

PHASE II ENVIRONMENTAL SITE ASSESSMENT 6463 TRAFALGAR ROAD MILTON, ONTARIO

Prepared for: TRGI West Properties Inc.

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1.0 EXECUTIVE SUMMARY

York Trafalgar Management Corp. on behalf of TRGI West Properties Inc. c/o Ruland Properties Inc., retained Terraprobe Inc. (Terraprobe) to complete a Phase II Environmental Site Assessment (Phase II ESA) of the property located at 6463 Trafalgar Road in Milton, Ontario, hereinafter referred to as 'the Property'.

The Property is an irregular shaped parcel of land with an area of approximately 4.1 hectares (10.2 acres). For discussion purposes, Trafalgar Road is assumed to be aligned in a north-south direction. The Property has frontage along the east side of Trafalgar Road of approximately 116 m, and extends to the east approximately 300 m. The Property is bound to the north by rural residential properties, to the east and south by agricultural fields, and to the west by Trafalgar Road.

The Property is in mixed residential and agricultural Property Use as defined by the Ministry of the Environment, Conservation and Parks (MECP). It is understood that the potential future use of the Property will be for residential use. It is understood that the Phase II ESA is currently required for due diligence purposes related to the potential purchase of the Property. As the Property will not be changing to a more sensitive property use in the future, a Record of Site Condition (RSC) is not a mandatory requirement of the MECP. If, in the future, an RSC becomes a requirement, the Phase II ESA report will require updates to satisfy all of the requirements of O.Reg. 153/04. The Phase II ESA is required to investigate the Areas of Potential Environmental Concern (APECs) for the Contaminants of Potential Concern (CoPCs) that have been identified on the Property.

A Phase I ESA completed on the Property by Terraprobe entitled, "*Phase I Environmental Site Assessment, 6463 Trafalgar Road, Milton, Ontario;* dated March 9, 2022; File No. 7-22-0008-41", indicated two (2) APECs that were divided into two (2) physical area groups on the Property. The Contaminants of Potential Concern (CoPCs) identified in the Phase I ESA were investigated in this assessment.

The conclusions of the Phase Two II ESA are:

- The applicable Site Condition Standards are the 2011 Ministry of the Environment, Conservation and Parks Table 1 Site Condition Standards for Residential, Parkland, Institutional, Industrial, Commercial, and Community Property Use with coarse textured soils (MECP Table 1 SCS).
- Six (6) boreholes (BH1 to BH6) were completed between May 2nd and May 4th, 2022 extending to depths of 6.1 metres below ground surface (mbgs). Three (3) of the boreholes (BH1, BH3 and BH5) were instrumented with monitoring wells, installed at depths of 6.1 mbgs.
- Based on water level measurements on May 26, 2022, the ground water elevation at all three (3) monitoring wells was 186.7 masl.
- In general the boreholes encountered surficial topsoil and fill material overlying clayey silt glacial till, silts and sands, and a lower clayey silt glacial till stratum.

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- No exceedances of the applicable Site Conditions Standards were noted in the fill or native soil located on the Property.
- No exceedances of the applicable Site Condition Standards were noted in the ground water located on the Property.

2.0 INTRODUCTION

York Trafalgar Management Corp. on behalf of TRGI West Properties Inc. c/o Ruland Properties Inc., retained Terraprobe Inc. (Terraprobe) to complete a Phase II Environmental Site Assessment on the Property located at 6463 Trafalgar Road in Milton, Ontario (the Property). The general location of the Property is presented in Figure 1.

The Property is currently occupied by a residential dwelling and agricultural land. A gravel driveway extends east through the central portion of the Property and leads to a telephone tower located on the southeast corner of the Property. The Property is in mixed residential and agricultural Property Use as defined by the Ministry of the Environment, Conservation and Parks (MECP). It is understood that the potential future use of the Property will be for residential use. On this basis, a Record of Site Condition is not a mandatory requirement with the MECP as the Property is not undergoing a change in Property use to a more sensitive use. If, in the future, an RSC becomes a requirement, the Phase II ESA will require updates to satisfy the requirements of Ontario Regulation 153/04. The work was carried out for due diligence purposes related to the potential purchase of the Property.

2.1 Site Description

The Property is an irregular shaped parcel of land with an area of approximately 4.1 hectares (10.2 acres). For discussion purposes, Trafalgar Road is assumed to be aligned in a north-south direction. The Property has frontage along the east side of Trafalgar Road of approximately 116 m, and extends to the east approximately 300 m. The Property is bound to the north by rural residential properties, to the east and south by agricultural fields, and to the west by Trafalgar Road.

2.2 Property Ownership

The Property information is as follows:

| Municipal Addresses | 6463 Trafalgar Road, Milton |
|---|---|
| Legal Description | PT LT 8, CON 8 TRAF NS, Part 1, 20R6676; Milton/Trafalgar |
| PIN(s) | 24938-0017 (LT) |
| Zoning | The Property is zoned A1 (Agricultural Zone) as per the Town of Milton Zoning By-law 144-2003. |
| Area | Approximately 4.1 hectares (10.2 acres) |
| Property Owner Information | Judith Will |
| Persons, other than Property Owner, who engaged the Qualified Person to conduct the Phase II ESA | Mr. York Gruehl York Trafalgar Management Corp. on behalf of TRGI West Properties Inc. c/o Ruland Properties Inc. |

2.3 Current and Proposed Future Uses

The Property is currently occupied by a residential dwelling and agricultural land. A gravel driveway extends east through the central portion of the Property and leads to a telephone tower located on the southeast corner of the Property. The current property use would be considered mixed Residential and Agricultural Property Use as defined by O.Reg. 153/04.

Terraprobe understands that the proposed future use of the Property will be for Residential Property Use.

2.4 Applicable Site Condition Standard

The applicable soil and ground water Standards for the Property were determined to be those in Table 1 - Full Depth Background Site Condition Standards of the April 15, 2011 Ontario Ministry of the Environment, Conservation and Parks (MECP) "Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act" for Residential, Parkland, Institutional Property Use, coarse textured soil (MECP Table 1 SCS).

These are the applicable Site Condition Standards (SCS) for the following reasons:

- The intended use of the Property is for Residential Property Use.
- The Property is not located within 30 m of a surface water body.
- The Property is located in, adjacent to, or within 30 m of an area of natural significance or provincially significant wetland.
- Bedrock across the Property is found at depths of greater than 2 m.
- The Property is located in an area of Milton where domestic wells are used for drinking water.
- Soil pH was within the ranges within which generic criteria other than the Table 1 (Background) Site Condition Standards may be applied.

Correspondence with the Halton Region indicated that the Property was located within 30 m of an Environmentally Sensitive Area and therefore Table 1: Full Depth Background Site Condition Standards should be applied due to the presence of a natural heritage system located on the southwest portion of the Property.

2.5 Objectives of Investigation

The general objectives of the investigation include the following:

- To determine the concentration and location of Contaminants of Potential Concern (COPCs) identified for the Property, and found through the course of conducting the subsurface investigation, in soil, and ground water, as applicable.
- To prepare a report detailing the condition of the Property to be used for due diligence purposes.



To ensure that the general objectives of the investigation were met, the Qualified Person ensured the following:

- That the investigation provided sufficient information to provide an understanding of the geological and hydrogeological conditions at the Property; and
- That one or more rounds of field sampling are conducted for all COPCs found through the course of conducting the Subsurface Investigation, in soil, and ground water, as applicable.

3.0 BACKGROUND INFORMATION

3.1 Physical Setting

The ground surface elevation in the vicinity of the Property is approximately 190 m above mean sea level and approximately 5 metres above the level of East Sixteen Mile Creek, located to the southwest. The ground surface in the area of the Property slopes to the southwest.

The nearest water body is a tributary of East Sixteen Mile Creek, located approximately 22 m southeast of the Property. East Sixteen Mile Creek located approximately 100 m southwest of the Property. The approximate depth to ground water is 3.0 to 4.0 m below ground surface as indicated by a well record within the Study Area. Ground water is interpreted to flow towards the southwest.

Based on published geological information for the general area, the near surface soil at and in the vicinity of the subject Property generally consists of Pleistocene age Halton Till, comprised predominantly of silt to silty clay, high in matrix carbonate content and clast poor.

The Borehole logs and the grain size analyses are found in Appendix A and B, respectfully.

3.2 Previous Investigation Review

Previous environmental investigations for the Property are summarized below:

Terraprobe has previously completed a Phase I ESA of the Property in March 2022. The results of the investigation were presented in the following report.

| Report Title | Phase I Environmental Site Assessment, 6463 Trafalgar Road, Milton, Ontario |
|--------------|---|
| Report Date | March 9, 2022 |
| Prepared By | Terraprobe Inc. File no 7-22-0008-41 |
| Prepared For | TRGI West Properties Inc. c/o Ruland Properties Inc. |

- The objective of the investigation was to assess the environmental condition of the Property in order to identify any potentially contaminating activities (PCAs) on the Property or within the Phase I Study Area.
- Based on the PCAs, issues of obvious or potential environmental concern with respect to the Property were identified.
- The Phase I ESA identified two (2) APECs on the Property caused by two (2) on-site PCAs. The APECs have been divided into two (2) area groups on the Property.
- A Phase II ESA was recommended in order to eliminate the concern of potential adverse environmental impact on the Phase I Property.

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| Area of Potential Environmental Concern | Location of Area of Potential Environmental Concern on Phase I Property | Potentially Contaminating Activity | Location of PCA (On-Site or Off- Site) | Contaminants of Potential Concern | Media Potentially Impacted (Ground- water, soil and/or sediment) |
|--|---|---|--|---|--|
| APEC 1: (On-Site) Former dwelling infilling | Area of former dwelling (southwest portion of Property) | #30 – Importation of Fill Material of Unknown Quality | On-site | Metals, Hydride Metals, ORPs, PHCs, VOCs, BTEX, PAHs, OCs | Soil and Ground Water |
| APEC 2: (On-Site) Historical agricultural use | Agricultural Portion of the Property | #40 – Pesticides (including herbicides, fungicides and anti-fouling agent) manufacturing, processing, bulk storage and large-scale applications | On-site | Metals, H-M, CN-, CR(VI), Hg, OCs | Soil and Ground Water |

4.0 SCOPE OF THE INVESTIGATION

4.1 Overview of Site Investigation

In May 2022, Terraprobe conducted the following subsurface work at the Property. The subsurface work was completed as part of the concurrent Geotechnical Investigation to satisfy the requirements of the Phase II ESA:

- Completion of six (6) boreholes (BH1 to BH6) to a maximum depth of 6.1 m below existing grades.
- Installation of monitoring wells in three (3) boreholes (BH1, BH3 and BH5) to depths of 6.1 m.
- Laboratory analysis of selected soil samples for parameters including:
 - o Metals
 - Hydride Metals
 - Other Regulated Parameters (ORPs)
 - Boron, hot water soluble (HWS)
 - Mercury (Hg)
 - Cyanide (CN-)
 - Hexavalent Chromium (CrVI)
 - pH
 - Volatile Organic Compounds (VOCs)
 - o Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)
 - Petroleum Hydrocarbons (PHCs)
 - o Polycyclic Aromatic Hydrocarbons (PAHs)
 - Organochlorine Pesticides (OC Pest)
- Survey of all boreholes and monitoring wells to a geodetic benchmark
- Measurement of ground water elevations to determine ground water elevation and flow direction
- Development and sampling of all monitoring wells
- Laboratory analyses of ground water in three (3) monitoring wells (BH1, BH3 and BH5) for:
 - o Metals
 - Hydride Metals
 - Other Regulated Parameters (ORPs)
 - Mercury (Hg)
 - Cyanide (CN-)
 - Hexavalent Chromium (CrVI)
 - pH
 - Volatile Organic Compounds (VOCs)
 - o Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)
 - o Petroleum Hydrocarbons (PHCs)
 - o Polycyclic Aromatic Hydrocarbons (PAHs)
 - Organochlorine Pesticides (OC Pest)

The table below summarizes the scope of work conducted by Terraprobe during the Phase II ESA. The number of samples conducted includes duplicate analyses but does not include the trip blank that was collected. Field protocols are provided in Appendix C.

| Date | Scope of Investigation | Scope of Soil Analysis | Scope of Ground Water Analysis |
|--------------|--|---|--|
| May 2, 2022 | Drilled four (4) boreholes (BH1 to BH4) and sampled for soil Installed two (2) monitoring wells (BH1 and BH3) | 6 metals analyses 6 H-M analyses 6 ORPs analyses 3 PHC analyses 3 BTEX analyses 3 VOC analyses 3 PAH analyses 4 OC Pest analyses | |
| May 3, 2022 | Drilled one (1) borehole (BH5) and sampled for soil Installed one (1) monitoring wells (BH5) | 1 metals analysis 1 H-M analysis 1 ORPs analysis 1 OC Pest analysis | |
| May 4, 2022 | Drilled one (1) borehole (BH6) and sampled for soil | 1 metals analysis 1 H-M analysis 1 ORPs analysis 1 OC Pest analysis | |
| May 17, 2022 | Took water levels of all monitoring wells (BH1, BH3 and BH5) Developed all monitoring wells (BH1, BH3 and BH5) Surveyed all borehole and monitoring well locations | | |
| May 26, 2022 | Took water levels of all monitoring wells (BH1, BH3 and BH5) Stabilized and sampled all monitoring wells (BH1, BH3 and BH5) | | 4 metals analyses 4 H-M analyses 4 ORPs analyses 2 VOC analyses 2 PHCs analyses 2 BTEX analyses 3 OC Pest analyses 2 PAH analyses |
| July 8, 2022 | Took water levels of all monitoring wells (BH1, BH3 and BH5) Stabilized and sampled all monitoring wells (BH1, BH3 and BH5) | | 3 metals analyses |

Notes:

- PHCs Petroleum Hydrocarbons
- VOCs Volatile Organic Compounds
- H-M Hydride Metals
- PAHs Polycyclic Aromatic Hydrocarbons
- BTEX Benzene, Toluene, Ethylbenzene, Xylene
- OCs Organochlorine Pesticides
- ORPs Other Regulated Parameters (for soil include B-HWS, CN-, CrVI, Hg, pH, EC and SAR) (for ground water include CN-, CrVI, Hg, Na, Cl-, pH)



4.2 Media Investigated

Sampling and analysis was conducted for soil and ground water on the Property. No surface water bodies were present on the Property; therefore, sediment sampling and surface water sampling was not conducted as part of this investigation. Soil sampling of boreholes was conducted by use of a split spoon sampling device. Ground water samples were collected with a peristaltic pump.

4.3 Deviations from Sampling and Analysis Plan

There were no deviations from the sampling and analysis plan during the investigation.

4.4 Impediments

There were no impediments during the Phase II ESA.

5.0 INVESTIGATION METHOD

5.1 General

Public and private utility clearances were undertaken prior to commencing the subsurface investigation. The investigation generally followed the methods outlined in the following documents:

• Ontario Ministry of the Environment, Conservation and Parks "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario" (December 1996)

The methods used during the subsurface investigation did not differ from the associated standard operating procedures.

5.2 Drilling

The drilling information from the Phase II ESA is provided below:

| Borehole | BH1 to BH6 |
|-----------------------------|---|
| Date of Work | May 2 nd to 4 th , 2022 |
| Name of Contractor | Kodiak Drilling |
| Equipment Used | Track mounted drill rig (Geoprobe), 2 inch split spoon sampling device. |
| Decontamination Measures | The split spoon sampling device was washed between each sample to minimize the potential for cross-contamination. |
| Sampling Frequency | Please refer to the borehole logs in Appendix A for the sampling frequency. |

5.3 Soil: Sampling

Soil samples for submission for analytical testing were collected from the split spoon samples. Samples were collected and submitted from fill and native soil, were applicable. Terraprobe personnel carried out all sampling of the materials. A clean pair of disposable latex gloves was worn for each sample.

The boreholes were sampled on the dates provided in the table below:

| Sample | Depth / Elev. | Strata | Date | | | | Soil | | | | |
|-----------------------|-----------------------------|-----------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
| IĎ | (m) / (masl) | Strata | Sampled | Metals | H-M | ORPs | VOCs | PHCs | BTEX | OC Pest | PAHs |
| BH1 SA1 | 0.0-0.6/ 188.6- 188.0 | Fill | May 2/22 | √ | ✓ | ✓ | | | | ✓ | √ |
| BH1 SA2 | 0.8-1.4/ 187.8- 187.2 | Fill | May 2/22 | | | | ✓ | ✓ | ✓ | | |
| BH1 SA4 | 2.3-2.9/ 186.3- 185.7 | Native | May 2/22 | ✓ | ✓ | ✓ | | | | | ✓ |
| BH1 SA5 | 3.1-3.7/ 185.5- 184.9 | Native | May 2/22 | | | | ✓ | ✓ | ✓ | | |
| BH3 SA1 | 0.0-0.6/ 188.6- 188.0 | Fill | May 2/22 | ✓ | ✓ | ✓ | | | | ✓ | |
| BH3 SA2 | 0.8-1.4/ 187.8- 187.2 | Fill/Nativ e | May 2/22 | | | | ✓ | ✓ | ✓ | | |
| BH4 SA1 | 0.0-0.6/ 189.6- 189.0 | Fill | May 2/22 | ✓ | ✓ | ✓ | | | | ✓ | |
| BH4 SA2 | 0.8-1.4/ 188.8- 188.2 | Fill | May 2/22 | | | | ✓ | ✓ | ✓ | | |
| BH5 SA1 | 0.0-0.6/ 188.5- 187.9 | Native | May 3/22 | ✓ | ✓ | ✓ | | | | ✓ | |
| BH6 SA1 | 0.0-0.6/ 188.2- 187.6 | Fill | May 4/22 | ✓ | ✓ | ✓ | | | | ✓ | |
| Dup 1 (BH4 SA1) | 0.0-0.6/ 189.6- 189.0 | Fill | May 2/22 | ✓ | ✓ | ✓ | | | | ✓ | |
| Dup 2 (BH1 SA4) | 2.3-2.9/ 186.3- 185.7 | Native | May 2/22 | ~ | ✓ | ✓ | | | | | ✓ |
| Dup 3 (BH1 SA5) | 3.1-3.7/ 185.5- 184.9 | Native | May 2/22 | | | | ✓ | ✓ | ✓ | | |

5.4 Soil: Field Screening Measurements

Soil samples were screened in the field using portable hydrocarbon vapour testing equipment and following the procedure outlined in the "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario", MECP, December 1996.

Samples were screened using an RKI Instruments EAGLE Monitor. The monitor has a range of 0 parts per million (ppm) to 50,000 ppm and an accuracy of +/- 5%. The monitor was calibrated with hexane prior to



field screening as per the calibration procedure outlined by RKI Instruments in "Instruction Manual Eagle Series Portable Multi-Gas Detector 71-0028RK" released July 2001.

Field screening measurements were used to help select samples for laboratory analysis. Complete field screening readings are provided on the borehole logs in Appendix A.

5.5 Ground Water: Monitoring Well Installation

Monitoring wells were installed in three (3) boreholes (BH1, BH3 and BH8) by a drilling sub-contractor on May 2nd and 3rd, 2022 under the supervision of an experienced Terraprobe field technician. All monitoring wells were constructed of 50-mm (2-in) ID PVC screens and risers. Filter sand was placed around the well screen to approximately 0.6 m above the top of the screen. All monitoring wells were then backfilled with bentonite to approximately 0.3 m below ground surface. The wells were finished with steel monument protective casings. The well installation detail can be found on the Borehole Log (Appendix A).

5.6 Ground Water: Field Measurement of Water Quality Parameters

Field measurement of water quality parameters were measured using a Hanna Instruments portable pH/EC/TDS/Temperature meter (model HI 991301).

HI991301 portable pH/EC/TDS/temperature meter

Range

- pH 0.00 to 14.00 pH units
- EC 0.0 to 20.0 mS/cm
- Temperature 0.0 to 60.0°C

Resolution

- pH 0.01 pH units
- EC 0.001 mS/cm
- Temperature 0.1°C

Accuracy

- pH ± 0.01 pH units
- EC ±2% F.S.
- Temperature ±0.5°C

5.7 Ground Water: Sampling

The monitoring wells were purged using an inertia pump system. Ground water was sampled using a peristaltic pump. Stabilization of parameters (pH, conductivity, temperature) of the purged water are monitored before a sample is taken, thus sampling methods facilitate equilibrium with the surrounding formation water and produces samples that are representative of the formation water.



Stabilization was considered to occur when consecutive readings were within the following:

- Conductivity ± 3%
- Temperature ± 3%
- $pH \pm 0.1$ unit

Sampling methodologies from the MECP's "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario", December 1996; "Guide for Completing Phase Two Environmental Site Assessments under Ontario Regulation 153/04", rev. March 2019; and "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act", July 2011, were followed in the collection of the ground water samples.

The monitoring wells were sampled on the following dates for the parameters selected:

| Monitoring Well | Screen/Sample Elevation (masl) | Date Sampled | Metals | М-Н | ORPs | VOCs | PHCs | BTEX | s20 | PAHs |
|--------------------|-----------------------------------|-----------------|----------|----------|------|------|----------|----------|----------|----------|
| BH1 | 185.6-182.5 | May 26/22 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ~ |
| ВН3 | 185.6-182.5 | May 26/22 | √ | √ | ✓ | | | | ✓ | |
| ВН5 | 185.5-182.4 | May 26/22 | √ | √ | ✓ | | | | √ | |
| Dup1 (BH5) | 185.5-182.4 | May 26/22 | √ | √ | ✓ | | | | √ | |
| Dup2 (BH1) | 185.6-182.5 | May 26/22 | | | | ✓ | √ | √ | | √ |

Notes: * ORPs included Hg, CN-, and Cr(VI) only

- PHCs Petroleum Hydrocarbons
- VOCs Volatile Organic Compounds
- H-M Hydride Metals
- BTEX Benzene, Toluene, Ethylbenzene, Xylene

ORPs – Other Regulated Parameters (for soil include B-HWS, CN-, CrVI, Hg, pH,) (for ground water include CN-, CrVI, Hg, pH)

Terraprobe returned to the Property on July 8, 2022 and collected an additional round of ground water samples from each of the three (3) monitoring well locations, which were analysed for metals.

5.8 Analytical Testing

Analytical testing of soil and groundwater was conducted by AGAT Laboratories Ltd.

5.9 Elevation Surveying

The elevations of the boreholes on the Property were surveyed by Terraprobe using a Trimble R10 Global Navigation Satellite System (GNSS). The Trimble R10 system is a differential global positioning system (GPS) which involves the cooperation of two receivers, one that is stationary and another that is roving



making position measurements. The elevations of each borehole/monitoring well on the Property are presented on the Borehole Logs in Appendix A.

5.10 Quality Assurance and Quality Control Measures

Sample containers supplied by the Laboratory were used for all sampling conducted on the subject Property. All sampling containers were identified with laboratory supplied labels. Samples were placed in coolers with loose ice after collection for transportation to the laboratory. Chains of Custody were completed for all samples submitted to the laboratory. Sample hold times were met for all submitted soil and groundwater samples.

During soil sampling, the split spoon sampling device was washed between samples to minimize cross-contamination. While handling all samples Terraprobe staff used nitrile gloves. Fresh gloves were used for each sample to avoid cross contamination.

6.0 REVIEW AND EVALUATION

Borehole elevations are provided relative to geodetic datum. The horizontal coordinates are reported relative to the Universal Transverse Mercator geographic coordinate system (NAD 83 Zone 17T). The boreholes were surveyed for horizontal coordinates using a hand held GPS and geodetic elevations were surveyed using a Trimble R10 Global Navigation Satellite System (GNSS).

The subsurface soil and ground water conditions encountered in the boreholes are presented on the attached Borehole Logs. The stratigraphic boundaries indicated on the Borehole Logs are inferred from non-continuous samples and observations of drilling resistance and typically represent a transition from one soil type to another. These boundaries should not be interpreted to represent exact planes of geological change. The subsurface conditions have been confirmed in a series of widely spaced boreholes, and will vary between and beyond the borehole locations. The discussion has been simplified in terms of the major soil strata.

6.1 Geology

The following stratigraphy is based on the borehole findings from six (6) boreholes completed at the Property between May 2nd to 4th, 2022, as well as the geotechnical laboratory testing conducted on selected representative soil samples.

In general, four main stratigraphic units were encountered which included surficial topsoil and fill material overlying clayey silt glacial till, silts and sands, and a lower clayey silt glacial till stratum.

6.1.1 Topsoil

Boreholes 1, 2, 5 and 6 encountered between 75 mm and 800 mm of surficial topsoil.

6.1.2 Earth Fill

Underlying the topsoil Boreholes 1, 2, and 6 encountered earth fill extending to depths of 0.8 to 1.8 m below grade (Elev. 186.8 to 187.8 masl). The earth fill generally consisted of silty sand with varying amounts of gravel. The silty sand earth fill was generally brown and moist.

Boreholes 3 and 4 encountered earth fill at the surface, extending to depths of 0.9 to 1.8 m below grade. The earth fill at Boreholes 3 and 4 consisted of clayey silt with trace to some sand, rootlets and intermixed topsoil, and was generally brown and moist.

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Standard Penetration Testing carried out within the earth fill determined N values ranging from 1 to 9 blows per 0.3 m, indicating a very loose to loose state of packing. The in-situ water content of the samples of earth fill recovered from ranged from approximately 16 to 23 percent.

6.1.3 Upper Clayey Silt (Glacial Till)

Underlying the topsoil and earth fill all boreholes encountered a stratum of clayey silt glacial till with trace sand and gravel extending to depths of 3.8 to 6.7 m below existing grade (Elev. 181.7 to 184.9 masl). The clayey silt till was generally brown and moist, turning grey and wet between 3.0 and 3.8 m below grade. Wet sand seams within the clayey silt glacial till were observed between 4.3 and 4.9 m in Boreholes 1, 2, 3 and 5. Boreholes 1, 2, and 3 were terminated within this stratum. Standard Penetration testing carried out within the clayey silt till determined N values ranging from 13 to greater than 50 blows per 0.3 m, indicating a stiff to hard consistency. The in-situ water content of the samples of clayey silt till recovered from the boreholes ranged from approximately 9 to 26 percent.

6.1.4 Silts and Sands

Underlying the clayey silt glacial till, Borehole 4 encountered a stratum of sandy silt with trace gravel, extending to a depth of 6.7 m below grade (Elev. 182.9 masl), which was the termination depth of the borehole. The Silty sand glacial till was generally grey and wet. Standard Penetration Testing carried out within the silty sand glacial till indicated a single N value of 41, indicating a dense state of packing. The in-situ water content of the silty sand glacial till was approximately 12 percent.

Underlying the clayey silt glacial till, Boreholes 5 and 6 encountered a stratum of silty to sandy silt, extending to depths of 4.6 to 6.4 m below grade (Elev. 182.1 to 183.6 masl). The silt was generally grey and wet. Standard Penetration Testing carried out within the silt indicated N value ranging from 15 to 21 blows per 0.3 m, indicating a compact state of packing. The in-situ water content of the silt ranged from approximately 18 to 25 percent.

6.1.5 Lower Clayey Silt (Glacial Till)

Underlying the silt/sandy silt, Boreholes 5 and 6 encountered a lower stratum of clayey silt glacial till with trace sand and gravel extending to depths of 6.7 m below existing grade (Elev. 181.5 to 181.8 masl). The lower clayey silt till was generally grey and moist. Boreholes 5 and 6 were terminated within this stratum. Standard Penetration testing carried out within the lower clayey silt till determined N values ranging from 29 to greater than 50 blows per 0.3 m, indicating a very stiff to hard consistency. The in-situ water content of the samples of clayey silt till recovered from the boreholes ranged from approximately 11 to 14 percent.

6.2 Ground Water: Elevations and Flow Direction

Ground water levels were measured in each borehole following completion of drilling, as noted in borehole logs in Appendix A. Ground water levels were measured in the installed monitoring wells (BH101, BH102 and BH108) using a Solinst interface probe.

| Well ID | BH1 | | Bl | Н3 | вн5 | | |
|--------------------------|---------------------|--------------|-----------|--------------|-----------|--------------|--|
| Well Depth (mbgs) | 6.1 | | 6 | .1 | 6.1 | | |
| Ground Elev. (masl) | asl) 188.6 | | 18 | 188.6 | | 8.5 | |
| Top of Screen (masl) 185 | | 5.6 | 18 | 185.6 185.5 | | 5.5 | |
| Bottom of Screen (masl) | Screen (masl) 182.5 | | 182.5 | | 182.4 | | |
| Date | WL (mbgs) | Elev. (masl) | WL (mbgs) | Elev. (masl) | WL (mbgs) | Elev. (masl) | |
| 2022/05/17 | 1.8 | 186.8 | 1.8 | 186.8 | 1.6 | 186.9 | |
| 2022/05/26 | 1.9 186.7 | | 1.9 | 186.7 | 1.8 | 186.7 | |
| 2022/07/08 | 2.5 | 186.1 | 2.5 | 186.1 | 2.4 | 186.1 | |

Based on the measurements in the monitoring wells, the ground water table is relatively stable at an elevation of 186.7 masl.

Ground water levels measured on May 26, 2022 by Terraprobe were used to interpret ground water flow direction beneath the Property. The ground water flow elevation at all monitoring wells was 186.7 masl. Ground water flow was not confirmed based on the static water level in the monitoring wells. The measured ground water elevations are presented on Figure 3.

The local ground water flow direction may fluctuate seasonally depending on the magnitude of precipitation and surface runoff, which will affect infiltration of surface water in particular at times such as significant snowmelt and rainfall events. Based on the local topography and the development level of the Property and the surrounding properties, only minor fluctuations of the natural ground water flow direction are expected.

6.3 Ground Water: Hydraulic Gradients and Hydraulic Conductivity

The soils on the Property were generally in the clayey silt range, and would thus likely have hydraulic conductivities in the range of 10⁻⁷ to 10⁻⁹ m/s or lower. According to Freeze and Cherry (1979), the typical hydraulic conductivities of the strata investigated at the Property are:

- Fill 10⁻⁶ m/s
- Clayey Silt 10^{-7} m/s to 10^{-9} m/s

The horizontal hydraulic gradient cannot be calculated as the ground water elevation was the same at all three (3) monitoring well locations on May 26, 2022.

The vertical hydraulic gradient cannot be calculated as there are no nested wells on the Property. Generally, the vertical hydraulic gradient is calculated between two wells within close proximity and installed within different stratigraphy.

6.4 Soil Texture

Four (4) grain size analyses were completed to determine soil texture.

| Sample ID | Sample Depth (m) | Soil Type | % smaller then 75 micrometres | Soil Texture as per MECP standard |
|-----------|------------------|--------------------------------------|-------------------------------|--------------------------------------|
| BH1 SA6 | 3.8-4.4 | Silt and clay some sand trace gravel | 82.3 | Medium to Fine |
| BH3 SA3 | 1.5-2.1 | Clayey silt with sand trace gravel | 73.6 | Medium to Fine |
| BH4 SA8 | 6.1-6.7 | Silty sand trace gravel and clay | 39.2 | Coarse |
| BH5 SA7 | 4.6-5.2 | Sand and silt trace clay | 63.9 | Medium to Fine |

The results indicate that the silt and clay, clayey silt, and sand and silt from depths of approximately 1.4 to 4.4 were classified as medium to fine textured soil. On this basis, at least two thirds of the soil on the property was considered medium to fine textured soil. However, the more conservative coarse textured soil standards were used as they had no impact on the amount or type of exceedances. Grain size analyses are provided in Appendix B.

6.5 Soil: Field Screening

Soil vapour field screening was conducted on all soil samples. Vapour concentrations for the samples collected in the field ranged from 0 ppm to 5 ppm. Complete soil field screening results are presented on the Borehole Log in Appendix A. No staining or odorous soils were observed during drilling.

6.6 Soil Quality

Select soil samples were analysed for the Contaminants of Potential Concern (CoPCs). CoPCs include:

- Metals
- Hydride Metals
- Other Regulated Parameters (ORPs)
 - Boron, hot water soluble (HWS)
 - Mercury (Hg)
 - Cyanide (CN-)
 - Hexavalent Chromium (CrVI)
 - pH
- Volatile Organic Compounds (VOCs)
- o Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)
- o Petroleum Hydrocarbons (PHCs)



- o Polycyclic Aromatic Hydrocarbons (PAHs)
- Organochlorine Pesticides (OC Pest)

The results of the analyses were compared to the applicable MECP Table 1 SCS for coarse textured soils. The laboratory certificates of analysis for soil samples are provided in Appendix C, and the results of the soil chemical analysis are provided in Tables 1 through 6.

Metals in Soil

A total of eight (8) samples including duplicates were submitted for analysis of metals and compared to the MECP Table 1 SCS. No metal exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All metals samples are summarized in Table 1 and the laboratory certificates of analysis are provided in Appendix C.

Hydride Metals in Soil

A total of eight (8) samples including duplicates were submitted for analysis of hydride metals and compared to the MECP Table 1 SCS. No hydride metals exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All hydride metals samples are summarized in Table 1 and the laboratory certificates of analysis are provided in Appendix C.

Other Regulated Parameters in Soil

A total of eight (8) ORP samples including duplicates were submitted for analysis of ORPs and compared to the MECP Table 1 SCS. No ORP exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All ORP samples are summarized in Table 1 and the laboratory certificates of analysis are presented in Appendix C.

Volatile Organic Compounds in Soil

A total of five (5) samples including duplicates were submitted for analysis of volatile organic compounds and compared to the MECP Table 1 SCS. No VOC exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All VOC samples are summarized in Table 2 and the laboratory certificates of analysis are provided in Appendix C.

Petroleum Hydrocarbons in Soil

A total of five (5) samples including duplicates were submitted for analysis of petroleum hydrocarbons and compared to the MECP Table 1 SCS. No petroleum hydrocarbon exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All PHC samples are summarized in Table 3 and the laboratory certificates of analysis are provided in Appendix C.

Terraprobe

Benzene, Toluene, Ethylbenzene, and Xylenes in Soil

A total of five (5) samples including duplicates were submitted for analysis of BTEX and compared to the MECP Table 1 SCS. No BTEX exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All BTEX samples are summarized in Table 4 and the laboratory certificates of analysis are provided in Appendix C.

Organochlorine Pesticides in Soil

A total of six (6) samples including duplicates were submitted for analysis of organochlorine pesticides and compared to the MECP Table 1 SCS. No OC Pest exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All OC Pest samples are summarized in Table 5 and the laboratory certificates of analysis are provided in Appendix C.

Polycyclic Aromatic Hydrocarbons in Soil

A total of three (3) samples including duplicates were submitted for analysis of polycyclic aromatic hydrocarbons and compared to the MECP Table 1 SCS. No PAH exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All PAH samples are summarized in Table 6 and the laboratory certificates of analysis are provided in Appendix C.

6.7 Ground Water Quality

Select ground water samples were analysed for the Contaminants of Potential Concern (CoPCs). CoPCs include:

- Metals
- Hydride Metals
- Other Regulated Parameters (ORPs)
 - Sodium
 - Mercury (Hg)
 - Cyanide (CN-)
 - Hexavalent Chromium (CrVI)
 - pH
 - Chloride
- Volatile Organic Compounds (VOCs)
- o Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX)
- Petroleum Hydrocarbons (PHCs)
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Organochlorine Pesticides (OC Pest)

Ground water samples were collected from the three (3) monitoring wells (BH1, BH3 and BH5) and submitted to a laboratory for chemical analysis. The results of the analyses were compared to the applicable MECP Site Condition Standards for the Property (MECP Table 1 SCS).



Metals in Ground Water

A total of four (4) samples including duplicates were submitted for analysis of metals and compared to the MECP Table 1 SCS. The following metal exceedances of the MECP Table 1 SCS were noted in the samples analyzed:

| Sample ID | Parameter | MECP Table 1 SCS (μg/L) | Result May 26, 2022 (μg/L) | Result July 8, 2022 |
|-----------|-----------|----------------------------|-------------------------------|---------------------|
| BH1 | Copper | 5 | <u>11.7</u> | Meets |
| ВН3 | Copper | 5 | 33.4 | Meets |
| ВН5 | Copper | 5 | 21.9 | Meets |

All metals samples are summarized in Table 7 and the laboratory certificates of analysis are provided in Appendix D.

Initially, copper exceedances were noted in the ground water at all well locations. A freshly drilled well has new mineral faces exposed as a result of drilling breaking rock/exposing unweathered soil. It is not uncommon to get a short-lived burst of high metals that tapers off over time as the newly exposed mineral faces weather/get hard water deposits on them. Concentrations of copper and other metals being slightly elevated have frequently been associated with ground water samples collected from till above the Queenston Shale elsewhere in Southern Ontario and do not necessarily imply impact. A second round of ground water samples were collected on July 8, 2022 and analyzed for metals. The results indicated that copper met the MECP Table 1 SCS.

As a result, the apparent initial exceedances of the MECP Table 1 SCS for copper are attributed to background conditions associated with freshly exposed mineral faces. On this basis, the QP believes copper is not a contaminant of concern in the ground water.

Hydride Metals in Ground Water

A total of four (4) samples including duplicates were submitted for analysis of hydride metals and compared to the MECP Table 1 SCS. No hydride metals exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All hydride metals samples are summarized in Table 7 and the laboratory certificates of analysis are provided in Appendix D.

Other Regulated Parameters in Ground Water

A total of four (4) ORP samples including duplicates were submitted for analysis of ORPs and compared to the MECP Table 1 SCS. No ORP exceedances of the MECP Table 1 SCS were noted in the samples



analyzed. All ORP samples are summarized in Table 7 and the laboratory certificates of analysis are presented in Appendix D.

Volatile Organic Compounds in Ground Water

A total of two (2) samples including duplicates were submitted for analysis of volatile organic compounds and compared to the MECP Table 1 SCS. No VOC exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All VOC samples are summarized in Table 8 and the laboratory certificates of analysis are provided in Appendix D.

Petroleum Hydrocarbons in Soil

A total of two (2) samples including duplicates were submitted for analysis of petroleum hydrocarbons and compared to the MECP Table 1 SCS. No petroleum hydrocarbon exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All PHC samples are summarized in Table 9 and the laboratory certificates of analysis are provided in Appendix D.

Benzene, Toluene, Ethylbenzene, and Xylenes in Soil

A total of two (2) samples including duplicates were submitted for analysis of BTEX and compared to the MECP Table 1 SCS. No BTEX exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All BTEX samples are summarized in Table 10 and the laboratory certificates of analysis are provided in Appendix D.

Organochlorine Pesticides in Soil

A total of three (3) samples including duplicates were submitted for analysis of organochlorine pesticides and compared to the MECP Table 1 SCS. No OC Pest exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All OC Pest samples are summarized in Table 11 and the laboratory certificates of analysis are provided in Appendix D.

Polycyclic Aromatic Hydrocarbons in Soil

A total of two (2) samples including duplicates were submitted for analysis of polycyclic aromatic hydrocarbons and compared to the MECP Table 1 SCS. No PAH exceedances of the MECP Table 1 SCS were noted in the samples analyzed. All PAH samples are summarized in Table 12 and the laboratory certificates of analysis are provided in Appendix D.

6.8 Sediment Quality

No sediment sampling was conducted as part of this investigation.



6.9 Quality Assurance and Quality Control Results

In general, samples were handled in accordance with the Analytical Protocol with respect to holding time, preservation method, storage requirement and sample container type. Laboratory results were compared to MECP standards for quality control under Ontario Regulation 153/04 which require laboratory results to meet specific method detection limit (MDL) requirements. In general, the sampling and analyses performed conformed with the following:

- Ministry of the Environment Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario.
- Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.I of the Environmental Protection Act of Ontario.

The objectives of the investigation were met. All laboratory Certificates of Analysis are provided in Appendix C.

7.0 CONCLUSIONS

York Trafalgar Management Corp. on behalf of TRGI West Properties Inc., c/o Ruland Properties Inc., retained Terraprobe Inc. (Terraprobe) to complete a Phase II Environmental Site Assessment (Phase II ESA) of the property located at 6463 Trafalgar Road in Milton, Ontario, hereinafter referred to as 'the Property'.

The Property is an irregular shaped parcel of land with an area of approximately 4.1 hectares (10.2 acres). For discussion purposes, Trafalgar Road is assumed to be aligned in a north-south direction. The Property has frontage along the east side of Trafalgar Road of approximately 116 m, and extends to the east approximately 300 m. The Property is bound to the north by rural residential properties, to the east and south by agricultural fields, and to the west by Trafalgar Road.

The Property is in mixed residential and agricultural Property Use as defined by the Ministry of the Environment, Conservation and Parks (MECP). It is understood that the potential future use of the Property will be for residential use. It is understood that the Phase II ESA is currently required for due diligence purposes related to the potential purchase of the Property. As the Property will not be changing to a more sensitive property use in the future, a Record of Site Condition (RSC) is not a mandatory requirement of the MECP. If, in the future, an RSC becomes a requirement, the Phase II ESA report will require updates to satisfy all of the requirements of O.Reg. 153/04. The Phase II ESA is required to investigate the Areas of Potential Environmental Concern (APECs) for the Contaminants of Potential Concern (CoPCs) that have been identified on the Property.

A Phase I ESA completed on the Property by Terraprobe entitled, "*Phase I Environmental Site Assessment, 6463 Trafalgar Road, Milton, Ontario;* dated March 9, 2022; File No. 7-22-0008-41", indicated two (2) APECs that were divided into two (2) physical area groups on the Property. The Contaminants of Potential Concern (CoPCs) identified in the Phase I ESA were investigated in this assessment.

The conclusions of the Phase Two II ESA are:

- The applicable Site Condition Standards are the 2011 Ministry of the Environment, Conservation and Parks Table 1 Site Condition Standards for Residential, Parkland, Institutional, Industrial, Commercial, and Community Property Use with coarse textured soils (MECP Table 1 SCS).
- Six (6) boreholes (BH1 to BH6) were completed between May 2nd and May 4th, 2022 extending to depths of 6.1 metres below ground surface (mbgs). Three (3) of the boreholes (BH1, BH3 and BH5) were instrumented with monitoring wells, installed at depths of 6.1 mbgs.
- Based on water level measurements on May 26, 2022, the ground water elevation at all three (3) monitoring wells was 186.7 masl.
- In general, the boreholes encountered surficial topsoil and fill material overlying clayey silt glacial till, silts and sands, and a lower clayey silt glacial till stratum.

- No exceedances of the applicable Site Conditions Standards were noted in the fill or native soil located on the Property.
- No exceedances of the applicable Site Condition Standards were noted in the ground water located on the Property.

7.1 Signatures

The Phase II ESA has been completed under the direction and supervision of R. Baker Wohayeb, M.A.Sc., P.Eng., QP_{RA.}, The report was reviewed by David Mably, P. Eng. The findings and conclusions presented in this report have been determined on the basis of the information that was obtained and reviewed, and on an assessment of the existing conditions on the Property.

The Phase II ESA was not completed in accordance with Ontario Regulation (O. Reg.) 153/04 (Records of Site Condition—Part XV.1 of the Environmental Protection Act). Should a Record of Site Condition (RSC) be a requirement in the future, additional investigations will be required to meet O.Reg. 153/04.

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

PROFESSIONA,

D. M. MABLY

Yours truly,

Terraprobe Inc.

Katie Greenman, B.Sc., C.Tech. Environmental Scientist

Bulemmen

Amber Brooks, B.Sc. Project Manager

David Mably, P.Eng Senior Environmental Engineer



8.0 REFERENCES

- 1. Armstrong, D.K. and Dodge, J.E.P. *Paleozoic Geology Map of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release--Data 219.
- 2. Chapman, L.J. and Putnam, D.F. 2007. *The Physiography of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release--Data 228.
- 3. Freeze, R. Allen and Cherry, John A., 1979. Groundwater. Page 29.
- 4. Ontario Ministry of the Environment, December 1996. *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario.*
- 5. Ontario Ministry of Environment, 15 April 2011. Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act.
- 6. Terraprobe, March 9, 2022. Draft Phase I Environmental Site Assessment, 6463 Trafalgar Road, Milton, Ontario. File no. 7-22-0008-41.

9.0 LIMITATIONS

This report was prepared for the exclusive use of York Trafalgar Management Corp., TRGI West Properties Inc. c/o Ruland Properties Inc. and their legal counsel and is intended to provide an assessment of the environmental condition on the property located at 6463 Trafalgar Road in Milton, Ontario. The report was prepared for the purpose of identifying potential environmental concerns, including an assessment of the likelihood that the environmental quality of the soil and ground water at the site may have been adversely affected by past and present practices at the site, and/or those of the surrounding properties prior to purchase of the property. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Terraprobe accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report, including consequential financial effects on transactions or property values, or requirements for follow-up actions and costs.

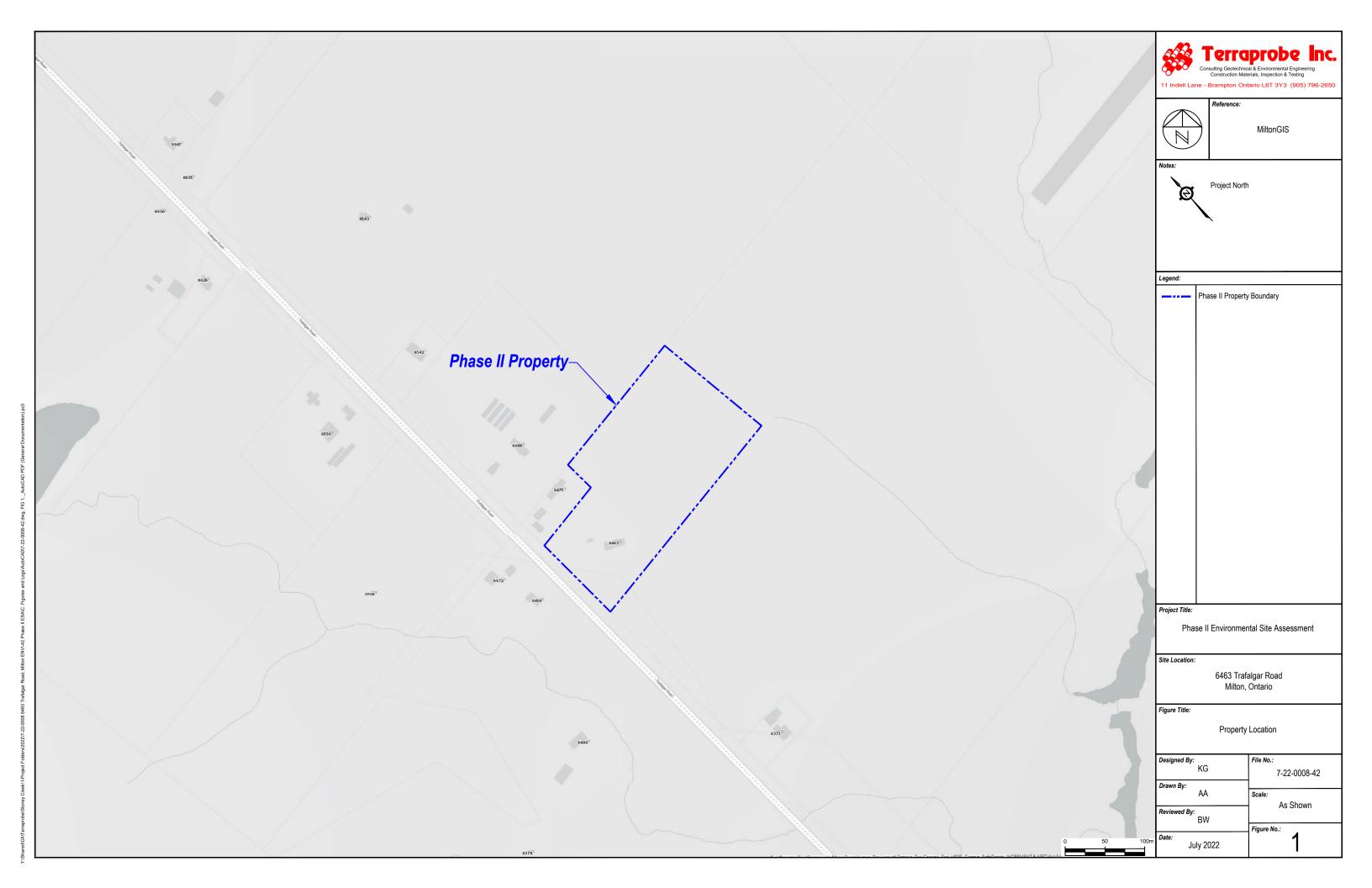
The assessment should not be considered a comprehensive audit that eliminates all risks of encountering environmental problems. The information presented in this report is based on information collected during the completion of the investigation conducted by Terraprobe Inc. It is based on conditions at the subject property at the time of the site inspection. The subsurface conditions were assessed based on information collected at specific borehole and monitoring well locations. The actual subsurface conditions between the sampling points may vary.

There is no warranty expressed or implied by this report regarding the environmental status of the subject property. Professional judgment was exercised in gathering and analyzing information collected by our staff, as well as that submitted by others. The conclusions presented are the product of professional care and competence, and cannot be construed as an absolute guarantee.

In the event that during future work new information regarding the environmental condition of the subject property is encountered, or in the event that the outstanding responses from the regulatory agencies indicate outstanding issues on file with respect to the subject property, Terraprobe should be notified in order that we may re-evaluate the findings of this assessment and provide amendments, as required.

FIGURES

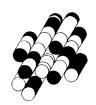








TABLES



TERRAPROBE INC.

Table 1 Soil Quality Analysis Metals & Inorganics 6463 Trafalgar Road Milton, Ontario Project No. 7-22-0008-42

| | | | | | Dupl | icate | | Dupl | icate | | |
|--------------------------------------|----------|---------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Sample Description | | MECP | | BH1 SA1 | BH1 SA4 | DUP2 | BH3 SA1 | BH4 SA1 | DUP1 | BH5 SA1 | BH6 SA1 |
| Date Sampled | | Table 1 | | 05/02/2022 | 05/02/2022 | 05/02/2022 | 05/02/2022 | 05/02/2022 | 05/02/2022 | 05/03/2022 | 05/04/2022 |
| Lab ID | Unit | RPI/ICC | RDL | 3830060 | 3830062 | 3830064 | 3830084 | 3830085 | 3830088 | 3830086 | 3830087 |
| Sample Depth (mbgs) | Unit | SCS | KUL | 0.0-0.6 | 2.3-2.9 | 2.3-2.9 | 0.0-0.6 | 0.0-0.6 | 0.0-0.6 | 0.0-0.6 | 0.0-0.6 |
| Sample Elevation (masl) | | | | 188.6-188.0 | 186.3-185.7 | 186.3-185.7 | 188.6-188.0 | 189.6-189.0 | 189.6-189.0 | 188.5-187.9 | 188.2-187.6 |
| Parameter | | | | | | | | | | | |
| Metals | | | | | | | | | | | |
| Barium | μg/g | 220 | 2.0 | 42.4 | 75.4 | 90.4 | 85.2 | 101 | 98.9 | 71.0 | 45.6 |
| Beryllium | μg/g | 2.5 | 0.4 | <0.4 | 0.8 | 0.9 | 1.0 | 1.1 | 1.0 | 0.8 | 0.5 |
| Boron | μg/g | 36 | 5 | 5 | 12 | 12 | 8 | 8 | 8 | 8 | <5 |
| Cadmium | μg/g | 1.2 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium | μg/g | 70 | 5 | 10 | 20 | 25 | 24 | 28 | 26 | 21 | 13 |
| Cobalt | μg/g | 21 | 0.5 | 4.3 | 11.4 | 15.5 | 10.6 | 12.4 | 12.2 | 9.5 | 4.0 |
| Copper | μg/g | 92 | 1.0 | 23.2 | 22.5 | 32.4 | 21.6 | 22.4 | 21.8 | 38.2 | 18.6 |
| Lead | μg/g | 120 | 1 | 17 | 9 | 11 | 13 | 16 | 15 | 12 | 12 |
| Molybdenum | μg/g | 2 | 0.5 | 0.5 | 0.6 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Nickel | μg/g | 82 | 1 | 11 | 26 | 34 | 24 | 27 | 25 | 24 | 12 |
| Silver | μg/g | 0.5 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Thallium | μg/g | 1 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Uranium | μg/g | 2.5 | 0.50 | < 0.50 | 0.56 | 0.70 | 0.81 | 0.93 | 0.92 | 0.87 | 0.53 |
| Vanadium | μg/g | 86 | 0.4 | 17.2 | 26.8 | 36.2 | 38.8 | 44.0 | 42.5 | 31.9 | 19.6 |
| Zinc | μg/g | 290 | 5 | 52 | 54 | 69 | 77 | 86 | 84 | 70 | 60 |
| Hydride Metals | | | | | | | | | | | |
| Antimony | μg/g | 1.3 | 0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 |
| Arsenic | μg/g | 18 | 1 | 5 | 7 | 7 | 9 | 9 | 8 | 6 | 6 |
| Selenium | μg/g | 1.5 | 8.0 | <0.8 | <0.8 | <0.8 | 1.0 | 1.0 | 0.9 | 1.0 | 0.9 |
| Other Regulated Parameters | | | | | | | | | | | |
| Boron (Hot Water Soluble) | μg/g | NV | 0.10 | 0.39 | 0.21 | 0.18 | 0.58 | 0.61 | 0.58 | 0.24 | 0.33 |
| Chromium, Hexavalent | μg/g | 0.66 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Cyanide, Free | μg/g | 0.051 | 0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 | <0.040 |
| Mercury | μg/g | 0.27 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Electrical Conductivity (2:1) | mS/cm | 0.57 | 0.005 | 0.163 | 0.187 | 0.168 | NA | NA | NA | NA | NA |
| Sodium Adsorption Ratio (2:1) (Calc. | N/A | 2.4 | N/A | 0.129 | 0.299 | 0.288 | NA | NA | NA | NA | NA |
| pH, 2:1 CaCl2 Extraction | pH Units | 5.0-9.0 | NA | 6.22 | 6.69 | 6.84 | 6.58 | 6.31 | 6.40 | 6.65 | 6.68 |

Comments:

Results compared to MECP 2011 Table 1 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use in a Coarse Textured Soil Condition

RDL - Reported Detection Limit; G / S - Guideline / Standard

RDL exceeded Standard
Sample result exceeded Standard

Table 2 Soil Quality Analysis Volatile Organic Compounds 6463 Trafalgar Road Milton, Ontario Project No. 7-22-0008-42

| | | | | | Duplicate | | Ī | |
|-----------------------------------|------|---------|------|-------------|-------------|-------------|-------------|-------------|
| Sample Description | | MECP | | BH1 SA2 | BH1 SA5 | DUP3 | BH3 SA2 | BH4 SA2 |
| Date Sampled | 1 | Table 1 | | 05/02/2022 | 05/02/2022 | 05/02/2022 | 05/02/2022 | 05/02/2022 |
| Lab ID | Unit | RPI/ICC | RDL | 3830061 | 3830063 | 3830065 | 3830089 | 3830090 |
| Sample Depth (mbgs) | Unit | SCS | KUL | 0.8-1.4 | 3.1-3.7 | 3.1-3.7 | 0.8-1.4 | 0.8-1.4 |
| Sample Elevation (masl) | 1 | | | 187.7-187.2 | 185.5-184.9 | 185.5-184.9 | 187.8-187.2 | 188.8-188.2 |
| Parameter | | | | | | | | |
| Dichlorodifluoromethane | μg/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Vinyl Chloride | ug/g | 0.02 | 0.02 | < 0.02 | <0.02 | < 0.02 | < 0.02 | <0.02 |
| Bromomethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| Trichlorofluoromethane | ug/g | 0.25 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acetone | ua/a | 0.5 | 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 1,1-Dichloroethylene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methylene Chloride | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Trans- 1,2-Dichloroethylene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methyl tert-butyl Ether | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 1.1-Dichloroethane | ug/g | 0.05 | 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Methyl Ethyl Ketone | ug/g | 0.5 | 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | <0.50 |
| Cis- 1.2-Dichloroethylene | ua/a | 0.05 | 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Chloroform | ug/g | 0.05 | 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | <0.04 |
| 1.2-Dichloroethane | ug/g | 0.05 | 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 |
| 1.1.1-Trichloroethane | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Carbon Tetrachloride | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzene | ug/g | 0.02 | 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| 1,2-Dichloropropane | ug/g | 0.05 | 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 |
| Trichloroethylene | ug/g | 0.05 | 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 |
| Bromodichloromethane | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methyl Isobutyl Ketone | ug/g | 0.5 | 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| 1,1,2-Trichloroethane | ug/g | 0.05 | 0.04 | < 0.04 | < 0.04 | <0.04 | < 0.04 | <0.04 |
| Toluene | ug/g | 0.2 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dibromochloromethane | ug/g | 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 |
| Tetrachloroethylene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 1,1,1,2-Tetrachloroethane | ug/g | 0.05 | 0.04 | < 0.04 | < 0.04 | <0.04 | < 0.04 | <0.04 |
| Chlorobenzene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Ethylbenzene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| m & p-Xylene | ug/g | | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Bromoform | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Styrene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 1,1,2,2-Tetrachloroethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | < 0.05 | <0.05 | < 0.05 |
| o-Xylene | ug/g | | 0.05 | <0.05 | <0.05 | < 0.05 | <0.05 | < 0.05 |
| 1,3-Dichlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | < 0.05 | <0.05 | < 0.05 |
| 1,4-Dichlorobenzene | ug/g | 0.05 | 0.05 | < 0.05 | <0.05 | < 0.05 | < 0.05 | <0.05 |
| 1,2-Dichlorobenzene | ug/g | 0.05 | 0.05 | < 0.05 | <0.05 | < 0.05 | <0.05 | < 0.05 |
| Xylenes (Total) | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | < 0.05 | <0.05 | < 0.05 |
| 1,3-Dichloropropene (Cis + Trans) | μg/g | 0.05 | 0.05 | <0.05 | <0.05 | < 0.05 | <0.05 | < 0.05 |
| n-Hexane | μg/g | 0.05 | 0.05 | < 0.05 | <0.05 | < 0.05 | <0.05 | < 0.05 |

Comments:
Results compared to MECP 2011 Table 1 Site Condition Standards for
Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use in a Coarse Textured Soil
Condition
RDL - Reported Detection Limit; G / S - Guideline / Standard
RDL exceeded Standard
Sample result exceeded Standard

Table 3 Soil Quality Analysis Petroleum Hydrocarbons 6463 Trafalgar Road Milton, Ontario Project No. 7-22-0008-42

| | | | | | Dupl | icate | | |
|--------------------------------|------|---------|-----|-------------|-------------|-------------|-------------|-------------|
| Sample Description | | MECP | | BH1 SA2 | BH1 SA5 | DUP3 | BH3 SA2 | BH4 SA2 |
| Date Sampled | | Table 1 | | 05/02/2022 | 05/02/2022 | 05/02/2022 | 05/02/2022 | 05/02/2022 |
| Lab ID | Unit | RPI/ICC | RDL | 3830061 | 3830063 | 3830065 | 3830089 | 3830090 |
| Sample Depth (mbgs) | Unit | SCS | KDL | 0.8-1.4 | 3.1-3.7 | 3.1-3.7 | 0.8-1.4 | 0.8-1.4 |
| Sample Elevation (masl) | | | | 187.7-187.2 | 185.5-184.9 | 185.5-184.9 | 187.8-187.2 | 188.8-188.2 |
| Parameter | | | | | | | | |
| F1 (C6 - C10) | μg/g | 25 | 5 | <5 | <5 | <5 | <5 | <5 |
| F1 (C6 to C10) minus BTEX | μg/g | 25 | 5 | <5 | <5 | <5 | <5 | <5 |
| F2 (C10 to C16) | μg/g | 10 | 10 | <10 | <10 | <10 | <10 | <10 |
| F3 (C16 to C34) | μg/g | 240 | 50 | <50 | <50 | <50 | <50 | <50 |
| F4 (C34 to C50) | μg/g | 120 | 50 | <50 | <50 | <50 | <50 | <50 |
| Gravimetric Heavy Hydrocarbons | μg/g | 120 | 50 | NA | NA | NA | NA | NA |

Comments:

Results compared to MECP 2011 Table 1 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use in a Coarse Textured Soil Condition

RDL - Reported Detection Limit; G / S - Guideline / Standard

RDL exceeded Standard

Sample result exceeded Standard

Table 4
Soil Quality Analysis
Benzene, Toluene, Ethylbenzene, Xylene
6463 Trafalgar Road
Milton, Ontario
Project No. 7-22-0008-42

| | | | | | Dupl | icate | | |
|-------------------------|------|---------|------|-------------|-------------|-------------|-------------|-------------|
| Sample Description | | MECP | | BH1 SA2 | BH1 SA5 | DUP3 | BH3 SA2 | BH4 SA2 |
| Date Sampled | | Table 1 | | 05/02/2022 | 05/02/2022 | 05/02/2022 | 05/02/2022 | 05/02/2022 |
| Lab ID | Unit | RPI/ICC | RDL | 3830061 | 3830063 | 3830065 | 3830089 | 3830090 |
| Sample Depth (mbgs) | Onit | SCS | KDL | 0.8-1.4 | 3.1-3.7 | 3.1-3.7 | 0.8-1.4 | 0.8-1.4 |
| Sample Elevation (masl) | | | | 187.7-187.2 | 185.5-184.9 | 185.5-184.9 | 187.8-187.2 | 188.8-188.2 |
| Parameter | | | | | | | | |
| Benzene | ug/g | 0.02 | 0.02 | < 0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Toluene | ug/g | 0.2 | 0.05 | < 0.05 | < 0.05 | < 0.05 | <0.05 | < 0.05 |
| Ethylbenzene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | <0.05 | < 0.05 |
| m & p-Xylene | ug/g | NV | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| o-Xylene | ug/g | NV | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Xylenes (Total) | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

Comments:

Results compared to MECP 2011 Table 1 Site Condition Standards for

Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use in a Coarse Textured Soil Condition

RDL - Reported Detection Limit; G / S - Guideline / Standard

RDL exceeded Standard

Sample result exceeded Standard

Table 5 Soil Quality Analysis Organochlorine Pesticides 6463 Trafalgar Road Milton, Ontario Project No. 7-22-0008-42

| | | | | | | Dupl | icate | 1 | |
|-----------------------------|------|---------|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| Sample Description | | MECP | | BH1 SA1 | BH3 SA1 | BH4 SA1 | DUP1 | BH5 SA1 | BH6 SA1 |
| Date Sampled | | Table 1 | | 05/02/2022 | 05/02/2022 | 05/02/2022 | 05/02/2022 | 05/03/2022 | 05/04/2022 |
| Lab ID | 11 | RPI/ICC | DDI | 3830060 | 3830084 | 3830085 | 3830088 | 3830086 | 3830087 |
| Sample Depth (mbgs) | Unit | SCS | RDL | 0.0-0.6 | 0.0-0.6 | 0.0-0.6 | 0.0-0.6 | 0.0-0.6 | 0.0-0.6 |
| Sample Elevation (masl) | | | | 188.6-188.0 | 188.6-188.0 | 189.6-189.0 | 189.6-189.0 | 188.5-187.9 | 188.2-187.6 |
| Parameter | | | | | | | | | |
| Hexachloroethane | μg/g | 0.01 | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Gamma-Hexachlorocyclohexane | μg/g | 0.01 | 0.005 | < 0.005 | < 0.005 | <0.005 | <0.005 | < 0.005 | <0.005 |
| Heptachlor | μg/g | 0.05 | 0.005 | <0.005 | < 0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Aldrin | μg/g | 0.05 | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 |
| Heptachlor Epoxide | μg/g | 0.05 | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 |
| Endosulfan I | μg/g | NV | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 |
| Endosulfan II | μg/g | NV | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 |
| Endosulfan | μg/g | 0.04 | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| Alpha-Chlordane | μg/g | NV | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| gamma-Chlordane | μg/g | NV | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 |
| Chlordane | μg/g | 0.05 | 0.007 | < 0.007 | < 0.007 | <0.007 | <0.007 | < 0.007 | <0.007 |
| op'-DDE | ug/g | NV | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| pp'-DDE | μg/g | NV | 0.005 | < 0.005 | < 0.005 | <0.005 | <0.005 | < 0.005 | <0.005 |
| DDE | μg/g | 0.05 | 0.007 | < 0.007 | < 0.007 | <0.007 | <0.007 | < 0.007 | <0.007 |
| op'-DDD | μg/g | NV | 0.005 | < 0.005 | < 0.005 | <0.005 | < 0.005 | < 0.005 | <0.005 |
| pp'-DDD | μg/g | NV | 0.005 | < 0.005 | < 0.005 | <0.005 | < 0.005 | < 0.005 | <0.005 |
| DDD | μg/g | 0.05 | 0.007 | < 0.007 | < 0.007 | <0.007 | <0.007 | < 0.007 | <0.007 |
| op'-DDT | μg/g | NV | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | < 0.005 | <0.005 |
| pp'-DDT | μg/g | NV | 0.005 | < 0.005 | < 0.005 | <0.005 | <0.005 | < 0.005 | <0.005 |
| DDT (Total) | μg/g | 1.4 | 0.007 | < 0.007 | < 0.007 | <0.007 | < 0.007 | < 0.007 | <0.007 |
| Dieldrin | μg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Endrin | μg/g | 0.04 | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | < 0.005 | <0.005 |
| Methoxychlor | μg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Hexachlorobenzene | μg/g | 0.01 | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Hexachlorobutadiene | μg/g | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |

Comments:

Results compared to MECP 2011 Table 1 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use in a Coarse Textured Soil Condition

RDL - Reported Detection Limit; G / S - Guideline / Standard

RDL exceeded Standard

Sample result exceeded Standard

Table 6
Soil Quality Analysis
Polycyclic Aromatic Hydrocarbons
6463 Trafalgar Road
Milton, Ontario
Project No. 7-22-0008-42

| | | | | | Dupl | icate |
|---------------------------|-------|---------|------|------------|------------|------------|
| Sample Description | | MECP | | BH1 SA1 | BH1 SA4 | DUP2 |
| Date Sampled | | Table 1 | | 05/02/2022 | 05/02/2022 | 05/02/2022 |
| Lab ID | Unit | RPI/ICC | RDL | 3830060 | 3830062 | 3830064 |
| Sample Depth (mbgs) | Joint | SCS | KDL | 0.0-0.6 | 2.3-2.9 | 2.3-2.9 |
| Sample Elevation (masl) | | | | | | |
| Parameter | | | | | | |
| Naphthalene | μg/g | 0.09 | 0.05 | < 0.05 | <0.05 | <0.05 |
| Acenaphthylene | μg/g | 0.093 | 0.05 | < 0.05 | <0.05 | <0.05 |
| Acenaphthene | μg/g | 0.072 | 0.05 | < 0.05 | <0.05 | <0.05 |
| Fluorene | μg/g | 0.12 | 0.05 | < 0.05 | <0.05 | <0.05 |
| Phenanthrene | μg/g | 0.69 | 0.05 | < 0.05 | <0.05 | < 0.05 |
| Anthracene | μg/g | 0.16 | 0.05 | < 0.05 | <0.05 | <0.05 |
| Fluoranthene | μg/g | 0.56 | 0.05 | < 0.05 | <0.05 | <0.05 |
| Pyrene | μg/g | 1 | 0.05 | < 0.05 | <0.05 | < 0.05 |
| Benz(a)anthracene | μg/g | 0.36 | 0.05 | < 0.05 | <0.05 | <0.05 |
| Chrysene | μg/g | 2.8 | 0.05 | < 0.05 | <0.05 | < 0.05 |
| Benzo(b)fluoranthene | μg/g | 0.47 | 0.05 | < 0.05 | <0.05 | < 0.05 |
| Benzo(k)fluoranthene | μg/g | 0.48 | 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 | 0.23 | 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 | 0.68 | 0.05 | < 0.05 | < 0.05 | < 0.05 |
| 1 and 2 Methlynaphthalene | μg/g | 0.59 | 0.05 | <0.05 | <0.05 | <0.05 |

Comments:

Results compared to MECP 2011 Table 1 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use in a Coarse Textured Soil Condition

RDL - Reported Detection Limit; G / S - Guideline / Standard

RDL exceeded Standard

Sample result exceeded Standard

Table 7 Ground Water Quality Analysis Metals & Inorganics 6463 Trafalgar Road Milton, Ontario Project No. 7-22-0008-42

| | | | | | | | | Dupl | icate | |
|--------------------------------|----------|---------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Sample Description | | MECP | | BH1 | BH1 | BH3 | BH3 | BH5 | DUP1 | BH5 |
| Date Sampled | | Table 1 | | 05/26/2022 | 2022-07-08 | 05/26/2022 | 2022-07-08 | 05/26/2022 | 05/26/2022 | 2022-07-08 |
| Lab ID | Unit | RPI/ICC | RDL | 3907398 | 4075648 | 3907395 | 4075655 | 3907387 | 3907400 | 4075656 |
| Screen/Sample Depth (mbgs) | Unit | SCS | KDL | 3.0-6.1 | 3.0-6.1 | 3.0-6.1 | 3.0-6.1 | 3.0-6.1 | 3.0-6.1 | 3.0-6.1 |
| Screen/Sample Elevation (masl) | 1 | | | 185.6-182.5 | 185.6-182.5 | 185.6-182.5 | 185.6-182.5 | 185.5-182.4 | 185.5-182.4 | 185.5-182.4 |
| Parameter | | | | | | | | | | |
| Metals | | | | | | | | | | |
| Dissolved Barium | μg/L | 610 | 2.0 | 129 | 104 | 132 | 128 | 86.5 | 130 | 157 |
| Dissolved Beryllium | μg/L | 0.5 | 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 |
| Dissolved Boron | μg/L | 1700 | 10.0 | 194 | 158 | 186 | 160 | 103 | 140 | 127 |
| Dissolved Cadmium | μg/L | 0.5 | 0.20 | <0.20 | 0.25 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Dissolved Chromium | μg/L | 11 | 2.0 | <2.0 | <2.0 | 2.8 | <2.0 | <2.0 | 6.9 | <2.0 |
| Dissolved Cobalt | μg/L | 3.8 | 0.50 | < 0.50 | <0.50 | 0.50 | <0.50 | < 0.50 | <0.50 | <0.50 |
| Dissolved Copper | μg/L | 5 | 1.0 | 11.7 | <1.0 | 33.4 | <1.0 | 21.9 | 3.7 | <1.0 |
| Dissolved Lead | μg/L | 1.9 | 0.50 | <0.50 | <0.50 | 0.68 | <0.50 | <0.50 | <0.50 | <0.50 |
| Dissolved Molybdenum | μg/L | 23 | 0.50 | 9.46 | 9.02 | 5.10 | 4.93 | 5.10 | 6.79 | 6.44 |
| Dissolved Nickel | μg/L | 14 | 1.0 | 3.3 | <1.0 | 5.4 | <1.0 | 1.8 | 2.9 | 1.1 |
| Dissolved Silver | μg/L | 0.3 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Dissolved Thallium | μg/L | 0.5 | 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Dissolved Uranium | μg/L | 8.9 | 0.50 | 1.63 | 1.62 | 1.22 | 1.73 | 1.14 | 1.71 | 3.27 |
| Dissolved Vanadium | μg/L | 3.9 | 0.40 | < 0.40 | <0.40 | 1.00 | 0.55 | 0.64 | 1.16 | 0.52 |
| Dissolved Zinc | μg/L | 160 | 5.0 | 9.8 | <5.0 | 11.8 | <5.0 | 9.4 | 7.1 | <5.0 |
| Hydride Metals | | | | | | | | | | |
| Dissolved Antimony | μg/L | 1.5 | 1.0 | <1.0 | NA | <1.0 | NA | <1.0 | <1.0 | NA |
| Dissolved Arsenic | μg/L | 13 | 1.0 | 4.8 | NA | 3.2 | NA | 2.4 | 3.0 | NA |
| Dissolved Selenium | μg/L | 5 | 1.0 | <1.0 | NA | <1.0 | NA | <1.0 | 1.5 | NA |
| Other Regulated Parameters | | | | | | | | | | |
| Mercury | μg/L | 0.1 | 0.02 | <0.02 | NA | <0.02 | NA | <0.02 | <0.02 | NA |
| Chromium VI | μg/L | 25 | 2.000 | <2.000 | NA | <2.000 | NA | <2.000 | 3.44 | NA |
| Cyanide, Free | μg/L | 5 | 2 | <2 | NA | <2 | NA | <2 | <2 | NA |
| Electrical Conductivity | uS/cm | NA | 2 | 720 | NA | 602 | NA | 566 | 567 | NA |
| pH | pH Units | | NA | 7.88 | NA | 7.92 | NA | 7.95 | 7.95 | NA |

Comments:

Results compared to MECP 2011 Table 1 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use in a Coarse Textured Soil Condition

RDL - Reported Detection Limit; G / S - Guideline / Standard

RDL exceeded Standard
Sample result exceeded Standard

Results are considered anomalous, the QP does not believe copper is a contaminant of concern in ground water

Table 8 rapie o Ground Water Quality Analysis Volatile Organic Compounds 6463 Trafalgar Road Milton, Ontario Project No. 7-22-0008-42

| | | | | Dupl | icate | |
|--------------------------------|------|---------|------|-------------|-------------|------------|
| Sample Description | | MECP | | BH1 | DUP2 | Trip Blank |
| Date Sampled | 1 | Table 1 | | 05/26/2022 | 05/26/2022 | 05/26/2022 |
| Lab ID | Unit | RPI/ICC | RDL | 3907398 | 3907401 | 3907415 |
| Screen/Sample Depth (mbgs) | Unit | SCS | KDL | 3.0-6.1 | 3.0-6.1 | |
| Screen/Sample Elevation (masl) | | | | 185.6-182.5 | 185.6-182.5 | - |
| Parameter | | | | | | |
| Dichlorodifluoromethane | μg/L | 590 | 0.40 | < 0.40 | < 0.40 | <0.40 |
| Vinyl Chloride | μg/L | 0.5 | 0.17 | <0.17 | <0.17 | <0.17 |
| Bromomethane | μg/L | 0.89 | 0.20 | <0.20 | <0.20 | <0.20 |
| Trichlorofluoromethane | μg/L | 150 | 0.40 | < 0.40 | < 0.40 | < 0.40 |
| Acetone | μg/L | 2700 | 1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethylene | μg/L | 0.5 | 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Methylene Chloride | μg/L | 5 | 0.30 | < 0.30 | < 0.30 | < 0.30 |
| trans- 1,2-Dichloroethylene | μg/L | 1.6 | 0.20 | <0.20 | <0.20 | <0.20 |
| Methyl tert-butyl ether | μg/L | 15 | 0.20 | <0.20 | <0.20 | <0.20 |
| 1,1-Dichloroethane | μg/L | 0.5 | 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Methyl Ethyl Ketone | μg/L | 400 | 1.0 | <1.0 | <1.0 | <1.0 |
| cis- 1,2-Dichloroethylene | μg/L | 1.6 | 0.20 | <0.20 | <0.20 | <0.20 |
| Chloroform | μg/L | 2 | 0.20 | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloroethane | μg/L | 0.5 | 0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1-Trichloroethane | μg/L | 0.5 | 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Carbon Tetrachloride | μg/L | 0.2 | 0.20 | <0.20 | <0.20 | <0.20 |
| Benzene | μg/L | 0.5 | 0.20 | <0.20 | <0.20 | <0.20 |
| 1,2-Dichloropropane | μg/L | 0.5 | 0.20 | <0.20 | <0.20 | <0.20 |
| Trichloroethylene | μg/L | 0.5 | 0.20 | <0.20 | <0.20 | <0.20 |
| Bromodichloromethane | μg/L | 2 | 0.20 | <0.20 | <0.20 | <0.20 |
| Methyl Isobutyl Ketone | μg/L | 640 | 1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | μg/L | 0.5 | 0.20 | <0.20 | <0.20 | <0.20 |
| Toluene | μg/L | 0.8 | 0.20 | <0.20 | <0.20 | <0.20 |
| Dibromochloromethane | μg/L | 2 | 0.10 | <0.10 | <0.10 | <0.10 |
| Ethylene Dibromide | μg/L | 0.2 | 0.10 | <0.10 | <0.10 | <0.10 |
| Tetrachloroethylene | μg/L | 0.5 | 0.20 | <0.20 | <0.20 | <0.20 |
| 1,1,1,2-Tetrachloroethane | μg/L | 1.1 | 0.10 | <0.10 | <0.10 | <0.10 |
| Chlorobenzene | μg/L | 0.5 | 0.10 | <0.10 | <0.10 | <0.10 |
| Ethylbenzene | μg/L | 0.5 | 0.10 | <0.10 | <0.10 | <0.10 |
| m & p-Xylene | μg/L | NV | 0.20 | <0.20 | <0.20 | <0.20 |
| Bromoform | μg/L | 5 | 0.10 | <0.10 | <0.10 | <0.10 |
| Styrene | μg/L | 0.5 | 0.10 | <0.10 | <0.10 | <0.10 |
| 1,1,2,2-Tetrachloroethane | μg/L | 0.5 | 0.10 | <0.10 | <0.10 | <0.10 |
| o-Xylene | μg/L | NV | 0.10 | <0.10 | <0.10 | <0.10 |
| 1,3-Dichlorobenzene | μg/L | 0.5 | 0.10 | <0.10 | <0.10 | <0.10 |
| 1,4-Dichlorobenzene | μg/L | 0.5 | 0.10 | <0.10 | <0.10 | <0.10 |
| 1,2-Dichlorobenzene | μg/L | 0.5 | 0.10 | <0.10 | <0.10 | <0.10 |
| 1,3-Dichloropropene | μg/L | 0.5 | 0.30 | < 0.30 | < 0.30 | < 0.30 |
| Xylenes (Total) | μg/L | 72 | 0.20 | <0.20 | <0.20 | <0.20 |
| n-Hexane | μg/L | 5 | 0.20 | <0.20 | <0.20 | <0.20 |

Comments:

Results compared to MECP 2011 Table 1 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commencial/Community Land Use in a Coarse Textured Soil Condition

RDL - Reported Detection Limit; G / S - Guideline / Standard

RDL exceeded Standard
Sample result exceeded Standard

Table 9
Ground Water Quality Analysis
Petroleum Hydrocarbons
6463 Trafalgar Road
Milton, Ontario
Project No. 7-22-0008-42

| | | | | Dupl | icate |
|--------------------------------|-------|---------|-----|-------------|-------------|
| Sample Description | | MECP | | BH1 | DUP2 |
| Date Sampled | | Table 1 | | 05/26/2022 | 05/26/2022 |
| Lab ID | Unit | RPI/ICC | RDL | 3907398 | 3907401 |
| Screen/Sample Depth (mbgs) | Ullit | SCS | KDL | 3.0-6.1 | 3.0-6.1 |
| Screen/Sample Elevation (masl) | | | | 185.6-182.5 | 185.6-182.5 |
| Parameter | | | | | |
| F1 (C6-C10) | μg/L | 420 | 25 | <25 | <25 |
| F1 (C6 to C10) minus BTEX | μg/L | 420 | 25 | <25 | <25 |
| F2 (C10 to C16) | μg/L | 150 | 100 | <100 | <100 |
| F3 (C16 to C34) | μg/L | 500 | 100 | <100 | <100 |
| F4 (C34 to C50) | μg/L | 500 | 100 | <100 | <100 |
| Gravimetric Heavy Hydrocarbons | μg/L | | 500 | NA | NA |

Comments:

Results compared to MECP 2011 Table 1 Site Condition Standards for

Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use in a Coarse Textured Soil Condition

RDL - Reported Detection Limit; G / S - Guideline / Standard

RDL exceeded Standard

Sample result exceeded Standard

NV- No Value

NA-Not Analyzed

Table 10 Ground Water Quality Analysis Volatile Organic Compounds 6463 Trafalgar Road Milton, Ontario Project No. 7-22-0008-42

| | | | | Dupl | icate | |
|--------------------------------|------|---------|------|-------------|-------------|------------|
| Sample Description | | MECP | | BH1 | DUP2 | Trip Blank |
| Date Sampled | | Table 1 | | 05/26/2022 | 05/26/2022 | 05/26/2022 |
| Lab ID | Unit | RPI/ICC | RDL | 3907398 | 3907401 | 3907415 |
| Screen/Sample Depth (mbgs) | Onit | SCS | KDL | 3.0-6.1 | 3.0-6.1 | |
| Screen/Sample Elevation (masl) | | | | 185.6-182.5 | 185.6-182.5 | - |
| Parameter | | | | | | |
| Benzene | μg/L | 0.5 | 0.20 | <0.20 | <0.20 | <0.20 |
| Toluene | μg/L | 0.8 | 0.20 | <0.20 | <0.20 | <0.20 |
| Ethylbenzene | μg/L | 0.5 | 0.10 | <0.10 | <0.10 | <0.10 |
| m & p-Xylene | μg/L | NV | 0.20 | <0.20 | <0.20 | <0.20 |
| o-Xylene | μg/L | NV | 0.10 | <0.10 | <0.10 | <0.10 |
| Xylenes (Total) | μg/L | 72 | 0.20 | <0.20 | <0.20 | <0.20 |

Comments:

Results compared to MECP 2011 Table 1 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use in a Coarse Textured Soil Condition

RDL - Reported Detection Limit; G / S - Guideline / Standard

RDL exceeded Standard

Sample result exceeded Standard

Table 11 Ground Water Quality Analysis Organochlorine Pesticides 6463 Trafalgar Road Milton, Ontario Project No. 7-22-0008-42

| | | | | | Dupl | icate |
|--------------------------------|------|---------|------|-------------|-------------|-------------|
| Sample Description | | MECP | | BH3 | BH5 | DUP1 |
| Date Sampled | | Table 1 | | 05/26/2022 | 05/26/2022 | 05/26/2022 |
| Lab ID | Unit | RPI/ICC | RDL | 3907395 | 3907387 | 3907400 |
| Screen/Sample Depth (mbgs) | Unit | SCS | KDL | 3.0-6.1 | 3.0-6.1 | 3.0-6.1 |
| Screen/Sample Elevation (masl) | | | | 185.6-182.5 | 185.5-182.4 | 185.5-182.4 |
| Parameter | | | | | | |
| Gamma-Hexachlorocyclohexane | μg/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| Heptachlor | μg/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| Aldrin | μg/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| Heptachlor Epoxide | μg/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| Endosulfan I | μg/L | NV | 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan II | μg/L | NV | 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Endosulfan | μg/L | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 |
| alpha - chlordane | μg/L | NV | 0.04 | < 0.04 | <0.04 | <0.04 |
| gamma-Chlordane | μg/L | NV | 0.04 | < 0.04 | <0.04 | <0.04 |
| Chlordane | μg/L | 0.06 | 0.04 | <0.04 | <0.04 | <0.04 |
| op'-DDE | μg/L | NV | 0.01 | <0.01 | <0.01 | <0.01 |
| pp'-DDE | μg/L | NV | 0.01 | < 0.01 | <0.01 | <0.01 |
| DDE | μg/L | 10 | 0.01 | <0.01 | <0.01 | <0.01 |
| op'-DDD | μg/L | NV | 0.05 | < 0.05 | <0.05 | <0.05 |
| pp'-DDD | μg/L | NV | 0.05 | < 0.05 | < 0.05 | < 0.05 |
| DDD | μg/L | 1.8 | 0.05 | < 0.05 | < 0.05 | < 0.05 |
| op'-DDT | μg/L | NV | 0.04 | < 0.04 | <0.04 | <0.04 |
| pp'-DDT | μg/L | NV | 0.05 | < 0.05 | <0.05 | <0.05 |
| DDT | μg/L | 0.05 | 0.04 | < 0.04 | <0.04 | <0.04 |
| Dieldrin | μg/L | 0.05 | 0.02 | < 0.02 | <0.02 | <0.02 |
| Endrin | μg/L | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Methoxychlor | μg/L | 0.05 | 0.04 | <0.04 | <0.04 | <0.04 |
| Hexachlorobenzene | ug/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| Hexachlorobutadiene | ug/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| Hexachloroethane | ug/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 |

Comments:Results compared to MECP 2011 Table 1 Site Condition Standards for $Residential/Parkland/Institutional/Industrial/Commercial/Community\ Land\ Use\ in\ a\ Coarse\ Textured\ Soil$

RDL - Reported Detection Limit; G / S - Guideline / Standard

RDL exceeded Standard

Sample result exceeded Standard

Table 12 Ground Water Quality Analysis Polycyclic Aromatic Hydrocarbons 6463 Trafalgar Road Milton, Ontario Project No. 7-22-0008-42

| | | | | Dupli | cate |
|--------------------------------|-------|---------|------|-------------|-------------|
| Sample Description | | MECP | | BH1 | DUP2 |
| Date Sampled | | Table 1 | | 05/26/2022 | 05/26/2022 |
| Lab ID | Unit | RPI/ICC | RDL | 3907398 | 3907401 |
| Screen/Sample Depth (mbgs) | Offic | SCS | NDL | 3.0-6.1 | 3.0-6.1 |
| Screen/Sample Elevation (masl) | | | | 185.6-182.5 | 185.6-182.5 |
| Parameter | | | | | |
| Naphthalene | μg/L | 7 | 0.20 | <0.20 | <0.20 |
| Acenaphthylene | μg/L | 1 | 0.20 | <0.20 | <0.20 |
| Acenaphthene | μg/L | 4.1 | 0.20 | <0.20 | <0.20 |
| Fluorene | μg/L | 120 | 0.20 | <0.20 | <0.20 |
| Phenanthrene | μg/L | 0.1 | 0.10 | <0.10 | <0.10 |
| Anthracene | μg/L | 0.1 | 0.10 | <0.10 | <0.10 |
| Fluoranthene | μg/L | 0.41 | 0.20 | <0.20 | <0.20 |
| Pyrene | μg/L | 0.2 | 0.20 | <0.20 | <0.20 |
| Benzo(a)anthracene | μg/L | 0.2 | 0.20 | <0.20 | <0.20 |
| Chrysene | μg/L | 0.1 | 0.10 | <0.10 | <0.10 |
| Benzo(b)fluoranthene | μg/L | 0.1 | 0.10 | <0.10 | <0.10 |
| Benzo(k)fluoranthene | μg/L | 0.1 | 0.10 | <0.10 | <0.10 |
| Benzo(a)pyrene | μg/L | 0.01 | 0.01 | <0.01 | <0.01 |
| Indeno(1,2,3-cd)pyrene | μg/L | 0.2 | 0.20 | <0.20 | <0.20 |
| Dibenz(a,h)anthracene | μg/L | 0.2 | 0.20 | <0.20 | <0.20 |
| Benzo(g,h,i)perylene | μg/L | 0.2 | 0.20 | <0.20 | <0.20 |
| 2-and 1-methyl Naphthalene | μg/L | 2 | 0.20 | <0.20 | <0.20 |

Comments

Condition

Results compared to MECP 2011 Table 1 Site Condition Standards for Residential/Parkland/Institutional/Industrial/Commercial/Community Land Use in a Coarse Textured Soil

RDL - Reported Detection Limit; $\,$ G / S - Guideline / Standard

RDL exceeded Standard

Sample result exceeded Standard

APPENDIX A



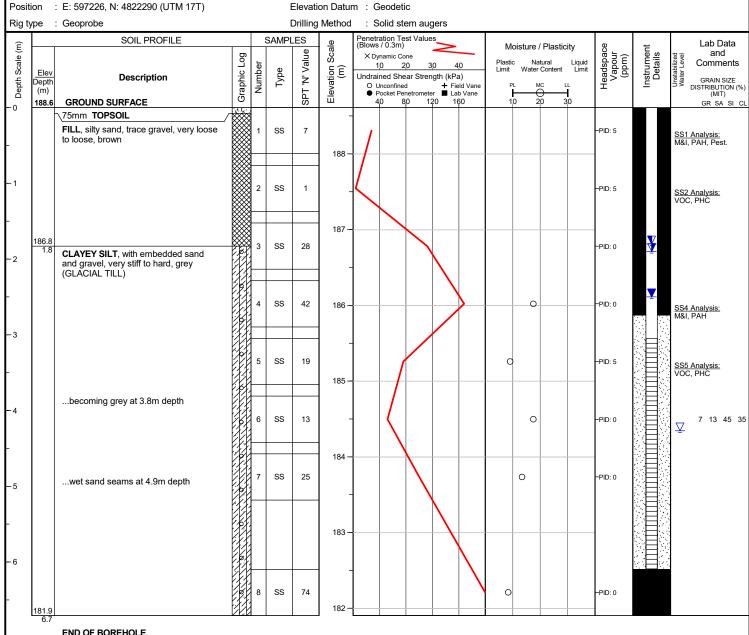
TERRAPROBE INC.



Project No. : York Trafalgar Management Corp Originated by: KG : 7-22-0008-01 Client

Date started : May 2, 2022 Project: 6463 Trafalgar Road Compiled by: PC

Checked by: PC Sheet No. : 1 of 1 Location: Milton, Ontario



END OF BOREHOLE

Unstabilized water level measured at 4.3 m below ground surface; borehole caved to 4.6 m below ground surface upon completion of drilling.

WATER LEVEL READINGS Water Ponth (m) Elevation (m)

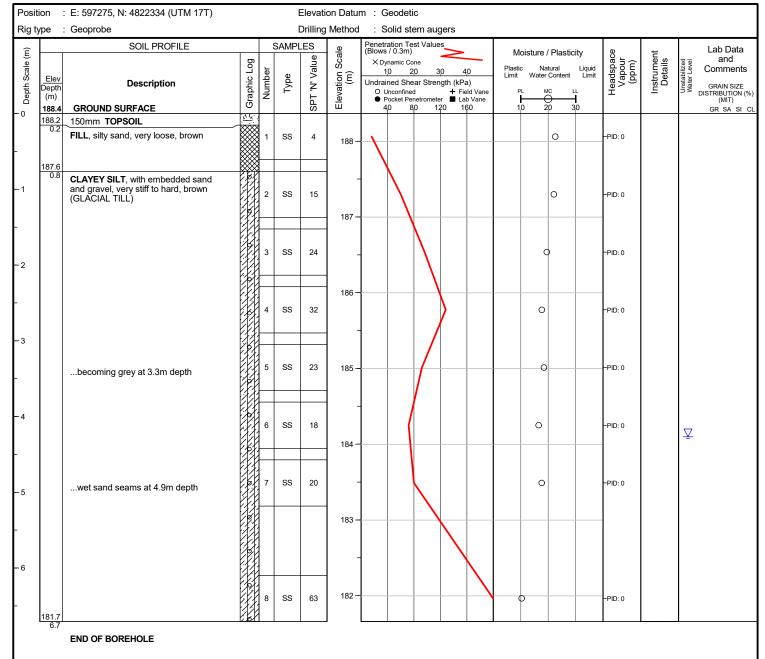
| <u>Date</u> | <u>water Depth (m)</u> | Elevation (m |
|--------------|------------------------|--------------|
| May 17, 2022 | 1.8 | 186.8 |
| May 26, 2022 | 1.9 | 186.7 |
| Jul 8, 2022 | 2.5 | 186.1 |



Project No. : 7-22-0008-01 Client : York Trafalgar Management Corp Originated by : KG

Date started : May 2, 2022 Project : 6463 Trafalgar Road Compiled by : PC

Sheet No. : 1 of 1 Location : Milton, Ontario Checked by : PC



Unstabilized water level measured at 4.3 m below ground surface; borehole caved to 4.6 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.



Project No. : 7-22-0008-01 Client : York Trafalgar Management Corp Originated by: KG

Date started : May 2, 2022 Project : 6463 Trafalgar Road Compiled by: PC

Sheet No. : 1 of 1 Location: Milton, Ontario Checked by: PC

| | | : E: 597377, N: 4822335 (UTM 17T) | | | | | | m : Geode | | | | | | | | | |
|-----------------|-------------------------------|--|-------------|-----------|----|----|---------|-----------|---|--|---|---|--|--|--------------|-----------------------|--|
| Rig ty | /pe : | : Geoprobe | | | | | Method | | | | | 1 | | | | | |
| Oepth Scale (m) | Elev Depth (m) 188.6 | SOIL PROFILE Description GROUND SURFACE | Graphic Log | lue en la | | | SAMPLES | | | | | | Moisture / Plasticity Plastic Natural Liquid Limit Water Content Limit PL MC LL LIMIT MC LL LIMIT MC | | | Instrument Details | Lab Data and and Comments GRAIN SIZE DISTRIBUTION (MIT) GR SA SI |
| - | | FILL, clayey silt, trace to some sand, with intermixed topsoil, very loose, brown | | 1 | SS | 3 | 188 - | | | | | | 0 | | -PID: 0 | | SS1 Analysis: M&I, Pest. |
| -1 | 187.7 0.9 | CLAYEY SILT, with embedded sand and gravel, very stiff to hard, brown (GLACIAL TILL) | | 2 | SS | 13 | - | | | | | | 0 | | -PID: 0 | | SS2 Analysis: VOC, PHC |
| -2 | | | | 3 | SS | 21 | 187 - | | | | | | 0 | | - -PID: 0 | Ā | 8 20 43 |
| | | | | 4 | SS | 31 | 186 - | | \ | | | | 0 | | PID: 0 | <u>▼</u> | |
| -3 | | | | 5 | SS | 46 | 185 - | | | | | | 0 | | -PID: 0 | | |
| -4 | | becoming grey at 3.8m depth | | 6 | SS | 19 | - | | | | | | 0 | | -PID: 0 | | |
| -5 | | wet sand seams at 4.9m depth | | 7 | SS | 18 | 184 - | | | | | (|) | | -PID: 0 | | |
| -6 | | | | | | | 183 - | | | | | | | | | | |
| - | 181.9 6.7 | | | 8 | SS | 51 | 182 - | | | | \ | 0 | | | -PID: 0 | | |

END OF BOREHOLE

Borehole was dry and open upon completion of drilling.

50 mm dia. monitoring well installed.

| WA | ATER | LE | VEL | RE | ΞΑ | IID | NGS |
|----|------|----|-----|----|----|-----|-----|
| | | | _ | | | | _ |

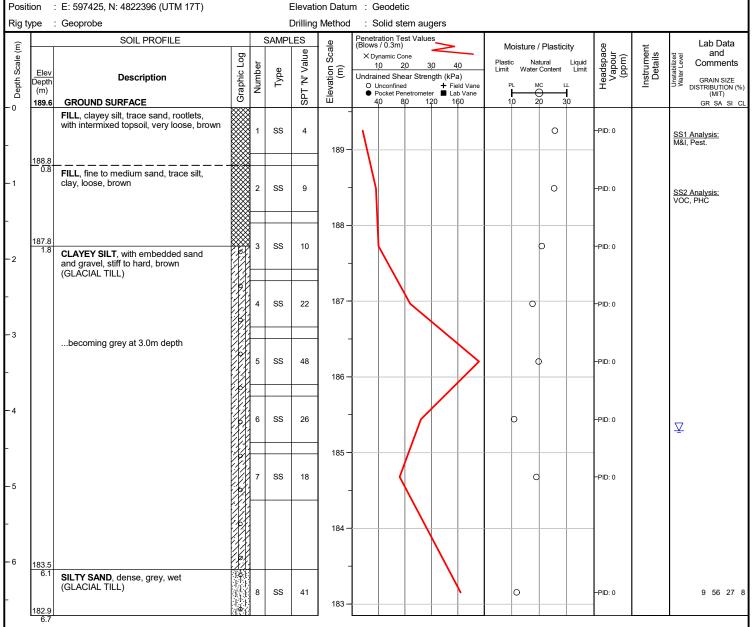
| WAT | TER LEVEL READIN | IGS |
|--------------|------------------|---------------|
| <u>Date</u> | Water Depth (m) | Elevation (m) |
| May 17, 2022 | 1.8 | 186.8 |
| May 26, 2022 | 1.9 | 186.7 |
| Jul 8, 2022 | 2.5 | 186.1 |



Project No. : 7-22-0008-01 Client : York Trafalgar Management Corp Originated by : KG

Date started : May 2, 2022 Project : 6463 Trafalgar Road Compiled by : PC

Sheet No. : 1 of 1 Location : Milton, Ontario Checked by : PC



END OF BOREHOLE

Unstabilized water level measured at 4.3 m below ground surface; borehole caved to 4.6 m below ground surface upon completion of drilling.



Originated by: KG Project No. : 7-22-0008-01 Client : York Trafalgar Management Corp

Date started : May 3, 2022 Project : 6463 Trafalgar Road Compiled by: PC

Sheet No. : 1 of 1 Location: Milton, Ontario Checked by: PC

| Posit | | : E: 597347, N: 4822460 (UTM 17T) | | | | | | n : Geo | | | | | | | | |
|-----------------|------------------------------|---|---------------------------|--------|---|----|---|---------|---------------|-----------------------------------|---|-------------|---|---------|-------|-----------------------------|
| Rig t | уре | : Geoprobe | | | | | Method | | stem a | | | | | | | т |
| Depth Scale (m) | Elev Depth (m) | SOIL PROFILE Description GROUND SURFACE | Graphic Log | Number | Type I.V. Value (m) O Uncorn O Uncorn | | Undrained Shear Strength (kPa) O Unconfined + Field Vane ● Pocket Penetrometer ■ Lab Vane | | | Moisture (Plastic Na Limit Water | Headspace Vapour (ppm) Instrument Details | | Lab Data and Comments Part Part Part | | | |
| - | 187.7 | SILTY TOPSOIL, with rootlets, (reworked), loose, brown | 12 - 21 1 21 12 - 21 1 | 1 | SS | 6 | 188 – | | | | | | 0 | -PID: 0 | | SS1 Analysis: M&I, Pest. |
| -1 | 0.8 | CLAYEY SILT, with embedded sand and gravel, stiff to hard, brown (GLACIAL TILL) | | 2 | SS | 23 | - | | | | | 0 | | -PID: 0 | | |
| -2 | | | | 3 | SS | 33 | 187 - | | | | | 0 | | -PID: 0 | Ā | |
| | | | | 4 | SS | 42 | 186 – | | | | | 0 | | -PID: 0 | | |
| -3 - | | becoming grey at 3.3m depth | | 5 | SS | 30 | 185 – | | | | | 0 | | -PID: 0 | | |
| -4 | | wet sand seams at 4.3m depth | | 6 | SS | 19 | - 184 – | | | | | | 0 | -PID: 0 | | |
| - -5 | 4.6 | SANDY SILT, compact, grey, wet | | 7 | SS | 15 | - | | | | | С | | -PID: 0 | | <u> </u> |
| - | | | | | | | 183 – | | $\frac{1}{2}$ | | | | | | | |
| -6 - | 182.1 6.4 181.8 6.7 | CLAYEY SILT, with embedded sand and gravel, very stiff, grey \(GLACIAL TILL) | | 8 | SS | 29 | 182 – | | | \ | | 0 | | -PID: 0 | v:⊞v: | |
| | · · · | END OF BOREHOLE | , | | | | | | | WA Nate | | EVEL READIN | | m) | | |

Unstabilized water level measured at 4.9 m below ground surface; borehole caved to 5.5 m below ground surface upon completion of drilling.

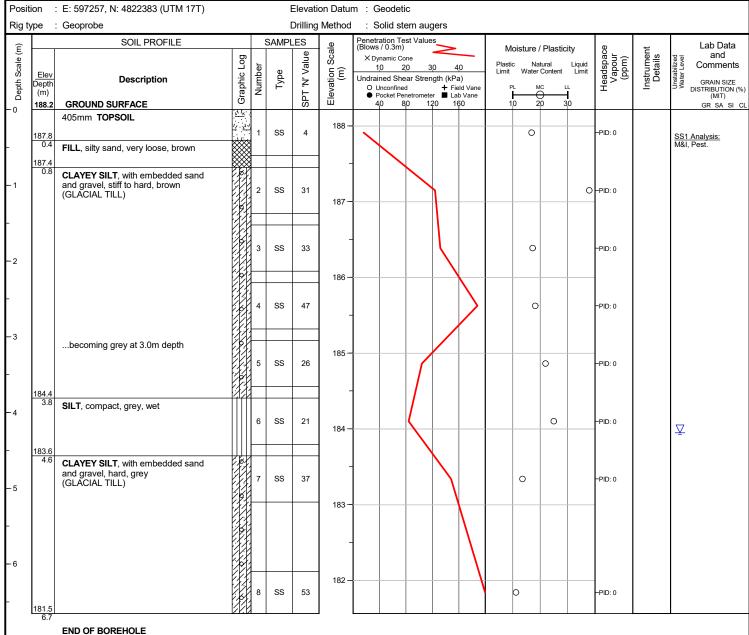
| <u>water Depth (m)</u> | Elevation (m |
|------------------------|--------------|
| 1.6 | 186.9 |
| 1.8 | 186.7 |
| 2.4 | 186.1 |
| | 1.6 1.8 |



Project No. Originated by: KG : 7-22-0008-01 Client : York Trafalgar Management Corp

Date started: May 4, 2022 Project : 6463 Trafalgar Road Compiled by: PC

Checked by: PC Sheet No. : 1 of 1 Location: Milton, Ontario



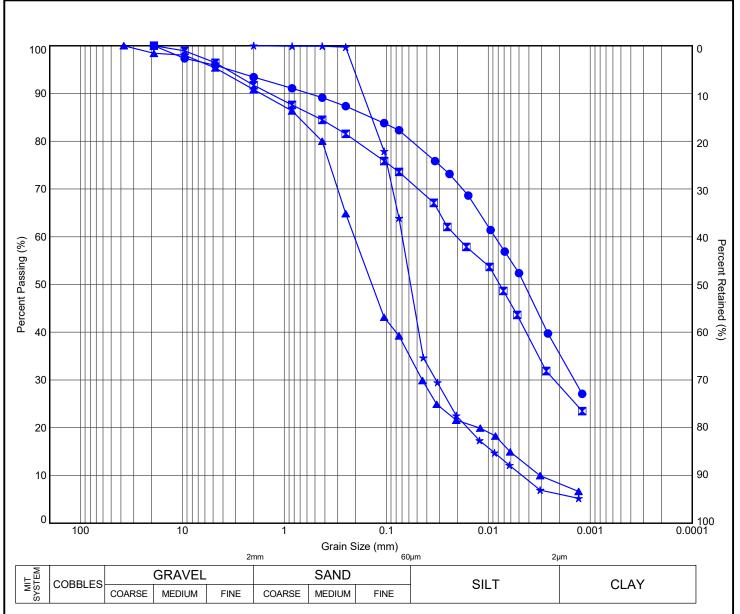
Unstabilized water level measured at 4.3 m below ground surface; borehole caved to 4.6 m below ground surface upon completion of drilling.

50 mm dia. monitoring well installed.

APPENDIX B

TERRAPROBE INC.





MIT SYSTEM Hole ID Sample Depth (m) Elev. (m) Gravel (%) Sand (%) Sil

| | Hole ID | Sample | Depth (m) | Elev. (m) | Gravel (%) | Sand (%) | Silt (%) | Clay (%) | (Fines, %) |
|---|---------|--------|-----------|-----------|------------|----------|----------|----------|------------|
| • | 1 | SS6 | 4.1 | 184.5 | 7 | 13 | 45 | 35 | |
| × | 3 | SS3 | 1.8 | 186.8 | 8 | 20 | 43 | 29 | |
| _ | 4 | SS8 | 6.4 | 183.2 | 9 | 56 | 27 | 8 | |
| * | 5 | SS7 | 4.9 | 183.6 | 0 | 48 | 46 | 6 | |
| | | | | | | | | | |

| | Terraprobe |
|--|------------|
|--|------------|

Title:

GRAIN SIZE DISTRIBUTION

903 Barton Street, Unit 22, Stoney Creek ON L8E 5P5 (905) 643-7560

File No.:

7-22-0008-01

APPENDIX C

TERRAPROBE INC.





CLIENT NAME: TERRAPROBE INC 903 Barton Street

Stoney Creek, ON L8E5P5

(905) 643-7560

ATTENTION TO: Amber Brooks

PROJECT: 7-22-0008-42

AGAT WORK ORDER: 22H892548

SOIL ANALYSIS REVIEWED BY: Jacky Zhu, Spectroscopy Technician

TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer

DATE REPORTED: May 30, 2022

PAGES (INCLUDING COVER): 20 VERSION*: 1

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

| *Notes | |
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AGAT Laboratories (V1)

Page 1 of 20

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SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H892548

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

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

| DATE RECEIVED: 2022-05-06 | | | | | | | | I | DATE REPORTI | ED: 2022-05-30 | |
|---------------------------------------|----------|-------|---|--|--|---------------------------------------|--|--|--|--|---------------------------------------|
| Parameter | Unit | | CRIPTION: PLE TYPE: SAMPLED: RDL | BH1 SA1 Soil 2022-05-02 3830060 | BH1 SA4 Soil 2022-05-02 3830062 | DUP2 Soil 2022-05-02 3830064 | BH3 SA1 Soil 2022-05-02 3830084 | BH4 SA1 Soil 2022-05-02 3830085 | BH5 SA1 Soil 2022-05-03 3830086 | BH6 SA1 Soil 2022-05-04 3830087 | DUP1 Soil 2022-05-02 3830088 |
| Antimony | μg/g | 1.3 | 0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 | <0.8 |
| Arsenic | μg/g | 18 | 1 | 5 | 7 | 7 | 9 | 9 | 6 | 6 | 8 |
| Barium | μg/g | 220 | 2.0 | 42.4 | 75.4 | 90.4 | 85.2 | 101 | 71.0 | 45.6 | 98.9 |
| Beryllium | μg/g | 2.5 | 0.4 | <0.4 | 0.8 | 0.9 | 1.0 | 1.1 | 0.8 | 0.5 | 1.0 |
| Boron | μg/g | 36 | 5 | 5 | 12 | 12 | 8 | 8 | 8 | <5 | 8 |
| Boron (Hot Water Soluble) | μg/g | NA | 0.10 | 0.39 | 0.21 | 0.18 | 0.58 | 0.61 | 0.24 | 0.33 | 0.58 |
| Cadmium | μg/g | 1.2 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium | μg/g | 70 | 5 | 10 | 20 | 25 | 24 | 28 | 21 | 13 | 26 |
| Cobalt | μg/g | 21 | 0.5 | 4.3 | 11.4 | 15.5 | 10.6 | 12.4 | 9.5 | 4.0 | 12.2 |
| Copper | μg/g | 92 | 1.0 | 23.2 | 22.5 | 32.4 | 21.6 | 22.4 | 38.2 | 18.6 | 21.8 |
| Lead | μg/g | 120 | 1 | 17 | 9 | 11 | 13 | 16 | 12 | 12 | 15 |
| Molybdenum | μg/g | 2 | 0.5 | 0.5 | 0.6 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Nickel | μg/g | 82 | 1 | 11 | 26 | 34 | 24 | 27 | 24 | 12 | 25 |
| Selenium | μg/g | 1.5 | 0.8 | <0.8 | <0.8 | <0.8 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 |
| Silver | μg/g | 0.5 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Thallium | μg/g | 1 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Uranium | μg/g | 2.5 | 0.50 | <0.50 | 0.56 | 0.70 | 0.81 | 0.93 | 0.87 | 0.53 | 0.92 |
| Vanadium | μg/g | 86 | 0.4 | 17.2 | 26.8 | 36.2 | 38.8 | 44.0 | 31.9 | 19.6 | 42.5 |
| Zinc | μg/g | 290 | 5 | 52 | 54 | 69 | 77 | 86 | 70 | 60 | 84 |
| Chromium, Hexavalent | μg/g | 0.66 | 0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| Cyanide, Free | μg/g | 0.051 | 0.040 | <0.040 | < 0.040 | <0.040 | <0.040 | <0.040 | < 0.040 | < 0.040 | < 0.040 |
| Mercury | μg/g | 0.27 | 0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| Electrical Conductivity (2:1) | mS/cm | 0.57 | 0.005 | 0.163 | 0.187 | 0.168 | | | | | |
| Sodium Adsorption Ratio (2:1) (Calc.) | N/A | 2.4 | N/A | 0.129 | 0.299 | 0.288 | | | | | |
| pH, 2:1 CaCl2 Extraction | pH Units | | NA | 6.22 | 6.69 | 6.84 | 6.58 | 6.31 | 6.65 | 6.68 | 6.40 |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 22H892548

PROJECT: 7-22-0008-42

SAMPLED BY:KG

ATTENTION TO: Amber Brooks

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

DATE RECEIVED: 2022-05-06 DATE REPORTED: 2022-05-30

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil -

Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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.

3830060-3830088 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.

CLIENT NAME: TERRAPROBE INC

SAMPLING SITE:

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO CANADA L4Z 1Y2

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SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H892548

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

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

| DATE RECEIVED: 2022-05-06 | | | | | | | | I | DATE REPORTED | : 2022-05-30 |
|-----------------------------|------|------------|-----------|------------|------------|------------|------------|------------|---------------|--------------|
| | | SAMPLE DES | CRIPTION: | BH1 SA1 | BH3 SA1 | BH4 SA1 | BH5 SA1 | BH6 SA1 | DUP1 | |
| | | SAM | PLE TYPE: | Soil | Soil | Soil | Soil | Soil | Soil | |
| | | | SAMPLED: | 2022-05-02 | 2022-05-02 | 2022-05-02 | 2022-05-03 | 2022-05-04 | 2022-05-02 | |
| Parameter | Unit | G/S | RDL | 3830060 | 3830084 | 3830085 | 3830086 | 3830087 | 3830088 | |
| Hexachloroethane | µg/g | 0.01 | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | < 0.005 | <0.005 | |
| Gamma-Hexachlorocyclohexane | µg/g | 0.01 | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| Heptachlor | µg/g | 0.05 | 0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | |
| Aldrin | μg/g | 0.05 | 0.005 | < 0.005 | <0.005 | <0.005 | <0.005 | < 0.005 | < 0.005 | |
| Heptachlor Epoxide | μg/g | 0.05 | 0.005 | < 0.005 | <0.005 | <0.005 | <0.005 | < 0.005 | < 0.005 | |
| Endosulfan I | μg/g | | 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 | < 0.005 | < 0.005 | |
| Endosulfan II | μg/g | | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | |
| Endosulfan | μg/g | 0.04 | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | |
| Alpha-Chlordane | μg/g | | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | |
| gamma-Chlordane | μg/g | | 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 | < 0.005 | <0.005 | |
| Chlordane | μg/g | 0.05 | 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | |
| op'-DDE | ug/g | | 0.005 | < 0.005 | <0.005 | <0.005 | <0.005 | < 0.005 | <0.005 | |
| pp'-DDE | µg/g | | 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 | < 0.005 | < 0.005 | |
| DDE | μg/g | 0.05 | 0.007 | < 0.007 | <0.007 | <0.007 | <0.007 | < 0.007 | <0.007 | |
| op'-DDD | μg/g | | 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 | < 0.005 | < 0.005 | |
| pp'-DDD | µg/g | | 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 | < 0.005 | <0.005 | |
| DDD | μg/g | 0.05 | 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | < 0.007 | <0.007 | |
| op'-DDT | µg/g | | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 | |
| pp'-DDT | μg/g | | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | |
| DDT (Total) | μg/g | 1.4 | 0.007 | < 0.007 | < 0.007 | < 0.007 | <0.007 | < 0.007 | <0.007 | |
| Dieldrin | μg/g | 0.05 | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | |
| Endrin | μg/g | 0.04 | 0.005 | <0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 | |
| Methoxychlor | μg/g | 0.05 | 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 | |
| Hexachlorobenzene | μg/g | 0.01 | 0.005 | <0.005 | < 0.005 | < 0.005 | < 0.005 | <0.005 | <0.005 | |
| Hexachlorobutadiene | μg/g | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | |
| Moisture Content | % | | 0.1 | 7.6 | 6.3 | 5.3 | 3.6 | 14.2 | 18.4 | |
| wet weight OC | g | | 0.01 | 10.44 | 10.38 | 10.75 | 10.92 | 10.32 | 10.76 | |
| Surrogate | Unit | Acceptab | | | | | | | | |
| TCMX | % | 50- | | 73 | 104 | 96 | 88 | 73 | 78 | |
| Decachlorobiphenyl | % | 50- | | 86 | 102 | 96 | 108 | 97 | 88 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 22H892548

PROJECT: 7-22-0008-42

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

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO CANADA L4Z 1Y2

CLIENT NAME: TERRAPROBE INC

SAMPLING SITE:

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

DATE RECEIVED: 2022-05-06 DATE REPORTED: 2022-05-30

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil -

Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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.

3830060-3830088 Results are based on the dry weight of the soil.

DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.

DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD. DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.

Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.

Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.

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

Analysis performed at AGAT Toronto (unless marked by *)

Pinkal Jata



SAMPLING SITE:

Acridine-d9

Terphenyl-d14

Certificate of Analysis

AGAT WORK ORDER: 22H892548

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

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

| DATE RECEIVED: 2022-05-06 | | | | | | | DATE REPORTED: 2022-05-30 |
|---------------------------|------|------------|-----------|------------|------------|------------|---------------------------|
| | | SAMPLE DES | CRIPTION: | BH1 SA1 | BH1 SA4 | DUP2 | |
| | | SAMI | PLE TYPE: | Soil | Soil | Soil | |
| | | DATE S | SAMPLED: | 2022-05-02 | 2022-05-02 | 2022-05-02 | |
| Parameter | Unit | G/S | RDL | 3830060 | 3830062 | 3830064 | |
| Naphthalene | μg/g | 0.09 | 0.05 | < 0.05 | <0.05 | < 0.05 | |
| Acenaphthylene | μg/g | 0.093 | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Acenaphthene | μg/g | 0.072 | 0.05 | < 0.05 | <0.05 | < 0.05 | |
| Fluorene | μg/g | 0.12 | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Phenanthrene | μg/g | 0.69 | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Anthracene | μg/g | 0.16 | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Fluoranthene | μg/g | 0.56 | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Pyrene | μg/g | 1 | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Benz(a)anthracene | μg/g | 0.36 | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Chrysene | μg/g | 2.8 | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Benzo(b)fluoranthene | μg/g | 0.47 | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Benzo(k)fluoranthene | μg/g | 0.48 | 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 | 0.46 | 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 | 0.68 | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| 1 and 2 Methlynaphthalene | μg/g | 0.59 | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Moisture Content | % | | 0.1 | 7.6 | 4.0 | 4.2 | |
| Surrogate | Unit | Acceptab | le Limits | | | | |
| Naphthalene-d8 | % | 50-1 | 140 | 78 | 100 | 68 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

%

50-140

50-140

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.

105

87

3830060-3830064 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.

96

85

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

78

93





SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H892548

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO CANADA L4Z 1Y2

http://www.agatlabs.com

TEL (905)712-5100 FAX (905)712-5122

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

DATE RECEIVED: 2022-05-06 DATE REPORTED: 2022-05-30

| DATE RECEIVED. 2022-05-00 | | | | | | | | | DATE REPORTED. 2022-03-30 |
|--------------------------------|------------|-------------|-----------|------------|------------|------------|------------|------------|---------------------------|
| | S | SAMPLE DESC | CRIPTION: | BH1 SA2 | BH1 SA5 | DUP3 | BH3 SA2 | BH4 SA2 | |
| | | SAME | PLE TYPE: | Soil | Soil | Soil | Soil | Soil | |
| | | DATE S | SAMPLED: | 2022-05-02 | 2022-05-02 | 2022-05-02 | 2022-05-02 | 2022-05-02 | |
| Parameter | Unit | G/S | RDL | 3830061 | 3830063 | 3830065 | 3830089 | 3830090 | |
| F1 (C6 - C10) | μg/g | 25 | 5 | <5 | <5 | <5 | <5 | <5 | |
| F1 (C6 to C10) minus BTEX | μg/g | 25 | 5 | <5 | <5 | <5 | <5 | <5 | |
| F2 (C10 to C16) | μg/g | 10 | 10 | <10 | <10 | <10 | <10 | <10 | |
| F3 (C16 to C34) | μg/g | 240 | 50 | <50 | <50 | <50 | <50 | <50 | |
| F4 (C34 to C50) | μg/g | 120 | 50 | <50 | <50 | <50 | <50 | <50 | |
| Gravimetric Heavy Hydrocarbons | μg/g | 120 | 50 | NA | NA | NA | NA | NA | |
| Moisture Content | % | | 0.1 | 6.9 | 5.7 | 4.8 | 11.5 | 13.8 | |
| Surrogate | Unit | Acceptabl | le Limits | | | | | | |
| Toluene-d8 | % Recovery | 50-1 | 40 | 80 | 78 | 73 | 76 | 89 | · |
| Terphenyl | % | 60-1 | 40 | 65 | 81 | 75 | 68 | 70 | |
| | | | | | | | | | |

Comments:

RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil -

Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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.

3830061-3830090 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

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 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 without the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:





SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H892548

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

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

| DATE RECEIVED: 2022-05-06 | | | | | | | | | DATE REPORTED: 2022-05-30 |
|-----------------------------|------|--------|---------------------|-------------------------------|-------------------------------|----------------------------|-------------------------------|-------------------------------|---------------------------|
| _ | | DATE S | LE TYPE: AMPLED: | BH1 SA2 Soil 2022-05-02 | BH1 SA5 Soil 2022-05-02 | DUP3 Soil 2022-05-02 | BH3 SA2 Soil 2022-05-02 | BH4 SA2 Soil 2022-05-02 | |
| Parameter | Unit | G/S | RDL | 3830061 | 3830063 | 3830065 | 3830089 | 3830090 | |
| Dichlorodifluoromethane | μg/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | |
| Vinyl Chloride | ug/g | 0.02 | 0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | |
| Bromomethane | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | |
| Trichlorofluoromethane | ug/g | 0.25 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | < 0.05 | |
| Acetone | ug/g | 0.5 | 0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | |
| 1,1-Dichloroethylene | ug/g | 0.05 | 0.05 | <0.05 | < 0.05 | < 0.05 | <0.05 | <0.05 | |
| Methylene Chloride | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | <0.05 | < 0.05 | |
| Trans- 1,2-Dichloroethylene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | <0.05 | < 0.05 | |
| Methyl tert-butyl Ether | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| 1,1-Dichloroethane | ug/g | 0.05 | 0.02 | < 0.02 | < 0.02 | <0.02 | < 0.02 | < 0.02 | |
| Methyl Ethyl Ketone | ug/g | 0.5 | 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | < 0.50 | |
| Cis- 1,2-Dichloroethylene | ug/g | 0.05 | 0.02 | < 0.02 | < 0.02 | <0.02 | < 0.02 | < 0.02 | |
| Chloroform | ug/g | 0.05 | 0.04 | < 0.04 | < 0.04 | <0.04 | < 0.04 | < 0.04 | |
| 1,2-Dichloroethane | ug/g | 0.05 | 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | |
| 1,1,1-Trichloroethane | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Carbon Tetrachloride | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Benzene | ug/g | 0.02 | 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.02 | |
| 1,2-Dichloropropane | ug/g | 0.05 | 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | |
| Trichloroethylene | ug/g | 0.05 | 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | |
| Bromodichloromethane | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Methyl Isobutyl Ketone | ug/g | 0.5 | 0.50 | <0.50 | < 0.50 | <0.50 | < 0.50 | < 0.50 | |
| 1,1,2-Trichloroethane | ug/g | 0.05 | 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | |
| Toluene | ug/g | 0.2 | 0.05 | < 0.05 | < 0.05 | <0.05 | <0.05 | < 0.05 | |
| Dibromochloromethane | ug/g | 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 | |
| Tetrachloroethylene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | <0.05 | < 0.05 | < 0.05 | |
| 1,1,1,2-Tetrachloroethane | ug/g | 0.05 | 0.04 | <0.04 | <0.04 | <0.04 | < 0.04 | <0.04 | |
| Chlorobenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | |
| Ethylbenzene | ug/g | 0.05 | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | |
| m & p-Xylene | ug/g | | 0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | |

Certified By:





Certificate of Analysis

AGAT WORK ORDER: 22H892548

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

CLIENT NAME: TERRAPROBE INC

SAMPLING SITE:

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

| DATE RECEIVED: 2022-05-06 | | | | | | | | | DATE REPORTED: 2022-05-30 |
|-----------------------------------|------------|-------------|---------|------------|------------|------------|------------|------------|---------------------------|
| | S | AMPLE DESCI | _ | BH1 SA2 | BH1 SA5 | DUP3 | BH3 SA2 | BH4 SA2 | |
| | | SAMPL | E TYPE: | Soil | Soil | Soil | Soil | Soil | |
| | | DATE SA | AMPLED: | 2022-05-02 | 2022-05-02 | 2022-05-02 | 2022-05-02 | 2022-05-02 | |
| Parameter | Unit | G/S | RDL | 3830061 | 3830063 | 3830065 | 3830089 | 3830090 | |
| Bromoform | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| Styrene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| 1,1,2,2-Tetrachloroethane | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| o-Xylene | ug/g | | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| 1,3-Dichlorobenzene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | <0.05 | < 0.05 | < 0.05 | |
| 1,4-Dichlorobenzene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| 1,2-Dichlorobenzene | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | <0.05 | < 0.05 | < 0.05 | |
| Xylenes (Total) | ug/g | 0.05 | 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| 1,3-Dichloropropene (Cis + Trans) | μg/g | 0.05 | 0.05 | < 0.05 | < 0.05 | <0.05 | < 0.05 | < 0.05 | |
| n-Hexane | μg/g | 0.05 | 0.05 | < 0.05 | < 0.05 | <0.05 | < 0.05 | < 0.05 | |
| Moisture Content | % | | 0.1 | 6.9 | 5.7 | 4.8 | 11.5 | 13.8 | |
| Surrogate | Unit | Acceptable | Limits | | | | | | |
| Toluene-d8 | % Recovery | 50-14 | 0 | 80 | 78 | 73 | 76 | 89 | |
| 4-Bromofluorobenzene | % Recovery | 50-14 | 0 | 75 | 111 | 109 | 110 | 108 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Soil -

Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use

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.

3830061-3830090 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 *)

Jinkal Jata



Quality Assurance

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42

SAMPLING SITE:

AGAT WORK ORDER: 22H892548
ATTENTION TO: Amber Brooks

SAMPLED BY:KG

| | | | | Soi | l Ana | alysis | 6 | | | | | | | | |
|---------------------------------------|---------------|---------|--------|----------|-------|-----------------|--------------------|--------|----------|----------------------|-------|----------|------|----------------|-------|
| RPT Date: May 30, 2022 | | | С | UPLICATI | | | REFERE | NCE MA | TERIAL | METHOD | BLANK | SPIKE | MAT | RIX SP | KE |
| PARAMETER | Batch | Sample | Dup #1 | Dup #2 | RPD | Method Blank | Measured Limits Ro | | Recovery | Acceptable Limits | | Recovery | | ptable nits | |
| | | ld | | . | | | Value | Lower | Upper | | Lower | Upper | • | Lower | Upper |
| O. Reg. 153(511) - Metals & Inor | ganics (Soil) |) | | | | | | • | • | | • | | | | • |
| Antimony | 3830060 | 3830060 | <0.8 | <0.8 | NA | < 0.8 | 97% | 70% | 130% | 96% | 80% | 120% | 84% | 70% | 130% |
| Arsenic | 3830060 | 3830060 | 5 | 5 | 0.0% | < 1 | 127% | 70% | 130% | 105% | 80% | 120% | 108% | 70% | 130% |
| Barium | 3830060 | 3830060 | 42.4 | 43.0 | 1.4% | < 2.0 | 102% | 70% | 130% | 103% | 80% | 120% | 112% | 70% | 130% |
| Beryllium | 3830060 | 3830060 | < 0.4 | < 0.4 | NA | < 0.4 | 114% | 70% | 130% | 103% | 80% | 120% | 115% | 70% | 130% |
| Boron | 3830060 | 3830060 | 5 | 5 | NA | < 5 | 87% | 70% | 130% | 101% | 80% | 120% | 100% | 70% | 130% |
| Boron (Hot Water Soluble) | 3830060 | 3830060 | 0.39 | 0.39 | NA | < 0.10 | 96% | 60% | 140% | 100% | 70% | 130% | 101% | 60% | 140% |
| Cadmium | 3830060 | 3830060 | <0.5 | <0.5 | NA | < 0.5 | 103% | 70% | 130% | 96% | 80% | 120% | 103% | 70% | 130% |
| Chromium | 3830060 | 3830060 | 10 | 11 | NA | < 5 | 109% | 70% | 130% | 104% | 80% | 120% | 111% | 70% | 130% |
| Cobalt | 3830060 | 3830060 | 4.3 | 4.3 | 0.0% | < 0.5 | 106% | 70% | 130% | 111% | 80% | 120% | 105% | 70% | 130% |
| Copper | 3830060 | 3830060 | 23.2 | 23.3 | 0.4% | < 1.0 | 105% | 70% | 130% | 104% | 80% | 120% | 92% | 70% | 130% |
| Lead | 3830060 | 3830060 | 17 | 18 | 5.7% | < 1 | 103% | 70% | 130% | 95% | 80% | 120% | 92% | 70% | 130% |
| Molybdenum | 3830060 | 3830060 | 0.5 | 0.5 | NA | < 0.5 | 121% | 70% | 130% | 109% | 80% | 120% | 107% | 70% | 130% |
| Nickel | 3830060 | 3830060 | 11 | 11 | 0.0% | < 1 | 116% | 70% | 130% | 110% | 80% | 120% | 99% | 70% | 130% |
| Selenium | 3830060 | 3830060 | <0.8 | <0.8 | NA | < 0.8 | 97% | 70% | 130% | 98% | 80% | 120% | 107% | 70% | 130% |
| Silver | 3830060 | 3830060 | <0.5 | <0.5 | NA | < 0.5 | 103% | 70% | 130% | 105% | 80% | 120% | 97% | 70% | 130% |
| Thallium | 3830060 | 3830060 | <0.5 | <0.5 | NA | < 0.5 | 104% | 70% | 130% | 112% | 80% | 120% | 109% | 70% | 130% |
| Uranium | 3830060 | 3830060 | < 0.50 | < 0.50 | NA | < 0.50 | 96% | 70% | 130% | 99% | 80% | 120% | 92% | 70% | 130% |
| Vanadium | 3830060 | 3830060 | 17.2 | 18.0 | 4.5% | < 0.4 | 101% | 70% | 130% | 110% | 80% | 120% | 113% | 70% | 130% |
| Zinc | 3830060 | 3830060 | 52 | 49 | 5.9% | < 5 | 105% | 70% | 130% | 99% | 80% | 120% | 99% | 70% | 130% |
| Chromium, Hexavalent | 3816029 | | <0.2 | <0.2 | NA | < 0.2 | 103% | 70% | 130% | 99% | 80% | 120% | 98% | 70% | 130% |
| Cyanide, Free | 3830085 | 3830085 | <0.040 | <0.040 | NA | < 0.040 | 86% | 70% | 130% | 108% | 80% | 120% | 96% | 70% | 130% |
| Mercury | 3830060 | 3830060 | <0.10 | <0.10 | NA | < 0.10 | 103% | 70% | 130% | 100% | 80% | 120% | 106% | 70% | 130% |
| Electrical Conductivity (2:1) | 3829965 | | 1.10 | 1.11 | 0.9% | < 0.005 | 97% | 80% | 120% | | | | | | |
| Sodium Adsorption Ratio (2:1) (Calc.) | 3830060 | 3830060 | 0.129 | 0.123 | 4.8% | NA | | | | | | | | | |
| pH, 2:1 CaCl2 Extraction | 3830060 | 3830060 | 6.22 | 6.45 | 3.6% | NA | 97% | 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: __



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Quality Assurance

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 22H892548 PROJECT: 7-22-0008-42 **ATTENTION TO: Amber Brooks**

SAMPLING SITE: SAMPLED BY:KG

| | | Trac | ce Or | ganio | cs Ar | nalys | is | | | | | | | |
|--------------------------------|---------------------|--------|----------|-------|-----------------|----------|--------|----------------|----------|--------|-----------------|----------|---------|-----------------|
| RPT Date: May 30, 2022 | | | DUPLICAT | E | | REFERE | NCE MA | TERIAL | METHOD | BLAN | SPIKE | МАТ | RIX SPI | IKE |
| PARAMETER | Batch Sample | Dup #1 | Dup #2 | RPD | Method Blank | Measured | | ptable nits | Recovery | 1 1 11 | eptable mits | Recovery | 1 1 1 | eptable mits |
| | ld ld | | | | | Value | Lower | Upper | , | | Upper | | Lower | Uppe |
| O. Reg. 153(511) - PAHs (Soil) | | | | | | | • | | | • | | | | |
| Naphthalene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 85% | 50% | 140% | 74% | 50% | 140% | 89% | 50% | 140% |
| Acenaphthylene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 74% | 50% | 140% | 85% | 50% | 140% | 74% | 50% | 140% |
| Acenaphthene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 96% | 50% | 140% | 96% | 50% | 140% | 85% | 50% | 140% |
| Fluorene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 85% | 50% | 140% | 81% | 50% | 140% | 96% | 50% | 140% |
| Phenanthrene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 71% | 50% | 140% | 85% | 50% | 140% | 81% | 50% | 140% |
| Anthracene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 85% | 50% | 140% | 96% | 50% | 140% | 82% | 50% | 140% |
| Fluoranthene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 92% | 50% | 140% | 67% | 50% | 140% | 96% | 50% | 140% |
| Pyrene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 71% | 50% | 140% | 85% | 50% | 140% | 83% | 50% | 140% |
| Benz(a)anthracene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 82% | 50% | 140% | 78% | 50% | 140% | 82% | 50% | 140% |
| Chrysene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 140% | 95% | 50% | 140% | 81% | 50% | 140% |
| Benzo(b)fluoranthene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 93% | 50% | 140% | 90% | 50% | 140% | 85% | 50% | 140% |
| Benzo(k)fluoranthene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 82% | 50% | 140% | 72% | 50% | 140% | 92% | 50% | 140% |
| Benzo(a)pyrene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 71% | 50% | 140% | 81% | 50% | 140% | 66% | 50% | 140% |
| Indeno(1,2,3-cd)pyrene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 74% | 50% | 140% | 82% | 50% | 140% | 84% | 50% | 140% |
| Dibenz(a,h)anthracene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 85% | 50% | 140% | 93% | 50% | 140% | 75% | 50% | 140% |
| Benzo(g,h,i)perylene | 3833688 | < 0.05 | < 0.05 | NA | < 0.05 | 72% | 50% | 140% | 94% | 50% | 140% | 95% | 50% | 140% |
| O. Reg. 153(511) - PHCs F1 - F | 4 (with VOC) (Soil) | | | | | | | | | | | | | |
| F1 (C6 - C10) | 3830090 3830090 | <5 | <5 | NA | < 5 | 121% | 60% | 140% | 114% | 60% | 140% | 93% | 60% | 140% |
| F2 (C10 to C16) | 3820600 | < 10 | < 10 | NA | < 10 | 99% | 60% | 140% | 115% | 60% | 140% | 108% | 60% | 140% |
| F3 (C16 to C34) | 3820600 | < 50 | < 50 | NA | < 50 | 96% | 60% | 140% | 90% | 60% | 140% | 75% | 60% | 140% |
| F4 (C34 to C50) | 3820600 | < 50 | < 50 | NA | < 50 | 84% | 60% | 140% | 71% | 60% | | 78% | 60% | 140% |
| Moisture Content | 3830086 3830086 | 3.61 | 4.86 | 29.5% | < 0.1 | NA | | | NA | | | NA | | |
| O. Reg. 153(511) - VOCs (with | PHC) (Soil) | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 3830090 3830090 | < 0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 92% | 50% | 140% | 115% | 50% | 140% |
| Vinyl Chloride | 3830090 3830090 | <0.02 | < 0.02 | NA | < 0.02 | 117% | 50% | 140% | 105% | 50% | 140% | 101% | 50% | 140% |
| Bromomethane | 3830090 3830090 | < 0.05 | < 0.05 | NA | < 0.05 | 88% | 50% | 140% | 111% | 50% | 140% | 109% | 50% | 140% |
| Trichlorofluoromethane | 3830090 3830090 | < 0.05 | < 0.05 | NA | < 0.05 | 96% | 50% | 140% | 116% | 50% | 140% | 111% | 50% | 140% |
| Acetone | 3830090 3830090 | <0.50 | <0.50 | NA | < 0.50 | 104% | 50% | 140% | 99% | 50% | 140% | 102% | 50% | 140% |
| 1,1-Dichloroethylene | 3830090 3830090 | <0.05 | <0.05 | NA | < 0.05 | 83% | 50% | 140% | 118% | 60% | 130% | 97% | 50% | 140% |
| Methylene Chloride | 3830090 3830090 | < 0.05 | < 0.05 | NA | < 0.05 | 92% | | 140% | 106% | | 130% | 94% | 50% | 140% |
| Trans- 1,2-Dichloroethylene | 3830090 3830090 | <0.05 | <0.05 | NA | < 0.05 | 90% | | 140% | 97% | 60% | | 85% | 50% | 140% |
| Methyl tert-butyl Ether | 3830090 3830090 | <0.05 | <0.05 | NA | < 0.05 | 107% | | 140% | 101% | 60% | | 113% | 50% | 140% |
| 1,1-Dichloroethane | 3830090 3830090 | <0.02 | <0.02 | NA | < 0.02 | 98% | | 140% | 88% | | 130% | 98% | | |
| Methyl Ethyl Ketone | 3830090 3830090 | <0.50 | <0.50 | NA | < 0.50 | 98% | 50% | 140% | 90% | 50% | 140% | 96% | 50% | 140% |
| Cis- 1,2-Dichloroethylene | 3830090 3830090 | <0.02 | <0.02 | NA | < 0.02 | 119% | | 140% | 89% | | 130% | 108% | 50% | 140% |
| Chloroform | 3830090 3830090 | <0.02 | <0.02 | NA | < 0.02 | 97% | | 140% | 105% | | 130% | 111% | 50% | |
| 1,2-Dichloroethane | 3830090 3830090 | < 0.03 | <0.04 | NA | < 0.04 | 101% | | | 87% | | 130% | 120% | 50% | 140% |
| 1,2 Diomoroculario | 3030030 3030030 | <0.05 | <0.05 | 11/7 | < 0.05 | 101% | | 140% | 92% | | 130% | 97% | 50% | |

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.

AGAT WORK ORDER: 22H892548

Quality Assurance

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42 ATTENTION TO: Amber Brooks

SAMPLING SITE: SAMPLED BY:KG

| RPT Date: May 30, 2022 | | | | UPLICATI | Ε | | REFERE | NCE MA | TERIAL | METHOD | BLAN | SPIKE | MAT | RIX SPI | KE |
|----------------------------------|--------------|-----------|------------|-------------|-----------|-----------------|------------|-----------|----------------|-------------|----------|----------------|-----------|-----------|----------------|
| PARAMETER | Batch | Sample | Dup #1 | Dup #2 | RPD | Method Blank | Measured | | ptable nits | Recovery | 1 1: | ptable nits | Recovery | 1 1 1 1 1 | ptable nits |
| TANAMETER | | ld | - up | | 2 | | Value | Lower | Upper | , | Lower | Upper | , | Lower | Upper |
| Carbon Tetrachloride | 3830090 3 | 830090 | <0.05 | <0.05 | NA | < 0.05 | 110% | 50% | 140% | 92% | 60% | 130% | 110% | 50% | 140% |
| Benzene | 3830090 3 | 830090 | < 0.02 | < 0.02 | NA | < 0.02 | 87% | 50% | 140% | 87% | 60% | 130% | 90% | 50% | 140% |
| 1,2-Dichloropropane | 3830090 3 | 830090 | < 0.03 | < 0.03 | NA | < 0.03 | 95% | 50% | 140% | 85% | 60% | 130% | 94% | 50% | 140% |
| Trichloroethylene | 3830090 3 | 8830090 | < 0.03 | < 0.03 | NA | < 0.03 | 92% | 50% | 140% | 111% | 60% | 130% | 106% | 50% | 140% |
| Bromodichloromethane | 3830090 3 | 8830090 | <0.05 | <0.05 | NA | < 0.05 | 113% | 50% | 140% | 89% | 60% | 130% | 107% | 50% | 140% |
| Methyl Isobutyl Ketone | 3830090 3 | 8830090 | <0.50 | <0.50 | NA | < 0.50 | 88% | 50% | 140% | 87% | 50% | 140% | 97% | 50% | 140% |
| 1,1,2-Trichloroethane | 3830090 3 | 830090 | < 0.04 | < 0.04 | NA | < 0.04 | 113% | 50% | 140% | 116% | 60% | 130% | 96% | 50% | 140% |
| Toluene | 3830090 3 | 830090 | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 140% | 100% | 60% | 130% | 81% | 50% | 140% |
| Dibromochloromethane | 3830090 3 | 830090 | < 0.05 | < 0.05 | NA | < 0.05 | 116% | 50% | 140% | 115% | 60% | 130% | 87% | 50% | 140% |
| Ethylene Dibromide | 3830090 3 | 8830090 | <0.04 | <0.04 | NA | < 0.04 | 98% | 50% | 140% | 105% | 60% | 130% | 86% | 50% | 140% |
| Tetrachloroethylene | 3830090 3 | 8830090 | <0.05 | <0.05 | NA | < 0.05 | 112% | 50% | 140% | 110% | 60% | 130% | 106% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 3830090 3 | 830090 | < 0.04 | < 0.04 | NA | < 0.04 | 97% | 50% | 140% | 112% | 60% | 130% | 95% | 50% | 140% |
| Chlorobenzene | 3830090 3 | 830090 | < 0.05 | < 0.05 | NA | < 0.05 | 106% | 50% | 140% | 108% | 60% | 130% | 89% | 50% | 140% |
| Ethylbenzene | 3830090 3 | 830090 | < 0.05 | < 0.05 | NA | < 0.05 | 83% | 50% | 140% | 88% | 60% | 130% | 80% | 50% | 140% |
| m & p-Xylene | 3830090 3 | 8830090 | <0.05 | < 0.05 | NA | < 0.05 | 92% | 50% | 140% | 99% | 60% | 130% | 99% | 50% | 140% |
| Bromoform | 3830090 3 | 830090 | <0.05 | <0.05 | NA | < 0.05 | 90% | 50% | 140% | 108% | 60% | 130% | 113% | 50% | 140% |
| Styrene | 3830090 3 | 8830090 | < 0.05 | < 0.05 | NA | < 0.05 | 89% | 50% | 140% | 89% | 60% | 130% | 74% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 3830090 3 | 830090 | < 0.05 | < 0.05 | NA | < 0.05 | 91% | 50% | 140% | 96% | 60% | 130% | 115% | 50% | 140% |
| o-Xylene | 3830090 3 | 8830090 | < 0.05 | < 0.05 | NA | < 0.05 | 92% | 50% | 140% | 98% | 60% | 130% | 76% | 50% | 140% |
| 1,3-Dichlorobenzene | 3830090 3 | 8830090 | <0.05 | <0.05 | NA | < 0.05 | 104% | 50% | 140% | 99% | 60% | 130% | 106% | 50% | 140% |
| 1,4-Dichlorobenzene | 3830090 3 | 830090 | <0.05 | <0.05 | NA | < 0.05 | 115% | 50% | 140% | 100% | 60% | 130% | 110% | 50% | 140% |
| 1,2-Dichlorobenzene | 3830090 3 | 830090 | < 0.05 | < 0.05 | NA | < 0.05 | 109% | 50% | 140% | 104% | 60% | 130% | 103% | 50% | 140% |
| n-Hexane | 3830090 3 | 8830090 | <0.05 | < 0.05 | NA | < 0.05 | 105% | 50% | 140% | 81% | 60% | 130% | 82% | 50% | 140% |
| Comments: When the average of th | e sample and | duplicate | results is | less than 5 | x the RDI | _, the Rela | tive Perce | nt Diffei | rence (F | RPD) will b | be indic | ated as | Not Appli | cable (N | NA). |
| O. Reg. 153(511) - OC Pesticides | s (Soil) | | | | | | | | | | | | | | |
| Hexachloroethane | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 98% | 50% | 140% | 75% | 50% | 140% | 102% | 50% | 140% |
| Gamma-Hexachlorocyclohexane | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 106% | 50% | 140% | 83% | 50% | 140% | 82% | 50% | 140% |
| Heptachlor | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 108% | 50% | 140% | 89% | 50% | 140% | 88% | 50% | 140% |
| Aldrin | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 102% | 50% | 140% | 102% | 50% | 140% | 92% | 50% | 140% |
| Heptachlor Epoxide | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 101% | 50% | 140% | 84% | 50% | 140% | 98% | 50% | 140% |
| Endosulfan I | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 101% | 50% | 140% | 97% | 50% | 140% | 82% | 50% | 140% |
| Endosulfan II | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 104% | 50% | 140% | 97% | 50% | 140% | 79% | 50% | 140% |
| Alpha-Chlordane | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 100% | 50% | 140% | 105% | 50% | 140% | 76% | 50% | 140% |
| gamma-Chlordane | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 100% | 50% | 140% | 98% | 50% | 140% | 79% | 50% | 140% |
| op'-DDE | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 105% | 50% | 140% | 103% | 50% | 140% | 79% | 50% | 140% |

AGAT QUALITY ASSURANCE REPORT (V1)

3824210

3824210

3824210

3824210

< 0.005

< 0.005

< 0.005

< 0.005

< 0.005

< 0.005

< 0.005

< 0.005

pp'-DDE

op'-DDD

pp'-DDD

op'-DDT

Page 12 of 20

50% 140%

50% 140%

50% 140%

50% 140%

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

NA

NA

NA

NA

99%

105%

101%

101%

< 0.005

< 0.005

< 0.005

< 0.005

50% 140%

50% 140%

50% 140%

50%

140%

100%

104%

108%

96%

50% 140%

50% 140%

140%

140%

50%

50%

76%

81%

80%

98%



AGAT WORK ORDER: 22H892548

Quality Assurance

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42 ATTENTION TO: Amber Brooks

SAMPLING SITE: SAMPLED BY:KG

| | Trace Organics Analysis (Continued) | | | | | | | | | | | | | | |
|------------------------|-------------------------------------|-----------|---------|---------|-----|-----------------|---|--------|----------|-----------------------|-------|--------------|------|-----|-------|
| RPT Date: May 30, 2022 | | DUPLICATE | | | | REFEREN | ICE MA | TERIAL | METHOD | BLANK | SPIKE | MATRIX SPIKE | | KE | |
| PARAMETER | Batch | Sample | Dup #1 | Dup #2 | RPD | Method Blank | Blank Measured Limits Pocovery Limits Poc | | Recovery | Accep Recovery Lim | | | | | |
| TANAMETER | | ld | | | | | Value | Lower | Upper | | | Upper | | | Upper |
| pp'-DDT | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 105% | 50% | 140% | 89% | 50% | 140% | 105% | 50% | 140% |
| Dieldrin | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 97% | 50% | 140% | 98% | 50% | 140% | 82% | 50% | 140% |
| Endrin | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 90% | 50% | 140% | 103% | 50% | 140% | 86% | 50% | 140% |
| Methoxychlor | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 107% | 50% | 140% | 106% | 50% | 140% | 106% | 50% | 140% |
| Hexachlorobenzene | 3824210 | | < 0.005 | < 0.005 | NA | < 0.005 | 106% | 50% | 140% | 103% | 50% | 140% | 103% | 50% | 140% |
| Hexachlorobutadiene | 3824210 | | < 0.01 | < 0.01 | NA | < 0.01 | 102% | 50% | 140% | 92% | 50% | 140% | 92% | 50% | 140% |

Certified By:



Method Summary

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42

AGAT WORK ORDER: 22H892548
ATTENTION TO: Amber Brooks

| PARAMETER | PARAMETER AGAT S.O.P LITERATURE REFERENCE ANALYTIC | | | | |
|---------------------------------------|--|--|-------------------------|--|--|
| 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, Free | INOR-93-6052 | modified from ON MOECC E3015, SM 4500-CN- I, G-387 | TECHNICON AUTO ANALYZER | | |
| 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 CaCl2 Extraction | INOR-93-6075 | modified from EPA 9045D, MCKEAGUE 3.11 E3137 | PC TITRATE | | |

Method Summary

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42

SAMPLING SITE:

AGAT WORK ORDER: 22H892548 ATTENTION TO: Amber Brooks

SAMPLED BY:KG

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE | | | |
|-----------------------------|-------------|--|----------------------|--|--|--|
| Trace Organics Analysis | | | | | | |
| Hexachloroethane | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Gamma-Hexachlorocyclohexane | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Heptachlor | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Aldrin | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Heptachlor Epoxide | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Endosulfan I | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Endosulfan II | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Endosulfan | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | CALCULATION | | | |
| Alpha-Chlordane | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| gamma-Chlordane | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Chlordane | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | CALCULATION | | | |
| op'-DDE | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| pp'-DDE | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| DDE | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| op'-DDD | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| pp'-DDD | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| DDD | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | CALCULATION | | | |
| op'-DDT | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| pp'-DDT | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| DDT (Total) | ORG-91-5113 | modified from EPA 3570, 3620C & 8081B | CALCULATION | | | |
| Dieldrin | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Endrin | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Methoxychlor | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Hexachlorobenzene | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Hexachlorobutadiene | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| тсмх | ORG-91-5112 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Decachlorobiphenyl | ORG-91-5113 | modified from EPA 3570 & 3620C & 8081B | GC/ECD | | | |
| Moisture Content | VOL-91-5009 | modified from CCME Tier 1 Method | BALANCE | | | |

Method Summary

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42

SAMPLING SITE:

AGAT WORK ORDER: 22H892548
ATTENTION TO: Amber Brooks

SAMPLED BY:KG

| AGAT S O P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE | | | | |
|-------------|---|---|--|--|--|--|
| | LITERATURE REFERENCE | BALANCE | | | | |
| UKG-91-3113 | modified from EDA 2570 and EDA | BALANCE | | | | |
| ORG-91-5106 | 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| ORG-91-5106 | modified from EPA 3570 and EPA 8270E | GC/MS | | | | |
| VOL-91-5009 | modified from CCME Tier 1 Method | (P&T)GC/FID | | | | |
| VOL-91-5009 | modified from CCME Tier 1 Method | (P&T)GC/FID | | | | |
| VOL-91-5009 | modified from EPA SW-846 5030C & 8260D | (P&T)GC/MS | | | | |
| VOL-91-5009 | modified from CCME Tier 1 Method | GC/FID | | | | |
| VOL-91-5009 | modified from CCME Tier 1 Method | GC/FID | | | | |
| VOL-91-5009 | modified from CCME Tier 1 Method | GC/FID | | | | |
| VOL-91-5009 | modified from CCME Tier 1 Method | BALANCE | | | | |
| VOL-91-5009 | modified from CCME Tier 1 Method | GC/FID | | | | |
| VOL-91-5002 | modified from EPA 5035A and EPA 8260D | (P&T)GC/MS | | | | |
| VOL-91-5002 | modified from EPA 5035A and EPA 8260D | (P&T)GC/MS | | | | |
| | ORG-91-5106 ORG-91-5009 VOL-91-5009 | ORG-91-5106 modified from EPA 3570 and EPA 8270E ORG-91-5106 modified from EPA 3570 and EPA 8270E | | | | |

Method Summary

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42

AGAT WORK ORDER: 22H892548 ATTENTION TO: Amber Brooks

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE | | | | |
|-----------------------------|-------------|---------------------------------------|----------------------|--|--|--|--|
| 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 | | | | |
| 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 | | | | |

Method Summary

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42

SAMPLING SITE:

AGAT WORK ORDER: 22H892548
ATTENTION TO: Amber Brooks

SAMPLED BY:KG

| OAIIII EIIIO OITE. | | OAMII EED DT.IK | |
|-----------------------------------|-------------|---------------------------------------|----------------------|
| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
| 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 |
| 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 |



5835 Coopers Avenue Mississauga, Ontario L4Z 1Y2 Ph: 905 712 5100 Fax: 905.712 5122 webearth.agatlabs.com

| Laboratory Use Only | | | | | | | |
|---|------------|--|--|--|--|--|--|
| Work Order #: | 72H892.548 | | | | | | |
| Cooler Quantity: Arrival Temperatures: | 16 coolex. | | | | | | |
| | 1.6 149 15 | | | | | | |

| Chain of Custody Record If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans) | | | | | | | | Arrival Temperatures: | | 19 5 | | | |
|--|--|-----------------------------|-------------|-------------------------------|--|---------------------------------|--|-----------------------|--|---------------------------------------|------------------------------------|--|--|
| Report Information: Company: | | | | Regulatory Requirements: | | | | | Custody Seal Intact: Yes Notes: No Notes: | | | | |
| Contact: Address: Stoney Creek, Or Ph: (905) 643-75 Attn.: Amber Brod Reports to be sent to: 1. Email: 2. Email: | ntario L8E 5F 60 Fax: (905 | 95 5) 643-7559 | | Soil Te | egulation 153/04 | ite One | Sewer Use Sanitary Storm Region Prov. Water Quality Objectives (PWQO) Other | | Turnaround Time Regular TAT (Most Analys Rush TAT (Rush Surcharges 3 Business Days OR Date Require | 5 to Apply) 2 Business Days | 7 Business Days Next Business Day | | |
| Project Information: Project: 7-22-000 Site Location: Sampled By: AGAT ID #: Picase note: If quotation number is | P0: | e billed full price for and | nlysis, | Red | s this submission for a cord of Site Condition? Yes No nple Matrix Legend Biota | Ce | Report Guldeline on ertificate of Analysis Yes No O. Reg 153 | | *TAT is exclusive of For 'Same Day' analyst O. Reg 558 O. Reg 406 | | statutory holidays | | |
| Invoice Information: Company: Contact: Address: Email: | Bil | To Same: Yes | □ No □ | GW O P S SD SW | Ground Water Oil Paint Soil Sediment Surface Water | Field Filtered - Metals, Hg. C. | organics srV., □ Hg, □ HWSB PHCs if required □ Yes | Total PCBs | Nisposal Charac M&L □voos □AL Soils SPLP Rai I Metals □vooc Soils Character MS Metals, BT | ds+Inampincs (| ially Hazardous or High Concentra | | |
| Sample Identification | Date Sampled | Gampica | | Sample Matrix | Special Instructions | Y/N | | Total | Excess (SPLP: C) PH, ICPI | Medal A | Potent | | |
| BHI SAI BHI SAZ BHI SAY BHI SAS OUR 2 OUR 2 OUR 2 OUR 3 RH3 SAI BHY SAI BHY SAI BHY SAI BHY SAI BHY SAI | Hay 2/22 Hay 3/22 Hay 4/22 Hay 2/22 | AM PM | 2 2 2 2 3 3 | Com | Samples Received By Green Name and Sign | 36 | X X X X X X X X X X X X X X X X X X X | Date May | 16/22 Time 2400 | X X X X X X X X X X X X X X X X X X X | 1AY 8 5:12: | | |
| Samples Relinquished By (Print Name and Sign): Samples Relinquished By (Print Name and Sign): | th | myble | Time | m | Samples Received By (Print, Name and Sign): Print Print, Name and Sign): | in I | | Date | Time | Page | 1 of _ <u>U</u> 3559 | | |



5835 Coopers Avenue Mississauga, Ontario L4Z 1Y2 Ph: 905.712.5100 Fax: 905.712.5122

| .aboratory Us | e Only |
|------------------|-----------|
| Vork Order #: | 224892548 |
| Cooler Quantity: | LG COOLER |

| Chain of Custody Record | | | ample, pleas | se use Drink | iking Water Chain of Custody Form (potab | le water c | onsume | d by hu | ımans) | === | | oler Qua ival Ten | antity: nperatur | | 58 | 5.9 | 160 | _ |
|--|-------------------------------------|---|--------------------|------------------|---|--|---------------------|-------------------------------|--|---------------|--|------------------------|--|----------------------------|-----------------|-----------------------------|--|---|
| Report Information: Company: | | | | Reg (Please | gulatory Requirements: e check all applicable boxes) | | | | | | 11 | | eal Intac | | □Yes (Æ | □No |) | /A |
| Contact: Address: Address: Phone: Reports to be sent to: 1. Email: Contact: Terraprobe Inc. 9 Stoney Creek, O Ph: (905) 643-75 Attn.: Amber Brown Attn.: Amber Brown Email: Z. Email: | ntario L8E 5 560 Fax: (90 | iP5 5) 643-7559 |) | Soil Tel | Regulation 153/04 Excess Soils R4 able Indicate One Indicate One ResyPark Regulation 558 Regulation 558 Coarse CCME | _ [| Prov | Region . Wate | Stor | m | Reg | gular ' sh TAT 3 E Da | TAT (Mo (Rush Sur Susiness ys | ost Analysis rcharges A | 2 Busin Days | equired: 5 to 7 Business | iness Days Next Busine Day | ess |
| Project Information: Project: 7-22-008-1 | R | | | Red | s this submission for a cord of Site Condition? Yes No | Cer | | | eline o | sis | | | T is excl | usive of | f weekends | | rush TAT tory holidays ur AGAT CPM | |
| Sampled By: AGAT ID #: Please note: If quotation number is Invoice Information: Company: Contact: Address: Email: | | be billed full price for a | | В | Oil Paint Soil Sediment | Field Filtered - Metals, Hg, CrVI, DOC | Metals & Inorganics | Metals - □ CrVI, □ Hg, □ HWSB | -F4 PHCs -4G if required □ Yes □ No | CBs 🗆 Araclor | Landfill Disposal Characterization TCLP: Gro | s SPLP Rainwater Leach | ess Soils Characterization Package Process Soils Process Soil | | | | | W Hazardous or High Concentration (Y/N) |
| Sample Identification | Date Sampled, | Time Sampled | # of Containers | Sample Matrix | Comments/ Special Instructions | Y/N | Metais | Metals | BTEX, F1 Analyze F | Total PCBs | Landfill | Excess SPLP: | Excess pH, ICP | Salt - E | | | | Potentia |
| BHY 5AZ BHY 5AZ | May 2/2 | AMM | 2 | 5 | | | | | × | 2 | | | | | | | | |
| Samples Relinquished By (Print Name and Sign): Samples Relinquished By (Print Name and Sign): | | Date May 6 | 72 7. | 30pm | Samples Received By (Print Name and Sign): Samples Received By (Print Name and Sign): | 3h | | | | Date Date | ylet | Time | 2:4 | Oph | Pag | 22 MAY | 6 5:1 of 2 | 3 |

APPENDIX D

TERRAPROBE INC.





CLIENT NAME: TERRAPROBE INC 903 Barton Street

Stoney Creek, ON L8E5P5

(905) 643-7560

ATTENTION TO: Amber Brooks

PROJECT: 7-22-0008-42

AGAT WORK ORDER: 22H900360

TRACE ORGANICS REVIEWED BY: Pinkal Patel, Report Reviewer WATER ANALYSIS REVIEWED BY: Yris Verastegui, Report Reviewer

DATE REPORTED: Jun 10, 2022

PAGES (INCLUDING COVER): 22 VERSION*: 1

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

| Notes | |
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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.

AGAT Laboratories (V1)

Page 1 of 22

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)

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SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H900360

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

| O Rea | 153/511 | - OC Pesticides | (Water) |
|----------|---------|-----------------|-----------------------|
| O. INEG. | 100(011 | | (vval c i) |

| DATE RECEIVED: 2022-05-26 | | | | | | | DATE REPORTED: 2022-06-10 |
|-----------------------------|------|------------|-----------|------------|------------|------------|---------------------------|
| DATE RECEIVED: 2022-05-26 | | | | | | | DATE REPORTED: 2022-06-10 |
| | | SAMPLE DES | | BH5 | BH3 | DUP1 | |
| | | | PLE TYPE: | Water | Water | Water | |
| | | | SAMPLED: | 2022-05-26 | 2022-05-26 | 2022-05-26 | |
| Parameter | Unit | G/S | RDL | 3907387 | 3907395 | 3907400 | |
| Gamma-Hexachlorocyclohexane | μg/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | |
| Heptachlor | μg/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | |
| Aldrin | μg/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | |
| Heptachlor Epoxide | μg/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | |
| Endosulfan I | μg/L | | 0.05 | <0.05 | <0.05 | <0.05 | |
| Endosulfan II | μg/L | | 0.05 | < 0.05 | <0.05 | <0.05 | |
| Endosulfan | μg/L | 0.05 | 0.05 | < 0.05 | <0.05 | <0.05 | |
| alpha - chlordane | μg/L | | 0.04 | < 0.04 | < 0.04 | <0.04 | |
| gamma-Chlordane | μg/L | | 0.04 | < 0.04 | < 0.04 | <0.04 | |
| Chlordane | μg/L | 0.06 | 0.04 | < 0.04 | < 0.04 | <0.04 | |
| op'-DDE | μg/L | | 0.01 | <0.01 | <0.01 | <0.01 | |
| op'-DDE | μg/L | | 0.01 | <0.01 | <0.01 | <0.01 | |
| DDE | μg/L | 10 | 0.01 | <0.01 | <0.01 | <0.01 | |
| op'-DDD | μg/L | | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| pp'-DDD | μg/L | | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| DDD | μg/L | 1.8 | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| op'-DDT | μg/L | | 0.04 | <0.04 | <0.04 | <0.04 | |
| pp'-DDT | μg/L | | 0.05 | < 0.05 | < 0.05 | < 0.05 | |
| DDT | μg/L | 0.05 | 0.04 | <0.04 | <0.04 | <0.04 | |
| Dieldrin | μg/L | 0.05 | 0.02 | < 0.02 | < 0.02 | < 0.02 | |
| Endrin | μg/L | 0.05 | 0.05 | <0.05 | <0.05 | < 0.05 | |
| Methoxychlor | μg/L | 0.05 | 0.04 | <0.04 | <0.04 | <0.04 | |
| Hexachlorobenzene | ug/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | |
| Hexachlorobutadiene | ug/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | |
| Hexachloroethane | ug/L | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | |
| Surrogate | Unit | Acceptab | le Limits | | | | |
| TCMX | % | 50-1 | 40 | 79 | 101 | 85 | |
| Decachlorobiphenyl | % | 60-1 | 40 | 82 | 104 | 89 | |





Certificate of Analysis

AGAT WORK ORDER: 22H900360

PROJECT: 7-22-0008-42

SAMPLED BY:KG

ATTENTION TO: Amber Brooks

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

DATE RECEIVED: 2022-05-26 **DATE REPORTED: 2022-06-10**

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses

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.

3907387-3907400 DDT total is a calculated parameter. The calculated value is the sum of op'DDT and pp'DDT.

DDD total is a calculated parameter. The calculated value is the sum of op'DDD and pp'DDD. DDE total is a calculated parameter. The calculated value is the sum of op'DDE and pp'DDE.

Endosulfan total is a calculated parameter. The calculated value is the sum of Endosulfan I and Endosulfan II.

Chlordane total is a calculated parameter. The calculated value is the sum of Alpha-Chlordane and Gamma-Chlordane.

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

Analysis performed at AGAT Toronto (unless marked by *)

CLIENT NAME: TERRAPROBE INC

SAMPLING SITE:

Certified By:

5835 COOPERS AVENUE

MISSISSAUGA, ONTARIO CANADA L4Z 1Y2

http://www.agatlabs.com

TEL (905)712-5100 FAX (905)712-5122



SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H900360

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

| O Pog | 153(511) | _ DA Hc | (\Mator) |
|---------|----------|---------|----------|
| O. Rea. | 103(011) | - PARS | (vvaler) |

| | | | | O. ING | . 100(011) | Alis (Water) |
|----------------------------|------|--------------|---------|------------|------------|---------------------------|
| DATE RECEIVED: 2022-05-26 | | | | | | DATE REPORTED: 2022-06-10 |
| | | SAMPLE DESCR | IPTION: | BH1 | DUP2 | |
| | | SAMPLI | E TYPE: | Water | Water | |
| | | DATE SAI | MPLED: | 2022-05-26 | 2022-05-26 | |
| Parameter | Unit | G/S | RDL | 3907398 | 3907401 | |
| Naphthalene | μg/L | 7 | 0.20 | <0.20 | <0.20 | |
| Acenaphthylene | μg/L | 1 | 0.20 | <0.20 | <0.20 | |
| Acenaphthene | μg/L | 4.1 | 0.20 | <0.20 | <0.20 | |
| Fluorene | μg/L | 120 | 0.20 | <0.20 | <0.20 | |
| Phenanthrene | μg/L | 0.1 | 0.10 | <0.10 | <0.10 | |
| Anthracene | μg/L | 0.1 | 0.10 | <0.10 | <0.10 | |
| Fluoranthene | μg/L | 0.4 | 0.20 | <0.20 | <0.20 | |
| Pyrene | μg/L | 0.2 | 0.20 | <0.20 | <0.20 | |
| Benzo(a)anthracene | μg/L | 0.2 | 0.20 | <0.20 | <0.20 | |
| Chrysene | μg/L | 0.1 | 0.10 | <0.10 | <0.10 | |
| Benzo(b)fluoranthene | μg/L | 0.1 | 0.10 | <0.10 | <0.10 | |
| Benzo(k)fluoranthene | μg/L | 0.1 | 0.10 | <0.10 | <0.10 | |
| Benzo(a)pyrene | μg/L | 0.01 | 0.01 | <0.01 | <0.01 | |
| Indeno(1,2,3-cd)pyrene | μg/L | 0.2 | 0.20 | <0.20 | <0.20 | |
| Dibenz(a,h)anthracene | μg/L | 0.2 | 0.20 | <0.20 | <0.20 | |
| Benzo(g,h,i)perylene | μg/L | 0.2 | 0.20 | <0.20 | <0.20 | |
| 2-and 1-methyl Naphthalene | μg/L | 2 | 0.20 | <0.20 | <0.20 | |
| Sediment | | | | NA | NA | |
| Surrogate | Unit | Acceptable l | Limits | | | |
| Naphthalene-d8 | % | 50-140 |) | 78 | 74 | |
| Acridine-d9 | % | 50-140 |) | 96 | 77 | |
| Terphenyl-d14 | % | 50-140 |) | 92 | 64 | |
| | | | | | | |

Comments:

RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses 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.

3907398-3907401 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. The calculated parameter is non-accredited. The parameters that are components of the calculation are accredited.

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

Analysis performed at AGAT Toronto (unless marked by *)





SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H900360

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

| DATE RECEIVED: 2022-05-26 | | | | | DATE REPORTED: 2022-06-10 |
|-----------------------------------|------------|-------------------|----------------|------------|---------------------------|
| | S | AMPLE DESCRIPTION | ON: BH1 | DUP2 | |
| | | SAMPLE TY | PE: Water | Water | |
| | | DATE SAMPL | ED: 2022-05-26 | 2022-05-26 | |
| Parameter | Unit | G/S RDL | 3907398 | 3907401 | |
| F1 (C6-C10) | μg/L | 420 25 | <25 | <25 | |
| F1 (C6 to C10) minus BTEX | μg/L | 420 25 | <25 | <25 | |
| F2 (C10 to C16) | μg/L | 150 100 | <100 | <100 | |
| F2 (C10 to C16) minus Naphthalene | μg/L | 100 | <100 | <100 | |
| F3 (C16 to C34) | μg/L | 500 100 | <100 | <100 | |
| F3 (C16 to C34) minus PAHs | μg/L | 100 | <100 | <100 | |
| F4 (C34 to C50) | μg/L | 500 100 | <100 | <100 | |
| Gravimetric Heavy Hydrocarbons | μg/L | 500 | NA | NA | |
| Sediment | | | Trace | Trace | |
| Surrogate | Unit | Acceptable Limit | is | | |
| Toluene-d8 | % | 50-140 | 94 | 95 | |
| Terphenyl | % Recovery | 60-140 | 76 | 85 | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses

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.

3907398-3907401 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.

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

Analysis performed at AGAT Toronto (unless marked by *)





SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H900360

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

| D. Reg. | 153(511) - | VOCs (Water) |
|---------|------------|--------------------|
| | D. Reg. | D. Reg. 153(511) - |

| | | | | O. Neg. | 133(311) - VOCS (Water) |
|-----------------------------|------|-----------|-----------|------------|---------------------------|
| DATE RECEIVED: 2022-05-26 | ; | | | | DATE REPORTED: 2022-06-10 |
| | S | AMPLE DES | CRIPTION: | Trip Blank | |
| | | SAMI | PLE TYPE: | Water | |
| | | DATE S | SAMPLED: | 2022-05-26 | |
| Parameter | Unit | G/S | RDL | 3907415 | |
| Dichlorodifluoromethane | μg/L | 590 | 0.40 | <0.40 | |
| Vinyl Chloride | μg/L | 0.5 | 0.17 | <0.17 | |
| Bromomethane | μg/L | 0.89 | 0.20 | <0.20 | |
| Trichlorofluoromethane | μg/L | 150 | 0.40 | <0.40 | |
| Acetone | μg/L | 2700 | 1.0 | <1.0 | |
| 1,1-Dichloroethylene | μg/L | 0.5 | 0.30 | <0.30 | |
| Methylene Chloride | μg/L | 5 | 0.30 | <0.30 | |
| trans- 1,2-Dichloroethylene | μg/L | 1.6 | 0.20 | <0.20 | |
| Methyl tert-butyl ether | μg/L | 15 | 0.20 | <0.20 | |
| 1,1-Dichloroethane | μg/L | 0.5 | 0.30 | <0.30 | |
| Methyl Ethyl Ketone | μg/L | 400 | 1.0 | <1.0 | |
| cis- 1,2-Dichloroethylene | μg/L | 1.6 | 0.20 | <0.20 | |
| Chloroform | μg/L | 2 | 0.20 | <0.20 | |
| 1,2-Dichloroethane | μg/L | 0.5 | 0.20 | <0.20 | |
| 1,1,1-Trichloroethane | μg/L | 0.5 | 0.30 | < 0.30 | |
| Carbon Tetrachloride | μg/L | 0.2 | 0.20 | <0.20 | |
| Benzene | μg/L | 0.5 | 0.20 | <0.20 | |
| 1,2-Dichloropropane | μg/L | 0.5 | 0.20 | <0.20 | |
| Trichloroethylene | μg/L | 0.5 | 0.20 | <0.20 | |
| Bromodichloromethane | μg/L | 2 | 0.20 | <0.20 | |
| Methyl Isobutyl Ketone | μg/L | 640 | 1.0 | <1.0 | |
| 1,1,2-Trichloroethane | μg/L | 0.5 | 0.20 | <0.20 | |
| Toluene | μg/L | 0.8 | 0.20 | <0.20 | |
| Dibromochloromethane | μg/L | 2 | 0.10 | <0.10 | |
| Ethylene Dibromide | μg/L | 0.2 | 0.10 | <0.10 | |
| Tetrachloroethylene | μg/L | 0.5 | 0.20 | <0.20 | |
| 1,1,1,2-Tetrachloroethane | μg/L | 1.1 | 0.10 | <0.10 | |
| Chlorobenzene | μg/L | 0.5 | 0.10 | <0.10 | |
| Ethylbenzene | μg/L | 0.5 | 0.10 | <0.10 | |
| m & p-Xylene | μg/L | | 0.20 | <0.20 | |





SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H900360

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

| \cap | Rea | 153(511) | - VOCs | (Water) |
|--------|-------|----------|-------------|-----------------------|
| Ο. | iveu. | 1000011 | - v O O O O | (vval c i) |

| | | | | O. Neg. | 100(311) - VOC3 (Water) |
|---------------------------|------------|-----------|-----------|------------|---------------------------|
| DATE RECEIVED: 2022-05-26 | | | | | DATE REPORTED: 2022-06-10 |
| | Si | AMPLE DES | CRIPTION: | Trip Blank | |
| | | SAM | PLE TYPE: | Water | |
| | | DATE | SAMPLED: | 2022-05-26 | |
| Parameter | Unit | G/S | RDL | 3907415 | |
| Bromoform | μg/L | 5 | 0.10 | <0.10 | |
| Styrene | μg/L | 0.5 | 0.10 | <0.10 | |
| 1,1,2,2-Tetrachloroethane | μg/L | 0.5 | 0.10 | <0.10 | |
| o-Xylene | μg/L | | 0.10 | <0.10 | |
| 1,3-Dichlorobenzene | μg/L | 0.5 | 0.10 | <0.10 | |
| 1,4-Dichlorobenzene | μg/L | 0.5 | 0.10 | <0.10 | |
| 1,2-Dichlorobenzene | μg/L | 0.5 | 0.10 | <0.10 | |
| 1,3-Dichloropropene | μg/L | 0.5 | 0.30 | < 0.30 | |
| Xylenes (Total) | μg/L | 72 | 0.20 | <0.20 | |
| n-Hexane | μg/L | 5 | 0.20 | <0.20 | |
| Surrogate | Unit | Acceptab | le Limits | | |
| Toluene-d8 | % Recovery | 50- | 140 | 106 | |
| 4-Bromofluorobenzene | % Recovery | 50- | 140 | 80 | |
| | | | | | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses

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.

3907415 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 *)

Jinkal Jata



SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H900360

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

| | O. Reg. 153(511) - VOCs (with PHC) (Wate | r) |
|--|--|----|
|--|--|----|

| | | | O. IXCG. | 155(511) - VOCS (WITH FI | (vvator) |
|-----------------------------|------|----------------|----------------|--------------------------|---------------------------|
| DATE RECEIVED: 2022-05-26 | | | | | DATE REPORTED: 2022-06-10 |
| | 5 | SAMPLE DESCRIP | TION: BH1 | DUP2 | |
| | | SAMPLE 1 | YPE: Water | Water | |
| | | DATE SAME | PLED: 2022-05- | 26 2022-05-26 | |
| Parameter | Unit | G/S R | DL 390739 | 8 3907401 | |
| Dichlorodifluoromethane | μg/L | 590 0. | 40 <0.40 | <0.40 | |
| Vinyl Chloride | μg/L | 0.5 | 17 <0.17 | <0.17 | |
| Bromomethane | μg/L | 0.89 0. | 20 <0.20 | <0.20 | |
| Trichlorofluoromethane | μg/L | 150 0. | 40 <0.40 | <0.40 | |
| Acetone | μg/L | 2700 1 | .0 <1.0 | <1.0 | |
| 1,1-Dichloroethylene | μg/L | 0.5 | 30 <0.30 | <0.30 | |
| Methylene Chloride | μg/L | 5 0. | 30 <0.30 | <0.30 | |
| trans- 1,2-Dichloroethylene | μg/L | 1.6 0. | 20 <0.20 | <0.20 | |
| Methyl tert-butyl ether | μg/L | 15 0. | 20 <0.20 | <0.20 | |
| 1,1-Dichloroethane | μg/L | 0.5 | 30 <0.30 | <0.30 | |
| Methyl Ethyl Ketone | μg/L | 400 1 | .0 <1.0 | <1.0 | |
| cis- 1,2-Dichloroethylene | μg/L | 1.6 0. | 20 <0.20 | <0.20 | |
| Chloroform | μg/L | 2 0. | 20 <0.20 | <0.20 | |
| 1,2-Dichloroethane | μg/L | 0.5 | 20 <0.20 | <0.20 | |
| 1,1,1-Trichloroethane | μg/L | 0.5 | 30 <0.30 | <0.30 | |
| Carbon Tetrachloride | μg/L | 0.2 0. | 20 <0.20 | <0.20 | |
| Benzene | μg/L | 0.5 | 20 <0.20 | <0.20 | |
| 1,2-Dichloropropane | μg/L | 0.5 | 20 <0.20 | <0.20 | |
| Trichloroethylene | μg/L | 0.5 | 20 <0.20 | <0.20 | |
| Bromodichloromethane | μg/L | 2 0. | 20 <0.20 | <0.20 | |
| Methyl Isobutyl Ketone | μg/L | 640 1 | .0 <1.0 | <1.0 | |
| 1,1,2-Trichloroethane | μg/L | 0.5 | 20 <0.20 | <0.20 | |
| Toluene | μg/L | 0.8 0. | 20 <0.20 | <0.20 | |
| Dibromochloromethane | μg/L | 2 0. | 10 <0.10 | <0.10 | |
| Ethylene Dibromide | μg/L | 0.2 | 10 <0.10 | <0.10 | |
| Tetrachloroethylene | μg/L | 0.5 | 20 <0.20 | <0.20 | |
| 1,1,1,2-Tetrachloroethane | μg/L | 1.1 0. | 10 <0.10 | <0.10 | |
| Chlorobenzene | μg/L | 0.5 | 10 <0.10 | <0.10 | |
| Ethylbenzene | μg/L | 0.5 | 10 <0.10 | <0.10 | |
| m & p-Xylene | μg/L | 0. | 20 <0.20 | | |





SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H900360

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

| SA | AMPLE DES | CRIPTION: | | | DATE REPORTED: 2022-06-10 |
|------------|---|---|---|--|--|
| SA | AMPLE DES | CRIPTION: | | | |
| | | | BH1 | DUP2 | |
| | SAMI | PLE TYPE: | Water | Water | |
| | DATE S | SAMPLED: | 2022-05-26 | 2022-05-26 | |
| Unit | G/S | RDL | 3907398 | 3907401 | |
| μg/L | 5 | 0.10 | <0.10 | <0.10 | |
| μg/L | 0.5 | 0.10 | <0.10 | <0.10 | |
| μg/L | 0.5 | 0.10 | <0.10 | <0.10 | |
| μg/L | | 0.10 | <0.10 | <0.10 | |
| μg/L | 0.5 | 0.10 | <0.10 | <0.10 | |
| μg/L | 0.5 | 0.10 | <0.10 | <0.10 | |
| μg/L | 0.5 | 0.10 | <0.10 | <0.10 | |
| μg/L | 0.5 | 0.30 | < 0.30 | < 0.30 | |
| μg/L | 72 | 0.20 | <0.20 | <0.20 | |
| μg/L | 5 | 0.20 | <0.20 | <0.20 | |
| Unit | Acceptab | le Limits | | | |
| % Recovery | 50-1 | 40 | 94 | 95 | |
| % Recovery | 50-1 | 40 | 75 | 98 | |
| | µg/L µg/L µg/L µg/L µg/L µg/L µg/L µg/L | Unit G / S µg/L 5 µg/L 0.5 µg/L 0.5 µg/L µg/L 0.5 µg/L 0.5 µg/L 0.5 µg/L 0.5 µg/L 0.5 µg/L 5 µg/L 5 Unit Acceptab | μg/L 5 0.10 μg/L 0.5 0.10 μg/L 0.5 0.10 μg/L 0.5 0.10 μg/L 0.10 μg/L 0.5 0.30 μg/L 72 0.20 μg/L 5 0.20 Unit Acceptable Limits | Unit G / S RDL 3907398 μg/L 5 0.10 <0.10 | Unit G / S RDL 3907398 3907401 μg/L 5 0.10 <0.10 |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses 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.

3907398-3907401 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 *)



SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H900360

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

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

| DATE RECEIVED: 2022-05-26 | | | | | | | | DATE REPORTED: 2022-06-10 |
|---------------------------|----------|-------------|----------|------------|------------|------------|------------|---------------------------|
| | | SAMPLE DESC | RIPTION: | BH5 | ВН3 | BH1 | DUP1 | |
| | | SAMP | LE TYPE: | Water | Water | Water | Water | |
| | | DATE S | AMPLED: | 2022-05-26 | 2022-05-26 | 2022-05-26 | 2022-05-26 | |
| Parameter | Unit | G/S | RDL | 3907387 | 3907395 | 3907398 | 3907400 | |
| Dissolved Antimony | μg/L | 1.5 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| Dissolved Arsenic | μg/L | 13 | 1.0 | 2.4 | 3.2 | 4.8 | 3.0 | |
| Dissolved Barium | μg/L | 610 | 2.0 | 86.5 | 132 | 129 | 130 | |
| Dissolved Beryllium | μg/L | 0.5 | 0.50 | < 0.50 | <0.50 | <0.50 | <0.50 | |
| Dissolved Boron | μg/L | 1700 | 10.0 | 103 | 186 | 194 | 140 | |
| Dissolved Cadmium | μg/L | 0.5 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | |
| Dissolved Chromium | μg/L | 11 | 2.0 | <2.0 | 2.8 | <2.0 | 6.9 | |
| Dissolved Cobalt | μg/L | 3.8 | 0.50 | < 0.50 | 0.50 | <0.50 | <0.50 | |
| Dissolved Copper | μg/L | 5 | 1.0 | 21.9 | 33.4 | 11.7 | 3.7 | |
| Dissolved Lead | μg/L | 1.9 | 0.50 | < 0.50 | 0.68 | < 0.50 | <0.50 | |
| Dissolved Molybdenum | μg/L | 23 | 0.50 | 5.10 | 5.10 | 9.46 | 6.79 | |
| Dissolved Nickel | μg/L | 14 | 1.0 | 1.8 | 5.4 | 3.3 | 2.9 | |
| Dissolved Selenium | μg/L | 5 | 1.0 | <1.0 | <1.0 | <1.0 | 1.5 | |
| Dissolved Silver | μg/L | 0.3 | 0.20 | <0.20 | <0.20 | <0.20 | <0.20 | |
| Dissolved Thallium | μg/L | 0.5 | 0.30 | < 0.30 | < 0.30 | < 0.30 | < 0.30 | |
| Dissolved Uranium | μg/L | 8.9 | 0.50 | 1.14 | 1.22 | 1.63 | 1.71 | |
| Dissolved Vanadium | μg/L | 3.9 | 0.40 | 0.64 | 1.00 | < 0.40 | 1.16 | |
| Dissolved Zinc | μg/L | 160 | 5.0 | 9.4 | 11.8 | 9.8 | 7.1 | |
| Mercury | μg/L | 0.1 | 0.02 | < 0.02 | <0.02 | <0.02 | <0.02 | |
| Chromium VI | μg/L | 25 | 2.000 | <2.000 | <2.000 | <2.000 | 3.44 | |
| Cyanide, Free | μg/L | 5 | 2 | <2 | <2 | <2 | <2 | |
| Electrical Conductivity | uS/cm | NA | 2 | 566 | 602 | 720 | 567 | |
| pH | pH Units | | NA | 7.95 | 7.92 | 7.88 | 7.95 | |

Comments:

RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses 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.

3907387-3907400 Metals analysis completed on a filtered sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Tris Verastegui



Exceedance Summary

AGAT WORK ORDER: 22H900360

PROJECT: 7-22-0008-42

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

CLIENT NAME: TERRAPROBE INC ATTENTION TO: Amber Brooks

| SAMPLEID | SAMPLE TITLE | GUIDELINE | ANALYSIS PACKAGE | PARAMETER | UNIT | GUIDEVALUE | RESULT |
|----------|--------------|-----------|--|------------------|------|------------|--------|
| 3907387 | BH5 | ON T1 GW | O. Reg. 153(511) - Metals & Inorganics (Water) | Dissolved Copper | μg/L | 5 | 21.9 |
| 3907395 | внз | ON T1 GW | O. Reg. 153(511) - Metals & Inorganics (Water) | Dissolved Copper | μg/L | 5 | 33.4 |
| 3907398 | BH1 | ON T1 GW | O. Reg. 153(511) - Metals & Inorganics (Water) | Dissolved Copper | μg/L | 5 | 11.7 |

AGAT WORK ORDER: 22H900360

Quality Assurance

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42 ATTENTION TO: Amber Brooks

SAMPLING SITE: SAMPLED BY:KG

| | | | Trac | e Or | gani | cs Ar | nalys | İS | | | | | | | |
|--------------------------------|--------------------|--------------|---------------|---------------|----------|-----------------|--------------------|--------|--------------|-------------|-------|-----------------|--------------|---------|--------|
| RPT Date: Jun 10, 2022 | | | | UPLICAT | E | | REFEREN | NCE MA | TERIAL | METHOD | BLANK | SPIKE | MAT | RIX SPI | KE |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Method Blank | Measured Value | | ptable | Recovery | | eptable mits | Recovery | | ptable |
| | | lu lu | | | | | Value | Lower | Upper | | Lower | Upper | | Lower | Uppe |
| O. Reg. 153(511) - OC Pesticid | les (Water) | | | | | | | | | | | | | | |
| Gamma-Hexachlorocyclohexan | e 3907387 3 | 3907387 | < 0.01 | < 0.01 | NA | < 0.01 | 92% | 50% | 140% | 105% | 50% | 140% | 104% | 50% | 140% |
| Heptachlor | 3907387 | 3907387 | < 0.01 | < 0.01 | NA | < 0.01 | 80% | 50% | 140% | 107% | 50% | 140% | 111% | 50% | 1409 |
| Aldrin | 3907387 | 3907387 | < 0.01 | < 0.01 | NA | < 0.01 | 87% | 50% | 140% | 118% | 50% | 140% | 99% | 50% | 1409 |
| Heptachlor Epoxide | 3907387 | 3907387 | < 0.01 | < 0.01 | NA | < 0.01 | 88% | 50% | 140% | 117% | 50% | 140% | 104% | 50% | 1409 |
| Endosulfan I | 3907387 | 3907387 | < 0.05 | < 0.05 | NA | < 0.05 | 87% | 50% | 140% | 108% | 50% | 140% | 98% | 50% | 1409 |
| Endosulfan II | 3907387 3 | 3907387 | < 0.05 | < 0.05 | NA | < 0.05 | 90% | 50% | 140% | 112% | 50% | 140% | 101% | 50% | 140% |
| alpha - chlordane | 3907387 3 | | < 0.04 | < 0.04 | NA | < 0.04 | 85% | 50% | 140% | 105% | 50% | 140% | 99% | 50% | 140% |
| gamma-Chlordane | 3907387 3 | 3907387 | < 0.04 | < 0.04 | NA | < 0.04 | 86% | 50% | 140% | 107% | 50% | 140% | 98% | 50% | 140% |
| op'-DDE | 3907387 | 3907387 | < 0.01 | < 0.01 | NA | < 0.01 | 92% | 50% | 140% | 106% | 50% | 140% | 115% | 50% | 140% |
| pp'-DDE | 3907387 | 3907387 | < 0.01 | < 0.01 | NA | < 0.01 | 82% | 50% | 140% | 112% | 50% | 140% | 101% | 50% | 140% |
| op'-DDD | 3907387 3 | 2007207 | < 0.05 | < 0.05 | NA | < 0.05 | 92% | 50% | 140% | 118% | 50% | 140% | 84% | 50% | 140% |
| pp'-DDD | 3907387 3 | | < 0.05 | < 0.05 | NA | < 0.05 | 92 <i>%</i> 87% | 50% | 140% | 102% | 50% | 140% | 79% | 50% | 140% |
| op'-DDT | 3907387 3 | | < 0.03 | < 0.03 | NA | < 0.03 | 80% | 50% | 140% | 102% | 50% | 140% | 108% | 50% | 140% |
| pp'-DDT | 3907387 3 | | < 0.04 | < 0.04 | NA | < 0.04 | 75% | 50% | 140% | 105% | 50% | 140% | 112% | 50% | 140% |
| Dieldrin | 3907387 3 | | < 0.02 | < 0.03 | NA | < 0.02 | 84% | 50% | 140% | 107% | 50% | 140% | 98% | 50% | 140% |
| | | | | | | | | | | | | | | | |
| Endrin | 3907387 | | < 0.05 | < 0.05 | NA | < 0.05 | 80% | 50% | 140% | 112% | 50% | 140% | 99% | 50% | 140% |
| Methoxychlor | 3907387 | | < 0.04 | < 0.04 | NA | < 0.04 | 76% | 50% | 140% | 102% | 50% | 140% | 113% | 50% | 140% |
| Hexachlorobenzene | 3907387 3 | | < 0.01 | < 0.01 | NA | < 0.01 | 95% | 50% | 140% | 114% | 50% | 140% | 105% | 50% | 140% |
| Hexachlorobutadiene | 3907387 3 | | < 0.01 | < 0.01 | NA | < 0.01 | 82% | 50% | 140% | 105% | 50% | 140% | 101% | 50% | 140% |
| Hexachloroethane | 3907387 3 | 3907387 | < 0.01 | < 0.01 | NA | < 0.01 | 80% | 50% | 140% | 102% | 50% | 140% | 110% | 50% | 140% |
| O. Reg. 153(511) - VOCs (with | PHC) (Water) | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 3904560 | | <0.40 | < 0.40 | NA | < 0.40 | 111% | 50% | 140% | 118% | 50% | 140% | 75% | 50% | 140% |
| Vinyl Chloride | 3904560 | | <0.17 | <0.17 | NA | < 0.17 | 113% | 50% | 140% | 115% | 50% | 140% | 110% | 50% | 140% |
| Bromomethane | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 108% | 50% | 140% | 112% | 50% | 140% | 82% | 50% | 140% |
| Trichlorofluoromethane | 3904560 | | < 0.40 | < 0.40 | NA | < 0.40 | 96% | 50% | 140% | 101% | 50% | 140% | 102% | 50% | 140% |
| Acetone | 3904560 | | <1.0 | <1.0 | NA | < 1.0 | 96% | 50% | 140% | 112% | 50% | 140% | 91% | 50% | 140% |
| 1,1-Dichloroethylene | 3904560 | | <0.30 | <0.30 | NA | < 0.30 | 74% | 50% | 140% | 90% | 60% | 130% | 104% | 50% | 140% |
| Methylene Chloride | 3904560 | | < 0.30 | < 0.30 | NA | < 0.30 | 78% | 50% | 140% | 87% | 60% | 130% | 120% | 50% | 140% |
| trans- 1,2-Dichloroethylene | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 73% | 50% | 140% | 87% | 60% | 130% | 113% | 50% | 140% |
| Methyl tert-butyl ether | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 111% | 50% | 140% | 114% | 60% | 130% | 104% | 50% | 140% |
| 1,1-Dichloroethane | 3904560 | | 1.11 | 1.17 | NA | < 0.30 | 107% | 50% | 140% | 103% | 60% | 130% | 78% | 50% | 140% |
| Methyl Ethyl Ketone | 3004560 | | -1 O | -10 | NIA | -10 | 000/ | 50% | 1/00/ | 1110/ | 500/ | 1/00/ | 1020/ | 50% | 140% |
| cis- 1,2-Dichloroethylene | 3904560 | | <1.0 <0.20 | <1.0 <0.20 | NA NA | < 1.0 < 0.20 | 90% 97% | 50% | 140% 140% | 111% 97% | 60% | 140% 130% | 103% 100% | 50% | 140% |
| Chloroform | 3904560 3904560 | | <0.20 | <0.20 | NA NA | < 0.20 | 97% 89% | 50% | | 97% 103% | | 130% | 112% | | 140% |
| 1,2-Dichloroethane | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 69% 117% | 50% | | 103% | | 130% | 100% | | 1409 |
| 1,1,1-Trichloroethane | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 107% | | 140% | 100% | | 130% | 106% | | 140% |
| | 110.000 | | | .3.00 | | . 0.00 | . 3. 73 | -3,3 | | | -3,0 | | | -3,3 | , |
| Carbon Tetrachloride | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 110% | | 140% | 86% | | 130% | 92% | 50% | 140% |
| Benzene | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 101% | 50% | 140% | 106% | 60% | | 117% | 50% | 140% |
| 1,2-Dichloropropane | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 106% | 50% | 140% | 111% | 60% | 130% | 90% | 50% | 140% |

AGAT QUALITY ASSURANCE REPORT (V1)

Page 12 of 22

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.

AGAT WORK ORDER: 22H900360

Quality Assurance

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42 ATTENTION TO: Amber Brooks

SAMPLING SITE: SAMPLED BY:KG

| SAMPLING SITE. SAMPLED BY AG | | | | | | | | | | | | | | | |
|-----------------------------------|--------------|--------------|---------|----------|-----|-----------------|-------------------|--------|-----------------|----------|-------|-----------------|----------|---------|-----------------|
| | Tı | race | Org | anics | Ana | lysis | (Coı | ntin | ued |) | | | | | |
| RPT Date: Jun 10, 2022 | | | С | DUPLICAT | E | | REFERE | NCE MA | TERIAL | METHOD | BLAN | K SPIKE | МАТ | RIX SPI | IKE |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Method Blank | Measured Value | Lir_ | eptable mits | Recovery | Lir | eptable mits | Recovery | Lir | eptable mits |
| | | | | | | | | Lower | Upper | | Lower | Upper | | Lower | Upper |
| Trichloroethylene | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 97% | 50% | 140% | 91% | 60% | 130% | 90% | 50% | 140% |
| Bromodichloromethane | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 110% | 50% | 140% | 98% | 60% | 130% | 83% | 50% | 140% |
| Methyl Isobutyl Ketone | 3904560 | | <1.0 | <1.0 | NA | < 1.0 | 79% | 50% | 140% | 95% | 50% | 140% | 98% | 50% | 140% |
| 1,1,2-Trichloroethane | 3904560 | | <0.20 | < 0.20 | NA | < 0.20 | 109% | 50% | 140% | 115% | 60% | 130% | 114% | 50% | 140% |
| Toluene | 3904560 | | <0.20 | < 0.20 | NA | < 0.20 | 104% | 50% | 140% | 100% | 60% | 130% | 82% | 50% | 140% |
| Dibromochloromethane | 3904560 | | <0.10 | <0.10 | NA | < 0.10 | 94% | 50% | 140% | 119% | 60% | 130% | 106% | 50% | 140% |
| Ethylene Dibromide | 3904560 | | <0.10 | <0.10 | NA | < 0.10 | 105% | 50% | 140% | 108% | 60% | 130% | 107% | 50% | 140% |
| Tetrachloroethylene | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 106% | 50% | 140% | 98% | 60% | 130% | 84% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 3904560 | | <0.10 | < 0.10 | NA | < 0.10 | 97% | 50% | 140% | 100% | 60% | 130% | 82% | 50% | 140% |
| Chlorobenzene | 3904560 | | <0.10 | <0.10 | NA | < 0.10 | 109% | 50% | 140% | 102% | 60% | 130% | 81% | 50% | 140% |
| Ethylbenzene | 3904560 | | <0.10 | <0.10 | NA | < 0.10 | 90% | 50% | 140% | 88% | 60% | 130% | 85% | 50% | 140% |
| m & p-Xylene | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 115% | 50% | 140% | 97% | 60% | 130% | 77% | 50% | 140% |
| Bromoform | 3904560 | | <0.10 | <0.10 | NA | < 0.10 | 112% | 50% | 140% | 113% | 60% | 130% | 113% | 50% | 140% |
| Styrene | 3904560 | | <0.10 | <0.10 | NA | < 0.10 | 97% | 50% | 140% | 101% | 60% | 130% | 82% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 3904560 | | <0.10 | <0.10 | NA | < 0.10 | 92% | 50% | 140% | 106% | 60% | 130% | 84% | 50% | 140% |
| o-Xylene | 3904560 | | <0.10 | <0.10 | NA | < 0.10 | 96% | 50% | 140% | 102% | 60% | 130% | 81% | 50% | 140% |
| 1,3-Dichlorobenzene | 3904560 | | <0.10 | <0.10 | NA | < 0.10 | 116% | 50% | 140% | 116% | 60% | 130% | 100% | 50% | |
| 1,4-Dichlorobenzene | 3904560 | | <0.10 | <0.10 | NA | < 0.10 | 101% | 50% | 140% | 118% | 60% | 130% | 102% | 50% | 140% |
| 1,2-Dichlorobenzene | 3904560 | | <0.10 | <0.10 | NA | < 0.10 | 105% | 50% | 140% | 111% | 60% | 130% | 98% | 50% | 140% |
| n-Hexane | 3904560 | | <0.20 | <0.20 | NA | < 0.20 | 95% | | 140% | 108% | | 130% | 104% | 50% | |
| O Dog 452/544) DHCo 54 54 (| with DAUs on | 4 //OC/ | (Motor) | | | | | | | | | | | | |
| O. Reg. 153(511) - PHCs F1 - F4 (| | a voc) | , | -0.5 | NIA | . 0.5 | 4000/ | 000/ | 4.400/ | 4000/ | 000/ | 4.400/ | 000/ | 000/ | 1.400/ |
| F1 (C6-C10) | 3904560 | | <25 | <25 | NA | < 25 | 139% | 60% | 140% | 109% | 60% | 140% | 92% | 60% | |
| F2 (C10 to C16) | 3902550 | | < 100 | < 100 | NA | < 100 | 100% | 60% | 140% | 68% | 60% | 140% | 63% | 60% | 140% |
| F3 (C16 to C34) | 3902550 | | < 100 | < 100 | NA | < 100 | 88% | 60% | 140% | 72% | 60% | 140% | 61% | 60% | 140% |
| F4 (C34 to C50) | 3902550 | | < 100 | < 100 | NA | < 100 | 92% | 60% | 140% | 64% | 60% | 140% | 63% | 60% | 140% |
| O. Reg. 153(511) - PAHs (Water) | | | | | | | | | | | | | | | |
| Naphthalene | 3907401 39 | 07401 | <0.20 | <0.20 | NA | < 0.20 | 118% | 50% | 140% | 94% | 50% | 140% | 76% | 50% | 140% |
| Acenaphthylene | 3907401 39 | 07401 | <0.20 | <0.20 | NA | < 0.20 | 98% | 50% | 140% | 84% | 50% | 140% | 67% | 50% | 140% |
| Acenaphthene | 3907401 39 | 07401 | <0.20 | <0.20 | NA | < 0.20 | 112% | 50% | 140% | 76% | 50% | 140% | 87% | 50% | 140% |
| Fluorene | 3907401 39 | 07401 | <0.20 | <0.20 | NA | < 0.20 | 99% | 50% | 140% | 72% | 50% | 140% | 81% | 50% | 140% |
| Phenanthrene | 3907401 39 | 07401 | <0.10 | <0.10 | NA | < 0.10 | 97% | 50% | 140% | 73% | 50% | 140% | 82% | 50% | 140% |
| Anthracene | 3907401 39 | 07401 | <0.10 | <0.10 | NA | < 0.10 | 88% | 50% | 140% | 75% | 50% | 140% | 84% | 50% | 140% |
| Fluoranthene | 3907401 39 | 07401 | <0.20 | <0.20 | NA | < 0.20 | 89% | 50% | 140% | 73% | 50% | 140% | 82% | 50% | 140% |
| Pyrene | 3907401 39 | 07401 | <0.20 | <0.20 | NA | < 0.20 | 92% | 50% | 140% | 71% | 50% | 140% | 81% | 50% | 140% |
| Benzo(a)anthracene | 3907401 39 | 07401 | <0.20 | <0.20 | NA | < 0.20 | 67% | 50% | 140% | 86% | 50% | 140% | 72% | 50% | 140% |
| Chrysene | 3907401 39 | 07401 | <0.10 | <0.10 | NA | < 0.10 | 77% | 50% | 140% | 73% | 50% | 140% | 81% | 50% | 140% |
| Benzo(b)fluoranthene | 3907401 39 | 07401 | <0.10 | <0.10 | NA | < 0.10 | 71% | 50% | 140% | 73% | 50% | 140% | 82% | 50% | 140% |
| Benzo(k)fluoranthene | 3907401 39 | | <0.10 | <0.10 | NA | < 0.10 | 107% | | 140% | 99% | 50% | | 89% | 50% | |
| Benzo(a)pyrene | 3907401 39 | | <0.01 | <0.01 | NA | < 0.01 | 73% | | 140% | 73% | | 140% | 84% | | 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.

AGAT WORK ORDER: 22H900360

Quality Assurance

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42 ATTENTION TO: Amber Brooks

SAMPLING SITE: SAMPLED BY:KG

| | - | Ггасе | Orga | anics | Ana | lysis | (Cor | ntinu | ued |) | | | | | |
|---------------------------------|---------|---------|--------|---------|-----|-----------------|----------|--------------|--------|----------|-------|----------------|----------|---------|----------------|
| RPT Date: Jun 10, 2022 | | | | UPLICAT | E | | REFEREN | NCE MAT | ΓERIAL | METHOD | BLANK | SPIKE | MAT | RIX SPI | KE |
| PARAMETER | Batch | Sample | Dup #1 | Dup #2 | RPD | Method Blank | Measured | Accep Lim | | Recovery | | ptable nits | Recovery | | ptable nits |
| | | lu lu | · | · | | | Value | Lower | Upper | • | Lower | Upper | | Lower | Upper |
| Indeno(1,2,3-cd)pyrene | 3907401 | 3907401 | <0.20 | <0.20 | NA | < 0.20 | 76% | 50% | 140% | 79% | 50% | 140% | 81% | 50% | 140% |
| Dibenz(a,h)anthracene | 3907401 | 3907401 | <0.20 | <0.20 | NA | < 0.20 | 63% | 50% | 140% | 69% | 50% | 140% | 67% | 50% | 140% |
| Benzo(g,h,i)perylene | 3907401 | 3907401 | <0.20 | <0.20 | NA | < 0.20 | 79% | 50% | 140% | 86% | 50% | 140% | 90% | 50% | 140% |
| O. Reg. 153(511) - VOCs (Water) | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 3897722 | | <0.40 | < 0.40 | NA | < 0.40 | 99% | 50% | 140% | 82% | 50% | 140% | 71% | 50% | 140% |
| Vinyl Chloride | 3897722 | | <0.17 | <0.17 | NA | < 0.17 | 107% | 50% | 140% | 72% | 50% | 140% | 81% | 50% | 140% |
| Bromomethane | 3897722 | | <0.20 | < 0.20 | NA | < 0.20 | 96% | 50% | 140% | 81% | 50% | 140% | 101% | 50% | 140% |
| Trichlorofluoromethane | 3897722 | | < 0.40 | < 0.40 | NA | < 0.40 | 80% | 50% | 140% | 89% | 50% | 140% | 92% | 50% | 140% |
| Acetone | 3897722 | | <1.0 | <1.0 | NA | < 1.0 | 88% | 50% | 140% | 104% | 50% | 140% | 86% | 50% | 140% |
| 1,1-Dichloroethylene | 3897722 | | <0.30 | <0.30 | NA | < 0.30 | 76% | 50% | 140% | 103% | 60% | 130% | 100% | 50% | 140% |
| Methylene Chloride | 3897722 | | < 0.30 | < 0.30 | NA | < 0.30 | 87% | 50% | 140% | 90% | 60% | 130% | 94% | 50% | 140% |
| trans- 1,2-Dichloroethylene | 3897722 | | <0.20 | < 0.20 | NA | < 0.20 | 80% | 50% | 140% | 81% | 60% | 130% | 80% | 50% | 140% |
| Methyl tert-butyl ether | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 114% | 50% | 140% | 87% | 60% | 130% | 85% | 50% | 140% |
| 1,1-Dichloroethane | 3897722 | | <0.30 | <0.30 | NA | < 0.30 | 110% | 50% | 140% | 104% | 60% | 130% | 107% | 50% | 140% |
| Methyl Ethyl Ketone | 3897722 | | <1.0 | <1.0 | NA | < 1.0 | 83% | 50% | 140% | 111% | 50% | 140% | 89% | 50% | 140% |
| cis- 1,2-Dichloroethylene | 3897722 | | <0.20 | < 0.20 | NA | < 0.20 | 93% | 50% | 140% | 83% | 60% | 130% | 84% | 50% | 140% |
| Chloroform | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 116% | 50% | 140% | 95% | 60% | 130% | 95% | 50% | 140% |
| 1,2-Dichloroethane | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 91% | 50% | 140% | 74% | 60% | 130% | 84% | 50% | 140% |
| 1,1,1-Trichloroethane | 3897722 | | <0.30 | <0.30 | NA | < 0.30 | 97% | 50% | 140% | 74% | 60% | 130% | 80% | 50% | 140% |
| Carbon Tetrachloride | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 80% | 50% | 140% | 80% | 60% | 130% | 90% | 50% | 140% |
| Benzene | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 116% | 50% | 140% | 83% | 60% | 130% | 87% | 50% | 140% |
| 1,2-Dichloropropane | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 108% | 50% | 140% | 87% | 60% | 130% | 91% | 50% | 140% |
| Trichloroethylene | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 107% | | 140% | 78% | 60% | 130% | 84% | 50% | 140% |
| Bromodichloromethane | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 102% | | 140% | 82% | 60% | 130% | 81% | 50% | 140% |
| Methyl Isobutyl Ketone | 3897722 | | <1.0 | <1.0 | NA | < 1.0 | 89% | 50% | 140% | 94% | 50% | 140% | 94% | 50% | 140% |
| 1,1,2-Trichloroethane | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 99% | 50% | 140% | 95% | 60% | 130% | 101% | 50% | 140% |
| Toluene | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 93% | 50% | 140% | 82% | 60% | 130% | 88% | 50% | 140% |
| Dibromochloromethane | 3897722 | | <0.10 | <0.10 | NA | < 0.10 | 86% | | 140% | 78% | 60% | 130% | 97% | 50% | 140% |
| Ethylene Dibromide | 3897722 | | <0.10 | <0.10 | NA | < 0.10 | 88% | | 140% | 83% | 60% | 130% | 95% | 50% | 140% |
| Tetrachloroethylene | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 85% | 50% | 140% | 72% | 60% | 130% | 80% | 50% | 140% |
| 1,1,1,2-Tetrachloroethane | 3897722 | | <0.10 | <0.10 | NA | < 0.10 | 90% | 50% | 140% | 78% | 60% | 130% | 106% | 50% | 140% |
| Chlorobenzene | 3897722 | | <0.10 | <0.10 | NA | < 0.10 | 92% | | 140% | 78% | | 130% | 84% | 50% | 140% |
| Ethylbenzene | 3897722 | | <0.10 | <0.10 | NA | < 0.10 | 82% | | 140% | 73% | | 130% | 72% | 50% | 140% |
| m & p-Xylene | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 88% | 50% | | 75% | | 130% | 81% | | 140% |
| Bromoform | 3897722 | | <0.10 | <0.10 | NA | < 0.10 | 94% | 50% | 140% | 90% | 60% | 130% | 103% | 50% | 140% |
| Styrene | 3897722 | | <0.10 | <0.10 | NA | < 0.10 | 87% | 50% | 140% | 88% | | 130% | 78% | 50% | 140% |
| 1,1,2,2-Tetrachloroethane | 3897722 | | <0.10 | <0.10 | NA | < 0.10 | 96% | 50% | | 99% | | 130% | 97% | | 140% |
| o-Xylene | 3897722 | | <0.10 | <0.10 | NA | < 0.10 | 87% | 50% | | 76% | | 130% | 81% | | 140% |

AGAT QUALITY ASSURANCE REPORT (V1)

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AGAT WORK ORDER: 22H900360

Quality Assurance

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42 ATTENTION TO: Amber Brooks

SAMPLING SITE: SAMPLED BY:KG

| 5. IIII 2.1.0 5.1.2. | | | | | | | | | | | | | | | |
|---|-------------------------------------|--------------|--------|--------|-----|-----------------|----------|-------|----------------|----------|-------|----------------|----------|-------|-----------------|
| | Trace Organics Analysis (Continued) | | | | | | | | | | | | | | |
| RPT Date: Jun 10, 2022 DUPLICATE REFERENCE MATERIAL METHOD BLANK SPIKE MATRIX SPIKE | | | | | | | | | | | | KE | | | |
| PARAMETER | Batch | Sample Id | Dup #1 | Dup #2 | RPD | Method Blank | Measured | | ptable nits | Recovery | Lie | ptable nits | Recovery | Lie | eptable mits |
| | | la la | · | · | | | Value | Lower | Upper | | Lower | Upper | ĺ | Lower | Upper |
| 1,3-Dichlorobenzene | 3897722 | | <0.10 | <0.10 | NA | < 0.10 | 87% | 50% | 140% | 80% | 60% | 130% | 85% | 50% | 140% |
| 1,4-Dichlorobenzene | 3897722 | | <0.10 | <0.10 | NA | < 0.10 | 87% | 50% | 140% | 80% | 60% | 130% | 83% | 50% | 140% |
| 1,2-Dichlorobenzene | 3897722 | | <0.10 | <0.10 | NA | < 0.10 | 84% | 50% | 140% | 73% | 60% | 130% | 77% | 50% | 140% |
| n-Hexane | 3897722 | | <0.20 | <0.20 | NA | < 0.20 | 110% | 50% | 140% | 94% | 60% | 130% | 101% | 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).





Quality Assurance

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 22H900360 PROJECT: 7-22-0008-42 ATTENTION TO: Amber Brooks

SAMPLING SITE: SAMPLED BY:KG

| | Water Analysis | | | | | | | | | | | | | |
|-----------------------------------|-----------------|--------|----------|----------|-----------------|----------|--------|--------|----------|-------|----------------|----------|---------|----------------|
| RPT Date: Jun 10, 2022 | | | UPLICATI | <u> </u> | | REFEREN | NCE MA | TERIAL | METHOD | BLANK | SPIKE | MAT | RIX SPI | KE |
| PARAMETER | Batch Sample | Dup #1 | Dup #2 | RPD | Method Blank | Measured | | ptable | Recovery | Lin | ptable nits | Recovery | Lin | ptable nits |
| | ld | , | , | | | Value | Lower | Upper | , | Lower | Upper | , | Lower | Upper |
| O. Reg. 153(511) - Metals & Inorg | anics (Water) | | | | | | | | | | | | | |
| Dissolved Antimony | 3904073 | <1.0 | <1.0 | NA | < 1.0 | 98% | 70% | 130% | 103% | 80% | 120% | 106% | 70% | 130% |
| Dissolved Arsenic | 3904073 | <1.0 | <1.0 | NA | < 1.0 | 110% | 70% | 130% | 103% | 80% | 120% | 105% | 70% | 130% |
| Dissolved Barium | 3904073 | 86.8 | 86.2 | 0.7% | < 2.0 | 96% | 70% | 130% | 100% | 80% | 120% | 103% | 70% | 130% |
| Dissolved Beryllium | 3904073 | < 0.50 | < 0.50 | NA | < 0.50 | 107% | 70% | 130% | 117% | 80% | 120% | 110% | 70% | 130% |
| Dissolved Boron | 3904073 | 65.9 | 68.4 | 3.7% | < 10.0 | 110% | 70% | 130% | 118% | 80% | 120% | 107% | 70% | 130% |
| Dissolved Cadmium | 3904073 | <0.20 | <0.20 | NA | < 0.20 | 98% | 70% | 130% | 104% | 80% | 120% | 103% | 70% | 130% |
| Dissolved Chromium | 3904073 | <2.0 | <2.0 | NA | < 2.0 | 101% | 70% | 130% | 103% | 80% | 120% | 98% | 70% | 130% |
| Dissolved Cobalt | 3904073 | < 0.50 | < 0.50 | NA | < 0.50 | 100% | 70% | 130% | 102% | 80% | 120% | 96% | 70% | 130% |
| Dissolved Copper | 3904073 | 1.4 | 2.1 | NA | < 1.0 | 98% | 70% | 130% | 100% | 80% | 120% | 92% | 70% | 130% |
| Dissolved Lead | 3904073 | <0.50 | <0.50 | NA | < 0.50 | 95% | 70% | 130% | 96% | 80% | 120% | 94% | 70% | 130% |
| Dissolved Molybdenum | 3904073 | 1.42 | 1.37 | NA | < 0.50 | 104% | 70% | 130% | 107% | 80% | 120% | 101% | 70% | 130% |
| Dissolved Nickel | 3904073 | <1.0 | <1.0 | NA | < 1.0 | 100% | 70% | 130% | 99% | 80% | 120% | 95% | 70% | 130% |
| Dissolved Selenium | 3904073 | <1.0 | <1.0 | NA | < 1.0 | 104% | 70% | 130% | 110% | 80% | 120% | 108% | 70% | 130% |
| Dissolved Silver | 3904073 | < 0.20 | <0.20 | NA | < 0.20 | 97% | 70% | 130% | 104% | 80% | 120% | 101% | 70% | 130% |
| Dissolved Thallium | 3904073 | <0.30 | <0.30 | NA | < 0.30 | 99% | 70% | 130% | 102% | 80% | 120% | 102% | 70% | 130% |
| Dissolved Uranium | 3904073 | 8.45 | 8.45 | 0.0% | < 0.50 | 91% | 70% | 130% | 104% | 80% | 120% | 107% | 70% | 130% |
| Dissolved Vanadium | 3904073 | 0.77 | 1.00 | NA | < 0.40 | 101% | 70% | 130% | 107% | 80% | 120% | 101% | 70% | 130% |
| Dissolved Zinc | 3904073 | 11.5 | <5.0 | NA | < 5.0 | 101% | 70% | 130% | 104% | 80% | 120% | 98% | 70% | 130% |
| Mercury | 3907387 3907387 | < 0.02 | < 0.02 | NA | < 0.02 | 100% | 70% | 130% | 100% | 80% | 120% | 92% | 70% | 130% |
| Chromium VI | 3892966 | <2.000 | <2.000 | NA | < 2 | 103% | 70% | 130% | 107% | 80% | 120% | 112% | 70% | 130% |
| Cyanide, Free | 3892445 | <2 | <2 | NA | < 2 | 98% | 70% | 130% | 109% | 80% | 120% | 103% | 70% | 130% |
| Electrical Conductivity | 3905392 | 1700 | 1700 | 0.0% | < 2 | 101% | 90% | 110% | | | | | | |
| рН | 3905392 | 7.61 | 7.60 | 0.1% | NA | 102% | 90% | 110% | | | | | | |

Comments: NA signifies Not Applicable.

If the RPD value is NA, the results of the duplicates are under 5X the RDL and will not be calculated.

Certified By:

Inis Verastegui

Method Summary

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42

SAMPLING SITE:

AGAT WORK ORDER: 22H900360 ATTENTION TO: Amber Brooks

SAMPLED BY:KG

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-----------------------------|-------------|--|----------------------|
| Trace Organics Analysis | | | |
| Gamma-Hexachlorocyclohexane | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| Heptachlor | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| Aldrin | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| Heptachlor Epoxide | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| Endosulfan I | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| Endosulfan II | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| Endosulfan | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | CALCULATION |
| alpha - chlordane | ORG-91-5112 | modified from EPA SW846 3510C & 8081B | GC/ECD |
| gamma-Chlordane | ORG-91-5112 | modified from EPA SW846 3510C & 8081B | GC/ECD |
| Chlordane | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | CALCULATION |
| op'-DDE | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| pp'-DDE | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| DDE | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | CALCULATION |
| op'-DDD | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| pp'-DDD | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| DDD | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | CALCULATION |
| op'-DDT | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| pp'-DDT | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| DDT | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | CALCULATION |
| Dieldrin | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| Endrin | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| Methoxychlor | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| Hexachlorobenzene | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| Hexachlorobutadiene | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| Hexachloroethane | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| тсмх | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |
| Decachlorobiphenyl | ORG-91-5112 | modified from EPA SW-846 3510C & 8081B | GC/ECD |

Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 22H900360 PROJECT: 7-22-0008-42 ATTENTION TO: Amber Brooks

| SAMPLING SITE: | _ | SAMPLED BY:KG | |
|-----------------------------------|--------------|--|----------------------|
| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
| Naphthalene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Acenaphthylene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Acenaphthene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Fluorene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Phenanthrene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Anthracene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Fluoranthene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Pyrene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Benzo(a)anthracene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Chrysene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Benzo(b)fluoranthene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Benzo(k)fluoranthene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Benzo(a)pyrene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Indeno(1,2,3-cd)pyrene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Dibenz(a,h)anthracene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Benzo(g,h,i)perylene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| 2-and 1-methyl Naphthalene | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Naphthalene-d8 | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Acridine-d9 | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Terphenyl-d14 | ORG-91-5105 | modified from EPA 3510C and EPA 8270E | GC/MS |
| Sediment | | | |
| F1 (C6-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 |
| F2 (C10 to C16) minus Naphthalene | VOL-91-5010 | modified from MOE PHC-E3421 | GC/FID |
| F3 (C16 to C34) | VOL-91-5010 | modified from MOE PHC-E3421 | GC/FID |
| F3 (C16 to C34) minus PAHs | 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 |
| Dichlorodifluoromethane | VOL-91-5001 | modified from EPA 5030B & EPA 8260D | (P&T)GC/MS |
| | | 02000 | |

Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 22H900360 PROJECT: 7-22-0008-42 ATTENTION TO: Amber Brooks

| SAMPLING SITE. | | SAMPLED BY.NG | |
|-----------------------------|-------------|-------------------------------------|----------------------|
| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
| 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 |
| 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 |

Method Summary

CLIENT NAME: TERRAPROBE INC

AGAT WORK ORDER: 22H900360 PROJECT: 7-22-0008-42 ATTENTION TO: Amber Brooks

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|---------------------------|-------------|--|----------------------|
| 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: TERRAPROBE INC

AGAT WORK ORDER: 22H900360 PROJECT: 7-22-0008-42 ATTENTION TO: Amber Brooks

| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
|-------------------------|--------------|--|-------------------------|
| Water Analysis | I | | |
| 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 |
| Mercury | MET-93-6100 | modified from EPA 245.2 and SM 3112 B | CVAAS |
| Chromium VI | INOR-93-6073 | modified from SM 3500-CR B | LACHAT FIA |
| Cyanide, Free | INOR-93-6052 | modified from ON MOECC E3015, SM 4500-CN- I, G-387 | TECHNICON AUTO ANALYZER |
| Electrical Conductivity | INOR-93-6000 | SM 2510 B | PC TITRATE |
| pH | INOR-93-6000 | modified from SM 4500-H+ B | PC TITRATE |



5835 Coopers Avenue Mississauga, Ontario L4Z 1Y2 Ph: 905.712.5100 Fax: 905.712.5122 webearth.agatlabs.com

Laboratory Use Only Work Order #:

| Chain of Custody Recor | d If this is a | Drinking Water | sample, plea | ase use Drin | iking Water Chain | of Custody Form (po | otable water | consume | d by humai | ns) | _ | | oler Qua ival Tem | | res: | 9.5 | 100 | 19 | Ne / |
|--|--|--------------------------|--------------------|------------------|--|-------------------------|------------------------------------|--------------|--------------------------|----------|-------------|---------------------------------|----------------------|---|---------------|------------|----------|--|----------|
| Report Information: Company: | | | | | gulatory Req | uirements: | | | | | | | stody Se tes: | al Intad | ct: | Tes Tre | 6 | 1 2 4 | 9 □n/ |
| Address: 903 Bart | Contact: Amber brooks Address: 903 Borth St. Unit 20 | | | — Та | egulation 153/04 able | Table | | ∐ Sew | |] Storm | | | narou gular T | | | TAT) Re | | | |
| Phone: 905 643 7 | 560 _{Fax:} | probe. | 0 | 2 | Tres/Park Agriculture Texture (Check One) | Regulation 5 | | Obje | Water Q ctives (P\ | | | | h TAT | | rcharges A | _ | | | uaina |
| 1. Email: Kgreenm | | 1 | | _ \ <u>}</u> | Coarse Fine | CCME | | Othe | r Indicate One | | | | ☐ Days | 5 | L | Days | | Next Bu Day May Apply): | Isine |
| Project Information: Project: Site Location: Sampled By: | 08-42 | | E | Re | s this submiss cord of Site C | | Ce | | Guidelli te of Ar | | | F | *TAT | is exclu | usive of | | and stat | r rush TAT tutory holida our AGAT CI | |
| AGAT Quote #: Please note: If avoitation number of the second of the se | PO:is not provided, client will | be billed full price for | analysis | San | mple Matrix Le | egend | VI, DOC | 0.1 | Reg 153 | 2 | | 0. Reg 558 | | | - 2 | ā i | | 24 | |
| Invoice Information: Company: Contact: Address: Email: | В | ill To Same: Ye | es No C | 111 | Ground Water Oil Paint Soil Sediment Surface Water | | Field Fittered - Metals, Hg, CrVI, | & Inorganics | VI, □ Hg, □ HWSB PHCs | | | Disposal Characterization TCLP. | Soils SP I Metals | ess Soils Characterization Package ICPMS Metals, BTEX, F1-F4 | Salt - EC/SAR | | | | |
| Sample Identification | Date Sampled | Time Sampled | # of Containers | Sample Matrix | | nments/ Instructions | Y/N | Metals | Metals BTEX | PAHS | PCBs VOC | Landfill Disp TCLP: JM&u | Excess SPLP. | Excess pH, ICPI | Salt - E | 3 | | 9 | |
| BHI 16 BHS | 101/26/22 | AN PN AN PN | | 0/1 | | | 4 | X | × | | × | | | | > | | | | |
| BHI | U | AM PM | 16 | ii Ell Fa | WINTER C | | Y | X X X | X | X | X | | | V- | | 1 | | | |
| DUPI | i. | AN PN | 8 | | | I North | 4 | X | 100 | 1 | | | | 2.5 | | (| | Out 1 | |
| 0003 | | AN PN | | V | | | | AF | X | X | X | | | | | | | gain ga | 5, |
| Trip Blank | n | AN PN AN PN | | - | | | . 290 | 0.9 | 1,01 | | | 16. | | 76 07 | | 24 | | 505 11 51 | - 4 |
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| | | AN PN | | | | | | | | | | 1 | | 0.5 | | | | | 8 |
| | | AN PN | | | | | | | 2/45 | | | | | 15: | | | | | 1311 |
| | | AN PN | | | | | 1 | W | 1 | | | | | | | | | | |
| Samples Bellinghed By Print Name and Sign | | May 26 | Time | 45pm | Sample Coved | Print Name and Sign): | E F | Town | kin | <i>ا</i> | 3.21 5/2 | 7/2 | 1 Time 16 | 30 | 2 | M Page | , | of | |



CLIENT NAME: TERRAPROBE INC 903 Barton Street

Stoney Creek, ON L8E5P5

(905) 643-7560

ATTENTION TO: Amber Brooks

PROJECT: 7-22-0008-42 AGAT WORK ORDER: 22H918598

WATER ANALYSIS REVIEWED BY: Yris Verastegui, Report Reviewer

DATE REPORTED: Jul 15, 2022

PAGES (INCLUDING COVER): 5 VERSION*: 1

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

| Notes | |
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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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- The test results reported herewith relate only to the samples as received by the laboratory.
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 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.

AGAT Laboratories (V1)

Page 1 of 5

Member of: Association of Professional Engineers and Geoscientists of Alberta (APEGA)

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SAMPLING SITE:

Certificate of Analysis

AGAT WORK ORDER: 22H918598

PROJECT: 7-22-0008-42

ATTENTION TO: Amber Brooks

SAMPLED BY:KG

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

| O. Reg. 153(511) | Laletale | (Including H | vdridee) | (Mater) |
|------------------|----------------|----------------|----------|----------|
| O. Reg. 133(311 |) - IVIELAIS I | (IIICIUUIIIQ 🗆 | yunues) | (vvalei) |

| | | | | , | (| | () |
|---------------------------|------|-------------|-----------|------------|------------|------------|---------------------------|
| DATE RECEIVED: 2022-07-11 | | | | | | | DATE REPORTED: 2022-07-15 |
| | | SAMPLE DESC | CRIPTION: | BH1 | ВН3 | BH5 | |
| | | SAME | PLE TYPE: | Water | Water | Water | |
| | | DATE S | SAMPLED: | 2022-07-08 | 2022-07-08 | 2022-07-08 | |
| Parameter | Unit | G/S | RDL | 4075648 | 4075655 | 4075656 | |
| Dissolved Barium | μg/L | 610 | 2.0 | 104 | 128 | 157 | |
| Dissolved Beryllium | μg/L | 0.5 | 0.50 | < 0.50 | < 0.50 | < 0.50 | |
| Dissolved Boron | μg/L | 1700 | 10.0 | 158 | 160 | 127 | |
| Dissolved Cadmium | μg/L | 0.5 | 0.20 | 0.25 | <0.20 | <0.20 | |
| Dissolved Chromium | μg/L | 11 | 2.0 | <2.0 | <2.0 | <2.0 | |
| Dissolved Cobalt | μg/L | 3.8 | 0.50 | < 0.50 | <0.50 | < 0.50 | |
| Dissolved Copper | μg/L | 5 | 1.0 | <1.0 | <1.0 | <1.0 | |
| Dissolved Lead | μg/L | 1.9 | 0.50 | < 0.50 | < 0.50 | < 0.50 | |
| Dissolved Molybdenum | μg/L | 23 | 0.50 | 9.02 | 4.93 | 6.44 | |
| Dissolved Nickel | μg/L | 14 | 1.0 | <1.0 | <1.0 | 1.1 | |
| Dissolved Silver | μg/L | 0.3 | 0.20 | <0.20 | <0.20 | <0.20 | |
| Dissolved Thallium | μg/L | 0.5 | 0.30 | < 0.30 | < 0.30 | < 0.30 | |
| Dissolved Uranium | μg/L | 8.9 | 0.50 | 1.62 | 1.73 | 3.27 | |
| Dissolved Vanadium | μg/L | 3.9 | 0.40 | <0.40 | 0.55 | 0.52 | |
| Dissolved Zinc | μg/L | 160 | 5.0 | <5.0 | <5.0 | <5.0 | |
| | | | | | | | |

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard: Refers to Table 1: Full Depth Background Site Condition Standards - Ground Water - All Types of Property Uses 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.

4075648-4075656 Metals analysis completed on a filtered sample.

Analysis performed at AGAT Toronto (unless marked by *)

Certified By:

Tris Verástegui



AGAT WORK ORDER: 22H918598

Quality Assurance

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42 ATTENTION TO: Amber Brooks

SAMPLING SITE: SAMPLED BY:KG

| Water Analysis | | | | | | | | | | | | | | | | |
|------------------------------------|------------|------------|--------|---------|-------|-----------------|----------|--------------------|----------------|----------|--------------------|----------------|----------|--------------|----------------|--|
| RPT Date: Jul 15, 2022 | | | С | UPLICAT | E | | REFEREN | REFERENCE MATERIAL | | | METHOD BLANK SPIKE | | | MATRIX SPIKE | | |
| PARAMETER | Batch | Sample | Dup #1 | Dup #2 | RPD | Method Blank | Measured | | ptable nits | Recovery | منا ا | ptable nits | Recovery | | ptable nits | |
| | | la la | · | , | | | Value | Lower | Upper | , | Lower | Upper | , | Lower | Upper | |
| O. Reg. 153(511) - Metals (Includi | ng Hydride | s) (Water) |) | | | | | | | | | | | | | |
| Dissolved Barium | 4074989 | | 232 | 199 | 15.3% | < 2.0 | 95% | 70% | 130% | 104% | 80% | 120% | 109% | 70% | 130% | |
| Dissolved Beryllium | 4074989 | | < 0.50 | < 0.50 | NA | < 0.50 | 90% | 70% | 130% | 94% | 80% | 120% | 96% | 70% | 130% | |
| Dissolved Boron | 4074989 | | 306 | 280 | 8.9% | < 10.0 | 98% | 70% | 130% | 95% | 80% | 120% | 106% | 70% | 130% | |
| Dissolved Cadmium | 4074989 | | <0.20 | 0.26 | NA | < 0.20 | 100% | 70% | 130% | 100% | 80% | 120% | 100% | 70% | 130% | |
| Dissolved Chromium | 4074989 | | <2.0 | <2.0 | NA | < 2.0 | 100% | 70% | 130% | 99% | 80% | 120% | 105% | 70% | 130% | |
| Dissolved Cobalt | 4074989 | | 1.54 | 1.26 | NA | < 0.50 | 99% | 70% | 130% | 97% | 80% | 120% | 101% | 70% | 130% | |
| Dissolved Copper | 4074989 | | 2.4 | 2.6 | NA | < 1.0 | 99% | 70% | 130% | 100% | 80% | 120% | 97% | 70% | 130% | |
| Dissolved Lead | 4074989 | | <0.50 | < 0.50 | NA | < 0.50 | 97% | 70% | 130% | 97% | 80% | 120% | 99% | 70% | 130% | |
| Dissolved Molybdenum | 4074989 | | 0.52 | < 0.50 | NA | < 0.50 | 99% | 70% | 130% | 105% | 80% | 120% | 113% | 70% | 130% | |
| Dissolved Nickel | 4074989 | | 10.0 | 8.3 | 18.6% | < 1.0 | 100% | 70% | 130% | 95% | 80% | 120% | 97% | 70% | 130% | |
| Dissolved Silver | 4074989 | | <0.20 | <0.20 | NA | < 0.20 | 101% | 70% | 130% | 97% | 80% | 120% | 98% | 70% | 130% | |
| Dissolved Thallium | 4074989 | | < 0.30 | < 0.30 | NA | < 0.30 | 101% | 70% | 130% | 98% | 80% | 120% | 100% | 70% | 130% | |
| Dissolved Uranium | 4074989 | | 1.57 | 1.48 | NA | < 0.50 | 100% | 70% | 130% | 98% | 80% | 120% | 103% | 70% | 130% | |
| Dissolved Vanadium | 4074989 | | 0.41 | 0.53 | NA | < 0.40 | 97% | 70% | 130% | 100% | 80% | 120% | 104% | 70% | 130% | |
| Dissolved Zinc | 4074989 | | 36.7 | 33.2 | 10.0% | < 5.0 | 97% | 70% | 130% | 99% | 80% | 120% | 90% | 70% | 130% | |

Comments: NA signifies Not Applicable.

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



Method Summary

CLIENT NAME: TERRAPROBE INC

PROJECT: 7-22-0008-42

SAMPLING SITE:

AGAT WORK ORDER: 22H918598 ATTENTION TO: Amber Brooks

SAMPLED BY:KG

| OAIMI EINO OITE. | | O, 222 2 | <u> </u> |
|----------------------|-------------|---------------------------------------|----------------------|
| PARAMETER | AGAT S.O.P | LITERATURE REFERENCE | ANALYTICAL TECHNIQUE |
| Water Analysis | | · | · |
| 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 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 |



5835 Coopers Avenue Mississauga, Ontario L4Z 1Y2 Ph: 905.712,5100 Fax: 905.712.5122 webearth.agatlabs.com

| Cooler Quantity: Arrival Temperatures: Custody Seal Intact: Notes: Turnaround Time (TAT) Required: Regular TAT Rush TAT (Rush Surcharges Apply) | ٧ | √urk | . Order | #. | 2 | 224 | 7185 | 98 |
|--|---------------------------------|------------------------------|---|--|--------------------------------------|---------------|---|-------------------------------------|
| Custody Seal Intact: Notes: Turnaround Time (TAT) Required: Regular TAT Rush TAT (Rush Surchanges Apply) 3 Business Days Days Days Day OR Date Required (Rush Surchanges 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 ORES O. Reg 406 ORES O. Reg 406 | C | coole | er Qua | ntity: | | 5n | | |
| Turnaround Time (TAT) Required: Regular TAT Rush TAT (Rush Surcharges Apply) 3 Business Days Days Days 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 ORES O. Reg 406 | A | rriva | al Tem | peratur | es: 5 | 5 | 2 W 1 | 6-2 |
| Regular TAT Rush TAT (Rush Surcharges Apply) 3 Business Days 2 Business Days Next Business Days 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 ORES O. Reg 406 | | | | al Intac | t BA | \$60 | □No C | □N/A |
| Rush TAT (Rush Surcharges Apply) 3 Business | Tu | ırn | aroı | ınd Ti | ime (TAI |) Requi | ired: | |
| 3 Business 2 Business Next Business Days 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 ORES O. Reg 406 ORES O. Reg 406 | | | | | - | to 7 Busin | ness Days | |
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| Chain of Custody Record If this is a Drinking Water sample, please | e use Drinking Water Chain of Custody Form (potable water consumed by human | Arrival temperatures: 5.3 3.4 3.0 |
|--|---|--|
| Report Information: Company: Contact: Address: Address: Phone: Reports to be sent to: 1. Email: Address: Address | Regulatory Requirements: (Please check all applicable boxes) Regulation 153/04 | Custody Seal Intact: No No Notes: Notes: No Notes: No Notes: Notes: No Notes: Notes: No Notes: No Notes: No Notes: No Notes: No Notes: No No Notes: No Notes: No No No Notes: No No Notes: No |
| Project Information: Project: T-22-0008-42 Site Location: Sampled By: | | Please provide prior notification for rush TAT *TAT is exclusive of weekends and statutory holidays For 'Same Day' analysis, please contact your AGAT CPM |
| AGAT Quote #: PO: Please note: Il quotation number is not provident, client will be billed full price for analysis. Invoice Information: Company: Contact: Address: Email: | Sample Matrix Legend B Biota GW Ground Water O Oil P Paint S Soil SD Sediment SW Surface Water Sample Comments/ Matrix Special Instructions O Reg 153 isposal Characterization TCI Ma Divos DABNs DBalaPE soils SPLP Rainwater Lead Metals Dvocs DSvocs oils Characterization Pack ISAR SAR Hazardous or High Concentral |
| Sample Identification Date Sampled # of Containers BH3 BH5 Date Sampled # of Containers AM PM | Sample Comments/ Matrix Special Instructions Water Special Instructions Matrix Special Instructions Matrix Special Instructions | PAHS PCBS VOC Uardfill D Lardfill |
| AM PM AM AM PM AM | | |

APPENDIX E

TERRAPROBE INC.



APPENDIX E: SAMPLING AND ANALYSIS PLAN 6463 Trafalgar Road, Milton Project #7-22-0008-42

| Borehole/ Confirmatory Sample | APEC | PCA | Media | Metals | Н-М | ORPs | OC Pest | PHCs | VOCs | PAHs |
|----------------------------------|--------|--|------------------------|----------|----------|----------|----------|------|------|------|
| BH1 | APEC 1 | #30 - Importatin of fill material of unknown quality | Soil & Ground Water | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| BH3 to BH6 | APEC 2 | #40 - Pesticides (including herbicides, fungicides and anti-fouling agent) manufacturing, processing, bulk storage and large scale applications | Soil & Ground Water | ~ | ~ | ~ | ~ | | | |

Note: ORPs for soil and ground water include CN-, Cr(VI), Hg, B-HWS where applicable

APPENDIX F

TERRAPROBE INC.





STANDARD OPERATING PROCEDURE **BOREHOLE DRILLING**

Solid and Hollow Stem Augers

Introduction

Soil drilling, using a drill rig or other equipment based on site accessibility is a common way to obtain soil samples on a site. Soil drilling is typically completed with a truck or bombardier-mounted drill rig, or Pionjar (or other portable drilling equipment) depending on the site accessibility. The driller operator will handle all equipment, including opening the split spoon.

Hollow stem augers are typically used when wet or loose cohesionless materials are encountered to permit sampling without removing the augers. Alternatively, solid stem augers are advanced and removed at each sampling depth. Samples and in-situ Standard Penetration Testing (STP) are conducted by driving a standard 2" diameter split spoon (hollow sampling tube) through a process of continuous or intermittent sampling. If monitoring wells are to be installed in the boreholes, hollow stem augers are to be used.

Equipment Required

- Personal Protective Equipment (PPE)
 - Hard hat, safety vest, protective eyewear, steel toed boots
- Nitrile Gloves
- Slider Bags
- Borehole logs & Clipboard
- Portable Soil Vapour Measurement Device (Gastech/PID)
- Laboratory Sample Bottles
- Field Notebook and/or Field Sheets
- Well Keys or Tools Required
- Sampling Plan (from project manager)
- Access Agreements (if required)
- Drums for Soil Storage

Procedure

1. Prior to drilling, boreholes will be numbered and marked and the site cleared for utilities.

- 2. Downhole equipment is cleaned/decontaminated by the contractor.
- 3. All drill cuttings are to be placed in labeled drums or other container and moved to a designated location.
- 4. Review sampling plan and borehole locations with project manager
- 5. Determine what equipment and supplies are required.
- 6. Obtain necessary sampling and monitoring equipment.
- 7. Coordinate with project manager and clients and drilling crew, as required, for site access.
- 8. Perform a general site survey in accordance with any applicable site-specific health and safety plans.
- 9. Perform health and safety meeting, discuss safety around rig and muster points should there be an emergency.
- 10. The technician will direct the drill crew where to set up the rig to begin drilling.
- 11. A borehole log must be prepared for every borehole drilled. Include: elevation, GPS coordinates, depth, soil classification, drilling details, sampling, water levels, free product (if any).
- 12. Record the type of equipment used (solid stem or hollow, type of rig) and the start time when drilling begins.
- 13. Sampling will be at pre-specified intervals; typically every 2 ½" to 10-15 feet then once every 5 feet from then on. Between samples, split spoons will be cleaned (if an environmental sampling is being conducted).
- 14. At each sampling interval record; interval number (or sample ID), blow counts, soil description, PPM reading
- 15. Record depth of borehole, caving (if any) and water level when borehole is complete.
- 16. Upon completion of drilling in an open borehole that will not be converted to a well the borehole is to be properly filled and abandoned. There are two methods depending on whether the static water level is above or below the bottom of the borehole.
 - a. Above and less than 20 feet deep: Abandon borehole by mixing cement or cement/bentonite grout and pouring the mixture into the borehole until it is filled to ground surface.
 - b. Below and more than 20 feet deep: Mix and pump cement/bentonite mixture to the bottom of the hole until filled to ground surface.

- Standard Operating Procedure No. 6. Drilling, Logging, and Sampling of Subsurface Materials.
- Geotechnical Field Investigations, Terraprobe Limited, July 1990.



STANDARD OPERATING PROCEDURE SOIL SAMPLING

General Procedures

Introduction

Subsurface investigations typically involve sampling of subsurface soils at various depths at locations of interest. Several soil sampling methods can be implemented depending on the nature of the investigations. Field screening of soil samples may be performed when potential contaminants of concern include VOC and PHC F1.

Equipment Required

- Nitrile Gloves
- Field Parameter Measurement Device (Gastech, PID)
- Laboratory Sample Bottles
- Terracores or sampling syringes (sampler)
- Field Notebook and/or Field Sheets
- Sampling Plan (from project manager)
- Access Agreements (if required)
- Ice and cooler

Procedure

- 1. Review sampling plan and sampling locations with project manager
- 2. Determine what equipment and supplies are required.
- 3. Obtain necessary sampling and monitoring equipment.
- 4. Coordinate with project manager and clients, as required, for site access.
- 5. Perform a general site survey in accordance with any applicable site-specific health and safety plans.
- 6. Identify and mark all sampling locations.
- 7. Assemble the appropriate laboratory supplied jars/vials.
- 8. Collect the samples to be analyzed
 - Borehole split spoon, sample from spoon
 - i. Split spoon sampling methods are primarily used to collect shallow and deep subsurface soils.

Central Ontario

- ii. Gravel, concrete, asphalt and etc. present at or near the surface of the sampling location should be removed prior to split spoon sampling.
- iii. Split spoons used for soil sampling must be constructed with stainless steel and are 2 inches in diameter and 18 to 24 inches in length.
- iv. The top several inches of the material in the spoon must be discarded before remove any portion of the spoon for sampling.
- b. Test pit (backhoe), bag from excavator bucket, then sample.
 - i. Usually used in the collection of surface and shallow soil samples. Allow soil samples to be collected from very specific intervals.
 - ii. The bucket must be decontaminated prior to sample collection.
 - iii. Ensure to scrap off any smeared material on the surface of the bucket that may cross-contaminate the sample prior to jarring the soil sample.
 - iv. Make sure to not physically enter backhoe excavations to collect a sample for safety issue.
- c. Hand-dig (hang augers), sample.
 - i. Hand augers are typically used to advanced boreholes and collect surficial soils and shallow subsurface soils. A 4 inch stainless steel auger buckets with cutting heads are usually used. The bucket is advanced by simultaneously pushing and turning using an attached handle with extension.
 - ii. The top several inches of the soil collected by the auger bucket should be discarded and not be placed in the laboratory supplied container for sample submission.
 - iii. VOC samples need to be collected directly from the auger bucket, if possible.
 - iv. The entire hand auger assembly must be decontaminated before sampling at a new location. This is to minimize cross-contamination of soil samples.
- 9. Fill the appropriate jars, making sure to label properly; include the date, company name, parameter to be analyzed, and project number.
- 10. Change Nitrile gloves between samples.
- 11. Clean off loose soil that may be on the outside of the jar.
- 12. Place in a cooler with ice.
- 13. Log samples in field book.
- 14. Complete a Chain of Custody for all samples.
- 15. Package samples and complete necessary paperwork.
- 16. Transport samples (that have been kept cool) to laboratory or transport to office and call for pick up.

- SESD Operating Procedure Soil Sampling U.S EPA, December 2011
- Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, Ontario Ministry of the Environment, July 2011





STANDARD OPERATING PROCEDURE FIELD SCREENING AND CALIBRATION

RKI Eagle Gastech and Mini Rae Photo-Ionization Detector

Introduction

Field screening is an important tool in that it provides data for onsite, real time total vapor measurements, evaluation of existing conditions, sample location optimization, extent of contamination, and health and safety evaluations.

RKI Eagle

Portable Multi-Gas Detector

The gastech can be used for reading headspace values in soil and water (wells). There are two types of 'Gastechs' in the Terraprobe office, the RKI Eagle 1 and Eagle 2. These portable gas detectors assist in screening field samples on many projects.

Portable VOC Monitor (Mini Rae 2000)

Portable VOC Monitors or PIDs (photo-ionization detector) monitors VOCs using the photo-ionization detector. If screening is required for VOCs, then this machine can be used. The PIDs are also used for health and safety for workers in enclosed spaces (such as trenches) in a known contaminated area.

Equipment Required

For Cailbration

- Canister of gas (Hexane at 400ppm for Eagle 1, Hexane at 1650ppm for Eagle 2, Isobutylene at 100ppm for PID)
- Regulator.
- Tubing to attach probe to canister.

Field Screening

- Eagle or Mini Rae
- Nitrile Gloves
- Slider Bags
- Sampling Plan (from project manager)

- Access Agreements (if required)
- Field Notebook and/or Field Sheets Appropriate Sampling Jars

Procedure (Calibration)

In order to ensure accuracy in the field, Terraprobe calibrates its Gastechs and PIDs each time they will be in the field.

There are three different gas canisters – one for the Eagle 1, the other for the Eagle 2 and a third for the MiniRae. The Eagle 1 is calibrated using the concentration of 400ppm while the Eagle 2 is calibrated with the concentration of 1650ppm. The PID is calibrated with Isobutylene at a concentration of 100ppm. Calibrating each machine is similar in principle but there are differences due to the different models we are using.

Eagle 1:

- 1. Take the Eagle to a fresh-air location
- 2. Turn the Eagle on and allow one minute for warm up
- 3. Hold the AIR button until a tone sounds
- 4. Press and hold SHIFT/▼ and then press the DISP/ADJ button. This will display the Calibration menu.
- 5. Select Single Calibration, press Enter
- 6. Press Enter to select HEX
- 7. The screen displays the channel selected, and the gas reading will flash
- 8. Connect the tubing from the regulator to the Eagle's probe.
- 9. If needed, use the AIR /▲ and SHIFT/▼ buttons to adjust the reading to match the concentration on the cylinder.
- 10. Press the ENTER button to set the value. Single Calibration will end and the menu will display.
- 11. Disconnect the tubing from the probe.
- 12. With the single calibration menu still displayed, use the SHIFT/▼ button until the ESC message displays, then press the ENTER button to return to the Calibration menu.
- 13. Press the SHIFT/▼ button to place the arrow next to Normal Operation and then press ENTER to return to the normal screen.

Eagle 2:

- 1. Take the Eagle to a fresh-air environment.
- 2. Turn the Eagle on and allow one minute for warm up.
- 3. Press and hold the RANGE/SHIFT button, when press the DISPLAY/ADJUST/NO button and release both buttons.
- 4. The Calibration Mode Screen displays with the cursor beside Auto Calibration.
- 5. Set the fresh air reading by: Moving the cursor to the Perform Air Adjust menu item by using the RANGE/SHIFT button. Press and release the POWER/ENTER/RESET button. The screen will say "Perform Air Adjust?" Press the AIR/YES button to continue. The Eagle 2 will indicate it is adjusting the zero reading before it returns to the Calibration Mode Screen.
- 6. Move the cursor to Single Calibration menu item by using the AIR/YES button.
- 7. Press and release the POWER/ENTER/RESET button. The "Select Sensor Screen" appears with the cursor flashing.
- 8. Move the cursor next to the sensor you want to calibrate with the AIR/YES and RANGE/SHIFT buttons.
- 9. Press and release the power enter reset button to proceed to the Single Calibration Gas Value screen. The calibration gas value is flashing
- 10. If necessary, adjust the calibration gas value to match the cylinder concentration with the air/yes and range/shift buttons.
- 11. Press and release the power/enter/reset button to proceed to the single calibration apply gas screen. Cal in Process is flashing.
- 12. Connect the tubing from the demand flow regulator to the probe. Allow the Eagle 2 to draw gas for one minute.

Mini Rae PID Calibration

- 1. Bring the Mini Rae to a fresh air environment.
- 2. Push the MODE and N/- buttons together to access a sub menu.
- 3. "Fresh Air Cal?" will appear.
- 4. Press the Y/+ key, the display shows "zero in progress" followed by "wait" and a countdown timer.
- 5. After about 15 seconds, the display shows the message "zeroed... reading = X.Xppm..." Press any key or wait, the monitor will return to "Fresh Air Calibration?" menu.
- 6. Connect the tubing to the regulator on the gas cylinder.
- 7. Press the Y/+ key at the "Span Cal?" to start calibration. The display shows the gas name and the span value of the corresponding gas.
- 8. The display shows "Apply gas now!" Turn on the valve of the span gas supply.



- 9. Display shows "wait... 30" with a countdown timer showing the number of remaining seconds while the monitor performs the calibration.
- 10. When the countdown timer reaches 0, the display gas shows the calibrated value.
- 11. After a span calibration is completed, the display will show the message "Span Cal Done! Turn Off Gas!"
- 12. Turn off the flow of gas and disconnect the calibration tubing from the Mini Rae.
- 13. Press any key to return to the sub menu. Press MENU to return to main menu and being operations.

Procedure (Field Screening)

- 1. Place soil sample in a slider bag and gently break up the pieces.
- 2. Using the Eagle, insert the probe into the bag and hold it above the soil. Do NOT put the probe in the soil. Wait 30 seconds for the probe to read the soil vapour.
- 3. Record the value and remove the probe from the slider bag.
- 4. PIDs can be used the same way HOWEVER, it must be noted that if sampling for VOCs, the sample must be preserved within 10-12 seconds of sampling. This means that any sample that is potentially going to be jarred must have a methanol vial stored immediately.
- 5. Using the probes to measure headspace readings in a well follows the same basic principles. Open the j-plug or slip cap and quickly insert the probe into the top of the well taking extreme caution not to allow the probe to touch any water, and cover the top of the well with your hand.
- 6. Wait 30 seconds for the probe to establish a reading.
- 7. Remove the probe and record the value.

- US EPA Field Sampling Guidance Document #1210 "Soil Sampling for Volatile Compounds"
- MiniRae 2000 Portable VOC Monitor Operation and Maintenance Manual, Rev. C
- US EPA Field Screening Methods Catalog User's Guide
- Instruction Manual Eagle Series Portable Multi Gas Detector. Rev.H.
- RKI Eagle 2 Operator's Manual. Rev. Q.



STANDARD OPERATING PROCEDURE **WELL INSTALLATION**

Introduction

All wells are to be constructed with flush-thread joints and factory-slotted screen. Terraprobe monitoring wells are 2-inch (50 mm) inside diameter PVC unless otherwise stipulated or required by site specific standards or sampling requirements. Other possible well diameters and materials include:

- 1-inch (25 mm) PVC,
- 1.5 –inch (37 mm) PVC,
- 4-inch (100mm) steel,
- 6 inch (150 mm) steel,
- 10 inch (255 mm) steel and;
- 3 foot (915 mm) concrete.

Water washed silica sand is used for the filter pack, bentonite is used to create a seal above the screen to just below the surface and sand is added to ground level. Well casings are installed using cement to secure them.

Notes:

- Monitoring wells are to be installed by a licenced well driller only.
- The installation procedures outlined in this document are for reference only to insure familiarization with the process.
- The installation procedures outlined in this document are for the installation of a typical 2-inch PVC monitoring well.
- Maximum length of well screen allowed under O.Reg. 153/04 is 3 m (10 feet)
- A MOE Well Record is required under O.Reg. 903 if:
 - The monitoring well is greater than 3 m (10 feet) and/or
 - The monitoring well will be in place longer than 30 days
- Well Records can be either for a single well or a group of wells (cluster).
- A well cluster record can be written only if all the wells are within the same property, or adjacent properties owned by the same owner.

Equipment Required

- Interface or Water Level Meter
- Field Notebook and/or Field Sheets
- Well Keys/Locks or Tools Required
- PVC Pipe (risers/casing)
- PVC Screen
- J-Plugs
- Flush Mount Casing or Above Grade Casing
- Bentonite
- Silica Sand
- Sampling Plan (from project manager)
- Access Agreements (if required)

- 1. After borehole completion, measure total depth before riser casing and screen are installed and before the augers are removed. This confirms drilling depths are accurate.
- 2. Decontaminate screen and casing (typically done off-site by water well driller), check that casing sections are straight and not cracked or damaged.
- 3. Verify and record diameter and lengths of casings and screen.
- 4. The casing/screen will be installed by:
 - a. Placing an end cap on the screen section
 - b. Attaching a section of riser to the screen and lowering into the borehole
 - c. Additional sections of riser will be added and lowered into the borehole until the desired screened interval is reached
- 5. Record the length of screen and riser pipe used for the monitoring well.
- 6. Verify and record that the proper filter (sand) pack has been selected.
- 7. The sand is poured into the space around the screen. Ensure it fills the hole to at least two feet above the screen.
 - a. In hollow stem auger wells, the sand pack must be poured down the hollow stem of the augers. Augers are then pulled out of the borehole in 2-1/2 to 5 feet increments, sand is poured and level measured with a weighted tape.
- 8. Use a weighted tape and take continuous measurements while the sand is being poured to ensure proper installation. Pack the sand down to verify.
- 9. Record how much sand is used.
- 10. A bentonite seal is placed directly above the sand pack, minimum two feet thick, and should extend into the next soil strata.
- 11. Record how much bentonite is used.
- 12. A grout seal is then placed above the bentonite and can be a mixture of cement, bentonite, sand and water.



- 13. Surface completion is to be completed one of two ways.
 - a. Above grade: Locking well cover sticking above grade, secured by lock and key.
 - b. At grade: Flush mount casing, lock with ratchet bolts or allen key.
- 14. Each casing is installed over the PVC pipe and cemented into place.
- 15. Record GPS coordinates and measure stick up (if above grade).
- 16. Confirm that a well record will be completed for the monitoring well. Confirm the information to be submitted on the well record or the cluster of wells.
- 17. Survey the completed monitoring well to a geodetic or recoverable benchmark

- Geotechnical Field Investigations, Terraprobe Ltd, July 26, 1990
- Ontario Water Resources Act R.R.O. 1990 Regulation 903 Wells
- Environmental Protection Act Ontario Regulation 153/04



STANDARD OPERATING PROCEDURE WELL DEVELOPMENT

Introduction

Monitoring well development is necessary to ensure that complete hydraulic connection is made and maintained between the well and the aquifer material surrounding the well screen and filter pack. It also serves to restore the groundwater properties disturbed during drilling.

Most common techniques at Terraprobe include 'surging', and bailing, often used together. Other development methods that may be used include jetting, airlift, and submersible pump methods. Jetting is typically not used as a development method for environmental investigations, but is commonly used for water resource monitoring wells or drinking water wells. Generally a phased process is used to develop wells, starting with a gentle bailing phase to remove sand, followed by a surging phase, and finally a pumping phase after the well begins to clear up.

After a well is first installed, and in fact, often before the bentonite pellet seal is set, gentle bailing is used to remove water and sand from the well. Bailing can be accomplished through the use of dedicated bailers or Waterra inertia pumps. The purpose of this technique is used to settle the sand pack. After further well sealant materials have been added and allowed to set for approximately 48 hours, bailing is resumed as part of well development. The purpose of bailing is to remove any fine material that may have accumulated in the well, and start pulling in natural material into the sand pack. Bailing is often conducted until the sand content in the removed water begins to decrease.

After the sand content begins to decrease, surging is conducted. A surge block is used to move sediments from the filter pack into the well casing. All surge blocks will be constructed of materials that will not introduce contamination into the well. Surge blocks should have some manner of allowing pressure release to prevent casing collapse. Terraprobe uses Waterra surge blocks which fit onto Waterra inertia pumps. The surge block is moved up and down the well screen interval and then removed, followed by a return to bailing to remove any sand brought into the well by the surging action. Care should be taken to not surge too strongly with subsequent casing deformation or collapse; the well screen interval is often the weakest part of a well. Surging should be followed by additional bailing to remove fine materials that may have entered the well during the surging effort.

After surging has been completed and the sand content of the bailed water has decreased, a submersible pump or inertia pump is used to continue well development. The pump should be moved up and

down the well screen interval until the obtained water is relatively clear. Well development will continue until the water in the well clarifies and monitoring parameters such as pH, specific conductivity, and temperature stabilize as defined in the project-specific planning documents. It should be noted that where very fine-grained formations are present at the screened interval, continued well development until clear water is obtained might be impossible. Decisions regarding when to cease development where very fine-grained conditions exist should be made between the field supervisor and project manager.

During well development pH, specific conductivity, temperature, and turbidity should be monitored frequently to establish natural conditions and evaluate whether the well has been completely developed. The main criterion for well development is clear water (Nephelometric turbidity units or NTU of less than 5). As mentioned above, clear water can often be impossible to obtain with environmental monitoring wells. A further criterion for completed well development is that the other water quality parameters mentioned above stabilize to within 10 percent between readings over one well volume. The minimum volume of water purged from the well during development will be approximately a minimum of 3 borehole volumes (wells will typically not reach stabilization of water quality parameters before this condition is achieved and may not have reached stability even after this threshold has been achieved).

Equipment Required

- Interface or Water Level Meter
- Nitrile Gloves
- Water Quality Meter (EC, pH, Temperature)
- Bucket
- Field Notebook and/or Field Sheets
- Well Keys or Tools Required
- Waterra
- Waterra cutters (avoid using knives)
- Surge Blocks (if required)
- Foot valves
- Storage for contaminated (or suspected contaminated) water.
- Access Agreements (if required)

- 1. Review monitoring well locations with project manager
- 2. Review borehole logs and determine monitoring well depths and well screen locations.
- 3. Obtain Waterra tubing, foot valves and surge blocks.
- 4. Coordinate with project manager and clients, as required, for site access.
- 5. Perform a general site survey in accordance with any applicable site-specific health and safety plans.
- 6. Identify and mark all monitoring wells.



- 7. Open the monitoring well and take initial readings (ie; head space air monitor readings, water level, well depth) and record in the field notebook.
- 8. Organize equipment.
- 9. Bailing the monitoring well:
 - a. Calculate casing volume to determine the ideal amount to be purged (three casing volumes).
 - b. Attach foot valve to that end of Waterra
 - c. Slowly lower Waterra down the well. Once it hits the bottom, leave some extra Waterra above the top of the well to easily handle pumping and cut the Waterra.
 - d. Slowly remove three casing volumes from the monitoring well.
 - e. Dispose of purged water in barrels if known or suspected contaminates are of concern, or however the project manager instructs.
- 10. Surging the monitoring well
 - a. Slip surge block onto the end of the Waterra and reattach the foot valve, securing the surge block
 - b. Place surge block and Waterra back into the monitoring well
 - c. Raise and lower the surge block along the screen. (Should be able to feel location of the well screen)
 - d. Continue surging for 5-10 minutes.
- 11. Final purge of the monitoring well
 - a. Remove surge block from Waterra
 - b. Lower the Waterra back down the well. Begin pumping water out of the well, taking care to note water quality and appearance (smell, clarity, etc.).
 - c. Continue to purge the monitoring well until the following water quality parameters have stabilized:
 - i. <u>Turbidity</u> (± 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized),
 - ii. Conductivity (± 3%),
 - iii. Temperature (± 3%),
 - iv. \underline{pH} (± 0.1 unit),
 - d. Dispose of purged water in barrels if known or suspected contaminates are of concern, or however the project manager instructs.
- 12. Record final measurements in field book, record date, water level before and after development, quantity of water removed, equipment used and techniques (surge and purge, or purge only).

- ASTM Standard Practice and Installation of Ground Water Monitoring Wells in Aquifers
- EPA SOP#2044 Well Development March 10, 199





STANDARD OPERATING PROCEDURE FIELD MEASUREMENT OF WATER QUALITY INDICATORS

Hanna Instruments Portable pH/EC/TDS/Temperature Meter (HI 991301)

Introduction

Stabilization of parameters (pH, D.O., conductivity, temperature, etc.) and turbidity of the purged water are monitored before a sample is taken. The HI 991301 can be used with all ground water sampling methods (manual or low-flow).

HI 991301's micro-processor allows the system to be easily calibrated with the press of a few keys. Additionally, the micro-processor performs a self-diagnostic routine each time the instrument is turned on. The self-diagnostic routine provides useful information about the function of the instrument and probe.

Equipment Required

- Interface or Water Level Meter
- Water pump or bailer
- Nitrile Gloves
- Bucket and/or Graduated Cylinder
- Field Notebook and/or Field Sheets
- Well Keys or Tools Required
- Sampling Plan (from project manager)
- Access Agreements (if required)

- 1. Review sampling plan and monitoring well locations with project manager
- 2. Review borehole logs and determine monitoring well depths and well screen locations.
- 3. Determine what equipment and supplies are required.
- 4. Obtain necessary sampling and monitoring equipment.
- 5. Decontaminate or pre-clean equipment, and ensure that it is in working order.
- 6. Calibrate pH and Conductivity on the HI 991301 as follow:
 - a. Prior to Calibration
 - i. Ensure all sensors are immersed in calibration solutions. The top vent hole of the conductivity sensor must be immersed.

ii. Fill a bucket with ambient temperature water to rinse the probe module between calibration solutions. Prepare clean, absorbent paper towels or cotton cloth available to dry probe module between rinses. This reduces carry-over contamination and increase accuracy of the calibration.

b. pH Calibration

- i. While in pH measurement mode, press and hold the ON/OFF/MODE button until "OFF" on the secondary display is replaced by "CAL". Release the button. Place the sensor into the first calibration buffer.
- ii. Calibration may be performed at 1, 2 or 3-points (at pH 7, 4 and 10, or at pH 6.86, 4.01 and 9.18). Perform a 1-point calibration (at pH 7 or at pH 6.86) ONLY if a previous 2 or 3-point calibration has been performed recently. In most cases, a 2-point pH calibration will be sufficient for accurate pH measurements, but if the general range of pH in the sample is not known, a 3-point calibration may be necessary. Enter the calibration standard of choice.
- iii. First calibration must be either pH 7 or pH 6.86.
- iv. Place 30 to 35 mL of the pH buffer you have chosen to calibrate the system with (pH 7 or 6.86) in the 100 mL graduated cylinder. The graduated cylinder minimizes the amount of solution needed.
- v. If the buffer is recognized "REC" is displayed until the reading is stable and the calibration is accepted.
- vi. When the buffer is accepted the "OK" message is displayed and the meter returns to pH measurement mode.
- vii. If the buffer is not recognized or the calibration offset is out of the accepted range "WRONG" is displayed.

c. Conductivity Calibration

- i. From EC or TDS normal mode, press and hold the ON/OFF/MODE button until "OFF" on the secondary display is replaced by "CAL". Release the button.
- ii. The meter enters calibration mode. Immerse the probe in the HI 7030 calibration solution (mS 12.88).
- iii. If the standard is recognized "REC" is displayed until the reading is stable and calibration is accepted.
- iv. The LCD will display "OK" for 1 second and return to normal measurement mode.
- v. If the standard is not recognised or the slope is out of acceptance range "WRONG" is displayed. Change the calibration solution or the electrode or press any key to exit calibration
- vi. When the calibration procedure is complete the "Calibrated" tag is turned on.

d. Measurement Mode

i. Press the ON/OFF/MODE button until the display lights up. At start-up, all the LCD segments are displayed for 1 second, then the percent indication of the remaining battery life is displayed for another second. The meter then enters the normal measuring mode.

- ii. To select the measurement range, while in normal measurement mode, press the SET/HOLD button quickly to select pH, EC, or TDS value on the primary LCD, while temperature will be simultaneously displayed on the secondary LCD.
- iii. Turn off meter by pressing the ON/OFF/MODE button. Rinse the probe and return to storage solution.

- Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, Ontario Ministry of the Environment, July 2011
- HI 991300/991301 Instruction Manual, Hanna Instruments, January 2011



STANDARD OPERATING PROCEDURE **GROUND WATER SAMPLING**

Inertial Pump (Waterra/Footvalve)

Introduction

The inertial pump consists of a one way foot valve and low density or high density tubing. The inertial pump can be used in the development, purging and sampling of ground water monitoring wells.

Equipment Required

- Interface or Water Level Meter
- Waterra Tubing (typically 5/8" in diameter)
- Footvalve(s)
- Surge Block(s)
- Nitrile Gloves
- Bucket
- Field Parameter Measurement Device (Horiba Flow Cell, YSI Meter, Hanna Meter, etc.)
- Laboratory Sample Bottles
- Field Notebook and/or Field Sheets
- Well Keys or Tools Required
- Sampling Plan (from project manager)
- Access Agreements (if required)
- Ice

- 1. Review sampling plan and monitoring well locations with project manager
- 2. Review borehole logs and determine monitoring well depths and well screen locations.
- 3. Determine what equipment and supplies are required.
- 4. Obtain necessary sampling and monitoring equipment.
- 5. Decontaminate or pre-clean equipment, and ensure that it is in working order.
- 6. Coordinate with project manager and clients, as required, for site access.
- 7. Perform a general site survey in accordance with any applicable site-specific health and safety plans.
- 8. Identify and mark all sampling locations.
- Start sampling at the least contaminated monitoring well (if known).

- 10. Remove locking well cap, note location time of day, and date in your notebook
- 11. Remove well casing cap.
- 12. Lower water level measuring device or equivalent into well until water surface is encountered.
- 13. Measure distance from water surface to reference measuring point on well casing and in field notebook. Alternatively, if there is no reference point, note that water level measurement is from top of steel casing, top of PVC riser pipe, from ground surface.
- 14. Measure total depth of well. Repeat at least twice to confirm measurement and record in field notebook
- 15. Calculate the volume of water in the well and record in field notebook.
- 16. Assemble Waterra tubing and footvalve.
- 17. Lower tubing (Footvalve first) into the well until the foot valve is at the depth of the well screen.
- 18. Cut Waterra, leaving enough room to purge and sample comfortably.
- 19. Purge well until field parameters (such as temperature, pH, conductivity, etc.) have stabilized. Field parameters are measured by a hand held device (YSI or similar). Record field parameters until parameters have stabilized, and record the water level in the monitoring well.
 - a. If the calculated purge volume is small, the measurements should be taken frequently to provide a sufficient number of measurements to evaluate stability (every ½ casing volume). If the purge volume is large, measurements taken every ½ to 1 casing volume may be sufficient.
 - b. Stabilization occurs when:
 - i. <u>Turbidity</u> (± 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized),
 - ii. Conductivity (\pm 3%),
 - iii. Temperature (± 3%),
 - iv. pH (\pm 0.1 unit),
 - c. If after three well volumes have been removed, the chemical parameters have not stabilized according to the above criteria, additional well volumes should be removed.
 - d. If the field parameters have not stabilized within five volumes, contact the project manager to determine whether or not to collect a sample or to continue purging.
- 20. Collect and dispose of purge waters as specified in the site-specific sampling plan.
- 21. Assemble the appropriate laboratory supplied bottles.
- 22. Organize sample bottles so as to easily fill them if alone. If with a partner, have them hold the bottles as pumping occurs.
- 23. Collect samples in the laboratory supplied bottle
 - a. For non-filtered samples collect directly from the tubing into the sample bottle.
 - b. For filtered samples, connect the tubing directly to the filter unit.
- 24. Cap the sample bottle tightly and place relabeled sample container in a carrier
- 25. Replace the well cap.
- 26. Log all samples in the site logbook and label all samples.



- 27. Package samples and complete necessary paperwork.
- 28. Transport sample to staging area for preparation for transport to analytical laboratory.

NOTE: Purging should be completed immediately prior to sample collection although it is acceptable to purge and then collect samples within 24 hours.

- Field Sampling guidance Document # 1220 Groundwater Well Sampling, U.S.EPA, September 2004
- Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, Ontario Ministry of the Environment, July 2011



STANDARD OPERATING PROCEDURE **GROUND WATER SAMPLING**

PERISTALTIC PUMP

Introduction

Low flow purging and sampling involves extracting groundwater at rates comparable to ambient ground water flow (typically less than 500 ml/min), so that the drawdown of the water level is minimized, and the mixing of stagnant water with water from the screened intake area in a well is reduced.

Stabilization of parameters (pH, D.O., conductivity, temperature, etc.) and turbidity of the purged water are monitored before a sample is taken, thus low flow methods facilitate equilibrium with the surrounding formation water and produces samples that are representative of the formation water.

Equipment Required

- Interface or Water Level Meter
- Peristaltic Pump
- Batteries
- Low Density Polyethylene Tubing (LDPE Tubing)
- Silicon Tubing
- Nitrile Gloves
- Bucket
- Field Parameter Measurement Device (Horiba Flow Cell, YSI Meter, Hanna Meter, etc.)
- Laboratory Sample Bottles
- Field Notebook and/or Field Sheets
- Well Keys or Tools Required
- Sampling Plan (from project manager)
- Access Agreements (if required)
- Ice

- 1. Review sampling plan and monitoring well locations with project manager
- 2. Review borehole logs and determine monitoring well depths and well screen locations.
- 3. Determine what equipment and supplies are required.
- 4. Obtain necessary sampling and monitoring equipment.

- 5. Decontaminate or pre-clean equipment, and ensure that it is in working order.
- 6. Coordinate with project manager and clients, as required, for site access.
- 7. Perform a general site survey in accordance with any applicable site-specific health and safety plans.
- 8. Identify and mark all sampling locations.
- 9. Start sampling at the least contaminated monitoring well (if known).
- 10. Remove locking well cap, note location time of day, and date in your notebook
- 11. Remove well casing cap.
- 12. Lower water level measuring device or equivalent into well until water surface is encountered.
- 13. Measure distance from water surface to reference measuring point on well casing and in field notebook. Alternatively, if there is no reference point, note that water level measurement is from top of steel casing, top of PVC riser pipe, from ground surface.
- 14. Measure total depth of well. Repeat at least twice to confirm measurement and record in field notebook
- 15. Calculate the volume of water in the well and record in field notebook.
- 16. Lower LDPE tubing into the well until the end of the tubing is at the bottom of the well.
- 17. Cut LDPE tubing, leaving enough room to sample comfortably.
- 18. Pull the appropriate amount of tubing out of the well so that the end of the tubing is within the well screen.
- 19. Attach LDPE tubing to approximately 6' of flexible silicon tubing and insert the silicon tubing into the roller on the peristaltic pump, closing the lever in order to secure the tubing.
- 20. Attach power supply, and purge well until field parameters (such as temperature, pH, conductivity, etc.) have stabilized. Field parameters are measured by a hand held device (YSI or similar). Record field parameters until parameters have stabilized, and record the water level in the monitoring well.
 - a. If the calculated purge volume is small, the measurements should be taken frequently to provide a sufficient number of measurements to evaluate stability (every ½ casing volume). If the purge volume is large, measurements taken every ½ to 1 casing volume may be sufficient.
 - b. Stabilization occurs when:
 - i. <u>Turbidity</u> (± 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized),
 - ii. Conductivity (\pm 3%),
 - iii. Temperature (± 3%),
 - iv. \underline{pH} (± 0.1 unit),
 - c. If after three well volumes have been removed, the chemical parameters have not stabilized according to the above criteria, additional well volumes should be removed.
 - d. If the field parameters have not stabilized within five volumes, contact the project manager to determine whether or not to collect a sample or to continue purging.
- 21. Collect and dispose of purge waters as specified in the site-specific sampling plan.
- 22. Assemble the appropriate laboratory supplied bottles.



- 23. Organize sample bottles so as to easily fill them if alone. If with a partner, have them hold the bottles as pumping occurs.
- 24. Collect samples in the laboratory supplied bottle
 - a. For non-filtered samples collect directly from the tubing into the sample bottle.
 - b. For filtered samples, connect the tubing directly to the filter unit.
- 25. Cap the sample bottle tightly and place relabeled sample container in a carrier
- 26. Replace the well cap.
- 27. Log all samples in the site logbook and label all samples.
- 28. Package samples and complete necessary paperwork.
- 29. Transport sample to staging area for preparation for transport to analytical laboratory.

NOTE: Purging should be completed immediately prior to sample collection although it is acceptable to purge and then collect samples within 24 hours.

- Field Sampling guidance Document # 1220 Groundwater Well Sampling, U.S.EPA, September 2004
- Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act, Ontario Ministry of the Environment, July 2011