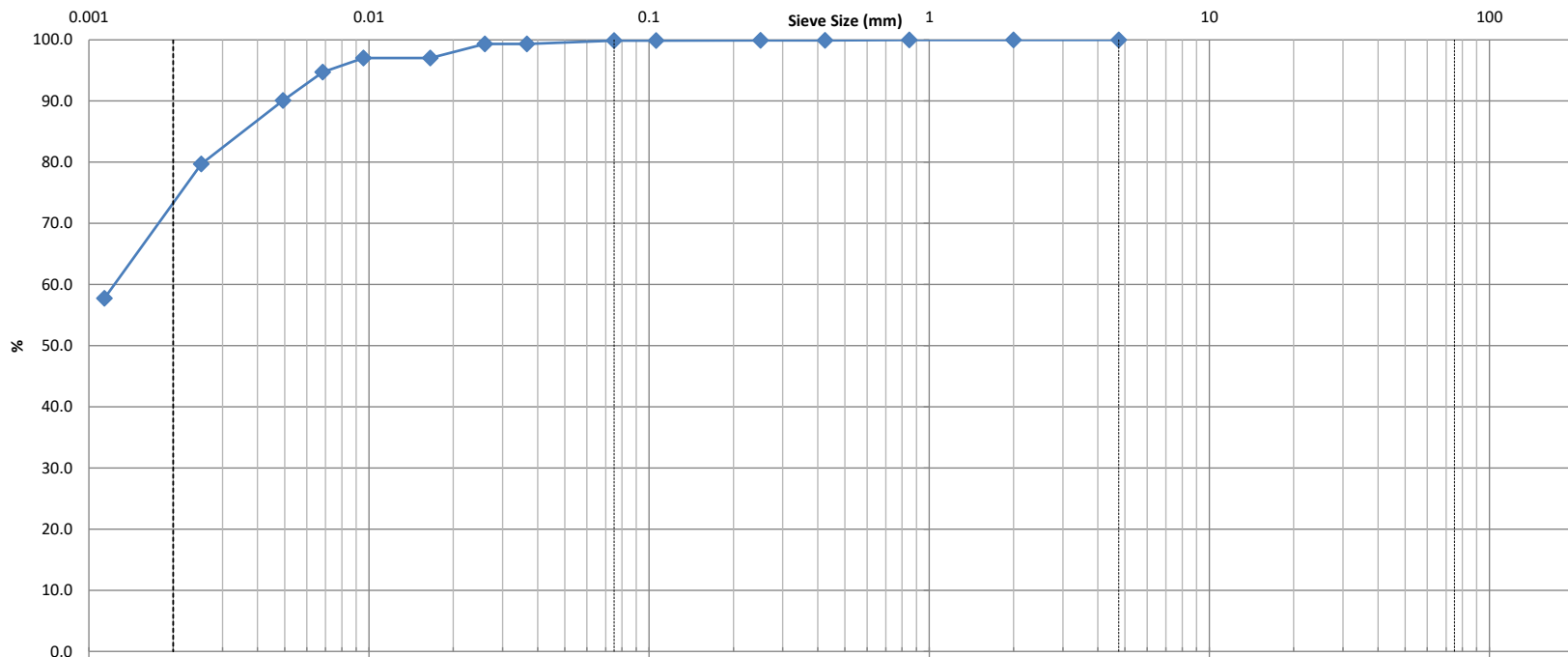
Moisture = 71.9%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		



SIEVE ANALYSIS
ASTM C136

CLIENT:	Terrapex	DEPTH:	-	FILE NO:	PM12708
CONTRACT NO.:		BH OR TP No.:	MW 114-15	LAB NO:	51328
PROJECT:	C0952.01			DATE RECEIVED:	22-Mar-24
				DATE TESTED:	25-Mar-24
DATE SAMPLED:	6-Mar-24			DATE REPORTED:	1-Apr-24
SAMPLED BY:	-			TESTED BY:	C.M



Clay	Silt	Sand			Gravel		Cobble
		Fine	Medium	Coarse	Fine	Coarse	

Identification	Soil Classification				MC(%)	LL	PL	PI	Cc	Cu
	CL - Lean Clay				64.9%	42	26	17		
	D100	D60	D30	D10	Gravel (%)		Sand (%)		Silt (%)	
					0.0		0.1		27.4	
									72.5	

Comments:	Grey Clay
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REVIEWED BY:	Curtis Beadow	Joe Forsyth, P. Eng.

CLIENT:	Terrapex	DEPTH:	-	FILE NO.:	PM12708
PROJECT:	C0952.01	BH OR TP No.:	MW 114-15	DATE SAMPLED:	6-Mar-24
LAB No. :	51328	TESTED BY:	C.M	DATE RECEIVED:	22-Mar-24
SAMPLED BY:	-	DATE REPT'D:	1-Apr-24	DATE TESTED:	25-Mar-24

SAMPLE INFORMATION

SAMPLE MASS		SPECIFIC GRAVITY	
108.1		2.700	
INITIAL WEIGHT	50.00	HYGROSCOPIC MOISTURE	
WEIGHT CORRECTED	39.17	TARE WEIGHT	0.00
WT. AFTER WASH BACK SIEVE	0.05	AIR DRY	138.00
SOLUTION CONCENTRATION	40 g/L	OVEN DRY	108.10
		CORRECTED	0.783

GRAIN SIZE ANALYSIS

SIEVE DIAMETER (mm)	WEIGHT RETAINED (g)	PERCENT RETAINED	PERCENT PASSING
26.5			
19			
13.2			
9.5			
4.75	0.0	0.0	100.0
2.0	0.0	0.0	100.0
Pan	108.1		
0.850	0.00	0.0	100.0
0.425	0.02	0.1	99.9
0.250	0.03	0.1	99.9
0.106	0.04	0.1	99.9
0.075	0.05	0.1	99.9
Pan	0.05		
SIEVE CHECK	0.0	MAX = 0.3%	

HYDROMETER DATA

ELAPSED	TIME (24 hours)	Hs	Hc	Temp. (°C)	DIAMETER	(P)	TOTAL PERCENT PASSING
1	9:40	49.0	6.0	23.0	0.0367	99.4	99.3
2	9:41	49.0	6.0	23.0	0.0259	99.4	99.3
5	9:44	48.0	6.0	23.0	0.0166	97.0	97.0
15	9:54	48.0	6.0	23.0	0.0096	97.0	97.0
30	10:09	47.0	6.0	23.0	0.0068	94.7	94.7
60	10:39	45.0	6.0	23.0	0.0049	90.1	90.1
250	1:49	40.5	6.0	23.0	0.0025	79.7	79.7
1440	9:39	31.0	6.0	23.0	0.0011	57.8	57.7

Moisture = 64.9%

REVIEWED BY:	C. Beadow	Joe Forsyth, P. Eng.
		

APPENDIX IV
QUALIFICATION OF THE ASSESSORS

Education: M.Eng. Environmental Engineering 2022 University of Ottawa, Ottawa

Safety and Technical Training: First Aid and CPR/AED Level C
Petroleum Oriented Safety Training (POST)
Workplace Hazardous Materials Information System (WHMIS)
40-hour OSHA Training Course for Hazardous Waste Operations (HAZWOPER)

Experience:

2022 to Present – Terrapex Environmental Ltd., Ottawa, ON

Environmental Scientist

- Conducted interviews, and site inspections, adhering to O. Reg. 153/04.
- Prepared Phase II (ESA) reports, groundwater monitoring reports, and remediation reports.
- Established strong client relationships, managed project coordination, provided cost estimates, conducted methodological and project analysis.
- Oversaw borehole drilling, monitoring well installation, tank pulls, and groundwater monitoring and sampling.
- Collected samples of soil, groundwater, surface water, wastewater, sanitary effluent, ambient air, and soil vapor for subsequent laboratory analysis.
- Supervised and directed test pitting.
- Managed drilling programs for geotechnical studies, including in situ testing, soil sample collection, and the preparation of field borehole log sheets, as well as instrumentation installation.
- Analyzed groundwater monitoring data and laboratory results against federal and provincial standards for compliance assessment.
- Produced figures and charts to visually represent data findings.
- Ensured Quality Assurance/Quality Control (QA/QC) of outgoing documents.

Representative projects include the following:

In 2022, as part of the Petroleum Client project, I carried out field activities for a comprehensive assessment of shallow soil and groundwater conditions at a former retail fuel facility in London, Ontario. My role encompassed several key responsibilities, such as:

- Coordinating closely with drilling and contracting firms to ensure project efficiency.
- Developing site-specific health and safety plans to ensure a secure work environment.
- Overseeing fieldwork activities, maintaining strict supervision throughout the process.
- Implementing a comprehensive site test-pitting program.

In 2023, as part of the Petroleum Client project, I carried out field activities for a comprehensive assessment of shallow soil and groundwater conditions at a retail fuel facility in Burlington, Ontario. My role encompassed several key responsibilities, such as:

- Coordinating closely with drilling and contracting firms to ensure project efficiency.
- Developing site-specific health and safety plans to ensure a secure work environment.
- Overseeing fieldwork activities, maintaining strict supervision throughout the process.
- Conducting site surveys to determine ground surface and groundwater elevations.
- Executing soil and groundwater sampling procedures using established techniques.
- Conducting borehole drilling operations, including monitoring well installation.

Overall, my contributions were essential in gathering critical data for the assessment of this petroleum site.

In 2023, as part of the Petroleum Client project, I carried out field activities for a comprehensive assessment of deep soil and groundwater conditions at a retail fuel facility in Belleville, Ontario. My role encompassed several key responsibilities, such as:

- Coordinating closely with drilling and contracting firms to ensure project efficiency.
- Developing site-specific health and safety plans to ensure a secure work environment.
- Overseeing fieldwork activities, maintaining strict supervision throughout the process.
- Conducting site surveys to determine ground surface and groundwater elevations.
- Executing soil and groundwater sampling procedures using established techniques.
- Conducting borehole drilling operations, including monitoring well installation.

Overall, my contributions were essential in gathering critical data for the assessment of this petroleum site.

In 2023, as part of the City of Ottawa project, I carried out field activities for a comprehensive assessment of shallow soil and groundwater conditions at a former retail fuel facility in Ottawa, Ontario. My role encompassed several key responsibilities, such as:

- Coordinating closely with drilling and contracting firms to ensure project efficiency.
- Developing site-specific health and safety plans to ensure a secure work environment.
- Overseeing fieldwork activities, maintaining strict supervision throughout the process.
- Conducting site surveys to determine ground surface and groundwater elevations.
- Executing soil and groundwater sampling procedures using established techniques.
- Conducting borehole drilling operations, including monitoring well installation.

Overall, my contributions were essential in gathering critical data for the assessment of this petroleum site.

Education:	B.Eng. Biological Engineering (Environmental Option)	2004	Dalhousie University, Halifax
	Dipl. In Pre-Engineering	2002	Cape Breton University, Sydney (formerly University College of Cape Breton)
	Dipl. In Environmental Technology	2001	Cape Breton University, Sydney (formerly University College of Cape Breton)
Professional Associations:	Association of Professional Engineers of Ontario		
Safety Training:	Joint Health and Safety Committee Training (Part 1 and Part 2) Standard First Aid and CPR Petroleum Oriented Safety Training (POST) Workplace Hazardous Materials Information System (WHMIS)		
Continuing Education:	Applied Groundwater Flow and Solute Transport Modeling (Schlumberger, Water Services) Project Management Training (F&M Management Ltd.)		

EXPERIENCE

2005 to present – Terrapex Environmental Ltd., Ottawa, Ontario

Project Manager

Responsible for management of a wide range of office and field tasks associated with site assessment, characterization and remediation projects, as well as preparation of proposals and permit applications.

Typical tasks include:

- Phase One and Two Environmental Site Assessments (ESAs) –Both CSA and O.Reg 153/04
- Filing Record of Site Conditions
- Hydrogeological Investigations
- Applications for Permit to Take Water
- Updating Environmental Compliance Approvals
- Site characterization
- Soil and groundwater remediation (in-situ and ex-situ)
- Sediment and surface water sampling
- Stormwater Management sampling
- Preparation of applications for permits and approvals
- Third party review of remediation activities
- Designated Substance Surveys
- Air sampling
- Canadian Environmental Protection Act (CEPA) toxin research

2004 - Natural Resources of Canada, Bedford Institute of Oceanography, Dartmouth, Nova Scotia

Laboratory Technician

Duties and responsibilities include:

- Analysis of marine sediment from the Scotian shelf for geotechnical properties
- Data compilation

2003 - Engineering Department, Town of Antigonish, Nova Scotia**Assistant to Town Engineer**

Duties and responsibilities include:

- Compilation of waste management data
- Management SCADA system data files
- Daily water sampling for chlorine and pH levels

2002 - Jacques Whitford, Dartmouth, Nova Scotia**Geotech Laboratory Technician**

Duties and responsibilities include:

- Performed sieve analysis, standard proctors, LA abrasion tests, and Atterberg Limits
- Concrete strength testing

2001 - Jacques Whitford, Sydney, Nova Scotia**Geotech Laboratory Technician**

Duties and responsibilities include:

- Performed sieve analysis, standard proctors, LA abrasion tests, and Atterberg Limits
- Concrete strength testing
- Installation and monitoring of methane sampling equipment for environmental monitoring wells

SELECTED PROJECT EXPERIENCE**Phase I/One Environmental Site Assessments**

Various Clients: Research for approximately 48 Phase I ESAs to CSA Z768-01, ASTM Standard E1527-05 or O.Reg 153/04 at various sites in Ontario, including manufacturing facilities, commercial and petroleum retail outlets and vacant lots.

Designated Substance Surveys and Abatements

Suncor: Performed field and reporting tasks for designated substance surveys at former retail gasoline stations. Responsibilities included field work coordination with property managers, visual inspection of the buildings and their contents, sampling of building materials, interpretation of laboratory analytical data, drafting of site plans and report preparation.

SNC Lavalin Operation and Maintenance: Performed field and reporting tasks for designated substance survey at several institutional buildings. Developed specification for the abatement of mould and asbestos containing materials. Provided project management for several abatement projects that consisted of: coordination with the client site managers and abatement contractors; post-abatement air sampling; interpretation of laboratory analytical data; drafting of site plans; and, report preparation.

Phase II/Two Environmental Site Assessments

PWGSC: Conducted a sediment and surface water sampling program in three lakes. Responsibilities included field work coordination with suppliers and boat charters, sediment and surface water sampling, interpretation of laboratory analytical data and comparison to federal and provincial guidelines, drafting of site plans and report preparation.

Various Clients: Conducted field and reporting tasks for soil and groundwater assessments at approximately 55 locations in Ontario, including supervision of borehole drilling, coring bedrock, monitoring well installation, and test pitting.

Suncor: Managed field and reporting tasks for Phase II/TWO ESAs (to meet CSA and/or O.Reg 153/04 requirements) at future and former petroleum retail outlets. Responsibilities have included field work coordination with drilling and contracting companies, supervision of drilling and well installation, excavation of test pits, site surveying for ground surface and groundwater elevations, soil and groundwater sampling, conducting designated substance surveys, interpretation of laboratory analytical data, interpretation of hydrogeological data, drafting of site plans, analytical results figures and groundwater flow diagrams, and report preparation.

NCC: Managed field and reporting tasks for site assessment to evaluate quality and extent of historically imported fill material and investigate potential contamination from historical storage of farm machinery and vehicles on site. Responsibilities have included reviewing available historical aerial/satellite images to identify extents of fill material and location of vehicle/machinery storage, development and supervision of investigation program interpretation of laboratory analytical data, drafting of site plans, analytical results figures and groundwater flow diagrams, and report preparation.

Legal: Performed field and reporting tasks for a Phase Two ESA in support of the filing for a Record of Site Condition following the remediation of a heating oil spill. Responsibilities included field work coordination with drilling and contracting companies, supervision of drilling or coring and well installation, documenting field observations (i.e. visual /olfactory characteristics of soil samples or cores), site surveying for ground surface and groundwater elevations, soil and groundwater sampling, interpretation of laboratory analytical data, interpretation of hydrogeological data, drafting of site plans, analytical results figures and groundwater flow diagrams, and report preparation.

Site Remediation

Suncor: Managed the monitoring and sampling for a soil and groundwater remediation project at a petroleum retail outlet. Helped to design work plan for the delineation and remediation of areas of soil contaminated with gasoline and diesel. Responsibilities included supervision of all excavation activities during the retrofitting of petroleum storage and distribution equipment, collection of confirmatory soil samples, coordinated and supervised the drilling and installation of onsite and offsite monitoring wells, interpretation of laboratory analytical data, drafting of site plans and analytical results figures, and report preparation.

MECP: Reviewed historical data collected in previous Phase I and Phase II ESAs. Designed a multi-technique remediation program to remediate petroleum impacts at a northern Ontario site. Provided project management of the remediation program that included exsitu- and insitu-remediation techniques. The remediation included soil excavation, application of a biostimulant to into excavations and trenches and the injection of a biostimulant using direct-push methodology to address inaccessible and residual impacts. Responsibilities included coordination with the client, sub-contractors and field personal to complete the field program under-budget and within the allocated timeframe, interpretation of laboratory analytical data, drafting of site plans and analytical results figures and report preparation.

Legal client: Provided project management of a remediation of a residential heating oil spill in Ottawa. The work included reviewing previous Phase II ESAs conducted to delineate the impacts, prepare a Phase I ESA to confirm the contaminants of concern, manage the remediation program that included the excavation of impacts (observed in overburden and fractured bedrock) and operation of a groundwater pump and treatment system during the excavation of petroleum impacted bedrock. Responsibilities included coordination with the local municipality to obtain a sanitary sewer use agreement, field staff and contractors during the remediation, neighbouring property owners to obtain permission to access their properties, interpretation of laboratory analytical data and provide updates and pumping summaries to our clients and the local municipality.

Industrial Site Decommissioning

Ultramar Bulk Storage Plant: Supervised field activities and characterized soil conditions during the decommissioning of petroleum storage and distribution equipment and remediation of soil impacts. Responsibilities included field work coordination with general contractors, providing progress updates to client project managers, supervision of AST removal, oil/water separator removal and excavation activities, collection of confirmatory soil samples from the

excavations of petroleum distribution equipment, interpretation of laboratory analytical data, drafting of site plans and analytical results figures, and report preparation. All work was reviewed by a third party consultant.

Commercial Site Decommissioning and Characterizations

Suncor: Supervised field activities associated with decommissioning petroleum retail equipment and/or retrofitting at various sites in Ontario. The projects involved supervision of the removal of underground storage tanks (USTs) and petroleum distribution equipment, removal of contaminated soil (if any), collection of confirmatory soil samples from the walls and floor of the excavations, interpretation of laboratory analytical data, drafting of site plans and analytical results figures, and report preparation.

Pioneer: Supervised field activities and characterized soil conditions during the decommissioning of petroleum storage and distribution equipment at a retail outlet station. Responsibilities included field work coordination with general contractors, providing progress updates to client project managers, supervision of UST removal and excavation activities, collection of confirmatory soil samples from the excavations for petroleum distribution equipment, interpretation of laboratory analytical data, drafting of site plans and analytical results figures, and report preparation.

Environmental Compliance Approvals

Suncor: As part of planned upgrades to on-site infrastructure, it was determined that the existing environmental compliance approval (ECA) for the site would need to be updated to reflect the upgrade work. To update the ECA we reviewed the existing approval, documented any discrepancies between the ECA and the on site infrastructure/operations, confirmed initial calculations and assumptions were still applicable and updated the ECA to meet all current application requirements.

Third Party Review

Suncor: Completed the decommissioning and excavation of the petroleum storage and distribution equipment for a former Petro Canada retail outlet. Decommissioning work included the delineation and remediation of petroleum impacts. Onsite work and reports were reviewed by a third party consultant.

Pioneer (now part of Parkland): Acted as the third party consultant to review and supervise the remediation of a retail petroleum outlet which was being conducted as part of a property transfer agreement between the property owner and our client. Supervised all stages of the remediation, completed the confirmatory sampling to confirm the results of the property owner's consultant and ensure that the terms of the transfer agreement were met.

Storm Water Management

Suncor Bulk Terminal: Coordinated with client and local municipality to address exceedances in the storm water effluent. Reviewed site information and developed investigation program to identify the source of the storm water exceedances. Responsibilities included field work coordination with client and general contractors, providing progress updates to client project managers, collection of storm water samples from oil/water separators, catch basins and manholes, interpretation of laboratory analytical data, drafting of site plans and analytical results figures, and report composition. Following assessment of contamination sources, developed a risk evaluation of current site conditions and available remedial options to assist the client in the selection of the appropriate remedial options to address the storm water exceedance.

Research

Canadian Environmental Protection Act (CEPA): Work included the collection of comprehensive relevant information on selected Canadian Environmental Protection Act (CEPA) toxic substances.