12861 Dixie Road, Caledon

Final

Phase II Environmental Site Assessment

Project Location:

12861 Dixie Road, Caledon, ON

Prepared for:

Tribal Partners Canada Inc.
201-2700 Steeles Avenue West
Vaughan, ON L4K 3C8

Prepared by:

MTE Consultants
1016 Sutton Drive, Unit A
Burlington, ON L7L 6B8

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MTE File No.: 50996-100

Engineers, Scientists, Surveyors.

Executive Summary

MTE Consultants Inc. (MTE) was retained by Tribal Partners Canada Inc. to conduct a Phase II Environmental Site Assessment (ESA) for the property located at municipal address 12861 Dixie Road in Caledon, Ontario (the "Site"). The Phase II ESA was completed for due diligence purposes in advance of a potential property transaction, and not to support the filing of an Ontario Ministry of the Environment, Conservation and Parks (MECP) Record of Site Condition (RSC) under Ontario Regulation (O.Reg.) 153/04. Tribal Partners Canada Inc. is considering to purchase the Site for redevelopment for industrial use.

Site Description and History

The Site is approximately 58.3 hectares (144.1 acres) in area and is located on the southeast corner of Dixie Road and Old School Road in an agricultural area of Caledon. The Site is an active agricultural property. Structures are located in the west-central portion of the Site and include:

- A two-storey dwelling (farmhouse);
- A single storey storage shed utilized for farming implement and hay storage;
- A single storey workshop building;
- Two-storey barn and a single storey barn currently utilized for animal husbandry (cattle);
- A single storey barn currently utilized for general farming supplies and hay storage;
- A fire pit area;
- Five grain silos/bins;
- A concrete enclosure utilized for storing corn husk;
- A small shed housing the water meter for the municipal water service to the Site; and
- A trailer currently vacant that was formerly utilized to house chickens.

The remainder of the Site is occupied by agricultural fields, grass areas, and gravel and paved vehicle access driveways from Dixie Road. Other features on the Site include four surface water bodies on the Site including three watercourses and a pond.

The farmhouse and barn were reported to have been constructed on the Site in the late 1890s and early 1900s. The additional barns and workshop were constructed in the 1970s and 1980s. Historically, the Site has been used for growing crops and as a dairy farm.

Scope or Work

The scope of work for the Phase II ESA was developed based on the results of a Phase I ESA prepared by MTE (MTE, 2022). The following potential environmental concerns were identified on-site:

- The potential use and storage of agricultural chemicals (e.g., pesticides);
- A former orchard;
- Historical fill placement;
- The use of aboveground fuel storage tanks (ASTs);
- A fire pit;

- A septic system;
- A pole mounted transformer;
- Storage of farm equipment and machinery; and
- Potential equipment or vehicle repairs and scrap metal storage.

The Phase II ESA included the collection and analysis of soil samples collected from boreholes and surface soil samples collected from across the Site and in the areas of potential concern. Soil samples were collected and submitted for analysis of one or more of metals, hydride-forming metals (arsenic - As, antimony - Sb, selenium - Se), cyanide (CN-), pH, organochlorine pesticides (OCs), polychlorinated biphenyl (PCBs), polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons (PHCs) and volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene and xylenes (BTEX).

Groundwater samples were collected from nine monitoring wells to evaluate general groundwater quality. Groundwater samples were collected and submitted for analysis of metals, As, Sb, Se, OCs, PHCs, BTEX and VOCs.

The analytical results were compared to the 2011 Table 1 Full Depth Background Site Condition Standards for non agricultural property use (2011 Table 1 SCSs) as a result of areas of the Site being designated as “Core Areas of the Greenlands System” and “Natural Heritage System” in the Region of Peel Official Plan, and as “Woodland and Natural Heritage System” by the Ministry of Natural Resources and Forestry (MNRF).

The analytical results were also compared to the 2011 Table 6 Generic Site Condition Standards for Shallow Soils in a Potable Ground Water Condition for industrial/commercial/community property use and medium/fine textured soils (2011 Table 6 ICC SCSs), which could be applicable for shallow groundwater conditions in areas of the Site that are greater than 30m from the Areas of Natural Significance.

Soil Sampling and Analysis Results

The subsurface stratigraphy on the Site generally consisted of topsoil (up to 0.8m) and/or fill materials (up to 2.7m) over primarily native clayey silt till with trace to some sand and gravel, silt till, silty sand till and sandy silt till seams. Bedrock was not encountered to the maximum drilling depth of 15.2m. It is noted that the fill materials at the Site generally extended to approximately 1.5m bgs, with the exception of borehole BH121-22 where fill material extended to 2.7m within the former in-ground pool.

- The soil analytical results were below the 2011 Table 1 SCSs for all of the analyzed parameters, with the exception of the following samples:
  - Antimony in surface soil sample SS101-22 (0.0-0.2m), which was located within the fire pit and former orchard area;
  - PHC F3-F4 in a shallow soil sampled collected from boreholes MW116-22 (0.0-0.6m), BH117-22 (0.0-0.5m), BH119-22 (0.0-0.5m) and MW125-22 (0.0-0.6m), which were located in the areas of the farming structures.
  - PHC F4 in two samples of soil fill collected from borehole BH121-22 (0.8-1.4m and 1.5-2.1m), which were located within the former in-ground pool; and
  - Lead, zinc and PHC F3-F4 in a surface soil sample collected from SS103-22 (0.0-0.2m), which was located on the west side of the farmhouse; a potential fill location of the former basement AST.

- The soil analytical results that were also above the 2011 Table 6 ICC SCSs include lead, zinc and PHC F3 in surface soil sample SS103-22 (0.0-0.2m).

The vertical extent of these parameters was delineated based on the analytical results for deeper soil samples at each location including SS101-22 (0.3-0.5m), SS103-22 (0.3-0.5m), MW116-22 (1.5-2.1m), BH117-22 (0.8-1.4m), BH119-22 (0.8-1.4m) and MW125-22 (4.6-5.2m). A deeper sample could not be collected from borehole BH121-22 as this borehole was terminated at refusal on the presumably concrete base of the former in-ground pool.

Groundwater Sampling and Analysis Results

The measured depth to groundwater in the five environmental monitoring wells was between 1.27m to 2.48m bgs. The shallow groundwater flow direction based on water levels from the five environmental monitoring wells was inferred to be south-southeasterly.

The groundwater analytical results were below the 2011 Table 1 SCSs for all of the analyzed parameters, with the exception of nickel at monitoring well MW104-22; chromium, copper and vanadium at monitoring well MW122-22; nickel at monitoring well MW123-22; and chromium, copper, molybdenum and vanadium at monitoring well MW124-22. The groundwater analytical results were also above the 2011 Table 6 ICC SCSs for chromium at monitoring well MW122-22 and vanadium at monitoring well MW124-22.

MTE resampled three of these wells in May 2022 and the concentration of metals was below the Table 6 ICC SCSs at MW122-22, MW123-22 and MW124-22. It is noted that copper and vanadium at monitoring well MW124-22 was still above the Table 1 SCS and nickel at monitoring well MW104-22; however, these monitoring wells, not located within 30m of an Area of Natural Significance, are located within an area of the Site where the 2011 Table 6 ICC SCSs apply.

Metals (chromium, copper, nickel, molybdenum and vanadium) are not interpreted to be contaminants in groundwater; however, the collection of an additional groundwater sample for analysis of metals from the two wells (MW122-22 and MW124-22), where concentrations of metals were initially above Table 6 ICC SCS), are required to determine whether concentrations of metals meet the Table 6 ICC SCSs.

Conclusions

Impacted surficial soil (i.e. above the 2011 Table 6 ICC SCSs) was identified at SS103-22 (0.0-0.2m) located on the west side of the farmhouse in the location of the potential (heating oil) fill location of the former basement AST. MTE recommends the excavation and off-Site disposal of impacted soils in the vicinity of SS103-22.

Pending the analytical results of the third round of groundwater samples from MW122-22 and MW124-22, the concentrations of the analyzed soil and groundwater samples are considered to meet the applicable 2011 Table 1 SCSs or 2011 Table 6 ICC SCSs. It is noted that Table 1 SCSs are applied to areas within 30m of the Areas of Natural Significance.

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1.0 Introduction

1.1 Background

MTE Consultants Inc. (MTE) was retained by Tribal Partners Canada Inc. to conduct a Phase II Environmental Site Assessment (ESA) for the property located at municipal address 12861 Dixie Road in Caledon, Ontario (the "Site"). The Site location is illustrated on **Figure 1**.

The purpose of the Phase II ESA was to further assess potential environmental concerns identified in a Phase I ESA prepared by MTE (MTE, 2022) of the Site. The Phase II ESA was completed for due diligence purposes in advance of a potential property transaction and not to support the filing of an Ontario Ministry of Environment, Conservation and Parks (MECP) Record of Site Condition (RSC) under Ontario Regulation (O.Reg.) 153/04. MTE understands that Tribal Partners Canada Inc. is considering to purchase the Site for redevelopment as industrial use.

Authorization to proceed with the Phase II ESA was received from Mr. Lance Trumble of Tribal Partners following acceptance of MTE's proposal for services dated March 1, 2022. The assignment was completed by MTE under Reference Number 50996-100.

The Phase II ESA report is organized into the following sections:

- Section 1.0 - Introduction;
- Section 2.0 - Phase II ESA Investigation Methodology;
- Section 3.0 - Phase II ESA Results;
- Section 4.0 - Summary and Conclusions; and
- Section 5.0 to 7.0 - Limitations, References and Assessor Qualifications.

Analytical data summary tables, report figures and appendices follow the text portion of the report.

It is noted that the Ontario Ministry of the Environment, Conservation and Parks (MECP) was previously named the Ontario Ministry of the Environment (MOE), the Ministry of Environment and Energy (MOEE) and the Ontario Ministry of the Environment and Climate Change (MOECC). For ease of discussion in this report, "MECP" is used to represent this provincial ministry and is inclusive of MOE, MOEE and MOECC.

For ease of discussion, all directions in this Phase II ESA report are in reference to project north as depicted on **Figure 2a**.

1.2 General Site Description and History

The Site is approximately 58.3 hectares (144.1 acres) in area and is located on the southeast corner of Dixie Road and Old School Road in an agricultural area of Caledon. The Site is an active agricultural property. Structures are located in the west-central portion of the Site and include:

- A two-storey dwelling (farmhouse);
- A single storey storage shed utilized for farming implement and hay storage;
- A single storey workshop building;
- Two-storey barn and a single storey barn currently utilized for animal husbandry (cattle);
- A single storey barn currently utilized for general farming supplies and hay storage;

- A fire pit area;
- Five grain silos/bins;
- A concrete enclosure utilized for storing corn husk;
- A small shed housing the water meter for the municipal water service to the Site; and
- A trailer currently vacant that was formerly utilized to house chickens.

The remainder of the Site is occupied by agricultural fields, grass areas, and gravel and paved vehicle access driveways from Dixie Road. Other features on the Site include four surface water bodies on the Site including three watercourses and a pond.

The farmhouse and barn were reported to have been constructed on the Site in the late 1890s and early 1900s. The additional barns and workshop were constructed in the 1970s and 1980s. Historically, the Site has been used for growing crops and as a dairy farm.

1.3 Phase I ESA Results

The scope of work was developed based on the results of a Phase I ESA completed by MTE (MTE, 2022). The following potential environmental concerns were identified on the Site:

- The Site interviewee (current farmer) reported that no pesticides, herbicides or fertilizers have been stored on the Site during the period of their use (1974-present). When required, these materials were brought to the Site for immediate application to the fields. The Site has been a farm since the early 1970s and there is a potential that agricultural chemicals were historically stored at the Site.
- A review of 1877 Peel Region Historical Map identified an orchard, located north and west of the farmhouse, fronting Dixie Road. It is possible that pesticides might have been used in this area of the Site during this time.
- The farmhouse residential dwelling was reported to have historically been heated using a fuel oil fired furnace. A fuel oil aboveground storage tank (AST) was previously located in the basement of the building and was reported to have been removed from the Site in 1995. It is noted that the basement of this building was not accessible by MTE during the Phase I ESA Site visit.
- Six ASTs were observed during the Site reconnaissance, three of which are no longer in use, as follows:
    - A 450 litre (L) active dyed diesel AST located in the storage barn.
    - Two approximately 2,200L abandoned ASTs, unknown fuel type, were located adjacent the workshop building.
    - Three ASTs were located on a concrete pad to the north of the workshop building adjacent the gravel driveway, including:
        - A 1,360L active dyed diesel tank;
        - A 1,360L inactive dyed diesel tank; and
        - A 2,200L active dyed diesel tank.
- A former in-ground pool was located to the south of the farmhouse that was historically backfilled. The foundation/slab are reportedly still in place.

- Several shed buildings are located on the Site that have been used for the storage of farm equipment and machinery, including a pesticide spray truck. It is not known if equipment or vehicle repairs were conducted, or if equipment or vehicle repair chemicals were historically stored in these shed buildings.
- A fire pit, made using a steel barrel, is located at the central portion of the Site. There is a potential that shallow soils localized with the fire pit enclosure contain contaminants such as metals or polycyclic aromatic hydrocarbons (PAHs), which are produced as a by-product of combustion.
- Miscellaneous scrap metal stored throughout Site, specifically to the east of the workshop and to the east of the storage shed.
- Some fill materials may have been placed adjacent to the north and east of the storage barn. The source of the fill is not known.
- Septic system, lid located to the north of the farmhouse, bed location unknown, however, inferred to the west of the dwelling.
- A pole mounted transformer is located centrally on the Site east of the farmhouse and south of the southeast corner of the storage shed.

1.4 Scope of Work

The objective of this Phase II ESA was to assess the potential sources of contamination to the Site through the collection and analysis of soil and groundwater samples. The Phase II ESA was conducted in general accordance with CSA document Z769-00 (R2018) - Phase II Environmental Site Assessments. The scope of work was conducted concurrently with a geotechnical and hydrogeological investigation. The Phase II ESA scope of work included the following:

- Preparing a Site Specific Health & Safety Plan;
- Completing utility locates prior to any on-Site work, including retaining a private utility locator;
- Advancing 25 boreholes on the Site to depths of up to 14.3m below ground surface (bgs) concurrent with a geotechnical and hydrogeological investigation;
- Collecting 11 surface soil samples at depths of 0.0-0.5m bgs;
- Collecting soil samples from the boreholes and surface soil samples for laboratory analysis of one or more of metals, hydride forming metals (arsenic – As, antimony – Sb, and selenium – Se), cyanide (CN-), mercury (Hg), pH, organochlorine pesticides (OCs), polychlorinated biphenyl (PCBs), polycyclic aromatic hydrocarbons (PAHs), petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene, and xylenes (BTEX), and volatile organic compounds (VOCs);
- Completing 11 of the boreholes as groundwater monitoring wells, five for the environmental investigation and six for the hydrogeological investigation;
- Developing and purging nine monitoring wells and collecting field parameters including pH, electrical conductivity, and temperature during purging to determine when adequate purging was achieved. It is noted that four of the nine monitoring wells were initially only installed for hydrogeological investigation, but were utilized later on to enhance the site characterization program;

- Collection of groundwater samples for metals, As, Sb, Se, OCs, PHCs, BTEX and VOCs;
- Analysis of quality assurance/quality control (QA/QC) samples including approximately 10% of field duplicates;
- Collecting groundwater levels and elevation data to estimate the groundwater flow direction; and
- Interpreting and documenting the results of the Phase II ESA in this report supported by figures, photographs, and laboratory Certificates of Analysis.

The Phase II ESA report was completed by Ms. Alexandra Lee-Bun, C. Tech., and Mr. Kelvin Lee, P.Eng., M.Eng., QP_{ESA} of MTE. The qualifications of Ms. Lee-Bun and Mr. Lee are included in **Section 7.0**.

The soil and groundwater analyses were completed by Bureau Veritas of Mississauga, Ontario. Bureau Veritas is accredited by the Standards Council of Canada (SCC) in accordance with ISO/IEC 17025:2005 for the analyses completed during this Phase II ESA.

The borehole drilling and monitoring well installation work was completed by Tri-Phase Group (Tri-Phase) of Mississauga, Ontario. Tri-Phase is an MECP-licensed well contractor. Photographs taken at the time of the Phase II ESA are included in **Appendix A**.

1.5 Applicable Site Condition Standards

The analytical results for soil and groundwater samples collected by MTE during this Phase II ESA were compared to the Site Condition Standards (SCSs) in the MECP document *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, Ministry of the Environment, April 15, 2011*.

The analytical results were compared to the 2011 Table 1 Full Depth Background Site Condition Standards for non agricultural property use (2011 Table 1 SCSs) as a result of areas of the Site being designated in the Region of Peel Official Plan as “Core Areas of the Greenlands System”, and by the Ministry of Natural Resources and Forestry (MNRF) as “Woodland and Natural Heritage System”. These are considered Areas of Natural Significance.

The analytical results were also compared to the 2011 Table 6 Generic Site Condition Standards for Shallow Soils in a Potable Ground Water Condition for industrial/commercial/community property use and medium/fine textured soil (2011 Table 6 ICC SCSs), which could be applicable for due diligence purposes in areas of the Site that are greater than 30m from these Areas of Natural Significance.

The geological conditions were observed to consist of topsoil or fill materials (up to 0.8m) over native clayey silt till and silt till with some sand, sand and gravel and sand and silt seams. Particle size distribution analyses conducted during a concurrent geotechnical investigation (MTE, 2022) indicated that the on-site soils are predominantly medium/fine textured soils. The particle size distribution analyses are included in **Appendix C**.

2.0 Phase II ESA Investigation Methodology

2.1 Borehole Drilling and Surface Soil Sampling

The drilling activities included the advancement of 25 boreholes at the Site between April 8 and April 19, 2022. The borehole drilling was completed concurrent with an MTE geotechnical and hydrogeological investigation, which are documented in separate reports.

The environmental sampling locations are illustrated on **Figure 2** and included the following:

Sampling Location	Rationale
MW102-22, MW105-22, MW106-22, BH107-22, and BH110-22 to BH113-22, and BH115-22	• Assess general soil quality in the vicinity of the agricultural fields where agricultural chemicals (e.g., pesticides, herbicides, fungicides) may have been used.
MW116-22	• Assess general soil and groundwater quality in the vicinity of the on-Site building that is used as a storage barn building for farming equipment.
BH117-22	• Assess general soil quality in an area of the Site used for truck parking.
BH118-22	• Assess general soil quality for Site coverage within the area of Site occupied by farming structures.
BH119-22 and BH120-22	• Assess general soil quality in the vicinity of the on-Site building that is used as a storage shed for farming equipment including a pesticide spray truck.
BH121-22	• Assess general soil quality in the vicinity of the former in-ground pool which was historically backfilled with fill material of unknown quality.
MW122-22	• Assess general soil and groundwater quality in the vicinity of the on-Site building that is used as a storage shed for farming equipment and active dyed diesel AST.
MW123-22	• Assess general soil and groundwater quality in the vicinity of the two ASTs containing diesel and dyed diesel.
MW124-22	• Assess general soil and groundwater quality in the vicinity of the on-Site building that is used as a storage shed for farming equipment. • Assess general soil quality of a fill pile.
MW125-22	• Assess general soil and groundwater quality in the vicinity of the on-Site building that is used as a workshop (equipment maintenance and repairs) and two approximately 2,200L abandoned ASTs, unknown fuel type.
SS101-22	• Assess general soil quality in the vicinity of the fire pit.

Sampling Location	Rationale
SS102-22	• Assess general soil quality in the vicinity of the on-Site building that is used as a workshop (equipment maintenance and repairs).
SS103-22	• Assess general soil quality of fill material of unknown quality in the vicinity of the farmhouse, where fuel oil may have been stored and used for heating.
SS104-22 to SS106-22	• Assess general soil quality of on-Site fill piles.
SS107-22 to SS110-22	• Assess general soil quality within the former on-Site orchard.
SS111-22	• Assess general soil quality under an on-Site pole mounted transformer.

Boreholes BH117-22 to BH121-22 were advanced by Tri-Phase using a track mounted Geoprobe 7822DT direct push drill rig. All other boreholes were advanced by Tri-Phase using a track-mounted CME55 auger drill rig. Continuous and semi-continuous soil cores were recovered from each borehole location using split spoons (CME55) or macro-core samplers (Geoprobe) and logged by MTE for geological characteristics as well as visual and olfactory evidence of environmental impacts such as staining, odours or the presence of non-soil materials. New macro-core samplers were used for each sampling interval. Other sampling equipment (e.g. split spoons) were cleaned between locations using an Alconox and water solution and a tap water rinse to minimize the potential for cross contamination between boreholes. Borehole logs were prepared for each location and are included in **Appendix B**.

2.2 Soil Sampling

Soil samples were collected for field headspace screening and for potential laboratory analysis. Soil samples for BTEX, VOCs and F1 PHC analyses were collected following USEPA SW-846 Method 5035 (field methanol preservation). This soil sampling procedure included collecting approximately 5 grams of sample from the undisturbed soil core using a Terra Core™ sampling device and placing the sample in a laboratory supplied glass vial containing 5mL of methanol. Soil samples for other analysis including metals, As, Sb, Se, CN-, Hg, PCBs, OCs, PAHs and PHCs F2-F4 were collected directly from the soil core and placed into new laboratory supplied soil jars.

New nitrile gloves were worn during the handling of all samples, sampling equipment and sample jars and changed between each sample.

2.3 Field Headspace Screening

A portion of the soil samples selected for field headspace screening were placed into a new zip-top plastic bag for field headspace screening. The organic vapour concentrations in the headspace of each soil sample were measured using an RKI Eagle II field meter. The RKI Eagle II is a combination hydrocarbon detector and a Photo Ionization Detector (PID), providing an indication of both hydrocarbon and VOC vapours. Equipment calibration and maintenance

was performed by MTE according to the manufacturers' recommendations prior to arriving at the Site and in the field to ensure proper operation.

The procedure for collection of field headspace measurements included waiting approximately 15 minutes for the soil/vapour in the zip-top plastic bag to equilibrate and allow for headspace development, and inserting the RKI Eagle II sampling probe into a small opening in the bag. The maximum meter readings were recorded. The field headspace readings are summarized on the borehole logs in **Appendix B**.

2.4 Monitoring Well Installation

Eleven monitoring wells were installed at borehole locations MW101-22 to MW106-22, MW116-22 and MW122-22 to MW125-22 by Tri-Phase between April 8 and April 19, 2022. MTE was present during the monitoring well installations to record and document the well construction details. The monitoring wells were constructed with a 0.9m, 1.5m or 3.0m long, 51mm diameter, No. 10 slotted PVC screen. All monitoring well materials were new and were received sealed in a protective plastic wrap from the manufacturer. The riser pipe and screen sections were pre-threaded with O-ring seals. No glues or solvents were used to connect the pipe sections and nitrile gloves were worn during all work with the monitoring wells.

A coarse grained sand pack was placed around and above the well screens to allow for groundwater collection in the wells. Bentonite (holeplug) was placed immediately above the sand pack to hydraulically isolate the screened portion of the well. The monitoring wells were completed with a monument, steel protective casing, which was cemented in place. MECP Well Records were filed by Tri-Phase in accordance with O. Reg. 903/90. The monitoring well installation details are summarized in **Table 1**.

2.5 Groundwater Level Measurement

The depth to groundwater was measured in each of the eleven new wells using an interface probe on April 27, 2022. The water levels were measured by lowering the probe into the well until the tone sounded and recording the depth to water from the highest point on the well riser pipe (the groundwater level measuring reference point). Measurements were recorded to the nearest 0.01m. The probe was cleaned with successive rinses of soapy and distilled water between each well. Groundwater level measurements are summarized in **Table 2**.

2.6 Groundwater Sample Collection

Groundwater samples were collected from nine monitoring wells (MW102-22, MW103-22, MW104-22, MW106-22, MW116-22, MW122-22, MW123-22, MW124-22 and MW125-22,) during this Phase II ESA. It is noted that four of the nine monitoring wells were initially only installed for hydrogeological investigation, but were utilized later on to enhance the site characterization program. After installation, the monitoring wells were developed to remove stagnant water and fine grain materials that may have been introduced during drilling. Prior to collecting groundwater samples, the monitoring wells were purged to obtain groundwater samples representative of the surrounding formation. During purging, field parameter measurements (temperature, pH and conductivity) were recorded after each well each well volume. Groundwater samples were collected after stabilized parameters had been measured and a minimum of three well volumes had been removed.

All groundwater samples were placed directly into pre-preserved laboratory supplied bottles. Groundwater samples collected for analysis of metals were field filtered with a single-use 0.45 micron filter. Well development was completed using dedicated HDPE waterra tubing and a foot valve. Purging and sampling were completed using dedicated LDPE tubing and a peristaltic pump.

2.7 Sample Storage Handling and Custody

Soil and groundwater samples were labelled, given a unique sample identifier and placed in a sealed cooler with ice for transportation to Bureau Veritas. The samples were transported directly to the laboratory by MTE and accompanied by a Chain of Custody form.

2.8 Quality Control/Quality Assurance

A QA/QC program was implemented during this Phase II ESA to demonstrate that the data collected was representative of the Site conditions and suitable to meet the sampling program objectives. The QA/QC program included field QA/QC procedures and laboratory QA/QC procedures.

Field QA procedures included:

- Adherence to MTE's standard operating procedures (SOPs), which meet industry standards and MECP guidance for field sample data collection;
- The use of new laboratory-supplied sample containers;
- The use of new and dedicated sampling equipment;
- The wearing of a new pair of nitrile gloves during and between the handling of all samples and field equipment; and
- Implementing equipment cleaning procedures.

Laboratory QA/QC procedures were implemented internally by the laboratory and validated through a review of the sample Chain-of-Custody forms and Laboratory Certificates of Analysis. The laboratory QA/QC assessment included a review of the following:

- Sample holding times and arrival temperatures;
- Laboratory analytical methods (i.e., MECP approved methods were used);
- Results were received for all of the requested samples and analyses;
- Laboratory surrogate recovery and spike sample results;
- Dilution factors and method detection limits;
- Duplicate sample analytical results;
- Laboratory Certificate of Analysis notes; and
- Analytical results as compared to visual/olfactory observations.

QC samples (field duplicates) were also submitted for analysis. The analytical data precision was assessed by calculating the Relative Percent Difference (RPD) between the investigation sample results (C1) and the field duplicate sample results (C2). The RPD was calculated as follows:

$$RPD = 2 | C1-C2 | / (C1 + C2) \times 100\%$$

The RPD acceptance criteria were 50% for soil samples and 30% for groundwater.

3.0 Phase II ESA Results

3.1 Geology and Hydrogeology

3.1.1 Geology

The subsurface stratigraphy on the Site generally consisted of topsoil (up to 0.8m) and/or fill materials (up to 2.7m) over primarily native clayey silt till with trace to some sand and gravel, silt till, silty sand till and sandy silt till seams. Bedrock was not encountered to the maximum drilling depth of 15.2m. It is noted that the fill materials at the Site generally extended to approximately 1.5m bgs, with the exception of borehole BH121-22 where fill material extended to 2.7m bgs. Borehole BH121-22 is located within the former in-ground pool.

No visual or olfactory evidence to suggest potential contamination was noted in soil during drilling activities, and no elevated soil headspace readings were recorded.

Copies of the borehole logs illustrating the stratigraphy and soil sample headspace readings are included in **Appendix B**.

3.1.2 Hydrogeology

The depths to groundwater in the 11 monitoring wells across the Site were measured on April 27, 2022 and ranged from 0.28m to 9.97m bgs. In the west central portion of the Site (i.e., where the structures are located), the depth to groundwater in the five of the nine environmental monitoring wells (the five initial environmental monitoring wells), ranged from 1.27m to 2.48m bgs. The measured groundwater levels and elevations are summarized in **Table 2**. The shallow groundwater flow direction based on levels from the five environmental monitoring wells was inferred to be south-southeasterly.

The groundwater flow conditions across the Site will be further evaluated in a separate Hydrogeological Investigation completed by MTE, which will be documented in a separate report.

3.2 Soil Analytical Results

Soil samples were collected from across the Site and submitted for laboratory analysis of one or more of metals, As, Sb, Se, CN-, Hg, pH, PCBs, OCs, PAHs, PHCs, BTEX and VOCs. The soil analytical results as compared to the 2011 Table 1 SCSs and 2011 Table 6 ICC SCSs are summarized in **Table 3** to **Table 8**. The laboratory Certificates of Analysis are included in **Appendix C**.

The following is a summary of the results:

- The results of the field screening did not identify elevated vapour measurements for total hydrocarbons (<25ppm) or VOCs (<5ppm) in collected soil samples.
- The soil analytical results were below the 2011 Table 1 SCSs for all of the analyzed parameters, with the exception of the following samples:
  - Antimony in surface soil sample SS101-22 (0.0-0.2m), which was located within the fire pit and former orchard area;
  - PHC F3-F4 in a shallow soil sampled collected from boreholes MW116-22 (0.0-0.6m), BH117-22 (0.0-0.5m), BH119-22 (0.0-0.5m) and MW125-22 (0.0-0.6m), which were located in the areas of the farming structures.
  - PHC F4 in two samples of soil fill collected from borehole BH121-22 (0.8-1.4m and 1.5-2.1m), which were located within the former in-ground pool; and

  - Lead, zinc and PHC F3-F4 in a surface soil sample collected from SS103-22 (0.0-0.2m), which was located on the west side of the farmhouse; a potential fill location of the former basement AST.

- The soil analytical results that are also above the 2011 Table 6 ICC SCSs include lead, zinc and PHC F3 in surface soil sample SS103-22 (0.0-0.2m).

The vertical extent of these parameters was delineated based on the analytical results for deeper soil samples at each location including SS101-22 (0.3-0.5m), SS103-22 (0.3-0.5m), MW116-22 (1.5-2.1m), BH117-22 (0.8-1.4m), BH119-22 (0.8-1.4m) and MW125-22 (4.6-5.2m). A deeper sample could not be collected from borehole BH121-22 as this borehole was terminated at refusal on the presumably concrete base of the former in-ground pool. The soil analytical results are illustrated on **Figure 4** (Metals and Other Regulated Parameters) and **Figure 5** (Petroleum Hydrocarbons).

3.3 Groundwater Analytical Results

No visual or olfactory evidence to suggest groundwater contamination (e.g. odours, discolouration, sheen or separate-phase liquids) was observed during the groundwater sampling activities.

Groundwater samples were collected and submitted for laboratory analysis of one or more of metals, hydride forming metals (As, Sb and Se), OCs, PHCs, BTEX and VOCs. The analytical results are summarized in **Table 9** to **Table 12** and were compared to the 2011 Table 1 SCSs and 2011 Table 6 ICC SCSs. The laboratory Certificate of Analyses are included in **Appendix C**.

The following is a summary of the results:

- The groundwater analytical results were below the 2011 Table 1 SCSs for all of the analyzed parameters, with the exception of the following samples:
  - Nickel in a sample collected at monitoring well MW104-22, which is located in close proximity to the tributary of West Humber River in southwest portion of the Site;
  - Chromium, copper and vanadium in a sample collected at monitoring well MW122-22, which is located south of the storage shed and the AST;
  - Nickel in a sample collected at monitoring well MW123-22, which is located in the vicinity of the ASTs; and
  - Chromium, copper, molybdenum and vanadium in a sample collected at monitoring well MW124-22, which is located north of the storage shed and in vicinity of the fill pile.
- The groundwater analytical results that are also above the 2011 Table 6 ICC SCSs include chromium at monitoring well MW122-22 and vanadium at monitoring well MW124-22.
- MTE resampled three of these wells in May 2022 and the concentration of metals was below the Table 6 ICC SCSs at MW122-22, MW123-22, and MW124-22. It is noted that copper and vanadium at monitoring well MW124-22 was still above the Table 1 SCS; however, this monitoring well, not located within 30m of an Area of Natural Significance, is located within an area of the Site where the 2011 Table 6 ICC SCSs apply.

3.4 Quality Assurance/Quality Control

A QA/QC program was implemented during this Phase II ESA to demonstrate that the data collected was suitable to meet the sampling program objectives. The following is a summary of the QA/QC review:

- Soil and groundwater samples were collected using industry standard methods in laboratory supplied containers, and transported in insulated coolers containing ice under Chain-of-Custody to the laboratory. No concerns with respect to sample collection, handling and control were noted.
- Bureau Veritas noted that the average temperature of two sample submissions upon receipt were above 10ºC. The soil samples, submitted for metals, hydride metals, cyanide, and OCs analysis, were placed on ice after sample collection and while transported to the lab. The groundwater samples, submitted for metals and hydride metals analysis, were placed on ice after sample collection and while transported to the lab on the same date. As a result, the elevated temperature measurement is not anticipated to pose a significant concern to the data quality.
- All samples were analyzed by the laboratory using MECP approved analytical methods and within the required holding times.
- Analytical results were received for all samples submitted for analysis. No concerns were noted with respect to lab internal quality indicators (e.g., surrogate recovers) or Certificate of Analysis notes.

MTE submitted a field duplicate soil sample from borehole BH111-22 for analysis of metals, As, Sb, Se, OCs and borehole BH117-22 for analysis of metals, As, Sb, Se, PHCs and BTEX and a field duplicate groundwater sample from monitoring well MW116-22 for analysis of metals, As, Sb and Se. The calculated RPDs for the original and duplicate samples were less than 50% (for soil) and 30% (for groundwater) for all parameters where a calculation could be completed, with the exception of the groundwater sample from monitoring well MW116-22 and its duplicate for copper.

The analytical results for groundwater sample MW116-22 and its duplicates were both below the 2011 Table 1 SCSs and were not considered to be a concern for data quality and did not affect the interpretation of the results.

The results indicate generally acceptable precision for soil and groundwater duplicates and no data qualifiers are required. Where there is a difference between the original and duplicate sample, the highest result will be considered in this Phase II ESA.

The data validation process also included a detailed review of the analytical data set by the QP_{ESA}. The results of the review identified an elevated laboratory reportable detection limit (RDL) (i.e., above the 2011 Table 1 SCSs) for one parameter of OCs in groundwater due to matrix interference. The RDL for OCs in groundwater sample from monitoring well MW125-22 was raised by the laboratory and was above the 2011 Table 1 SCS, but below the 2011 Table 6 ICC SCS. There were no detections or exceedances of OCs in any of the soil or groundwater analyzed from across the Site. As such, this groundwater sample result with elevated RDLs for OCs was not considered to be representative of actual groundwater concentrations at the Site and was R-qualified (rejected) in the data tables and this result was not used in the evaluation of groundwater quality. In addition, monitoring well MW125-22 is located within an area of the Site where the 2011 Table 6 ICC SCSs apply.

4.0 Summary and Conclusions

MTE was retained by Tribal Partners Canada Inc. to conduct a Phase II ESA for the property located at municipal address 12861 Dixie Road in Caledon, Ontario. The scope of work for the Phase II ESA was developed based on the results of the Phase I ESA completed by MTE (MTE, 2022) of the Site, which identified potential environmental concerns at the Site and within the Study Area.

Soil Sampling and Analysis Results

The subsurface stratigraphy on the Site generally consisted of topsoil (up to 0.8m) and/or fill materials (up to 2.7m) over primarily native clayey silt till with trace to some sand and gravel, silt till, silty sand till and sandy silt till seams. Bedrock was not encountered to the maximum drilling depth of 15.2m. It is noted that the fill materials at the Site generally extended to approximately 1.5m bgs, with the exception of borehole BH121-22 where fill material extended to 2.7m within the former in-ground pool.

- The soil analytical results were below the 2011 Table 1 SCSs for all of the analyzed parameters, with the exception of the following samples:
  - Antimony in surface soil sample SS101-22 (0.0-0.2m), which was located within the fire pit and former orchard area;
  - PHC F3-F4 in a shallow soil sampled collected from boreholes MW116-22 (0.0-0.6m), BH117-22 (0.0-0.5m), BH119-22 (0.0-0.5m) and MW125-22 (0.0-0.6m), which were located in the areas of the farming structures.
  - PHC F4 in two samples of soil fill collected from borehole BH121-22 (0.8-1.4m and 1.5-2.1m), which were located within the former in-ground pool; and
  - Lead, zinc and PHC F3-F4 in a surface soil sample collected from SS103-22 (0.0-0.2m), which was located on the west side of the farmhouse; a potential fill location of the former basement AST.
- The soil analytical results that were also above the 2011 Table 6 ICC SCSs include lead, zinc and PHC F3 in surface soil sample SS103-22 (0.0-0.2m).

The vertical extent of these parameters was delineated based on the analytical results for deeper soil samples at each location including SS101-22 (0.3-0.5m), SS103-22 (0.3-0.5m), MW116-22 (1.5-2.1m), BH117-22 (0.8-1.4m), BH119-22 (0.8-1.4m) and MW125-22 (4.6-5.2m). A deeper sample could not be collected from borehole BH121-22 as this borehole was terminated at refusal on the presumably concrete base of the former in-ground pool.

Groundwater Sampling and Analysis Results

The measured depth to groundwater in the five environmental monitoring wells was between 1.27m to 2.48m bgs. The shallow groundwater flow direction based on water levels from the five environmental monitoring wells was inferred to be south-southeasterly.

The groundwater analytical results were below the 2011 Table 1 SCSs for all of the analyzed parameters, with the exception of nickel at monitoring well MW104-22; chromium, copper and vanadium at monitoring well MW122-22; nickel at monitoring well MW123-22; and chromium, copper, molybdenum and vanadium at monitoring well MW124-22. The groundwater analytical results were also above the 2011 Table 6 ICC SCSs for chromium at monitoring well MW122-22 and vanadium at monitoring well MW124-22.

MTE resampled three of these wells in May 2022 and the concentration of metals was below the Table 6 ICC SCSs at MW122-22, MW123-22 and MW124-22. It is noted that copper and vanadium at monitoring well MW124-22 was still above the Table 1 SCS and nickel at monitoring well MW104-22; however, these monitoring wells, not located within 30m of an Area of Natural Significance, are located within an area of the Site where the 2011 Table 6 ICC SCSs apply.

Metals (chromium, copper, nickel, molybdenum and vanadium) are not interpreted to be contaminants in groundwater; however, the collection of an additional groundwater sample for analysis of metals from the two wells (MW122-22 and MW124-22), where concentrations of metals were initially above Table 6 ICC SCS), are required to determine whether concentrations of metals meet the Table 6 ICC SCSs.

Conclusions

Impacted surficial soil (i.e. above the 2011 Table 6 ICC SCSs) was identified at SS103-22 (0.0-0.2m) located on the west side of the farmhouse in the location of the potential (heating oil) fill location of the former basement AST. MTE recommends the excavation and off-Site disposal of impacted soils in the vicinity of SS103-22.

Pending the analytical results of the third round of groundwater samples from MW122-22 and MW124-22, the concentrations of the analyzed soil and groundwater samples are considered to meet the applicable 2011 Table 1 SCSs or 2011 Table 6 ICC SCSs. It is noted that Table 1 SCSs are applied to areas within 30m of the Areas of Natural Significance.

5.0 Limitations

Services performed by **MTE Consultants Inc. (**MTE**)** were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the Environmental Engineering & Consulting profession. No other warranty or representation expressed or implied as to the accuracy of the information, conclusions or recommendations is included or intended in this report.

This report was completed for the sole use of MTE and Tribal Partners Canada Inc. It was completed in accordance with the Scope of Work referred to in Section 1.4. As such, this report may not deal with all issues potentially applicable to the Site and may omit issues, which are or may be of interest to the reader. Reasonable care was exercised to identify the important features, including the important environmental features, and this report addresses only those features as provided in the Scope of Work. All findings and conclusions presented in this report are based on the Site conditions as they existed during the time period of the investigation. This report is not intended to be exhaustive in scope or to imply a risk-free facility or conditions.

Any use which a third party makes of this report, or any reliance on, or decisions to be made based upon it, are the responsibility of such third parties. MTE accepts no responsibility for liabilities incurred by or damages, if any, suffered by any third party as a result of decisions made or actions taken, based upon this report. Others with interest in the Site should undertake their own investigations and studies to determine how or if the condition affects them or their plans.

It should be recognized that the passage of time may affect the views, conclusions and recommendations (if any) provided in this report because environmental conditions of a property can change. Should additional or new information become available, MTE recommends that it be brought to our attention in order that we may re-assess the contents of this report.

All of which is respectfully submitted,

MTE Consultants Inc.

for: Alexandra Lee-Bun, B.A., C.Tech.
Environmental Scientist
905-639-2552- ext. 2482
alee-bun@mte85.com

Kelvin Lee, P.Eng., M.Eng. QP$_{ESA}$
Senior Environmental Engineer
905-639-2552 ext. 2418
klee@mte85.com

AAL:axd
M:\50996\100\Phase II ESA\Report\50996-100 Phase II ESA 12861 Dixie Road, Caledon (FINAL).docx

6.0 References

1. Canadian Standards Association, December 2000, Z769-00 (R2013) Phase II Environmental Site Assessments.
2. MTE Consultants Inc., April 25, 2022. Phase I Environmental Site Assessment, 12861 Dixie Road, Caledon, ON.
4. Ontario Ministry of the Environment; May 1996. MOE Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario.
5. Ontario Ministry of the Environment, April 15, 2011, Rationale For the Development of Soil and Ground Water Standards For Use at Contaminated Sites in Ontario.
6. Ontario Ministry of the Environment, April 15, 2011, Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act.
7. USEPA, December 1996, SW-846 Method 5035 Closed-system Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste.
7. USEPA, 2013, Operating Procedure SESDPROC-301-R3 “Sampling Guidance”.

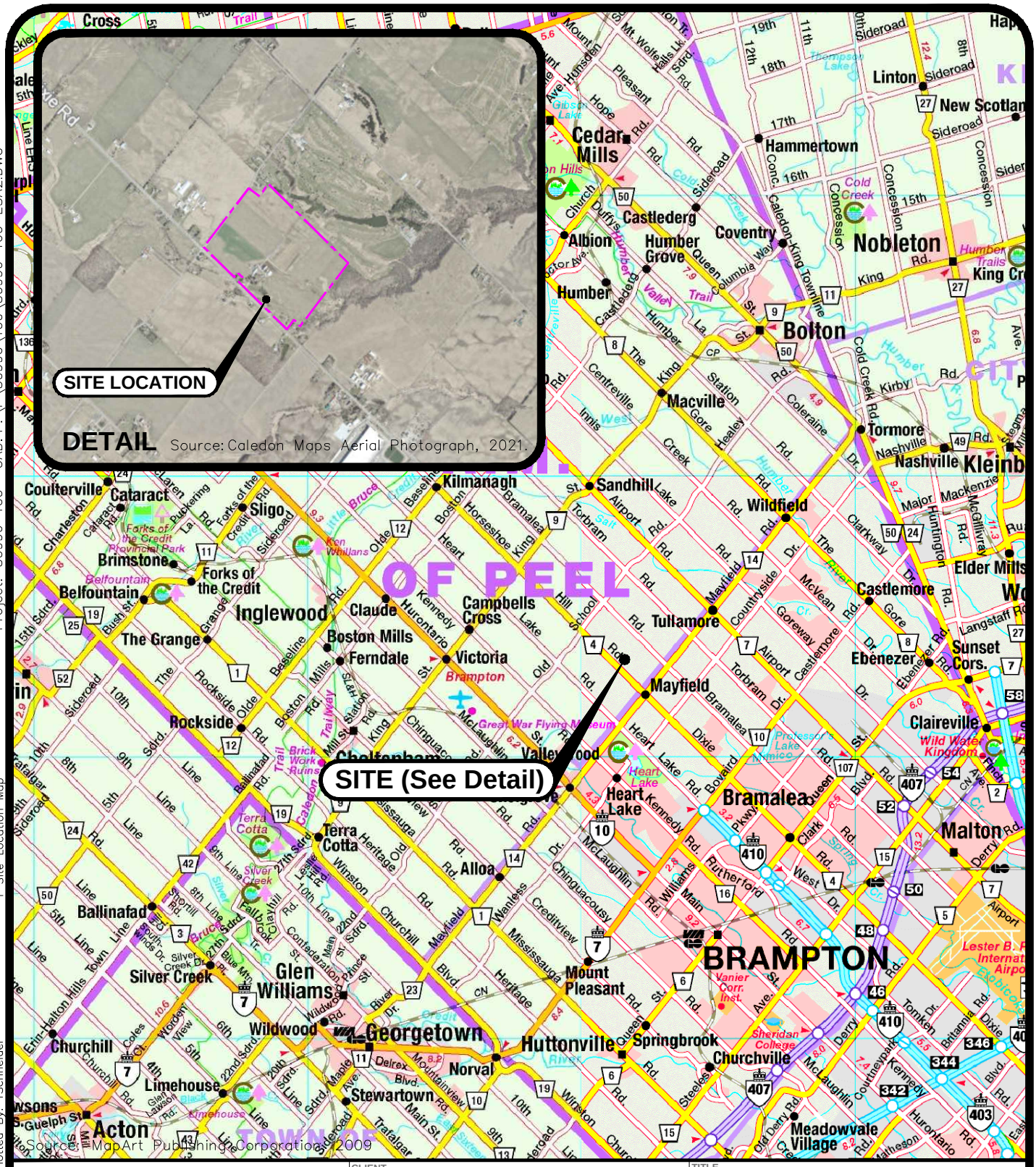
7.0 Qualifications of Assessors

As required by CSA Standard Z768-01, Clause 3.4, an appropriate combination of formal education, skills, experience and training is required in order to provide a technically sound and rational Phase I ESA. The key participants involved in performing the components of the Phase I ESA are Mr. Kelvin Lee, P. Eng., M.Eng., QP_{ESA} and Ms. Alexandra Lee-Bun, B.A., C.Tech. of MTE Consultants Inc.

Mr. Lee is a graduate of the University of Toronto with a Master of Chemical Engineering degree. He also has an Undergraduate degree in Chemical Engineering from McMaster University. Mr. Lee is a Senior Environmental Engineer at MTE with over 13 years of environmental consulting experience across Canada and USA. Mr. Lee is a licensed Professional in the provinces of Ontario and a Qualified Person for Environmental Site Assessment as defined in O.Reg. 153/04. His technical experience includes conducting and managing Phase I and II environmental site assessments, remediation, risk management plan, fill management, and filing of Records of Site Condition.

Ms. Lee-Bun is a graduate of the University of Toronto with a Bachelors of Arts in Environmental Studies. She also obtained an Ontario College Certificate in Environmental Engineering – Environmental Techniques from Georgian College. Ms. Lee-Bun has eleven years of experience in the environmental consulting industry and has conducted numerous due diligence Phase I and II Environmental Site Assessments, Ontario Regulation 153/04 (as amended) Phase One and Two Environmental Site Assessments, and a variety of soil and groundwater remediation projects.

Figures



Project: 50996-100 CAD: P:\50996\100\50996-100-ESA2.DWG

1 Site Location Map

Plotted By: TSchneider — 12:07 AM — May 5, 2022

MTE
Engineers, Scientists, Surveyors
Ph. (905) 639-2552

0 2 4 6 8 10km
Scale(8.5x11): 1:200 000

CLIENT: Tribal Partners

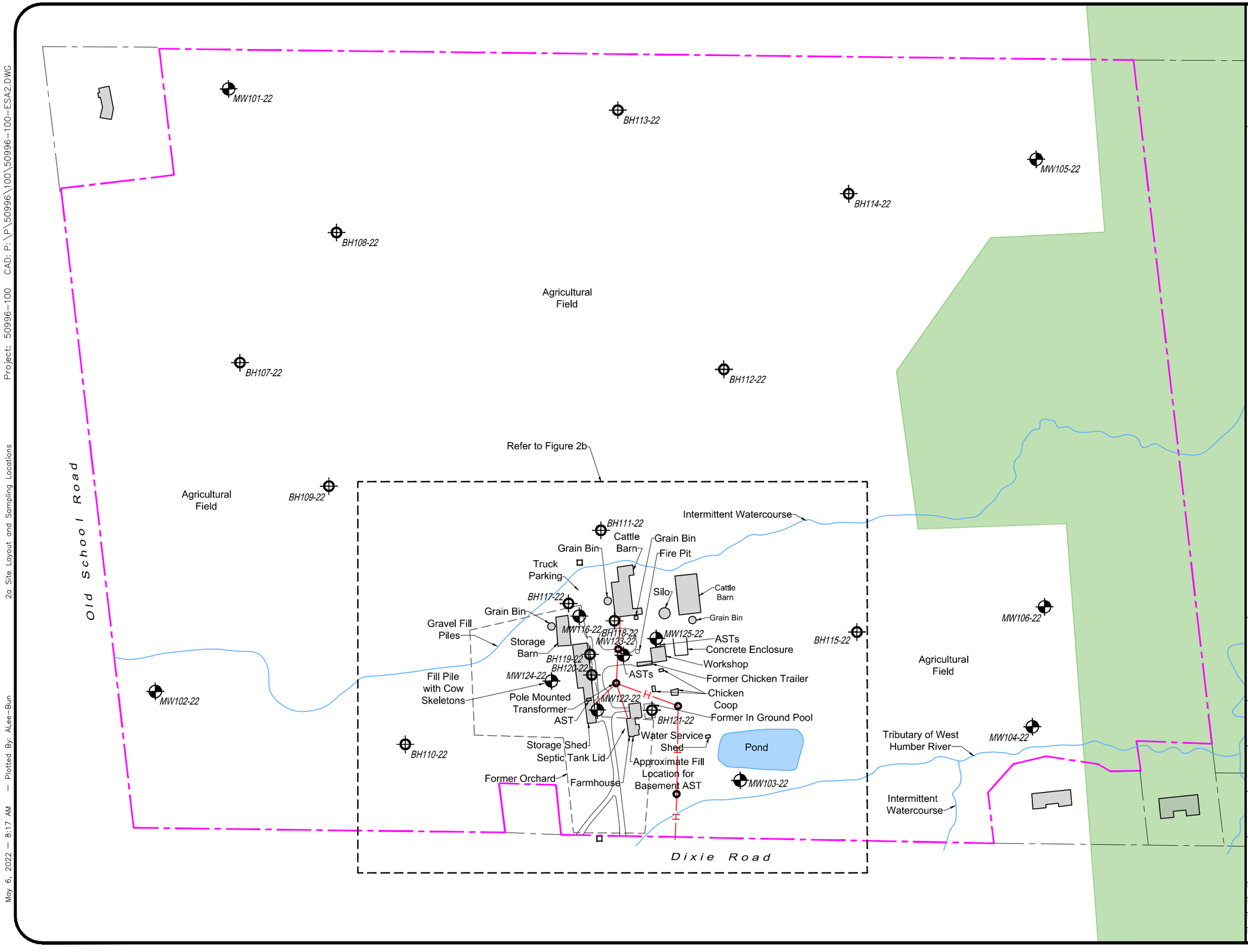
PROJECT: Phase II ESA

SITE: 12861 Dixie Road
Caledon, ON

TITLE: **Site Location Map**

Reviewed By	KCL
Prepared By	MFG
Drawn By	TXS
Date	April 2022
Project No.	50996-100
Figure No.	1

N
NORTH



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CLIENT
Tribal Partners Canada Inc.

PROJECT
Phase II ESA

SITE
12861 Dixie Road
Caledon, ON

TITLE
Site Location and Sampling Locations

Reviewed By	KCL		
Prepared By	MFG	Project No.	50996-100
Drawn By	TXS	Figure No.	2a
Date	May 2022		

Project: 50996-100 CAD: P:\50996\100\50996-100-ESA2.DWG
2b Site Layout and Sampling Locations — Plotted By: ALee-Bun
May 6, 2022 — 8:17 AM

Intermittent Watercourse
BH111-22
Truck Parking
Grain Bin
Cattle Barn
Silo
Cattle Barn
Grain Bin
BH117-22
MW116-22
Cattle Barn
BH118-22
Grain Bin
Grain Bin
SS107-22
Gravel Fill Piles
MW125-22
ASTs
BH115-22
Storage Barn
ASTs
Fire Pit
Concrete Enclosure
SS104-22
BH119-22
SS101-22
SS102-22
MW123-22
Workshop
Former Chicken Trailer
SS105-22
SS106-22
BH120-22
Chicken Coop
SS111-22
Fill Pile with Cow Skeletons
MW124-22
Pole Mounted Transformer
AST
MW122-22
BH121-22
Former In Ground Pool
SS108-22
SS109-22
Water Service Shed
Storage Shed
Septic Tank Lid
SS103-22
Pond
BH110-22
Farmhouse
Approximate Fill Location for Basement AST
Former Orchard
MW103-22
Tributary of West Humber River
SS110-22
Dixie Road

NORTH
PROJECT NORTH

LEGEND
- Property Line
- Adjoining Property Line
- Existing Building
- Catch Basin
- Hydro Pole
- Overhead Hydro Line
- Monitoring Well
- Borehole
- Soil Sample

0 12.5 25 37.5 50 62.5m
Scale(11x17): 1:1250

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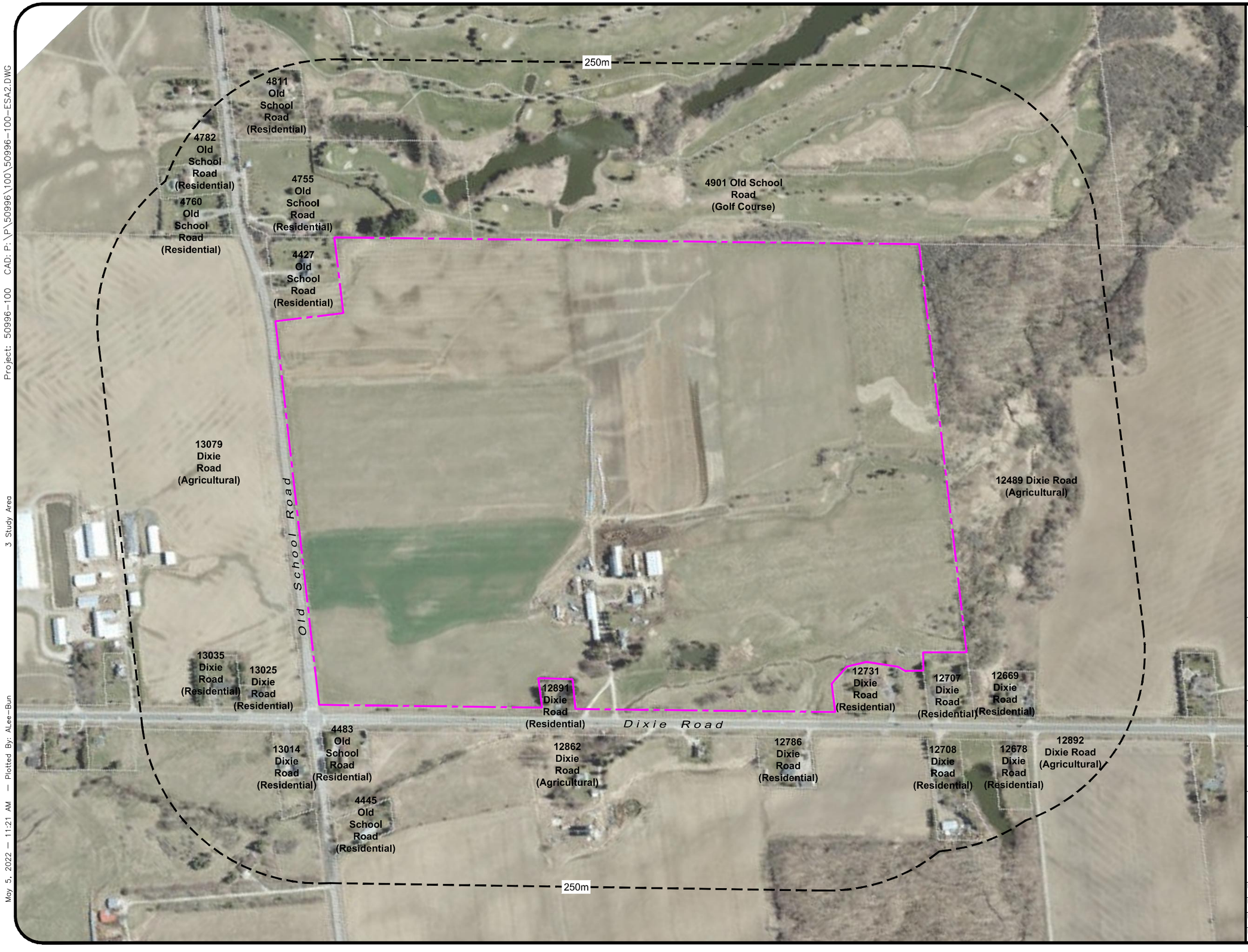
CLIENT
Tribal Partners Canada Inc.

PROJECT
Phase II ESA

SITE
12861 Dixie Road
Caledon, ON

TITLE
Site Location and Sampling Locations

Reviewed By	KCL		
Prepared By	MFG	Project No.	50996-100
Drawn By	TXS	Figure No.	2b
Date	May 2022		



NORTH

PROJECT NORTH

LEGEND

Property Line

0 50 100 150 200 250m

Scale(11x17): 1:5000

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PROJECT

Phase II ESA

SITE

12861 Dixie Road
Caledon, ON

TITLE

Study Area

Reviewed By	KCL		
Prepared By	MFG	Project No.	50996-100
Drawn By	TXS	Figure No.	3
Date	May 2022		

Project: 50996-100 CAD: P:\P\50996\100\50996-100-ESA2.DWG

3 Study Area — Plotted By: ALee-Bun — May 5, 2022 — 11:21 AM

MW101-22

0.0-0.3
BH113-22

MW105-22
0.0-0.6

BH114-22

BH108-22

Agricultural
Field

BH107-22
0.0-0.3

0.0-0.3
BH112-22

Refer to Figure 4b

Old School Road

Agricultural
Field

BH109-22

Intermittent Watercourse

BH111-22
Cattle
Barn
Grain Bin
Grain Bin
Fire Pit
Truck
Parking
Silo
Cattle
Barn
Grain Bin
BH117-22
Grain Bin
Gravel Fill
Piles
MW116-22
BH118-22
MW123-22
MW125-22
ASTs
Concrete Enclosure
Storage
Barn
BH119-22
BH120-22
Workshop
Former Chicken Trailer
ASTs
MW124-22
Fill Pile
with Cow
Skeletons
Pole Mounted
Transformer
AST
MW122-22
Chicken
Coop
BH121-22
Former In Ground Pool
Water Service
Shed
Storage Shed
Septic Tank Lid
Pond
Approximate Fill
Location for
Basement AST
Former Orchard
Farmhouse
MW103-22

BH115-22

MW102-22
0.0-0.5

BH110-22

MW106-22
0.0-0.6

Agricultural
Field

Tributary of West
Humber River

MW104-22

Intermittent
Watercourse

Dixie Road

Parameters	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)
Antimony	1.3	50
Lead	120	120
Zinc	290	340

N NORTH

N PROJECT NORTH

LEGEND

- Property Line
- Adjoining Property Line
- Existing Building
- Catch Basin
- Hydro Pole
- H Overhead Hydro Line
- Monitoring Well
- Borehole
- MNRF Woodland
- Sample Exceeds Applicable SCS
- Sample Meets Applicable SCS
- 1.20-1.40 Sample Depth

0 30 60 90 120 150m
Scale(11x17): 1:3000

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Ph. (905) 639-2552

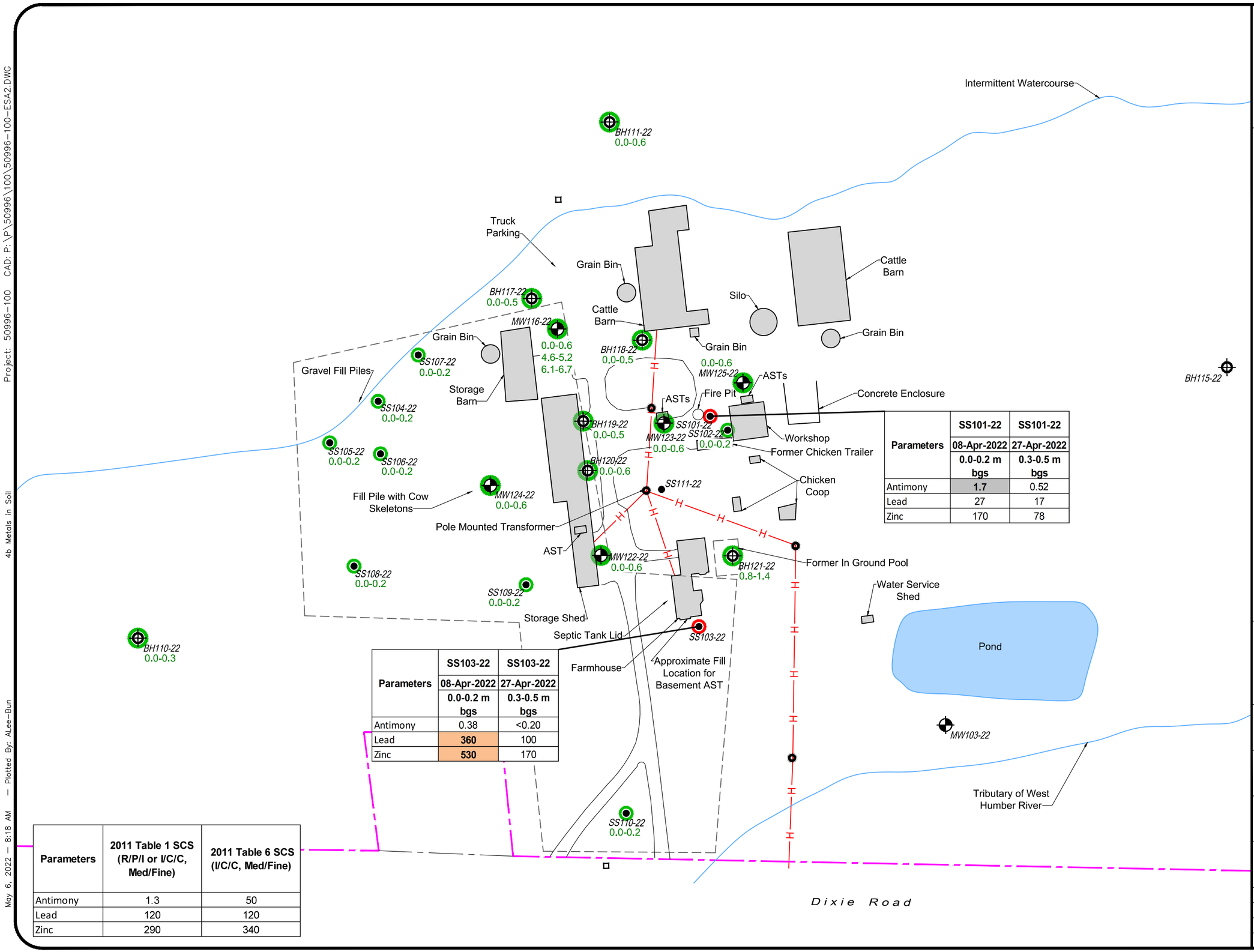
CLIENT
Tribal Partners Canada Inc.

PROJECT
Phase II ESA

SITE
12861 Dixie Road
Caledon, ON

TITLE
Metals and Other Regulated Parameters in Soil - Plan View

Reviewed By	KCL		
Prepared By	MFG	Project No.	50996-100
Drawn By	TXS	Figure No.	4a
Date	May 2022		



Parameters	SS101-22	SS101-22
	08-Apr-2022	27-Apr-2022
	0.0-0.2 m bgs	0.3-0.5 m bgs
Antimony	**1.7**	0.52
Lead	27	17
Zinc	170	78

Parameters	SS103-22	SS103-22
	08-Apr-2022	27-Apr-2022
	0.0-0.2 m bgs	0.3-0.5 m bgs
Antimony	0.38	<0.20
Lead	**360**	100
Zinc	**530**	170

Parameters	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)
Antimony	1.3	50
Lead	120	120
Zinc	290	340

NORTH

PROJECT NORTH

LEGEND

- Property Line
- Adjoining Property Line
- Existing Building
- Catch Basin
- Hydro Pole
- Overhead Hydro Line
- Monitoring Well
- Borehole
- Soil Sample
- Sample Exceeds Applicable SCS
- Sample Meets Applicable SCS
- 1.20-1.40 Sample Depth

0 12.5 25 37.5 50 62.5m

Scale(11x17): 1:1250

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Ph. (905) 639-2552

CLIENT
Tribal Partners Canada Inc.

PROJECT
Phase II ESA

SITE
12861 Dixie Road
Caledon, ON

TITLE
Metals and Other Regulated Parameters in Soil - Plan View

Reviewed By	KCL		
Prepared By	MFG	Project No.	50996-100
Drawn By	TXS	Figure No.	4b
Date	May 2022		

Project: 50996-100 CAD: P:\P_50996\100\50996-100-ESA2.DWG

5a PHCs in Soil — Plotted By: TSchneider

August 15, 2022 — 1:04 PM

MW101-22
BH113-22
MW105-22
BH114-22
BH108-22
Agricultural Field
BH107-22
BH112-22
Refer to Figure 5b
Old School Road
Agricultural Field
BH109-22
BH111-22
Cattle Barn
Grain Bin
Grain Bin
Fire Pit
Truck Parking
Intermittent Watercourse
Silo
Cattle Barn
Grain Bin
BH117-22
Gravel Fill Piles
Grain Bin
MW116-22
BH118-22
MW125-22
ASTs
Concrete Enclosure
Storage Barn
MW123-22
BH119-22
BH120-22
Workshop
Former Chicken Trailer
ASTs
MW124-22
Fill Pile with Cow Skeletons
Pole Mounted Transformer
MW122-22
Chicken Coop
Former In Ground Pool
AST
BH121-22
Water Service Shed
MW102-22
BH110-22
Storage Shed
Septic Tank Lid
Pond
Approximate Fill Location for Basement AST
Former Orchard
Farmhouse
MW103-22
Dixie Road
BH115-22
MW106-22
Agricultural Field
Tributary of West Humber River
MW104-22
Intermittent Watercourse

NORTH

PROJECT NORTH

LEGEND

- Property Line
- Adjoining Property Line
- Existing Building
- Catch Basin
- Hydro Pole
- Overhead Hydro Line
- Monitoring Well
- Borehole
- MNRF Woodland
- Sample Exceeds Applicable SCS
- Sample Meets Applicable SCS

0 30 60 90 120 150m

Scale(11x17): 1:3000

MTE

Engineers, Scientists, Surveyors

Ph. (905) 639-2552

CLIENT: Tribal Partners Canada Inc.

PROJECT: Phase II ESA

SITE: 12861 Dixie Road, Caledon, ON

TITLE: **Petroleum Hydrocarbons in Soil - Plan View**

Reviewed By	KCL		
Prepared By	MFG	Project No.	50996-100
Drawn By	TXS	Figure No.	5a
Date	May 2022		

Parameters	BH117-22	Field Duplicate	BH117-22
	08-Apr-2022	08-Apr-2022	08-Apr-2022
	0.0-0.5 m bgs	0.0-0.5 m bgs	0.8-1.4 m bgs
F3 (C16 to C34)	**350**	**390**	<50
F4 (C34 to C50)	**2600**	**3300**	<50

Parameters	MW116-22	MW116-22	MW116-22
	08-Apr-2022	08-Apr-2022	08-Apr-2022
	0.0-0.6 m bgs	1.5-2.1 m bgs	4.6-5.2 m bgs
F3 (C16 to C34)	**550**	<50	67
F4 (C34 to C50)	**5000**	<50	<50

Parameters	MW125-22	MW125-22
	13-Apr-2022	13-Apr-2022
	0.0-0.6 m bgs	4.6-5.2 m bgs
F3 (C16 to C34)	**430**	<50
F4 (C34 to C50)	**6000**	<50

Parameters	BH119-22	BH119-22
	08-Apr-2022	08-Apr-2022
	0.0-0.5 m bgs	0.8-1.4 m bgs
F3 (C16 to C34)	**480**	<50
F4 (C34 to C50)	**5800**	<50

Parameters	BH121-22	BH121-22	BH121-22
	08-Apr-2022	08-Apr-2022	08-Apr-2022
	0.0-0.6 m bgs	0.8-1.4 m bgs	1.5-2.1 m bgs
F3 (C16 to C34)	<50	93	110
F4 (C34 to C50)	<50	**150**	**1900**

Parameters	SS103-22	SS103-22
	08-Apr-2022	27-Apr-2022
	0.0-0.2 m bgs	0.3-0.5 m bgs
F3 (C16 to C34)	**3300**	<50
F4 (C34 to C50)	**4900**	<50

Parameters	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)
F3 (C16 to C34)	240	2500
F4 (C34 to C50)	120	6600

Intermittent Watercourse
BH111-22
Truck Parking
Grain Bin
Cattle Barn
Silo
Cattle Barn
Grain Bin
BH117-22
MW116-22
BH118-22
Grain Bin
Grain Bin
Piles
SS107-22
Storage Barn
MW125-22
ASTs
Fire Pit
ASTs
Concrete Enclosure
BH115-22
SS104-22 0.0-0.2
BH119-22
SS101-22
SS102-22 0.0-0.2
MW123-22 0.0-0.6 2.3-2.9
Workshop
Former Chicken Trailer
SS105-22
SS106-22 0.0-0.2
BH120-22 0.0-0.6
Chicken Coop
0.0-0.6 4.6-5.2 MW124-22
Fill Pile with Cow Skeletons
SS111-22 0.0-0.1
Pole Mounted Transformer
AST
MW122-22 0.0-0.6 2.3-2.9
BH121-22
Former In Ground Pool
SS108-22
SS109-22
Water Service
Storage Shed
Septic Tank Lid
SS103-22
BH110-22
Farmhouse
Approximate Fill Location for Basement AST
Former Orchard
MW103-22
Tributary of West Humber River
SS110-22
Dixie Road

NORTH
PROJECT NORTH

LEGEND
- Property Line
- Adjoining Property Line
- Existing Building
- Catch Basin
- Hydro Pole
- Overhead Hydro Line
- Monitoring Well
- Borehole
- Soil Sample
- Sample Exceeds Applicable SCS
- Sample Meets Applicable SCS
- 1.20-1.40 Sample Depth

0 12.5 25 37.5 50 62.5m
Scale(11x17): 1:1250

MTE
Engineers, Scientists, Surveyors
Ph. (905) 639-2552

CLIENT: Tribal Partners Canada Inc.

PROJECT: Phase II ESA

SITE: 12861 Dixie Road, Caledon, ON

TITLE: **Petroleum Hydrocarbons in Soil - Plan View**

Reviewed By	KCL		
Prepared By	MFG	Project No.	50996-100
Drawn By	TXS	Figure No.	5b
Date	May 2022		

Project: 50996-100 CAD: P:\P\50996\100\50996-100-ESA2.DWG
5b PHCs in Soil
May 6, 2022 — 8:22 AM — Plotted By: ALee-Bun

Project: 50996-100 CAD: P:\P\50996\100\50996-100-ESA2.DWG 6 Metals in GW

May 6, 2022 — 10:35 AM — Plotted By: ALee-Bun

MW101-22

MW105-22

Agricultural Field

Parameters	MW123-22	MW123-22
	21-Apr-2022	02-May-2022
	3.7-6.7 m bgs	3.7-6.7 m bgs
Chromium	<5.0	<5.0
Copper	<0.90	1
Molybdenum	2.5	5.2
Nickel	**16**	<1.0
Vanadium	<0.50	<0.50

Parameters	MW104-22
	02-May-2022
	2.3-3.2 m bgs
Chromium	<5.0
Copper	<0.90
Molybdenum	2.7
Nickel	**24**
Vanadium	<0.50

Agricultural Field

Parameters	MW124-22	MW124-22
	21-Apr-2022	02-May-2022
	3.7-6.7 m bgs	3.7-6.7 m bgs
Chromium	**19**	<5.0
Copper	**12**	**5.1**
Molybdenum	**27**	13
Nickel	9	5.6
Vanadium	**12**	**4.2**

Old School Road

MW102-22

Grain Bin
Truck Parking
Cattle Barn
Grain Bin
Fire Pit
Silo
Cattle Barn
Grain Bin
3.7-6.7
Grain Bin
3.7-6.7
MW116-22
MW123-22
MW125-22
Gravel Fill Piles
Storage Barn
ASTs
Concrete Enclosure
Workshop
Former Chicken Trailer
Chicken Coop
Former In Ground Pool
Fill Pile with Cow Skeletons
MW124-22
Pole Mounted Transformer
AST
MW122-22
Storage Shed
Septic Tank Lid
Water Service Shed
Approximate Fill Location for Basement AST
Farmhouse
Pond
MW103-22
Dixie Road

MW106-22

Agricultural Field

MW104-22

Tributary of West Humber River

Intermittent Watercourse

Parameters	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)
Chromium	11	50
Copper	5	69
Molybdenum	23	70
Nickel	14	100
Vanadium	3.9	6.2

Parameters	MW122-22	MW122-22	MW122-22
	21-Apr-2022	02-May-2022	02-May-2022
	3.7-6.7 m bgs	3.7-6.7 m bgs	3.7-6.7 m bgs
Chromium	**61**	<5.0	<5.0
Copper	**7.8**	1.4	1.4
Molybdenum	18	2.3	2.4
Nickel	2.6	<1.0	<1.0
Vanadium	**4.7**	0.53	0.54

NORTH

PROJECT NORTH

LEGEND

- Property Line
- Adjoining Property Line
- Existing Building
- Catch Basin
- Hydro Pole
- H — Overhead Hydro Line
- Monitoring Well
- MNRF Woodland
- Sample Exceeds Applicable SCS
- Sample Meets Applicable SCS
- 1.20-1.40 Well Screen Interval

0 30 60 90 120 150m

Scale(11x17): 1:3000

MTE
Engineers, Scientists, Surveyors
Ph. (905) 639-2552

CLIENT: Tribal Partners Canada Inc.

PROJECT: Phase II ESA

SITE: 12861 Dixie Road Caledon, ON

TITLE: **Metals and Hydride - Forming Metals in Groundwater Plan View**

Reviewed By	KCL		
Prepared By	MFG	Project No.	50996-100
Drawn By	TXS	Figure No.	6
Date	May 2022		

Tables

Table 1: Monitoring Well Construction Details

Well ID	Completed By	Ground Surface Elevation (masl)	Top of Pipe Elevation (masl)	Well Depth (mbgs)	Screen Length (m)	Well Construction Details						Type of Casing
						Depth of Screen (m)		Sand Pack (m)		Bentonite (m)		
						Top	Bottom	Top	Bottom	Top	Bottom	
MW101-22	MTE	267.12	267.89	9.1	1.5	7.6	9.1	7.3	9.1	0.3	7.3	Monument
MW102-22	MTE	270.75	271.60	15.2	1.5	13.7	15.2	13.4	15.2	0.3	13.4	Monument
MW103-22	MTE	260.42	261.29	3.2	0.9	2.3	3.2	2.0	3.2	0.3	2.0	Monument
MW104-22	MTE	259.08	259.84	3.2	0.9	2.3	3.2	2.0	3.2	0.3	2.0	Monument
MW105-22	MTE	265.62	266.47	10.7	1.5	9.2	10.7	8.9	10.7	0.3	8.9	Monument
MW106-22	MTE	265.63	266.39	8.8	1.5	7.3	8.8	7.0	8.8	0.3	7.0	Monument
MW116-22	MTE	267.83	267.73	6.9	3.0	3.9	6.9	3.6	6.9	0.3	3.6	Flushmount
MW122-22	MTE	268.37	268.34	6.7	3.0	3.7	6.7	3.4	6.7	0.3	3.4	Flushmount
MW123-22	MTE	267.88	267.72	6.7	3.0	3.7	6.7	3.4	6.7	0.3	3.4	Flushmount
MW124-22	MTE	268.35	268.25	6.7	3.0	3.7	6.7	3.4	6.7	0.3	3.4	Monument
MW125-22	MTE	267.76	268.63	6.1	3.0	3.1	6.1	2.8	6.1	0.3	2.8	Flushmount

Notes:
Date of elevation survey: April 27, 2022
Elevations are geodetic and are referenced to benchmark CGVD 2013
"m" - meters
"masl" - meters above sea level
"mbgs" - meters below ground surface

Well ID	Ground Surface Elevation (masl)	Top of Pipe Elevation (masl)	18-Apr-22			20-Apr-22			21-Apr-22			25-Apr-22			27-Apr-22		
			Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)	Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)	Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)	Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)	Water Level (mbtop)	Water Level (mbgs)	Elevation (masl)
MW101-22	267.12	267.89	-	-	-	9.22	8.44	258.67	9.02	8.24	258.87	-	-	-	9.05	8.27	258.84
MW102-22	270.75	271.60	-	-	-	12.79	11.94	258.81	12.78	11.93	258.82	10.78	9.93	260.82	10.82	9.97	260.78
MW103-22	260.42	261.29	-	-	-	1.19	0.31	260.11	1.96	1.09	259.33	-	-	-	1.15	0.28	260.14
MW104-22	259.08	259.84	-	-	-	1.16	0.40	258.68	1.09	0.33	258.75	-	-	-	1.11	0.35	258.73
MW105-22	265.62	266.47	-	-	-	-	-	-	7.23	6.38	259.24	-	-	-	7.48	6.63	258.99
MW106-22	265.63	266.39	-	-	-	8.57	7.81	257.82	8.46	7.70	257.93	8.78	8.02	257.61	8.36	7.60	258.03
MW116-22	267.83	267.73	2.15	2.26	265.57	-	-	-	2.09	2.20	265.63	-	-	-	2.02	2.13	265.71
MW122-22	268.37	268.34	1.35	1.37	267.00	-	-	-	1.25	1.27	267.10	-	-	-	1.30	1.33	267.04
MW123-22	267.88	267.72	2.11	2.27	265.61	-	-	-	2.12	2.28	265.60	-	-	-	1.97	2.13	265.75
MW124-22	268.35	268.25	3.49	3.58	264.77	-	-	-	2.62	2.71	265.64	-	-	-	1.99	2.08	266.26
MW125-22	267.76	268.63	3.19	2.32	265.44	-	-	-	3.45	2.57	265.19	-	-	-	3.35	2.48	265.28

Notes:

Date of elevation survey: April 27, 2022

Elevations are geodetic and are referenced to benchmark CGVD 2013

"m" - meters

"masl" - meters above sea level

"mbtop" - meters below top of pipe

"-" not measured or not applicable

Table 3: Metals and Other Regulated Parameters Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	Sample Location	MW102-22	MW105-22	MW106-22	BH107-22	BH110-22	BH111-22	BH111-22	BH111-22
					Sample Name	MW102-22 0-1.5	MW105-22 0-2	MW106-22 0-2	BH107-22 0-1FT	BH110-22 0-1FT	BH111-22 0-2	BH1111-22 0-2	BH1111-22 0-2 Lab-Dup
					Lab Job #	C297277	C2A2642	C2A0337	C294470	C294470	C297277	C297277	C297277
					Laboratory ID	SIR613	SJW883	SJH690	SIB145	SIB151	SIR617	SIR616	SIR616
					Sampling Date	12-Apr-2022	18-Apr-2022	14-Apr-2022	08-Apr-2022	08-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022
					Sample Depth (m bgs)	0.0-0.5	0.0-0.6	0.0-0.6	0.0-0.3	0.0-0.3	0.0-0.6	0.0-0.6	0.0-0.6
					Maximum Concentration							Field Duplicate	Laboratory Duplicate
Metals and Other Regulated Parameters													
Antimony	µg/g	0.2 - 1	1.3	50		**1.7**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	µg/g	1	18	18		12	4.9	2.8	4.8	2.3	3.5	4.9	5.1	5.6
Barium	µg/g	0.5 - 1	220	670		110	83	85	75	91	76	69	78	81
Beryllium	µg/g	0.2 - 0.5	2.5	10		0.81	0.79	0.72	0.72	0.75	0.72	0.68	0.76	0.77
Boron	µg/g	5	36	120		8.6	6.8	<5.0	<5.0	<5.0	<5.0	6.2	5.5	5.7
Cadmium	µg/g	0.1 - 0.5	1.2	1.9		0.71	0.11	0.31	0.15	0.25	0.25	0.14	0.13	0.13
Chromium	µg/g	1	70	160		24	24	21	23	23	21	21	24	24
Cobalt	µg/g	0.1 - 1	21	100		14	12	7.5	10	9	8.4	11	11	12
Copper	µg/g	0.5 - 1	92	300		82	34	20	28	15	18	29	33	34
Cyanide	µg/g	0.01	0.051	0.051	<	0.01	-	-	-	-	-	-	-	-
Lead	µg/g	1	120	120		**360**	12	14	12	11	13	11	12	12
Mercury	µg/g	0.05	0.27	20	<	0.05	-	-	-	-	-	-	-	-
Molybdenum	µg/g	0.5 - 1	2	40		2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Nickel	µg/g	0.5 - 1	82	340		33	27	18	24	17	18	24	24	25
Selenium	µg/g	0.5 - 1	1.5	5.5	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	µg/g	0.2	0.5	50	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	µg/g	0.05 - 0.5	1	3.3		0.16	0.16	0.13	0.14	0.14	0.14	0.13	0.14	0.15
Uranium	µg/g	0.05 - 1	2.5	33		0.71	0.5	0.71	0.54	0.69	0.66	0.45	0.49	0.52
Vanadium	µg/g	1 - 5	86	86		34	32	31	34	28	31	30	32	33
Zinc	µg/g	5	290	340		**530**	59	78	63	74	72	56	59	60
pH	pH units	0.1	NR	NR		7.87	-	-	-	-	-	-	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
Bold - Exceeds 2011 Table 1 SCS
Bold - Exceeds 2011 Table 6 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 3: Metals and Other Regulated Parameters Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	BH112-22	BH113-22	BH115-22	MW116-22	MW116-22	MW116-22	BH117-22	BH117-22	BH118-22	BH118-22
					BH112-22 0-1	BH113-22 0-1	BH115-22 0-2	MW116-22 0-2FT	MW116-22 15-17FT	MW116-22 20-22FT	BH117-22 0-1.5FT	BH1117-22 0-1.5FT	BH118-22 0-1.5FT	BH118-22 0-1.5FT Lab-Dup
					C297277	C297277	C2A0337	C294470	C294470	C294470	C294470	C294470	C294470	C294470
					SIR619	SIR621	SJH693	SIB153	SIB160	SIB162	SIB165	SIB164	SIB167	SIB167
					11-Apr-2022	11-Apr-2022	13-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022
					0.0-0.3	0.0-0.3	0.0-0.6	0.0-0.6	4.6-5.2	6.1-6.7	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
												Field Duplicate		Laboratory Duplicate
Metals and Other Regulated Parameters														
Antimony	µg/g	0.2 - 1	1.3	50	<0.20	0.23	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	µg/g	1	18	18	5.7	4.7	4.5	3.7	4.5	3.6	4.3	4.3	2.7	2.8
Barium	µg/g	0.5 - 1	220	670	77	70	61	48	34	15	68	70	41	41
Beryllium	µg/g	0.2 - 0.5	2.5	10	0.81	0.69	0.67	0.27	0.4	0.26	0.73	0.71	0.21	0.22
Boron	µg/g	5	36	120	6.3	7.3	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	µg/g	0.1 - 0.5	1.2	1.9	0.11	0.13	0.11	0.11	<0.10	<0.10	0.16	0.15	<0.10	<0.10
Chromium	µg/g	1	70	160	21	21	19	10	15	9.8	20	20	10	9.4
Cobalt	µg/g	0.1 - 1	21	100	14	12	9.8	5	8.4	5.3	8.8	8.3	4.8	4.5
Copper	µg/g	0.5 - 1	92	300	32	35	31	22	25	30	20	22	22	23
Cyanide	µg/g	0.01	0.051	0.051	-	-	-	-	-	-	-	-	-	-
Lead	µg/g	1	120	120	11	10	10	8.6	6.5	13	14	13	12	12
Mercury	µg/g	0.05	0.27	20	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/g	0.5 - 1	2	40	<0.50	<0.50	<0.50	0.52	<0.50	<0.50	<0.50	0.54	0.58	<0.50
Nickel	µg/g	0.5 - 1	82	340	33	24	20	9.2	18	9.8	18	17	9.1	8.9
Selenium	µg/g	0.5 - 1	1.5	5.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	µg/g	0.2	0.5	50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	µg/g	0.05 - 0.5	1	3.3	0.13	0.15	0.12	0.082	0.081	0.066	0.11	0.13	0.076	0.076
Uranium	µg/g	0.05 - 1	2.5	33	0.54	0.51	0.45	0.4	0.62	0.45	0.59	0.61	0.38	0.38
Vanadium	µg/g	1 - 5	86	86	33	30	29	17	20	20	31	32	22	19
Zinc	µg/g	5	290	340	55	55	57	44	43	33	53	57	43	43
pH	pH units	0.1	NR	NR	-	-	-	-	7.87	-	-	-	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
Bold - Exceeds 2011 Table 1 SCS
Bold - Exceeds 2011 Table 6 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 3: Metals and Other Regulated Parameters Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	BH119-22 BH119-22 0-1.5FT C294470 SIB169 08-Apr-2022 0.0-0.5	BH120-22 BH120-22 0-2FT C294470 SIB172 08-Apr-2022 0.0-0.6	BH121-22 BH121-22 2.5-4.5 C294470 SIB185 08-Apr-2022 0.8-1.4	MW122-22 MW122-22 0-2' C295792 SIJ391 11-Apr-2022 0.0-0.6	MW123-22 MW123-22 0-2' C295792 SIJ383 11-Apr-2022 0.0-0.6	MW124-22 MW124-22 0-2' C295792 SIJ398 11-Apr-2022 0.0-0.6	MW125-22 MW125-22 0-2 C2A0337 SJH728 13-Apr-2022 0.0-0.6	MW125-22 MW125-22 0-2 Lab-Dup C2A0337 SJH728 13-Apr-2022 0.0-0.6 Laboratory Duplicate	SS101-22 SS101-22 0-0.5FT C294470 SIB188 08-Apr-2022 0.0-0.2	SS101-22 SS101-22 1-1.5 C2B3432 SMB753 27-Apr-2022 0.3-0.5
Metals and Other Regulated Parameters														
Antimony	µg/g	0.2 - 1	1.3	50	<0.20	<0.20	0.23	<0.20	<0.20	<0.20	0.23	0.22	**1.7**	0.52
Arsenic	µg/g	1	18	18	2.9	5.1	4.2	2.8	3.7	4.2	3.4	3.4	12	6.1
Barium	µg/g	0.5 - 1	220	670	58	89	65	59	31	63	54	54	73	76
Beryllium	µg/g	0.2 - 0.5	2.5	10	0.38	0.78	0.45	0.42	0.31	0.64	0.36	0.36	0.61	0.65
Boron	µg/g	5	36	120	<5.0	<5.0	<5.0	<5.0	<5.0	5.1	8.2	8.6	5.8	<5.0
Cadmium	µg/g	0.1 - 0.5	1.2	1.9	0.17	0.22	0.3	0.1	<0.10	0.21	0.33	0.31	0.37	0.18
Chromium	µg/g	1	70	160	19	23	18	14	8.9	18	17	16	23	20
Cobalt	µg/g	0.1 - 1	21	100	6.1	11	6.4	6.4	4.8	9.5	6.8	6.7	7.5	7.1
Copper	µg/g	0.5 - 1	92	300	23	31	18	82	21	23	35	33	37	24
Cyanide	µg/g	0.01	0.051	0.051	-	-	-	-	-	-	-	-	-	-
Lead	µg/g	1	120	120	13	14	24	16	5.5	13	24	23	27	17
Mercury	µg/g	0.05	0.27	20	-	-	-	<0.050	<0.050	<0.050	-	-	-	-
Molybdenum	µg/g	0.5 - 1	2	40	0.66	<0.50	0.54	2	<0.50	<0.50	1	0.74	0.73	<0.50
Nickel	µg/g	0.5 - 1	82	340	12	23	15	12	10	18	14	15	17	15
Selenium	µg/g	0.5 - 1	1.5	5.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	µg/g	0.2	0.5	50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	µg/g	0.05 - 0.5	1	3.3	0.095	0.14	0.11	0.1	0.065	0.12	0.1	0.1	0.12	0.12
Uranium	µg/g	0.05 - 1	2.5	33	0.49	0.58	0.55	0.39	0.3	0.55	0.38	0.37	0.58	0.5
Vanadium	µg/g	1 - 5	86	86	27	32	25	23	16	29	33	33	28	29
Zinc	µg/g	5	290	340	60	71	110	74	26	62	82	81	170	78
pH	pH units	0.1	NR	NR	-	-	-	-	-	-	-	-	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
Bold - Exceeds 2011 Table 1 SCS
Bold - Exceeds 2011 Table 6 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 3: Metals and Other Regulated Parameters Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	SS102-22	SS103-22	SS103-22	SS104-22	SS105-22	SS106-22	SS107-22	SS108-22	SS109-22	SS110-22
					SS102-22 0-0.5FT	SS103-22 0-0.5FT	SS103-22 1-1.5	SS104-22 0-0.5FT	SS105-22 0-0.5FT	SS106-22 0-0.5FT	SS107-22 0-0.5	SS108-22 0-0.5	SS109-22 0-0.5	SS110-22 0-0.5
					C294470	C294470	C2B3432	C294470	C294470	C294470	C297277	C297277	C297277	C297277
					SIB189	SIB190	SMB754	SIB191	SIB192	SIB193	SIR625	SIR626	SIR627	SIR628
					08-Apr-2022	08-Apr-2022	27-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
					0.0-0.2	0.0-0.2	0.3-0.5	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2	0.0-0.2
Metals and Other Regulated Parameters														
Antimony	µg/g	0.2 - 1	1.3	50	<0.20	0.38	<0.20	<0.20	0.25	<0.20	<0.20	<0.20	<0.20	<0.20
Arsenic	µg/g	1	18	18	3.1	4.8	5.3	2.6	2.2	3.3	2.6	4.8	4.4	3.6
Barium	µg/g	0.5 - 1	220	670	26	110	85	85	24	65	47	64	66	57
Beryllium	µg/g	0.2 - 0.5	2.5	10	0.28	0.61	0.68	0.72	<0.20	0.52	0.45	0.7	0.72	0.56
Boron	µg/g	5	36	120	<5.0	<5.0	<5.0	5.2	<5.0	<5.0	<5.0	5.4	5.4	<5.0
Cadmium	µg/g	0.1 - 0.5	1.2	1.9	<0.10	0.71	0.32	0.26	0.1	0.14	0.25	0.14	0.15	0.18
Chromium	µg/g	1	70	160	10	20	20	23	9.3	16	17	20	21	18
Cobalt	µg/g	0.1 - 1	21	100	5.2	10	11	9.1	4.1	6.9	6	9.5	10	7
Copper	µg/g	0.5 - 1	92	300	24	31	32	27	23	22	18	27	29	23
Cyanide	µg/g	0.01	0.051	0.051	-	<0.01	-	-	-	-	<0.01	<0.01	<0.01	<0.01
Lead	µg/g	1	120	120	6.8	**360**	100	15	17	11	14	13	13	18
Mercury	µg/g	0.05	0.27	20	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/g	0.5 - 1	2	40	<0.50	<0.50	<0.50	<0.50	0.67	<0.50	<0.50	<0.50	<0.50	<0.50
Nickel	µg/g	0.5 - 1	82	340	11	20	21	20	8.9	15	13	20	21	16
Selenium	µg/g	0.5 - 1	1.5	5.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Silver	µg/g	0.2	0.5	50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	µg/g	0.05 - 0.5	1	3.3	0.071	0.13	0.15	0.16	0.073	0.1	0.083	0.14	0.15	0.13
Uranium	µg/g	0.05 - 1	2.5	33	0.36	0.42	0.4	0.58	0.33	0.47	0.54	0.53	0.54	0.45
Vanadium	µg/g	1 - 5	86	86	17	27	29	30	19	25	22	30	31	28
Zinc	µg/g	5	290	340	33	**530**	170	99	55	55	71	60	60	98
pH	pH units	0.1	NR	NR	-	7.13	-	-	-	-	-	-	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
Bold - Exceeds 2011 Table 1 SCS
Bold - Exceeds 2011 Table 6 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 4: Organochlorine Pesticides (OC) Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	Sample Location		MW102-22	MW105-22	MW106-22	BH107-22	BH110-22	BH111-22	BH111-22	BH112-22
					Sample Name		MW102-22 0-1.5	MW105-22 0-2	MW106-22 0-2	BH107-22 0-1FT	BH110-22 0-1FT	BH111-22 0-2	BH1111-22 0-2	BH112-22 0-1
					Lab Job #		C297277	C2A2642	C2A0337	C294470	C294470	C297277	C297277	C297277
					Laboratory ID		SIR613	SJW883	SJH690	SIB145	SIB151	SIR617	SIR616	SIR619
					Sampling Date		12-Apr-2022	18-Apr-2022	14-Apr-2022	08-Apr-2022	08-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022
					Sample Depth (m bgs)		0.0-0.5	0.0-0.6	0.0-0.6	0.0-0.3	0.0-0.3	0.0-0.6	0.0-0.6	0.0-0.3
					Maximum Concentration								Field Duplicate	
Organochlorine Pesticides (OCs)														
alpha-Chlordane	µg/g	0.002 - 0.04	NR	NR	<	0.04	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
gamma-Chlordane	µg/g	0.002 - 0.02	NR	NR		0.018	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Chlordane (Total)	µg/g	0.002 - 0.04	0.05	0.05	<	0.04	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
o,p-DDD	µg/g	0.002 - 0.02	NR	NR	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
p,p-DDD	µg/g	0.002 - 0.02	NR	NR	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
o,p-DDD + p,p-DDD	µg/g	0.002 - 0.028	0.05	4.6	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
o,p-DDE	µg/g	0.002 - 0.02	NR	NR	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
p,p-DDE	µg/g	0.002 - 0.02	NR	NR	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
o,p-DDE + p,p-DDE	µg/g	0.002 - 0.028	0.05	0.65	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
o,p-DDT	µg/g	0.002 - 0.02	NR	NR	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
p,p-DDT	µg/g	0.002 - 0.02	NR	NR	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
o,p-DDT + p,p-DDT	µg/g	0.002 - 0.028	1.4	1.4	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Dieldrin	µg/g	0.002 - 0.02	0.05	0.11	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Endosulfan I	µg/g	0.002 - 0.02	NR	NR	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Endosulfan II	µg/g	0.002 - 0.02	NR	NR	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Total Endosulfan	µg/g	0.002 - 0.028	0.04	0.38	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Endrin	µg/g	0.002 - 0.02	0.04	0.04	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Heptachlor	µg/g	0.002 - 0.02	0.05	0.19	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Heptachlor epoxide	µg/g	0.002 - 0.02	0.05	0.05	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorobenzene	µg/g	0.002 - 0.01	0.01	0.66	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachlorobutadiene	µg/g	0.002 - 0.01	0.01	0.095	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
gamma-Hexachlorocyclohexane (Lindane)	µg/g	0.002 - 0.01	0.01	0.063	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Hexachloroethane	µg/g	0.002 - 0.01	0.01	0.43	<	0.01	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Methoxychlor	µg/g	0.005 - 0.025	0.05	1.6	<	0.025	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Notes:

2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold - Exceeds 2011 Table 1 SCS

Bold - Exceeds 2011 Table 6 SCS

"-" - parameter not analyzed

RDL - Reported detection limit

NR - Not Relevant

NV- No Value

NA - Not Applicable

"<" - Less than the Reporting Detection Limit

Table 4: Organochlorine Pesticides (OC) Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	BH113-22	BH115-22	MW116-22	MW116-22	MW116-22	BH118-22	SS107-22	SS109-22	SS110-22
					BH113-22 0-1	BH115-22 0-2	MW116-22 0-2FT	MW116-22 20-22FT	MW116-22 20-22FT Lab-Dup	BH118-22 0-1.5FT	SS107-22 0-0.5	SS109-22 0-0.5	SS110-22 0-0.5
					C297277	C2A0337	C294470	C294470	C294470	C294470	C297277	C297277	C297277
					SIR621	SJH693	SIB153	SIB162	SIB162	SIB167	SIR625	SIR627	SIR628
					11-Apr-2022	13-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	12-Apr-2022	12-Apr-2022	12-Apr-2022
					0.0-0.3	0.0-0.6	0.0-0.6	6.1-6.7	6.1-6.7	0.0-0.5	0.0-0.2	0.0-0.2	0.0-0.2
									Laboratory Duplicate				
Organochlorine Pesticides (OCs)													
alpha-Chlordane	µg/g	0.002 - 0.04	NR	NR	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.040	<0.0020	<0.0020
gamma-Chlordane	µg/g	0.002 - 0.02	NR	NR	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	0.018	<0.0020	<0.0020
Chlordane (Total)	µg/g	0.002 - 0.04	0.05	0.05	<0.0020	<0.0020	<0.010	<0.0020	-	<0.0020	<0.040	<0.0020	<0.0020
o,p-DDD	µg/g	0.002 - 0.02	NR	NR	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
p,p-DDD	µg/g	0.002 - 0.02	NR	NR	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
o,p-DDD + p,p-DDD	µg/g	0.002 - 0.028	0.05	4.6	<0.0020	<0.0020	<0.010	<0.0020	-	<0.0020	<0.0040	<0.0020	<0.0020
o,p-DDE	µg/g	0.002 - 0.02	NR	NR	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
p,p-DDE	µg/g	0.002 - 0.02	NR	NR	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
o,p-DDE + p,p-DDE	µg/g	0.002 - 0.028	0.05	0.65	<0.0020	<0.0020	<0.010	<0.0020	-	<0.0020	<0.0040	<0.0020	<0.0020
o,p-DDT	µg/g	0.002 - 0.02	NR	NR	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
p,p-DDT	µg/g	0.002 - 0.02	NR	NR	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
o,p-DDT + p,p-DDT	µg/g	0.002 - 0.028	1.4	1.4	<0.0020	<0.0020	<0.010	<0.0020	-	<0.0020	<0.0040	<0.0020	<0.0020
Dieldrin	µg/g	0.002 - 0.02	0.05	0.11	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
Endosulfan I	µg/g	0.002 - 0.02	NR	NR	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
Endosulfan II	µg/g	0.002 - 0.02	NR	NR	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
Total Endosulfan	µg/g	0.002 - 0.028	0.04	0.38	<0.0020	<0.0020	<0.010	<0.0020	-	<0.0020	<0.0040	<0.0020	<0.0020
Endrin	µg/g	0.002 - 0.02	0.04	0.04	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
Heptachlor	µg/g	0.002 - 0.02	0.05	0.19	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
Heptachlor epoxide	µg/g	0.002 - 0.02	0.05	0.05	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
Hexachlorobenzene	µg/g	0.002 - 0.01	0.01	0.66	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
Hexachlorobutadiene	µg/g	0.002 - 0.01	0.01	0.095	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
gamma-Hexachlorocyclohexane (Lindane)	µg/g	0.002 - 0.01	0.01	0.063	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
Hexachloroethane	µg/g	0.002 - 0.01	0.01	0.43	<0.0020	<0.0020	<0.010	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020
Methoxychlor	µg/g	0.005 - 0.025	0.05	1.6	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050

Notes:

2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold - Exceeds 2011 Table 1 SCS

Bold - Exceeds 2011 Table 6 SCS

"-" - parameter not analyzed

RDL - Reported detection limit

NR - Not Relevant

NV- No Value

NA - Not Applicable

"<" - Less than the Reporting Detection Limit

Table 5: Polychlorinated Biphenyls (PCBs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	Sample Location		SS111-22
					Sample Name		SS111-22-0-0.33'
					Lab Job #		C2A4920
					Laboratory ID		SKH522
					Sampling Date		20-Apr-2022
					Sample Depth (m bgs)		0-0.2
					Maximum Concentration		
Polychlorinated Biphenyls (PCBs)							
Aroclor 1242	µg/g	0.02	NR	NR	<	0.02	<0.020
Aroclor 1248	µg/g	0.02	NR	NR	<	0.02	<0.020
Aroclor 1254	µg/g	0.02	NR	NR	<	0.02	<0.020
Aroclor 1260	µg/g	0.02	NR	NR	<	0.02	<0.020
Total Polychlorinated Biphenyls	µg/g	0.02	0.3	1.1	<	0.02	<0.020

Notes:
2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold - Exceeds 2011 Table 1 SCS
Bold - Exceeds 2011 Table 6 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 6: Polycyclic Aromatic Hydrocarbons (PAHs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	Sample Location		BH121-22	MW122-22	MW123-22	MW124-22	MW125-22	SS101-22	SS105-22
					Sample Name		BH121-22 2.5-4.5	MW122-22 0-2'	MW123-22 0-2'	MW124-22 0-2'	MW125-22 0-2	SS101-22 0-0.5FT	SS105-22 0-0.5FT
					Lab Job #		C294470	C295792	C295792	C295792	C2A0337	C294470	C294470
					Laboratory ID		SIB185	SIJ391	SIJ383	SIJ398	SJH728	SIB188	SIB192
					Sampling Date		08-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022	13-Apr-2022	08-Apr-2022	08-Apr-2022
					Sample Depth (m bgs)		0.8-1.4	0.0-0.6	0.0-0.6	0.0-0.6	0.0-0.6	0.0-0.2	0.0-0.2
					Maximum Concentration								
Polycyclic Aromatic Hydrocarbons (PAHs)													
Acenaphthene	µg/g	0.005 - 0.4	0.072	29	<	0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
Acenaphthylene	µg/g	0.005 - 0.125	0.093	0.17	<	0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
Anthracene	µg/g	0.005 - 0.125	0.16	0.74	<	0.05	<0.0050	<0.0050	<0.0050	0.0094	<0.0050	<0.0050	<0.050
Benz(a)anthracene	µg/g	0.005 - 0.125	0.36	0.96		0.065	0.025	<0.0050	<0.0050	0.042	<0.0050	0.0059	0.065
Benzo(a)pyrene	µg/g	0.005 - 0.125	0.3	0.3		0.14	0.03	<0.0050	<0.0050	0.042	<0.0050	0.0076	0.14
Benzo(b)fluoranthene	µg/g	0.005 - 0.125	0.47	0.96		0.17	0.045	<0.0050	<0.0050	0.064	<0.0050	0.013	0.17
Benzo(g,h,i)perylene	µg/g	0.005 - 0.15	0.68	9.6		0.31	0.025	<0.0050	<0.0050	0.036	0.064	0.0085	0.31
Benzo(k)fluoranthene	µg/g	0.005 - 0.125	0.48	0.96	<	0.05	0.015	<0.0050	<0.0050	0.02	<0.0050	<0.0050	<0.050
Chrysene	µg/g	0.005 - 0.125	2.8	9.6		0.11	0.028	<0.0050	<0.0050	0.04	<0.0050	0.0066	0.11
Dibenz(a,h)anthracene	µg/g	0.005 - 0.125	0.1	0.1	<	0.05	<0.0050	<0.0050	<0.0050	0.0072	<0.0050	<0.0050	<0.050
Fluoranthene	µg/g	0.005 - 0.5	0.56	9.6		0.13	0.063	<0.0050	<0.0050	0.12	<0.0050	0.016	0.13
Fluorene	µg/g	0.005 - 0.125	0.12	69	<	0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
Indeno(1,2,3-cd)pyrene	µg/g	0.005 - 0.125	0.23	0.95		0.1	0.022	<0.0050	<0.0050	0.036	<0.0050	0.0069	0.1
1-Methylnaphthalene	µg/g	0.005 - 0.075	0.59	42	<	0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
2-Methylnaphthalene	µg/g	0.005 - 0.075	0.59	42	<	0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
1+2-Methylnaphthalene	µg/g	0.0071 - 0.106	0.59	42	<	0.071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.071
Naphthalene	µg/g	0.005 - 0.32	0.09	28	<	0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050
Phenanthrene	µg/g	0.005 - 0.46	0.69	16	<	0.05	0.028	<0.0050	<0.0050	0.049	<0.0050	<0.0050	<0.050
Pyrene	µg/g	0.005 - 0.5	1	96		0.22	0.054	<0.0050	<0.0050	0.091	<0.0050	0.015	0.22

Notes:
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"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 7: Petroleum Hydrocarbons (PHCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	Sample Location		MW116-22	MW116-22	MW116-22	MW116-22	BH117-22	BH117-22	BH117-22	BH117-22	BH119-22
					Sample Name		MW116-22 0-2FT	MW116-22 5-7FT	MW116-22 15-17FT	MW116-22 15-17FT Lab-Dup	BH117-22 0-1.5FT	BH1117-22 0-1.5FT	BH1117-22 0-1.5FT Lab-Dup	BH117-22 2.5-4.5FT	BH119-22 0-1.5FT
					Lab Job #		C294470	C294470	C294470	C294470	C294470	C294470	C294470	C294470	C294470
					Laboratory ID		SIB153	SIB156	SIB160	SIB160	SIB165	SIB164	SIB164	SIB166	SIB169
					Sampling Date		08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022
					Sample Depth (m bgs)		0.0-0.6	1.5-2.1	4.6-5.2	4.6-5.2	0.0-0.5	0.0-0.5	0.0-0.5	0.8-1.4	0.0-0.5
					Maximum Concentration					Laboratory Duplicate		Field Duplicate	Laboratory Duplicate		
Petroleum Hydrocarbons (PHCs)															
F1 (C6 to C10)	µg/g	5 - 10	25	65	<	10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F1 (C6 to C10) minus BTEX	µg/g	5 - 10	25	65	<	10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16)	µg/g	10 - 50	10	250	<	10	<10	<10	<10	<10	<10	<10	-	<10	<10
F3 (C16 to C34)	µg/g	50 - 250	240	2500		**3300**	**550**	<50	67	60	**350**	**390**	-	<50	**480**
F4 (C34 to C50)	µg/g	50 - 250	120	6600		**1500**	**1400**	<50	<50	<50	**890**	**1000**	-	<50	**1300**
Reached Baseline at C50	unitless		NR	NR		NA	NO	YES	YES	YES	NO	NO	-	YES	NO
F4G (Gravimetric)	µg/g	100 - 250	120	6600		**6000**	**5000**	-	-	-	**2600**	**3300**	-	-	**5800**

Notes:
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NV- No Value
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Table 7: Petroleum Hydrocarbons (PHCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	BH119-22	BH120-22	BH121-22	BH121-22	BH121-22	MW122-22	MW122-22	MW123-22	MW123-22	MW124-22
					BH119-22 2.5-4.5FT	BH120-22 0-2FT	BH121-22 0-2FT	BH121-22 2.5-4.5	BH121-22 5-7	MW122-22 0-2'	MW122-22 7.5-9.5'	MW123-22 0-2'	MW123-22 7.5-9.5'	MW124-22 0-2'
					C294470	C294470	C294470	C294470	C294470	C295792	C295792	C295792	C295792	C295792
					SIB170	SIB172	SIB174	SIB185	SIB186	SIJ391	SIJ394	SIJ383	SIJ386	SIJ398
					08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022
					0.8-1.4	0.0-0.6	0.0-0.6	0.8-1.4	1.5-2.1	0.0-0.6	2.3-2.9	0.0-0.6	2.3-2.9	0.0-0.6
Petroleum Hydrocarbons (PHCs)														
F1 (C6 to C10)	µg/g	5 - 10	25	65	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F1 (C6 to C10) minus BTEX	µg/g	5 - 10	25	65	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F2 (C10 to C16)	µg/g	10 - 50	10	250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	50 - 250	240	2500	<50	<50	<50	93	110	<50	<50	<50	<50	<50
F4 (C34 to C50)	µg/g	50 - 250	120	6600	<50	<50	<50	**150**	**300**	<50	<50	<50	<50	<50
Reached Baseline at C50	unitless		NR	NR	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES
F4G (Gravimetric)	µg/g	100 - 250	120	6600	-	-	-	-	**1900**	-	-	-	-	-

Notes:
2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

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RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 7: Petroleum Hydrocarbons (PHCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	MW124-22	MW125-22	MW125-22	SS102-22	SS103-22	SS103-22	SS103-22	SS104-22	SS106-22	SS111-22
					MW124-22 15-17'	MW125-22 0-2	MW125-22 15-17	SS102-22 0-0.5FT	SS103-22 0-0.5FT	SS103-22 1-1.5	SS103-22 1-1.5 Lab-Dup	SS104-22 0-0.5FT	SS106-22 0-0.5FT	SS111-22-0-0.33'
					C295792	C2A0337	C2A0337	C294470	C294470	C2B3432	C2B3432	C294470	C294470	C2A4920
					SIJ403	SJH728	SJH732	SIB189	SIB190	SMB754	SMB754	SIB191	SIB193	SKH522
					11-Apr-2022	13-Apr-2022	13-Apr-2022	08-Apr-2022	08-Apr-2022	27-Apr-2022	27-Apr-2022	08-Apr-2022	08-Apr-2022	20-Apr-2022
					4.6-5.2	0.0-0.6	4.6-5.2	0.0-0.2	0.0-0.2	0.3-0.5	0.3-0.5	0.0-0.2	0.0-0.2	0.0-0.1
											Laboratory Duplicate			
Petroleum Hydrocarbons (PHCs)														
F1 (C6 to C10)	µg/g	5 - 10	25	65	<10	<10	<10	<10	<10	<10	-	<10	<10	<10
F1 (C6 to C10) minus BTEX	µg/g	5 - 10	25	65	<10	<10	<10	<10	<10	<10	-	<10	<10	<10
F2 (C10 to C16)	µg/g	10 - 50	10	250	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	µg/g	50 - 250	240	2500	83	**430**	<50	<50	**3300**	<50	<50	100	<50	50
F4 (C34 to C50)	µg/g	50 - 250	120	6600	<50	**1200**	<50	<50	**1500**	<50	<50	78	<50	<50
Reached Baseline at C50	unitless		NR	NR	YES	NO	YES	YES	NO	YES	YES	YES	YES	YES
F4G (Gravimetric)	µg/g	100 - 250	120	6600	-	**6000**	-	-	**4900**	-	-	-	-	-

Notes:
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NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 8: Volatile Organic Compounds (VOCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	Sample Location		MW116-22	MW116-22	MW116-22	MW116-22	BH117-22	BH117-22	BH117-22	BH117-22
					Sample Name		MW116-22 0-2FT	MW116-22 5-7FT	MW116-22 15-17FT	MW116-22 15-17FT Lab-Dup	BH117-22 0-1.5FT	BH117-22 0-1.5FT	BH117-22 0-1.5FT Lab-Dup	BH117-22 2.5-4.5FT
					Lab Job #		C294470	C294470	C294470	C294470	C294470	C294470	C294470	C294470
					Laboratory ID		SIB153	SIB156	SIB160	SIB160	SIB165	SIB164	SIB164	SIB166
					Sampling Date		08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022
					Sample Depth (m bgs)		0.0-0.6	1.5-2.1	4.6-5.2	4.6-5.2	0.0-0.5	0.0-0.5	0.0-0.5	0.8-1.4
					Maximum Concentration					Laboratory Duplicate		Field Duplicate	Laboratory Duplicate	
Volatile Organic Compounds (VOCs)														
Acetone	µg/g	0.49 - 0.5	0.5	28	<	0.49	-	-	-	-	-	-	-	-
Benzene	µg/g	0.006 - 0.02	0.02	0.4	<	0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1,2-Dichloroethane	µg/g	0.049 - 0.05	0.05	0.05	<	0.049	-	-	-	-	-	-	-	-
Ethylbenzene	µg/g	0.01 - 0.02	0.05	1.6	<	0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylene Dibromide	µg/g	0.04	0.05	0.05	<	0.04	-	-	-	-	-	-	-	-
Hexane (n)	µg/g	0.04 - 0.05	0.05	88	<	0.04	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	µg/g	0.4 - 0.5	0.5	88	<	0.4	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	µg/g	0.4 - 0.5	0.5	210	<	0.4	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	µg/g	0.04 - 0.05	0.05	2.3	<	0.04	-	-	-	-	-	-	-	-
Methylene Chloride	µg/g	0.049 - 0.05	0.05	2	<	0.049	-	-	-	-	-	-	-	-
Styrene	µg/g	0.04 - 0.05	0.05	43	<	0.04	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/g	0.04 - 0.05	0.05	0.11	<	0.04	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/g	0.04 - 0.05	0.05	0.094	<	0.04	-	-	-	-	-	-	-	-
Tetrachloroethylene	µg/g	0.04 - 0.05	0.05	2.5	<	0.04	-	-	-	-	-	-	-	-
Toluene	µg/g	0.02 - 0.08	0.2	9	<	0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1,1,1-Trichloroethane	µg/g	0.04 - 0.05	0.05	12	<	0.04	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/g	0.04 - 0.05	0.05	0.11	<	0.04	-	-	-	-	-	-	-	-
Trichloroethylene	µg/g	0.01	0.05	0.61	<	0.01	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/g	0.04 - 0.05	0.25	5.8	<	0.04	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/g	0.019 - 0.02	0.02	0.25	<	0.019	-	-	-	-	-	-	-	-
o-Xylene	µg/g	0.02	NR	NR	<	0.02	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	µg/g	0.02 - 0.04	NR	NR	<	0.04	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Xylene Mixture	µg/g	0.02 - 0.05	0.05	30	<	0.04	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040

Notes:
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Table 8: Volatile Organic Compounds (VOCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	BH119-22	BH119-22	BH120-22	BH121-22	BH121-22	BH121-22	MW122-22	MW122-22	MW123-22	MW123-22
					BH119-22 0-1.5FT	BH119-22 2.5-4.5FT	BH120-22 0-2FT	BH121-22 0-2FT	BH121-22 2.5-4.5	BH121-22 5-7	MW122-22 0-2'	MW122-22 7.5-9.5'	MW123-22 0-2'	MW123-22 7.5-9.5'
					C294470	C294470	C294470	C294470	C294470	C294470	C295792	C295792	C295792	C295792
					SIB169	SIB170	SIB172	SIB174	SIB185	SIB186	SIJ391	SIJ394	SIJ383	SIJ386
					08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	08-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022	11-Apr-2022
					0.0-0.5	0.8-1.4	0.0-0.6	0.0-0.6	0.8-1.4	1.5-2.1	0.0-0.6	2.3-2.9	0.0-0.6	2.3-2.9
Volatile Organic Compounds (VOCs)														
Acetone	µg/g	0.49 - 0.5	0.5	28	-	-	-	-	-	-	-	-	-	-
Benzene	µg/g	0.006 - 0.02	0.02	0.4	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1,2-Dichloroethane	µg/g	0.049 - 0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/g	0.01 - 0.02	0.05	1.6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylene Dibromide	µg/g	0.04	0.05	0.05	-	-	-	-	-	-	-	-	-	-
Hexane (n)	µg/g	0.04 - 0.05	0.05	88	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	µg/g	0.4 - 0.5	0.5	88	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	µg/g	0.4 - 0.5	0.5	210	-	-	-	-	-	-	-	-	-	-
Methyl Tert-Butyl Ether	µg/g	0.04 - 0.05	0.05	2.3	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	µg/g	0.049 - 0.05	0.05	2	-	-	-	-	-	-	-	-	-	-
Styrene	µg/g	0.04 - 0.05	0.05	43	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/g	0.04 - 0.05	0.05	0.11	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/g	0.04 - 0.05	0.05	0.094	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	µg/g	0.04 - 0.05	0.05	2.5	-	-	-	-	-	-	-	-	-	-
Toluene	µg/g	0.02 - 0.08	0.2	9	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1,1,1-Trichloroethane	µg/g	0.04 - 0.05	0.05	12	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/g	0.04 - 0.05	0.05	0.11	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	µg/g	0.01	0.05	0.61	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/g	0.04 - 0.05	0.25	5.8	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/g	0.019 - 0.02	0.02	0.25	-	-	-	-	-	-	-	-	-	-
o-Xylene	µg/g	0.02	NR	NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	µg/g	0.02 - 0.04	NR	NR	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Xylene Mixture	µg/g	0.02 - 0.05	0.05	30	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040

Notes:
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NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 8: Volatile Organic Compounds (VOCs) Analysis in Soil

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	MW124-22	MW124-22	MW125-22	MW125-22	SS102-22	SS103-22	SS103-22	SS104-22	SS106-22	SS111-22
					MW124-22 0-2'	MW124-22 15-17'	MW125-22 0-2	MW125-22 15-17	SS102-22 0-0.5FT	SS103-22 0-0.5FT	SS103-22 1-1.5	SS104-22 0-0.5FT	SS106-22 0-0.5FT	SS111-22-0-0.33'
					C295792	C295792	C2A0337	C2A0337	C294470	C294470	C2B3432	C294470	C294470	C2A4920
					SIJ398	SIJ403	SJH728	SJH732	SIB189	SIB190	SMB754	SIB191	SIB193	SKH522
					11-Apr-2022	11-Apr-2022	13-Apr-2022	13-Apr-2022	08-Apr-2022	08-Apr-2022	27-Apr-2022	08-Apr-2022	08-Apr-2022	20-Apr-2022
					0.0-0.6	4.6-5.2	0.0-0.6	4.6-5.2	0.0-0.2	0.0-0.2	0.3-0.5	0.0-0.2	0.0-0.2	0-0.1
Volatile Organic Compounds (VOCs)														
Acetone	µg/g	0.49 - 0.5	0.5	28	-	-	<0.49	<0.49	-	-	-	-	-	-
Benzene	µg/g	0.006 - 0.02	0.02	0.4	<0.020	<0.020	<0.0060	<0.0060	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1,2-Dichloroethane	µg/g	0.049 - 0.05	0.05	0.05	-	-	<0.049	<0.049	-	-	-	-	-	-
Ethylbenzene	µg/g	0.01 - 0.02	0.05	1.6	<0.020	<0.020	<0.010	<0.010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ethylene Dibromide	µg/g	0.04	0.05	0.05	-	-	<0.040	<0.040	-	-	-	-	-	-
Hexane (n)	µg/g	0.04 - 0.05	0.05	88	-	-	<0.040	<0.040	-	-	-	-	-	-
Methyl Ethyl Ketone	µg/g	0.4 - 0.5	0.5	88	-	-	<0.40	<0.40	-	-	-	-	-	-
Methyl Isobutyl Ketone	µg/g	0.4 - 0.5	0.5	210	-	-	<0.40	<0.40	-	-	-	-	-	-
Methyl Tert-Butyl Ether	µg/g	0.04 - 0.05	0.05	2.3	-	-	<0.040	<0.040	-	-	-	-	-	-
Methylene Chloride	µg/g	0.049 - 0.05	0.05	2	-	-	<0.049	<0.049	-	-	-	-	-	-
Styrene	µg/g	0.04 - 0.05	0.05	43	-	-	<0.040	<0.040	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/g	0.04 - 0.05	0.05	0.11	-	-	<0.040	<0.040	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/g	0.04 - 0.05	0.05	0.094	-	-	<0.040	<0.040	-	-	-	-	-	-
Tetrachloroethylene	µg/g	0.04 - 0.05	0.05	2.5	-	-	<0.040	<0.040	-	-	-	-	-	-
Toluene	µg/g	0.02 - 0.08	0.2	9	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
1,1,1-Trichloroethane	µg/g	0.04 - 0.05	0.05	12	-	-	<0.040	<0.040	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/g	0.04 - 0.05	0.05	0.11	-	-	<0.040	<0.040	-	-	-	-	-	-
Trichloroethylene	µg/g	0.01	0.05	0.61	-	-	<0.010	<0.010	-	-	-	-	-	-
Trichlorofluoromethane	µg/g	0.04 - 0.05	0.25	5.8	-	-	<0.040	<0.040	-	-	-	-	-	-
Vinyl Chloride	µg/g	0.019 - 0.02	0.02	0.25	-	-	<0.019	<0.019	-	-	-	-	-	-
o-Xylene	µg/g	0.02	NR	NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	µg/g	0.02 - 0.04	NR	NR	<0.040	<0.040	<0.020	<0.020	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
Xylene Mixture	µg/g	0.02 - 0.05	0.05	30	<0.040	<0.040	<0.020	<0.020	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040

Notes:
2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold - Exceeds 2011 Table 1 SCS

Bold - Exceeds 2011 Table 6 SCS

"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 9: Metals and Hydride-Forming Metals Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	Sample Location		MW102-22	MW103-22	MW104-22	MW104-22	MW106-22	MW116-22	MW116-22
					Sample Name		MW102-22	MW103-22	MW104-22	MW104-22 Lab-Dup	MW106-22	MW116-22	MW1116-22
					Lab Job #		C2A8599	C2B6840	C2B7785	C2B7785	C2A8599	C2A6668	C2A6668
					Laboratory ID		SLC576	SMV850	SNB283	SNB283	SLC577	SKQ995	SKR000
					Sampling Date		25-Apr-2022	02-May-2022	02-May-2022	02-May-2022	25-Apr-2022	21-Apr-2022	21-Apr-2022
					Well Screen Interval (m bgs)		13.7-15.2	2.3-3.2	2.3-3.2	2.3-3.2	7.3-8.8	3.7-6.7	3.7-6.7
					Maximum Concentration					Laboratory Duplicate			Field Duplicate
Metals and Hydride-Forming Metals													
Antimony	µg/L		1.5	6		0.74	<0.50	-	-	-	<0.50	<0.50	<0.50
Arsenic	µg/L		13	25		5.7	1.4	-	-	-	<1.0	2.7	2.6
Barium	µg/L		610	1000		290	61	84	99	99	110	110	110
Beryllium	µg/L		0.5	4	<	0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Boron	µg/L		1700	5000		64	56	64	26	25	60	40	36
Cadmium	µg/L		0.5	2.1	<	0.09	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
Chromium	µg/L		11	50		**61**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Cobalt	µg/L		3.8	3.8		1.7	0.82	0.78	1.7	1.6	0.61	<0.50	<0.50
Copper	µg/L		5	69		**12**	<0.90	0.98	<0.90	<0.90	<0.90	1.4	3.8
Lead	µg/L		1.9	10	<	0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Molybdenum	µg/L		23	70		**27**	4.1	2.7	2.7	2.7	9.7	8.2	8.7
Nickel	µg/L		14	100		**25**	2.2	<1.0	**24**	**25**	4.9	1.1	1.3
Selenium	µg/L		5	10	<	2	<2.0	-	-	-	<2.0	<2.0	<2.0
Silver	µg/L		0.3	1.2	<	0.09	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
Thallium	µg/L		0.5	2	<	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	µg/L		8.9	20		7.3	0.62	1.5	1.1	1.1	0.81	1.2	1.2
Vanadium	µg/L		3.9	6.2		**12**	<0.50	<0.50	<0.50	<0.50	<0.50	1.3	1.3
Zinc	µg/L		160	890		5.3	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.3
pH	pH units		NR	NR		9.98	8.1	-	-	-	8.5	7.92	-

Notes:
2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 1 SCS
Bold	- Exceeds 2011 Table 6 SCS

"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 9: Metals and Hydride-Forming Metals Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	MW122-22	MW122-22	MW122-22	MW123-22	MW123-22	MW124-22	MW124-22	MW125-22
					MW122-22	MW122-22	MW122-22 Lab-Dup	MW123-22	MW123-22	MW124-22	MW124-22	MW125-22
					C2A6668	C2B6840	C2B6840	C2A6668	C2B6840	C2A6668	C2B6840	C2A6668
					SKQ996	SMV848	SMV848	SKQ997	SMV847	SKQ998	SMV849	SKQ999
					21-Apr-2022	02-May-2022	02-May-2022	21-Apr-2022	02-May-2022	21-Apr-2022	02-May-2022	21-Apr-2022
					3.7-6.7	3.7-6.7	3.7-6.7	3.7-6.7	3.7-6.7	3.7-6.7	3.7-6.7	3.1-6.1
Metals and Hydride-Forming Metals												
Antimony	µg/L		1.5	6	<0.50	-	-	<0.50	-	0.74	-	<0.50
Arsenic	µg/L		13	25	<1.0	-	-	5.7	-	3.1	-	1.2
Barium	µg/L		610	1000	22	63	63	290	260	50	74	150
Beryllium	µg/L		0.5	4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Boron	µg/L		1700	5000	23	16	16	52	62	59	51	43
Cadmium	µg/L		0.5	2.1	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
Chromium	µg/L		11	50	**61**	<5.0	<5.0	<5.0	<5.0	**19**	<5.0	<5.0
Cobalt	µg/L		3.8	3.8	0.61	<0.50	<0.50	<0.50	<0.50	1	0.68	0.79
Copper	µg/L		5	69	**7.8**	1.4	1.4	<0.90	1	**12**	**5.1**	3.3
Lead	µg/L		1.9	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Molybdenum	µg/L		23	70	18	2.3	2.4	2.5	5.2	**27**	13	3.8
Nickel	µg/L		14	100	2.6	<1.0	<1.0	**16**	<1.0	9	5.6	2.7
Selenium	µg/L		5	10	<2.0	-	-	<2.0	-	<2.0	-	<2.0
Silver	µg/L		0.3	1.2	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
Thallium	µg/L		0.5	2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Uranium	µg/L		8.9	20	4.2	2.9	2.9	0.29	0.99	2.3	7.3	3.8
Vanadium	µg/L		3.9	6.2	**4.7**	0.53	0.54	<0.50	<0.50	**12**	**4.2**	<0.50
Zinc	µg/L		160	890	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
pH	pH units		NR	NR	9.98	-	-	7.89	-	8.77	-	7.73

Notes:
2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 1 SCS
Bold	- Exceeds 2011 Table 6 SCS

"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 10: Organochlorine Pesticides (OC) Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	Sample Location		MW116-22	MW122-22	MW123-22	MW123-22	MW124-22	MW125-22
					Sample Name		MW116-22	MW122-22	MW123-22	MW123-22 Lab-Dup	MW124-22	MW125-22
					Lab Job #		C2A6668	C2A6668	C2A6668	C2A6668	C2A6668	C2A6668
					Laboratory ID		SKQ995	SKQ996	SKQ997	SKQ997	SKQ998	SKQ999
					Sampling Date		21-Apr-2022	21-Apr-2022	21-Apr-2022	21-Apr-2022	21-Apr-2022	21-Apr-2022
					Well Screen Interval (m bgs)		3.7-6.7	3.7-6.7	3.7-6.7	3.7-6.7	3.7-6.7	3.1-6.1
					Maximum Concentration					Laboratory Duplicate		
Organochlorine Pesticides (OCs)												
Aldrin	µg/L		0.01	0.35	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
alpha-Chlordane	µg/L		NR	NR	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
gamma-Chlordane	µg/L		NR	NR	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Chlordane (Total)	µg/L		0.06	0.06	<	0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
o,p-DDD	µg/L		NR	NR	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
p,p-DDD	µg/L		NR	NR	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o,p-DDD + p,p-DDD	µg/L		1.8	1.8	<	0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
o,p-DDE	µg/L		NR	NR	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
p,p-DDE	µg/L		NR	NR	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o,p-DDE + p,p-DDE	µg/L		10	10	<	0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
o,p-DDT	µg/L		NR	NR	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
p,p-DDT	µg/L		NR	NR	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
o,p-DDT + p,p-DDT	µg/L		0.05	0.05	<	0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
Dieldrin	µg/L		0.05	0.35	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan I	µg/L		NR	NR	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Endosulfan II	µg/L		NR	NR	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Endosulfan	µg/L		0.05	0.56	<	0.005	<0.005	<0.005	<0.005	-	<0.005	<0.005
Endrin	µg/L		0.05	0.36	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor	µg/L		0.01	0.038	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Heptachlor epoxide	µg/L		0.01	0.038	<	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Hexachlorobenzene	µg/L		0.01	1	<	0.007	<0.005	<0.007	<0.005	<0.005	<0.005	**<0.02R**
Hexachlorobutadiene	µg/L		0.01	0.012	<	0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
gamma-Hexachlorocyclohexane (Lindane)	µg/L		0.01	0.95	<	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Hexachloroethane	µg/L		0.01	0.17	<	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methoxychlor	µg/L		0.05	0.3	<	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Notes:
2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold	- Exceeds 2011 Table 1 SCS
Bold	- Exceeds 2011 Table 6 SCS
R	- Results rejected. Refer to report text for details and rationale.

"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 11: Petroleum Hydrocarbons (PHCs) Analysis in Groundwater

Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	Sample Location		MW116-22	MW122-22	MW123-22	MW124-22	MW125-22	TRIP BLANK
					Sample Name		MW116-22	MW122-22	MW123-22	MW124-22	MW125-22	TRIP BLANK
					Lab Job #		C2A6668	C2A6668	C2A6668	C2A6668	C2A6668	C2A6668
					Laboratory ID		SKQ995	SKQ996	SKQ997	SKQ998	SKQ999	SKR001
					Sampling Date		21-Apr-2022	21-Apr-2022	21-Apr-2022	21-Apr-2022	21-Apr-2022	21-Apr-2022
					Well Screen Interval (m bgs)		3.7-6.7	3.7-6.7	3.7-6.7	3.7-6.7	3.1-6.1	
					Maximum Concentration							Trip Blank
Petroleum Hydrocarbons (PHCs)												
F1 (C6 to C10)	µg/L	25	420	420	<	25	<25	<25	<25	<25	<25	<25
F1 (C6 to C10) minus BTEX	µg/L	25	420	420	<	25	<25	<25	<25	<25	<25	<25
F2 (C10 to C16)	µg/L		150	150	<	100	<100	<100	<100	<100	<100	-
F3 (C16 to C34)	µg/L		500	500	<	200	<200	<200	<200	<200	<200	-
F4 (C34 to C50)	µg/L		500	500	<	200	<200	<200	<200	<200	<200	-
Reached Baseline at C50	unitless		NR	NR		NA	YES	YES	YES	YES	YES	-

Notes:
2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)
Bold - Exceeds 2011 Table 1 SCS
Bold - Exceeds 2011 Table 6 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Table 12: Volatile Organic Compounds (VOCs) Analysis in Groundwater

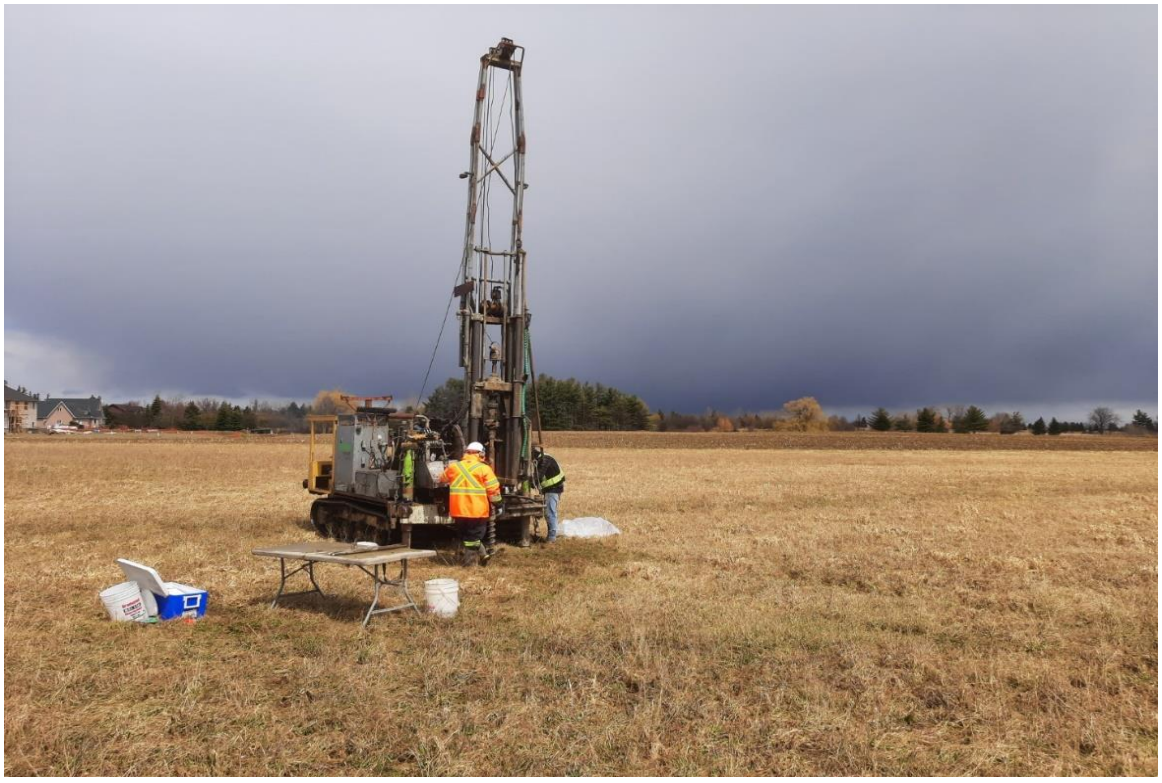
Parameters	Unit	RDL	2011 Table 1 SCS (R/P/I or I/C/C, Med/Fine)	2011 Table 6 SCS (I/C/C, Med/Fine)	Sample Location		MW116-22	MW122-22	MW123-22	MW124-22	MW125-22	TRIP BLANK
					Sample Name		MW116-22	MW122-22	MW123-22	MW124-22	MW125-22	TRIP BLANK
					Lab Job #		C2A6668	C2A6668	C2A6668	C2A6668	C2A6668	C2A6668
					Laboratory ID		SKQ995	SKQ996	SKQ997	SKQ998	SKQ999	SKR001
					Sampling Date		21-Apr-2022	21-Apr-2022	21-Apr-2022	21-Apr-2022	21-Apr-2022	21-Apr-2022
					Well Screen Interval (m bgs)		3.7-6.7	3.7-6.7	3.7-6.7	3.7-6.7	3.1-6.1	
					Maximum Concentration							Trip Blank
Volatile Organic Compounds (VOCs)												
Acetone	µg/L	10	2700	2700	<	10	-	-	<10	-	<10	-
Benzene	µg/L	0.17 - 0.2	0.5	0.5	<	0.2	<0.20	<0.20	<0.17	<0.20	<0.17	<0.20
Bromodichloromethane	µg/L	0.5	2	16	<	0.5	-	-	<0.50	-	<0.50	-
Bromoform	µg/L	1	5	5	<	1	-	-	<1.0	-	<1.0	-
Bromomethane	µg/L	0.5	0.89	0.89	<	0.5	-	-	<0.50	-	<0.50	-
Carbon Tetrachloride	µg/L	0.2	0.2	0.2	<	0.2	-	-	<0.20	-	<0.20	-
Chlorobenzene	µg/L	0.2	0.5	30	<	0.2	-	-	<0.20	-	<0.20	-
Chloroform	µg/L	0.2	2	2	<	0.2	-	-	<0.20	-	<0.20	-
Dibromochloromethane	µg/L	0.5	2	25	<	0.5	-	-	<0.50	-	<0.50	-
1,2-Dichlorobenzene	µg/L	0.5	0.5	3	<	0.5	-	-	<0.50	-	<0.50	-
1,3-Dichlorobenzene	µg/L	0.5	0.5	59	<	0.5	-	-	<0.50	-	<0.50	-
1,4-Dichlorobenzene	µg/L	0.5	0.5	0.5	<	0.5	-	-	<0.50	-	<0.50	-
Dichlorodifluoromethane	µg/L	1	590	590	<	1	-	-	<1.0	-	<1.0	-
1,1-Dichloroethane	µg/L	0.2	0.5	5	<	0.2	-	-	<0.20	-	<0.20	-
1,2-Dichloroethane	µg/L	0.5	0.5	0.5	<	0.5	-	-	<0.50	-	<0.50	-
1,1-Dichloroethylene	µg/L	0.2	0.5	0.5	<	0.2	-	-	<0.20	-	<0.20	-
Ethylbenzene	µg/L	0.2	0.5	2.4		0.41	0.41	<0.20	<0.20	<0.20	<0.20	<0.20
cis-1,2-Dichloroethylene	µg/L	0.5	1.6	1.6	<	0.5	-	-	<0.50	-	<0.50	-
trans-1,2-Dichloroethylene	µg/L	0.5	1.6	1.6	<	0.5	-	-	<0.50	-	<0.50	-
1,2-Dichloropropane	µg/L	0.2	0.5	0.58	<	0.2	-	-	<0.20	-	<0.20	-
cis-1,3-Dichloropropene	µg/L	0.3	NR	NR	<	0.3	-	-	<0.30	-	<0.30	-
trans-1,3-Dichloropropene	µg/L	0.4	NR	NR	<	0.4	-	-	<0.40	-	<0.40	-
1,3-Dichloropropene	µg/L	0.5	0.5	0.5	<	0.5	-	-	<0.50	-	<0.50	-
Ethylene Dibromide	µg/L	0.2	0.2	0.2	<	0.2	-	-	<0.20	-	<0.20	-
Hexane (n)	µg/L	1	5	5	<	1	-	-	<1.0	-	<1.0	-
Methyl Ethyl Ketone	µg/L	10	400	1800	<	10	-	-	<10	-	<10	-
Methyl Isobutyl Ketone	µg/L	5	640	640	<	5	-	-	<5.0	-	<5.0	-
Methyl Tert-Butyl Ether	µg/L	0.5	15	15	<	0.5	-	-	<0.50	-	<0.50	-
Methylene Chloride	µg/L	2	5	26	<	2	-	-	<2.0	-	<2.0	-
Styrene	µg/L	0.5	0.5	5.4	<	0.5	-	-	<0.50	-	<0.50	-
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	1.1	<	0.5	-	-	<0.50	-	<0.50	-
1,1,2,2-Tetrachloroethane	µg/L	0.5	0.5	0.5	<	0.5	-	-	<0.50	-	<0.50	-
Tetrachloroethylene	µg/L	0.2	0.5	0.5	<	0.2	-	-	<0.20	-	<0.20	-
Toluene	µg/L	0.2	0.8	24	<	0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,1-Trichloroethane	µg/L	0.2	0.5	23	<	0.2	-	-	<0.20	-	<0.20	-
1,1,2-Trichloroethane	µg/L	0.5	0.5	0.5	<	0.5	-	-	<0.50	-	<0.50	-
Trichloroethylene	µg/L	0.2	0.5	0.5	<	0.2	-	-	<0.20	-	<0.20	-
Trichlorofluoromethane	µg/L	0.5	150	150	<	0.5	-	-	<0.50	-	<0.50	-
Vinyl Chloride	µg/L	0.2	0.5	0.5	<	0.2	-	-	<0.20	-	<0.20	-
o-Xylene	µg/L	0.2	NR	NR		0.9	0.9	0.23	<0.20	<0.20	<0.20	<0.20
m+p-Xylene	µg/L	0.2 - 0.4	NR	NR		1.4	1.4	0.54	<0.20	<0.40	<0.20	<0.40
Xylene Mixture	µg/L	0.2 - 0.4	72	72		2.3	2.3	0.77	<0.20	<0.40	<0.20	<0.40

Notes:
2011 Site Condition Standards (SCS) - As identified in 'Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act' (as amended April 15, 2011)

Bold - Exceeds 2011 Table 1 SCS
Bold - Exceeds 2011 Table 6 SCS
"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Appendix A

Site Photographs



Photograph No. 1– View of the advancement of borehole BH107-22 in the north portion of the agricultural fields.

Photograph No. 2 – View of the native clayey silt till observed at borehole MW116-22, advance on the east side of the storage barn.

Photograph No. 3 – View of the advancement of borehole BH121-22 south of the farmhouse in the vicinity of the former in-ground pool.

Photograph No. 4 – View of the farmhouse and the storage shed facing west from the gravel driveway.

Photograph No. 5 – View of the native clayey silt till observed at borehole MW122-22, advance on the south side of the storage shed.

Photograph No. 6 – View of the farm equipment storage and the workshop building facing south.

Photograph No. 7 – View of the advancement of borehole MW123-22 in the vicinity of the diesel ASTs.

Photograph No. 8 – View of the fill material and underlying clayey silt till observed at borehole MW123-22.

Photograph No. 9 – View of the native silt till observed at borehole MW124-22, advanced on the north side of the storage shed.

Appendix B

Borehole Logs

ID No.: MW101-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/19/2022

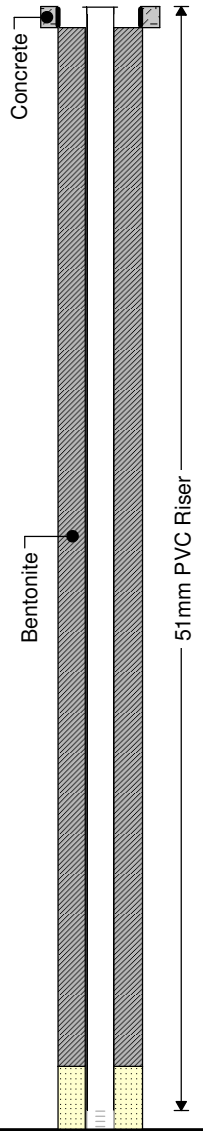
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	267.1							
0 / 0		**TOPSOIL** dark brown sandy silt, very moist (600mm)	0.0	1	SS	80		0	0	
			266.5							
2		**CLAYEY SILT** firm brown clayey silt, with grey mottling, APL to WTPL	0.6							
			266.2							
4		**SILT AND SAND** loose brown silt and sand, saturated	0.9	2	SS	100		0	0	
			265.6							
6 / 2		**SAND AND SILT** compact brown sand and silt, saturated	1.5	3	SS	100				
			264.8							
8		**SAND** dense brown sand, some silt, very moist to wet	2.3	4	SS	100				
			264.1							
10		**SAND AND SILT TILL** dense brown sand and silt, trace clay and gravel, moist to very moist	3.0	5	SS	70				
12 / 4										
14			262.5							
16		**SANDY SILT TILL** very dense grey sandy silt, trace to some clay, trace gravel, very moist	4.6	6	SS	60				
18										
20 / 6			261.0							
		SILT TILL very dense to compact grey silt, some clay and sand, trace gravel, very moist	6.1	7	SS	10				
22										
24										



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

Groundwater Level measured at 8.27 mbgs (258.843 masl) on April 27,2022.

ID No.: MW101-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/19/2022

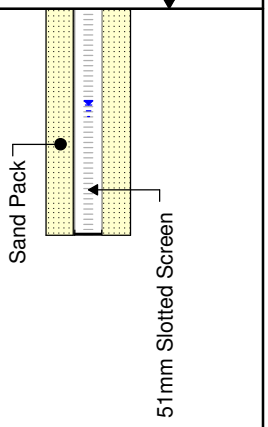
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
26 – 8				8	SS	60				
28										
30			258.0							
		SAND compact grey sand, trace silt, saturated	9.1	9	SS	80				
32 – 10										
34										
36				10	SS	40				
			255.8 11.3							
38										
40 – 12										
42										
44										
46 – 14										
48										
50										



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

Sheet: 1 of 2

Groundwater Level measured at 8.27 mbgs (258.843 masl) on April 27,2022.

ID No.: MW102-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/19/2022

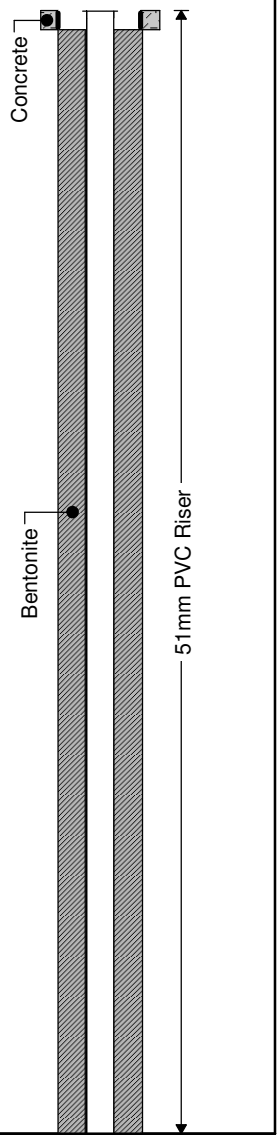
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	270.8							
0 / 0		**TOPSOIL** dark brown sandy silt, very moist (760mm)	0.0	1	SS	50	Metals, As, Sb, Se, OCs	0	0	
			270.0							
2 /		**CLAYEY SILT TILL** very stiff to hard brown clayey silt, trace to some sand, trace gravel, DTPL	0.8	2	SS	80		0	0	
4 /				3	SS	90				
6 / 2				4	SS	100				
8 /										
10 /		occasional cobbles	267.7	5	SS	100				
12 /			3.0							
14 / 4										
16 /		**SILTY SAND** very dense brown silty sand, occasional cobbles, moist	266.2 4.6	6	SS	50				
18 /										
20 / 6				7	SS	50				
22 /										
24 /										
26 / 8										



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

Groundwater Level measured at 9.97 mbgs (260.783 masl) on April 27, 2022.

ID No.: MW102-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/19/2022

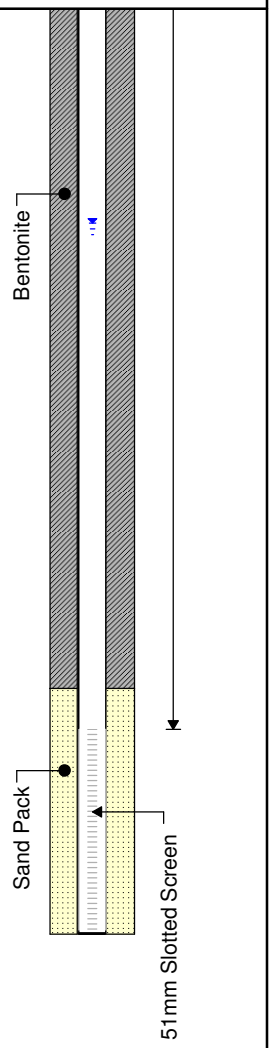
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
28			261.6							
30		grey	9.1	8	SS	50				
32	10									
34										
36										
38										
40	12	occasional shale fragments, very moist to wet	258.6 12.2	9	SS	50				
42										
44			257.0							
46	14	saturated	13.7	10	SS	40				
48										
50		Drilling Terminated	255.5 15.2							
52	16									
54										



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

Sheet: 2 of 2

Groundwater Level measured at 9.97 mbgs (260.783 masl) on April 27, 2022.

ID No.: MW103-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/14/2022

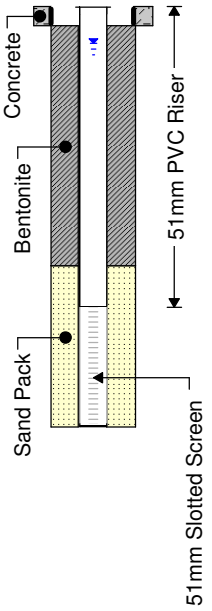
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	260.4							
0 / 0		**TOPSOIL** dark brown sandy silt, very moist to wet (760mm)	0.0	1	SS	60		0	0	
			259.7							
4		**SILT AND SAND TILL** compact brown silt and sand, some gravel and clay, saturated	0.8	2	SS	50		0	0	
			258.9							
6 / 2		**SILTY SAND TILL** compact to very dense brown silty sand, trace to some clay and gravel, wet to saturated	1.5	3	SS	50				
			258.4							
		grey	2.0							
8				4	SS	50				
			257.4							
10		**SILT TILL** very dense grey silt, some some, trace to some clay and gravel, moist	3.0	5	SS	50				
12 / 4										
14										
16				6	SS	50				
			255.2							
18		Drilling Terminated	5.2							
20 / 6										
22										
24										
26 / 8										



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

Sheet: 1 of 1

Groundwater Level measured at 0.28 mbgs (260.143masl) on April 27,2022.

ID No.: MW104-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/14/2022

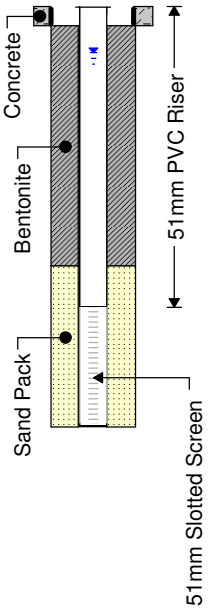
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	259.1							
0 / 0		**TOPSOIL** dark brown sandy silt, moist to very moist (760mm)	0.0	1	SS	70		0	0	
			258.3							
2 /		**SAND AND GRAVEL** compact brown sand and gravel, some silt, saturated	0.8	2	SS	60		0	0	
4 /		**SAND AND SILT TILL** compact to very dense brown sand and silt, some clay and gravel, very moist to wet		3	SS	50				
6 / 2			256.8							
8 /		saturated	2.3	4	SS	50				
10 /		**SANDY SILT TILL** dense to very dense grey sandy silt, some clay and gravel, very moist		5	SS	50				
12 /										
14 / 4										
16 /				6	SS	50				
			253.9							
18 /		Drilling Terminated	5.2							
20 / 6										
22 /										
24 /										
26 / 8										



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

Sheet: 1 of 1

Groundwater Level measured at 0.35 mbgs (258.729 masl) on April 27, 2022.

ID No.: MW105-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/14/2022

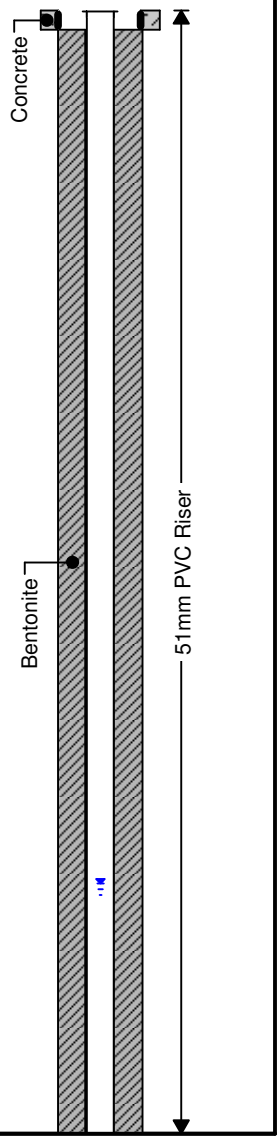
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	265.6							
		TOPSOIL dark brown sandy silt, very moist (760mm)	0.0	1	SS	20	Metals, As, Sb, Se, OCs	0	0	
			264.9							
2		**CLAYEY SILT TILL** very stiff to hard brown clayey silt, trace to some sand and gravel, DTPL	0.8	2	SS	80		0	0	
4				3	SS	100				
6 / 2				4	SS	100				
8				5	SS	100				
10										
12 / 4			261.0							
14		150mm saturated sand and gravel seam	4.6	6	SS	60				
16										
18 / 6			259.5							
20		**SILTY SAND TILL** very dense to dense grey silty sand, trace to some gravel and clay, saturated	6.1	7	SS	60				
22										
24			258.0							
26 / 8		very moist	7.6	8	SS	100				



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

Groundwater Level measured at 6.63 mbgs (258.994 masl) on April 27,2022.

ID No.: MW105-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/14/2022

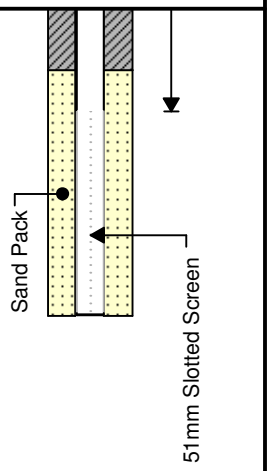
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
28										
30				9	SS	80				
32										
34			255.0							
36		**SILT TILL** very dense grey silt, trace sand, gravel, and clay, moist	10.7	10	SS	60				
38		Drilling Terminated	254.3 11.3							
40										
42										
44										
46										
48										
50										
52										
54										



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

Sheet: 2 of 2

Groundwater Level measured at 6.63 mbgs (258.994 masl) on April 27,2022.

ID No.: MW106-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/14/2022

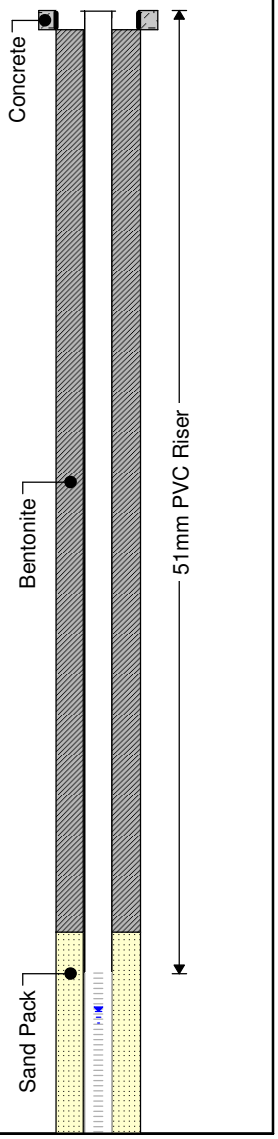
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	265.6							
0 / 0		**TOPSOIL** dark brown sandy silt, very moist (760mm)	0.0	1	SS	50	Metals, As, Sb, Se, OCs	0	0	
2			264.9							
2 / 0.8		**CLAYEY SILT TILL** very stiff to hard brown clayey silt, trace to some sand and gravel, DTPL	0.8	2	SS	70		0	0	
4										
6 / 2				3	SS	50				
8										
8				4	SS	80				
10										
10				5	SS	50				
12										
12 / 4										
14										
16				6	SS	70				
16										
18										
18										
20 / 6				7	SS	60				
22										
22										
24			258.0							
24 / 7.6		**SILTY SAND** compact to very dense grey silty sand, trace clay, saturated								
26 / 8										



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

Groundwater Level measured at 7.60 mbgs (258.030 masl) on April 27, 2022.

ID No.: MW106-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/14/2022

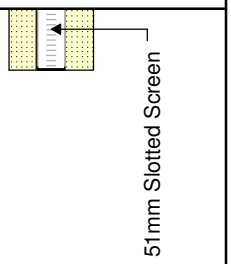
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
28										
30			256.5							
		very moist	9.1	8	SS	40				
32										
10										
34										
36										
38										
12										
40			253.4							
		SILT TILL very dense grey silt, trace sand, gravel, and clay, moist	12.2	9	SS	10				
42		Drilling Terminated								
44										
46										
14										
48										
50										
52										
16										
54										



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

Sheet: 2 of 2

Groundwater Level measured at 7.60 mbgs (258.030 masl) on April 27, 2022.

ID No.: BH107-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/8/2022

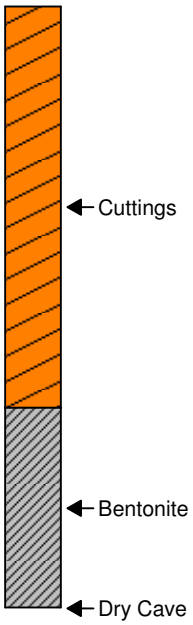
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Solid Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	269.4							
		TOPSOIL dark brown sandy silt, very moist (300mm)	0.0	1	SS	-	Metals, As, Sb, Se, OCs	-	-	
2		**CLAYEY SILT TILL** very stiff to hard brown clayey silt, trace sand and gravel, DTPL		2	SS	-		-	-	
4				3	SS	-				
6 / 2				4	SS	-				
8			266.3							
10		**SILTY SAND TILL** very dense brown silty sand, trace clay and gravel, moist	3.0	5	SS	-				
12										
14 / 4										
16			264.4	6	SS	-				
		Drilling Terminated	5.0							
18										
20 / 6										
22										
24										
26 / 8										



Borehole dry upon drilling completion

Field Technician: RMK

Drafted by: IXA

Reviewed by: KCL

MTE

ID No.: BH108-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/8/2022

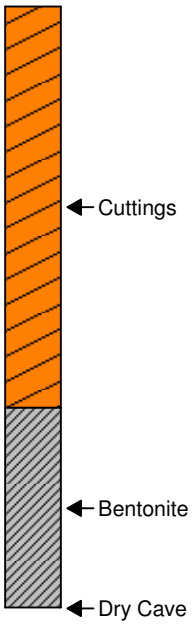
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Solid Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	268.4							
0 / 0		**TOPSOIL** dark brown sandy silt, very moist (200mm)	0.0	1	SS	80		-	-	
2		**CLAYEY SILT TILL** very stiff to hard brown clayey silt, trace sand and gravel, DTPL		2	SS	100		-	-	
4				3	SS	100				
6 / 2				4	SS	100				
8										
10		**SANDY SILT TILL** very dense to dense brown sandy silt, trace to some sand and gravel, moist	265.4 3.0	5	SS	100				
12										
14 / 4										
16		grey	263.7 4.7	6	SS	100				
		Drilling Terminated								
18										
20 / 6										
22										
24										
26 / 8										



Borehole dry upon drilling completion

Field Technician: RMK

Drafted by: IXA

Reviewed by: KCL

MTE

ID No.: BH109-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/8/2022

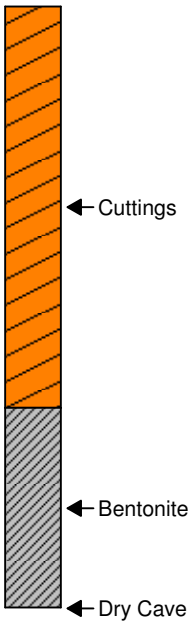
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Solid Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	269.6							
0 / 0		**TOPSOIL** dark brown sandy silt, very moist (200mm)	0.0	1	SS	50		-	-	
2		**CLAYEY SILT TILL** very stiff to hard brown clayey silt, trace to some sand, trace gravel, DTPL		2	SS	100		-	-	
4				3	SS	100				
6 / 2				4	SS	100				
8				5	SS	100				
10		grey	266.2 / 3.4	6	SS	100				
12 / 4				7	SS	100				
14			265.0 / 4.6							
16		**SANDY SILT TILL** very dense grey sandy silt, trace sand and gravel, moist	264.6 / 5.0							
18		Drilling Terminated								
20 / 6										
22										
24										
26 / 8										



Borehole dry upon drilling completion

Field Technician: RMK

Drafted by: IXA

Reviewed by: KCL

MTE

ID No.: BH110-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/8/2022

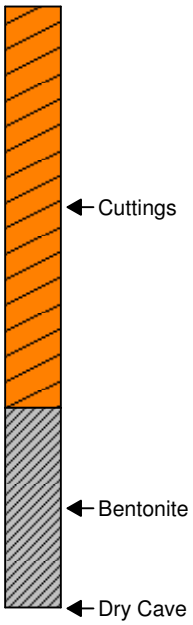
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Solid Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	267.9							
0 / 0		**TOPSOIL** dark brown sandy silt, very moist (300mm)	0.0	1	SS	80	Metals, As, Sb, Se, COs	-	-	
2		**CLAYEY SILT TILL** very stiff to hard brown clayey silt, trace gravel sand, DTPL		2	SS	100		-	-	
4				3	SS	100				
6 / 2				4	SS	100				
8										
10			264.5	5	SS	100				
12		grey	3.4							
4		**SANDY SILT TILL** very dense grey sandy silt, trace gravel and clay, moist.	263.9 4.0	6	SS	100				
14										
16				7	SS	100				
		Drilling Terminated	262.9 5.0							
18										
20 / 6										
22										
24										
26 / 8										



Borehole dry upon drilling completion

Field Technician: RMK

Drafted by: IXA

Reviewed by: KCL

MTE

ID No.: BH111-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/11/2022

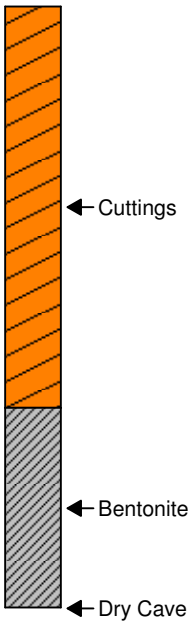
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Solid Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	267.8							
0 / 0		**TOPSOIL** dark brown sandy silt, very moist (600mm)	0.0	1	SS	40	Metals, As, Sb, Se, OCs	0	0	
			267.2							
2 /		**CLAYEY SILT TILL** very stiff to hard brown clayey silt, some sand, trace gravel, DTPL	0.6							
4 /				2	SS	80		0	0	
6 / 2				3	SS	80				
8 /				4	SS	100				
10 /				5	SS	100				
12 /										
14 / 4			263.2							
16 /		**SANDY SILT TILL** very dense grey sandy silt, some clay, trace gravel, moist	4.6	6	SS	100				
			262.6							
18 /		Drilling Terminated	5.2							
20 / 6										
22 /										
24 /										
26 / 8										



Borehole dry upon drilling completion

Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: BH112-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/11/2022

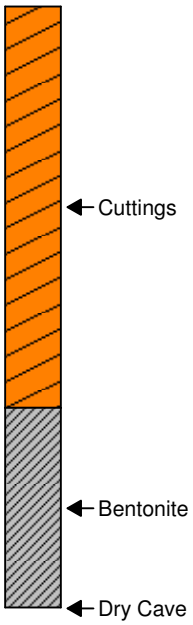
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Solid Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	266.7							
		TOPSOIL dark brown sandy silt, very moist (300mm)	0.0	1	SS	100	Metals, As, Sb, Se, COs	0	0	
2		**CLAYEY SILT TILL** very stiff to hard brown/grey clayey silt, some sand, trace gravel, DTPL		2	SS	100		0	0	
4				3	SS	50				
6 / 2				4	SS	80				
10		**SANDY SILT TILL** dense to very dense grey sandy silt, trace to some clay and gravel, moist to very moist	263.6 3.0	5	SS	100				
12										
14 / 4										
16				6	SS	100				
		Drilling Terminated	261.7 5.0							
18										
20 / 6										
22										
24										
26 / 8										



Borehole dry upon drilling completion

Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

ID No.: BH113-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/11/2022

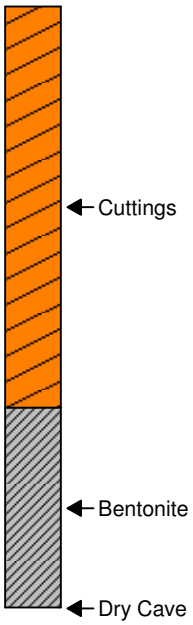
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Solid Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	267.1							
0 / 0		**TOPSOIL** dark brown sandy silt, very moist (300mm)	0.0	1	SS	40	Metals, As, Sb, Se, OCs	0	0	
2		**CLAYEY SILT TILL** very stiff to hard brown clayey silt, some sand, trace gravel, DTPL		2	SS	100		0	0	
4				3	SS	100				
6 / 2				4	SS	100				
8				5	SS	100				
10										
12 / 4										
14			262.5							
16		**SANDY SILT TILL** dense grey sandy silt, some clay, trace gravel, moist	4.6	6	SS	100				
18		Drilling Terminated	261.9 5.2							
20 / 6										
22										
24										
26 / 8										



Borehole dry upon drilling completion

Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: BH114-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/11/2022

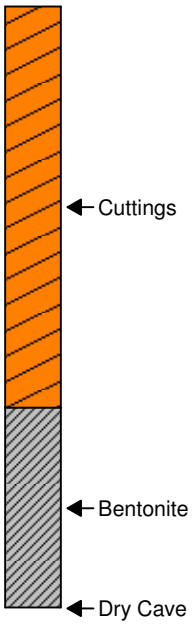
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Solid Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	266.9							
		TOPSOIL dark brown sandy silt, very moist (460mm)	0.0 / 266.5	1	SS	80		0	0	
		CLAYEY SILT TILL very stiff to hard brown/grey clayey silt, trace to some sand and gravel, DTPL	0.5	2	SS	100		0	0	
				3	SS	100				
				4	SS	100				
				5	SS	100				
			262.3							
		SANDY SILT TILL dense grey sandy silt, some clay, trace gravel, moist to very moist	4.6 / 261.7	6	SS	90				
		Drilling Terminated	5.2							



Borehole dry upon drilling completion

Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: BH115-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/11/2022

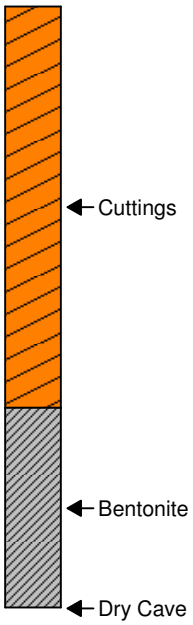
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Solid Stem Augers

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	265.9							
0 / 0		**TOPSOIL** dark brown sandy silt, very moist (760mm)	0.0	1	SS	50	Metals, As, Sb, Se, OCs	0	0	
			265.1							
2 /		**CLAYEY SILT TILL** very stiff to hard brown clayey silt, trace to some sand and gravel, DTPL	0.8	2	SS	80		0	0	
4 /				3	SS	80				
6 / 2				4	SS	<5				
8 /				5	SS	80				
10 /										
12 /										
14 / 4			261.3							
		grey	4.6	6	SS	70				
16 /			260.7							
		Drilling Terminated	5.2							
18 /										
20 / 6										
22 /										
24 /										
26 / 8										



Borehole dry upon drilling completion

Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

ID No.: MW116-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/8/2022

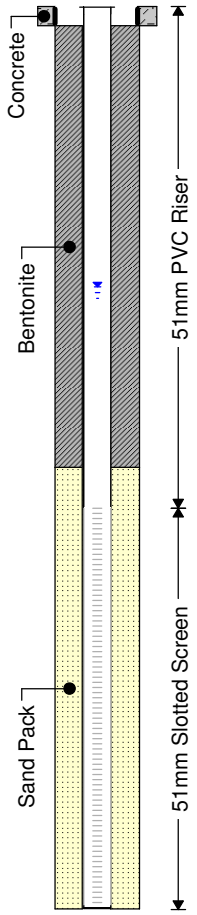
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Direct Push / Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
		Ground Surface	267.8							
0 / 0		**TOPSOIL** dark brown sandy silt, very moist (300mm)	0.0	1	DP	100	Metals, As, Sb, Se, OCs, PHCs, BTEX	0	0	
2		**CLAYEY SILT TILL** mottled brown/grey clayey silt, trace to some sand and gravel, DTPL						0	0	
4				2	DP	60	PHCs, BTEX	0	0	
6 / 2										
8								0	0	
10				3	DP	100		0	0	
12			264.0							
14 / 4		**SILTY SAND TILL** compact brown silty sand, some gravel and clay, very moist	3.8	4	SS	50		0	0	
			263.3							
16		**SILT TILL** dense grey silt, some clay, trace sand and gravel, moist	4.6	5	SS	80	Metals, As, Sb, Se, PHCs, BTEX	5	0	
			262.5							
18		**CLAYEY SILT TILL** hard grey clayey silt, trace sand and gravel, DTPL	5.3	6	SS	60		0	0	
20 / 6			261.7							
		SILTY SAND TILL very dense grey silty sand, some clay, trace gravel, saturated	6.1	7	SS	80	Metals, As, Sb, Se, OCs	5	0	
22										
			260.7	8	SS	100		0	0	
24		**CLAYEY SILT TILL** very stiff to hard grey clayey silt, trace sand and gravel, DTPL	7.2							
26 / 8		Drilling Terminated								



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

Groundwater Level measured at 2.13 mbgs (265.707 masl) on April 27, 2022.

ID No.: BH117-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/8/2022

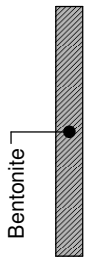
Drilling Contractor: Tri-Phase Group

Drill Rig: Geoprobe 7822DT

Drill Method: Direct Push

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	267.7							
		FILL brown sand and gravel, some silt, moist (460mm)	0.0 267.3				Metals, As, Sb, Se, PHCs, BTEX	0	0	
2		**CLAYEY SILT TILL** brown clayey silt, some sand, trace gravel, DTPL	0.5	1	DP	100				
4							PHCs, BTEX	0	0	
			266.2							
6 / 2		Drilling Terminated	1.5							
8										
10										
12 / 4										
14										
16										
18										
20 / 6										
22										



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

ID No.: BH118-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/8/2022

Drilling Contractor: Tri-Phase Group

Drill Rig: Geoprobe 7822DT

Drill Method: Direct Push

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	267.8							
		FILL brown sand and gravel, trace silt, moist (460mm)	0.0 267.4				Metals, As, Sb, Se, OCs	0	0	
2		**CLAYEY SILT TILL** brown clayey silt, some sand, trace gravel, DTPL	0.5	1	DP	90				
4			266.3					0	0	Bentonite
6 / 2		Drilling Terminated	1.5							
8										
10										
12 / 4										
14										
16										
18										
20 / 6										
22										
24										

Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: BH119-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/8/2022

Drilling Contractor: Tri-Phase Group

Drill Rig: Geoprobe 7822DT

Drill Method: Direct Push

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	268.4							
		FILL brown sand and gravel, some silt and organics, moist (760mm)	0.0				Metals, As, Sb, Se, PHCs, BTEX	5	0	
2			267.7							
		CLAYEY SILT TILL brown clayey silt, trace sand and gravel, DTPL	0.8	1	DP	100	PHCs, BTEX	0	0	Bentonite
4			266.9							
		Drilling Terminated	1.5							
6 / 2										
8										
10										
12 / 4										
14										
16										
18										
20 / 6										
22										
24										

Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: BH120-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/8/2022

Drilling Contractor: Tri-Phase Group

Drill Rig: Geoprobe 7822DT

Drill Method: Direct Push

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	268.1							
		FILL brown sand and gravel, some silt and organics, moist (600mm)	0.0 267.4				Metals, As, Sb, Se, PHCs, BTEX			
2 /		**CLAY SILT TILL** brown clayey silt, trace sand and gravel, DTPL	0.6 266.5	1	DP	100				Bentonite
4 / 2		Drilling Terminated	1.5							
6 /										
8 /										
10 /										
12 / 4										
14 /										
16 /										
18 /										
20 / 6										
22 /										
24 /										

Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

Sheet: 1 of 1

ID No.: BH121-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/8/2022

Drilling Contractor: Tri-Phase Group

Drill Rig: Geoprobe 7822DT

Drill Method: Direct Push

Protective Cover: N/A

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	268.1							
		FILL brown silty sand and gravel, some organics, wet	0.0				PHCs, BTEX	1	0	
			267.5							
2		brown/grey sand and gravel, some silt and organics, wet to saturated	0.6	1	DP		Metals, As, Sb, Se, PAHs, PHCs, BTEX	0	0	
4										
6 / 2				2	DP		PHCs, BTEX	0	0	
8			265.3					0	0	
		Drilling Terminated	2.7							
10										
12 / 4										
14										
16										
18										
20 / 6										
22										
24										

Bentonite

Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

MTE

Sheet: 1 of 1

Refusal on concrete slab at 2.7m bgs.

ID No.: MW122-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/11/2022

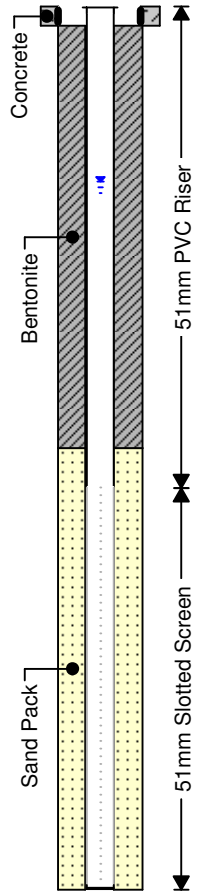
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	268.4							
		FILL loose brown sand and gravel, trace silt and asphalt particles, very moist (760mm)	0.0	1	SS	40	Metals, As, Sb, Se, Hg, PAHs, PHCs, BTEX	0	0	
2			267.6							
		SANDY CLAYEY SILT TILL very stiff to hard brown sandy clayey silt, trace gravel, DTPL	0.8	2	SS	100		0	0	
4 / 2				3	SS	90		0	0	
8				4	SS	100	PHCs, BTEX	0	25	
10				5	SS	100		0	0	
12 / 4										
14			263.8							
16		**SILT TILL** compact grey silt, some clay, trace sand and gravel, very moist to wet	4.6	6	SS	100		0	0	
18										
20 / 6				7	SS	100		0	0	
22			261.7							
		Drilling Terminated	6.7							
24										
26 / 8										



Field Technician: AAL

Drafted by: IXA

Reviewed by: KCL

Groundwater Level measured at 1.33 mbgs (267.040 masl) on April 27, 2022.

ID No.: MW123-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/11/2022

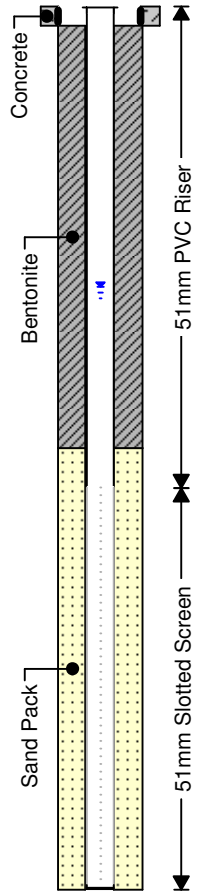
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile				Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)		
0 / 0		Ground Surface	267.9								
		FILL loose brown sand and gravel, trace silt and asphalt particles, very moist (760mm)	0.0	1	SS	70	Metals, As, Sb, Se, Hg, PAHs, PHCs, BTEX	0	0		
2			267.1								
		compact brown sandy clayey silt, trace gravel and asphalt particles, moist	0.8	2	SS	85		0	0		
4			266.4								
6 / 2		**SANDY CLAYEY SILT TILL** very stiff to hard brown sandy clayey silt, trace gravel, DTPL	1.5	3	SS	70		0	0		
8				4	SS	100	PHCs, BTEX	0	5		
10			264.8								
12 / 4		**CLAYEY SILT TILL** very stiff to hard brown clayey silt, trace sand and gravel, DTPL	3.0	5	SS	100		0	0		
14			263.3								
16		**SILT TILL** compact to very dense grey silt, some clay, trace sand and gravel, very moist	4.6	6	SS	80		0	0		
18				7	SS	100		0	0		
20 / 6											
22				8	SS	100		0	0		
			261.2								
		Drilling Terminated	6.7								
24											
26 / 8											



Field Technician: AAL

Drafted by: IXA

Reviewed by: KCL

Groundwater Level measured at 2.13 mbgs (265.754 masl) on April 27, 2022.

ID No.: MW124-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/11/2022

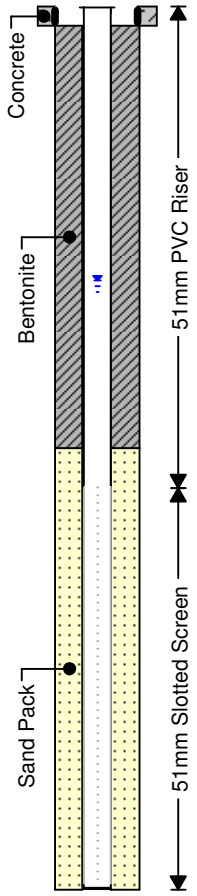
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) / Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	268.3							
		FILL compact brown sand and gravel, some silt and asphalt particles, very moist (760mm)	0.0	1	SS	85	Metals, As, Sb, Se, Hg, PAHs, PHCs, BTEX	0	0	
2			267.6							
		CLAYEY SILT TILL very stiff brown clayey silt, some sand, trace gravel, DTPL	0.8	2	SS	80		0	0	
4 / 2				3	SS	100		0	0	
6				4	SS	100		0	0	
8				5	SS	100		0	0	
10										
12 / 4			263.8							
14		**SILT TILL** compact to dense grey silt, some clay, sand, and gravel, moist	4.6	6	SS	100	PHCs, BTEX	1	0	
16										
18				7	SS	100		0	0	
20 / 6			261.6							
22		Drilling Terminated	6.7							
24										
26 / 8										



Field Technician: AAL

Drafted by: IXA

Reviewed by: KCL

Groundwater Level measured at 2.08 mbgs (266.264 masl) on April 27, 2022.

ID No.: MW125-22

Project Name: Phase II ESA

MTE File No.: 50996-100

Client: Tribal Partners Canada Inc.

Site Location: 12861 Dixie Road, Caledon, ON

Date Completed: 4/13/2022

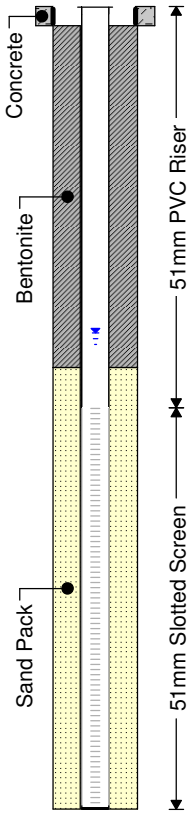
Drilling Contractor: Tri-Phase Group

Drill Rig: CME55 Track

Drill Method: Hollow Stem Augers

Protective Cover: Monument Casing

Subsurface Profile			Sample							Well Completion Details
Depth (ft / m)	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Recovery (%)	Soil Sample Lab Analysis	PID (ppm)	Hydrocarbon (ppm)	
0 / 0		Ground Surface	267.8							
		TOPSOIL dark brown sandy silt, very moist (760mm)	0.0	1	SS	40	Metals, As, Sb, Se, PAHs, PHCs, VOCs	3	0	
2			267.0							
		CLAYEY SILT TILL very stiff mottled brown/grey clayey silt, trace to some sand and gravel, APL	0.8	2	SS	50		3	0	
4			266.2							
6 / 2		**SANDY SILT TILL** very dense brown sandy silt, trace to some clay and gravel, wet	1.5	3	SS	50		0	0	
8										
10			264.7							
		CLAYEY SILT TILL very stiff to hard brown clayey silt, some sand, trace gravel, DTPL	3.0	4	SS	70		0	0	
12 / 4										
14			263.2							
		SANDY SILT TILL dense grey sandy silt, some clay, trace gravel, moist	4.6	5	SS	50	PHCs, VOCs	2	0	
16										
18			261.7							
20 / 6		**SILTY SAND** compact to very dense grey silty sand, trace clay, saturated	6.1	6	SS	50		2	0	
22										
				7	SS	40		0	0	
24			260.3							
		Drilling Terminated	7.5							
26 / 8										



Field Technician: IXA

Drafted by: IXA

Reviewed by: KCL

Groundwater Level measured at 2.48 mbgs (265.281 masl) on April 27, 2022.

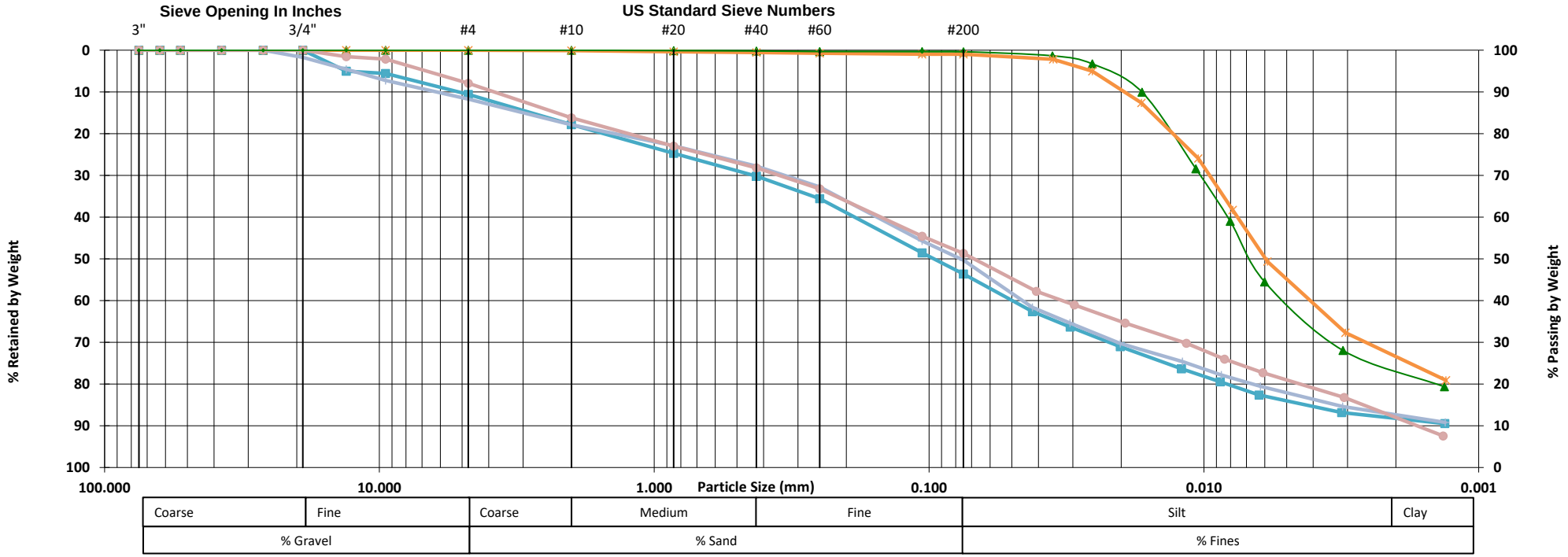
Appendix C

Laboratory Certificates of Analysis

Particle Size Distribution Analysis Test Results

Project Name:	**12861 Dixie Road Engineering Services**	**Date Sampled:**	**Apr. 8-19, 2022**	**MTE File No.:**	**50996-100**
Client:	**Tribal Partners**	**Date Tested:**	**May 2-5, 2022**	**Table No:**	**101**
Project Location:	**12861 Dixie Road, Caledon, ON**				

Unified Soil Classification



Symbol	Borehole ID	Sample #	Sample Depth	Description
▲	MW101-22	SS-8	7.6-8.2 mbgs	Clayey SILT, trace Sand
■	MW102-22	SS-9	12.2-12.8 mbgs	SAND and SILT, some Clay and Gravel
✳	MW103-22	SS-5	3.0-3.7 mbgs	Clayey SILT, trace Sand
+	MW104-22	SS-3	1.5-2.1 mbgs	SAND and SILT, some Clay and Gravel
●	MW105-22	SS-9	9.1-9.8 mbgs	SAND and SILT, some Clay, trace Gravel

CERTIFIED BY CCIL
Canadian Council of Independent Laboratories
For specific tests as listed on www.ccil.com

NOTES:

Your Project #: 50996-100
Your C.O.C. #: n/a

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/29
Report #: R7104958
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2A0337
Received: 2022/04/14, 16:24

Sample Matrix: Soil
Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	1	N/A	2022/04/26	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	2	N/A	2022/04/21		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	1	N/A	2022/04/28	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	2	2022/04/21	2022/04/22	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	1	2022/04/27	2022/04/27	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric)	1	2022/04/25	2022/04/25	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS	3	2022/04/21	2022/04/22	CAM SOP-00447	EPA 6020B m
Moisture	4	N/A	2022/04/19	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	1	N/A	2022/04/27	CAM SOP-00445	Carter 2nd ed 51.2 m
OC Pesticides (Selected) & PCB (3)	2	2022/04/20	2022/04/21	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	2	N/A	2022/04/20	CAM SOP-00307	EPA 8081/8082 m
PAH Compounds in Soil by GC/MS (SIM)	1	2022/04/25	2022/04/26	CAM SOP-00318	EPA 8270D m
Volatile Organic Compounds and F1 PHCs	2	N/A	2022/04/20	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Your Project #: 50996-100
Your C.O.C. #: n/a

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/29
Report #: R7104958
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C2A0337
Received: 2022/04/14, 16:24

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.
(3) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key

Ronklin Gracian
Project Manager
29 Apr 2022 13:52:03

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

Bureau Veritas ID		SJH690	SJH693	SJH728	SJH728		
Sampling Date		2022/04/14 13:55	2022/04/13 14:30	2022/04/13 11:10	2022/04/13 11:10		
COC Number		n/a	n/a	n/a	n/a		
	UNITS	**MW106-22 0-2**	**BH115-22 0-2**	**MW125-22 0-2**	**MW125-22 0-2 Lab-Dup**	**RDL**	**QC Batch**
Metals							
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	0.23	0.22	0.20	7951647
Acid Extractable Arsenic (As)	ug/g	4.8	4.5	3.3	3.4	1.0	7951647
Acid Extractable Barium (Ba)	ug/g	75	61	55	54	0.50	7951647
Acid Extractable Beryllium (Be)	ug/g	0.72	0.67	0.36	0.36	0.20	7951647
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	8.2	8.6	5.0	7951647
Acid Extractable Cadmium (Cd)	ug/g	0.15	0.11	0.33	0.31	0.10	7951647
Acid Extractable Chromium (Cr)	ug/g	23	19	17	16	1.0	7951647
Acid Extractable Cobalt (Co)	ug/g	10	9.8	6.8	6.7	0.10	7951647
Acid Extractable Copper (Cu)	ug/g	28	31	35	33	0.50	7951647
Acid Extractable Lead (Pb)	ug/g	12	10	24	23	1.0	7951647
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	1.0	0.74	0.50	7951647
Acid Extractable Nickel (Ni)	ug/g	24	20	14	15	0.50	7951647
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	7951647
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	7951647
Acid Extractable Thallium (Tl)	ug/g	0.14	0.12	0.10	0.10	0.050	7951647
Acid Extractable Uranium (U)	ug/g	0.54	0.45	0.38	0.37	0.050	7951647
Acid Extractable Vanadium (V)	ug/g	34	29	33	33	5.0	7951647
Acid Extractable Zinc (Zn)	ug/g	63	57	82	81	5.0	7951647

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SJH690	SJH693		
Sampling Date		2022/04/14 13:55	2022/04/13 14:30		
COC Number		n/a	n/a		
	UNITS	**MW106-22 0-2**	**BH115-22 0-2**	**RDL**	**QC Batch**
Inorganics					
Moisture	%	21	18	1.0	7947655
Calculated Parameters					
Chlordane (Total)	ug/g	<0.0020	<0.0020	0.0020	7946816
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7946816
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7946816
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7946816
Total Endosulfan	ug/g	<0.0020	<0.0020	0.0020	7946816
Pesticides & Herbicides					
Aldrin	ug/g	<0.0020	<0.0020	0.0020	7949569
a-Chlordane	ug/g	<0.0020	<0.0020	0.0020	7949569
g-Chlordane	ug/g	<0.0020	<0.0020	0.0020	7949569
o,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7949569
p,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7949569
o,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7949569
p,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7949569
o,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7949569
p,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7949569
Dieldrin	ug/g	<0.0020	<0.0020	0.0020	7949569
Lindane	ug/g	<0.0020	<0.0020	0.0020	7949569
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	0.0020	7949569
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	0.0020	7949569
Endrin	ug/g	<0.0020	<0.0020	0.0020	7949569
Heptachlor	ug/g	<0.0020	<0.0020	0.0020	7949569
Heptachlor epoxide	ug/g	<0.0020	<0.0020	0.0020	7949569
Hexachlorobenzene	ug/g	<0.0020	<0.0020	0.0020	7949569
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	0.0020	7949569
Hexachloroethane	ug/g	<0.0020	<0.0020	0.0020	7949569
Methoxychlor	ug/g	<0.0050	<0.0050	0.0050	7949569
Surrogate Recovery (%)					
2,4,5,6-Tetrachloro-m-xylene	%	58	78		7949569
Decachlorobiphenyl	%	68	96		7949569

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SJH728		
Sampling Date		2022/04/13 11:10		
COC Number		n/a		
	UNITS	**MW125-22 0-2**	**RDL**	**QC Batch**
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/g	<0.071	0.071	7946452
Polyaromatic Hydrocarbons				
Acenaphthene	ug/g	<0.050	0.050	7958015
Acenaphthylene	ug/g	<0.050	0.050	7958015
Anthracene	ug/g	<0.050	0.050	7958015
Benzo(a)anthracene	ug/g	<0.050	0.050	7958015
Benzo(a)pyrene	ug/g	<0.050	0.050	7958015
Benzo(b/j)fluoranthene	ug/g	<0.050	0.050	7958015
Benzo(g,h,i)perylene	ug/g	0.064	0.050	7958015
Benzo(k)fluoranthene	ug/g	<0.050	0.050	7958015
Chrysene	ug/g	<0.050	0.050	7958015
Dibenzo(a,h)anthracene	ug/g	<0.050	0.050	7958015
Fluoranthene	ug/g	<0.050	0.050	7958015
Fluorene	ug/g	<0.050	0.050	7958015
Indeno(1,2,3-cd)pyrene	ug/g	<0.050	0.050	7958015
1-Methylnaphthalene	ug/g	<0.050	0.050	7958015
2-Methylnaphthalene	ug/g	<0.050	0.050	7958015
Naphthalene	ug/g	<0.050	0.050	7958015
Phenanthrene	ug/g	<0.050	0.050	7958015
Pyrene	ug/g	<0.050	0.050	7958015
Surrogate Recovery (%)				
D10-Anthracene	%	106		7958015
D14-Terphenyl (FS)	%	92		7958015
D8-Acenaphthylene	%	86		7958015

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SJH729		
Sampling Date		2022/04/13 11:25		
COC Number		n/a		
	UNITS	**MW125-22 2.5-4.5**	**RDL**	**QC Batch**
Inorganics				
Moisture	%	14	1.0	7962286
BTEX & F1 Hydrocarbons				
Benzene	ug/g	<0.020	0.020	7963860
Toluene	ug/g	<0.020	0.020	7963860
Ethylbenzene	ug/g	<0.020	0.020	7963860
o-Xylene	ug/g	<0.020	0.020	7963860
p+m-Xylene	ug/g	<0.040	0.040	7963860
Total Xylenes	ug/g	<0.040	0.040	7963860
F1 (C6-C10)	ug/g	<10	10	7963860
F1 (C6-C10) - BTEX	ug/g	<10	10	7963860
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7962749
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7962749
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7962749
Reached Baseline at C50	ug/g	Yes		7962749
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	99		7963860
4-Bromofluorobenzene	%	96		7963860
D10-o-Xylene	%	106		7963860
D4-1,2-Dichloroethane	%	94		7963860
o-Terphenyl	%	102		7962749

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SJH728	SJH732		
Sampling Date		2022/04/13 11:10	2022/04/13 11:50		
COC Number		n/a	n/a		
	UNITS	**MW125-22 0-2**	**MW125-22 15-17**	**RDL**	**QC Batch**
Inorganics					
Moisture	%	16	12	1.0	7947655
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	7946313
Volatile Organics					
Acetone (2-Propanone)	ug/g	<0.49	<0.49	0.49	7947934
Benzene	ug/g	<0.0060	<0.0060	0.0060	7947934
Bromodichloromethane	ug/g	<0.040	<0.040	0.040	7947934
Bromoform	ug/g	<0.040	<0.040	0.040	7947934
Bromomethane	ug/g	<0.040	<0.040	0.040	7947934
Carbon Tetrachloride	ug/g	<0.040	<0.040	0.040	7947934
Chlorobenzene	ug/g	<0.040	<0.040	0.040	7947934
Chloroform	ug/g	<0.040	<0.040	0.040	7947934
Dibromochloromethane	ug/g	<0.040	<0.040	0.040	7947934
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7947934
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7947934
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	7947934
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	0.040	7947934
1,1-Dichloroethane	ug/g	<0.040	<0.040	0.040	7947934
1,2-Dichloroethane	ug/g	<0.049	<0.049	0.049	7947934
1,1-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7947934
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7947934
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	7947934
1,2-Dichloropropane	ug/g	<0.040	<0.040	0.040	7947934
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	7947934
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	7947934
Ethylbenzene	ug/g	<0.010	<0.010	0.010	7947934
Ethylene Dibromide	ug/g	<0.040	<0.040	0.040	7947934
Hexane	ug/g	<0.040	<0.040	0.040	7947934
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	0.049	7947934
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	0.40	7947934
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	0.40	7947934

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID		SJH728	SJH732		
Sampling Date		2022/04/13 11:10	2022/04/13 11:50		
COC Number		n/a	n/a		
	UNITS	**MW125-22 0-2**	**MW125-22 15-17**	**RDL**	**QC Batch**
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	0.040	7947934
Styrene	ug/g	<0.040	<0.040	0.040	7947934
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7947934
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	7947934
Tetrachloroethylene	ug/g	<0.040	<0.040	0.040	7947934
Toluene	ug/g	<0.020	<0.020	0.020	7947934
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	0.040	7947934
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	0.040	7947934
Trichloroethylene	ug/g	<0.010	<0.010	0.010	7947934
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	0.040	7947934
Vinyl Chloride	ug/g	<0.019	<0.019	0.019	7947934
p+m-Xylene	ug/g	<0.020	<0.020	0.020	7947934
o-Xylene	ug/g	<0.020	<0.020	0.020	7947934
Total Xylenes	ug/g	<0.020	<0.020	0.020	7947934
F1 (C6-C10)	ug/g	<10	<10	10	7947934
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	7947934
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	7952129
F3 (C16-C34 Hydrocarbons)	ug/g	430	<50	50	7952129
F4 (C34-C50 Hydrocarbons)	ug/g	1200	<50	50	7952129
Reached Baseline at C50	ug/g	No	Yes		7952129
Surrogate Recovery (%)					
o-Terphenyl	%	98	101		7952129
4-Bromofluorobenzene	%	89	88		7947934
D10-o-Xylene	%	74	69		7947934
D4-1,2-Dichloroethane	%	111	114		7947934
D8-Toluene	%	91	90		7947934

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		SJH728		
Sampling Date		2022/04/13 11:10		
COC Number		n/a		
	UNITS	**MW125-22 0-2**	**RDL**	**QC Batch**
F2-F4 Hydrocarbons				
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	6000	100	7956770

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: SJH690 **Collected:** 2022/04/14
Sample ID: MW106-22 0-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7951647	2022/04/21	2022/04/22	Prempal Bhatti
Moisture	BAL	7947655	N/A	2022/04/19	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7949569	2022/04/20	2022/04/21	Li Peng
OC Pesticides Summed Parameters	CALC	7946816	N/A	2022/04/20	Automated Statchk

Bureau Veritas ID: SJH693 **Collected:** 2022/04/13
Sample ID: BH115-22 0-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7951647	2022/04/21	2022/04/22	Prempal Bhatti
Moisture	BAL	7947655	N/A	2022/04/19	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7949569	2022/04/20	2022/04/21	Li Peng
OC Pesticides Summed Parameters	CALC	7946816	N/A	2022/04/20	Automated Statchk

Bureau Veritas ID: SJH728 **Collected:** 2022/04/13
Sample ID: MW125-22 0-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7946452	N/A	2022/04/26	Automated Statchk
1,3-Dichloropropene Sum	CALC	7946313	N/A	2022/04/21	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7952129	2022/04/21	2022/04/22	Dennis Ngondu
F4G (CCME Hydrocarbons Gravimetric)	BAL	7956770	2022/04/25	2022/04/25	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7951647	2022/04/21	2022/04/22	Prempal Bhatti
Moisture	BAL	7947655	N/A	2022/04/19	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7958015	2022/04/25	2022/04/26	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7947934	N/A	2022/04/20	Xueming Jiang

Bureau Veritas ID: SJH728 Dup **Collected:** 2022/04/13
Sample ID: MW125-22 0-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7951647	2022/04/21	2022/04/22	Prempal Bhatti

Bureau Veritas ID: SJH729 **Collected:** 2022/04/13
Sample ID: MW125-22 2.5-4.5 **Shipped:**
Matrix: Soil **Received:** 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7963860	N/A	2022/04/28	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7962749	2022/04/27	2022/04/27	Agnieszka Brzuzy-Snopko
Moisture	BAL	7962286	N/A	2022/04/27	Mathew Bowles

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Bureau Veritas Job #: C2A0337
Report Date: 2022/04/29

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: IA

TEST SUMMARY

Bureau Veritas ID: SJH732
Sample ID: MW125-22 15-17
Matrix: Soil

Collected: 2022/04/13
Shipped:
Received: 2022/04/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7946313	N/A	2022/04/21	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7952129	2022/04/21	2022/04/22	Dennis Ngondu
Moisture	BAL	7947655	N/A	2022/04/19	Kruti Jitesh Patel
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7947934	N/A	2022/04/20	Xueming Jiang

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.7°C

Revised Report [2022/04/29]: Sample ID updated as per client request.

Revised Report [2022/04/28]: Analyzed MW125-22 2.5-4.5 for PHCs as per client request.

Sample ID updated as per client request.

Sample SJH728 [MW125-22 0-2] : PAH ANALYSIS:Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7947934	4-Bromofluorobenzene	2022/04/20	100	60 - 140	100	60 - 140	88	%		
7947934	D10-o-Xylene	2022/04/20	91	60 - 130	94	60 - 130	81	%		
7947934	D4-1,2-Dichloroethane	2022/04/20	107	60 - 140	106	60 - 140	113	%		
7947934	D8-Toluene	2022/04/20	106	60 - 140	107	60 - 140	91	%		
7949569	2,4,5,6-Tetrachloro-m-xylene	2022/04/21	73	50 - 130	75	50 - 130	67	%		
7949569	Decachlorobiphenyl	2022/04/21	106	50 - 130	104	50 - 130	104	%		
7952129	o-Terphenyl	2022/04/21	96	60 - 130	98	60 - 130	103	%		
7958015	D10-Anthracene	2022/04/25	99	50 - 130	97	50 - 130	99	%		
7958015	D14-Terphenyl (FS)	2022/04/25	99	50 - 130	99	50 - 130	98	%		
7958015	D8-Acenaphthylene	2022/04/25	92	50 - 130	94	50 - 130	90	%		
7962749	o-Terphenyl	2022/04/27	96	60 - 130	101	60 - 130	100	%		
7963860	1,4-Difluorobenzene	2022/04/28	98	60 - 140	96	60 - 140	99	%		
7963860	4-Bromofluorobenzene	2022/04/28	96	60 - 140	96	60 - 140	96	%		
7963860	D10-o-Xylene	2022/04/28	97	60 - 140	95	60 - 140	94	%		
7963860	D4-1,2-Dichloroethane	2022/04/28	95	60 - 140	97	60 - 140	96	%		
7947655	Moisture	2022/04/19							0.87	20
7947934	1,1,1,2-Tetrachloroethane	2022/04/20	99	60 - 140	103	60 - 130	<0.040	ug/g	NC	50
7947934	1,1,1-Trichloroethane	2022/04/20	100	60 - 140	104	60 - 130	<0.040	ug/g	NC	50
7947934	1,1,2,2-Tetrachloroethane	2022/04/20	95	60 - 140	98	60 - 130	<0.040	ug/g	NC	50
7947934	1,1,2-Trichloroethane	2022/04/20	100	60 - 140	105	60 - 130	<0.040	ug/g	NC	50
7947934	1,1-Dichloroethane	2022/04/20	95	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
7947934	1,1-Dichloroethylene	2022/04/20	96	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
7947934	1,2-Dichlorobenzene	2022/04/20	92	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
7947934	1,2-Dichloroethane	2022/04/20	95	60 - 140	98	60 - 130	<0.049	ug/g	NC	50
7947934	1,2-Dichloropropane	2022/04/20	96	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
7947934	1,3-Dichlorobenzene	2022/04/20	89	60 - 140	91	60 - 130	<0.040	ug/g	NC	50
7947934	1,4-Dichlorobenzene	2022/04/20	104	60 - 140	107	60 - 130	<0.040	ug/g	NC	50
7947934	Acetone (2-Propanone)	2022/04/20	100	60 - 140	104	60 - 140	<0.49	ug/g	NC	50
7947934	Benzene	2022/04/20	91	60 - 140	94	60 - 130	<0.0060	ug/g	NC	50
7947934	Bromodichloromethane	2022/04/20	99	60 - 140	103	60 - 130	<0.040	ug/g	NC	50
7947934	Bromoform	2022/04/20	100	60 - 140	102	60 - 130	<0.040	ug/g	NC	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7947934	Bromomethane	2022/04/20	108	60 - 140	112	60 - 140	<0.040	ug/g	NC	50
7947934	Carbon Tetrachloride	2022/04/20	100	60 - 140	104	60 - 130	<0.040	ug/g	NC	50
7947934	Chlorobenzene	2022/04/20	93	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
7947934	Chloroform	2022/04/20	98	60 - 140	102	60 - 130	<0.040	ug/g	NC	50
7947934	cis-1,2-Dichloroethylene	2022/04/20	101	60 - 140	105	60 - 130	<0.040	ug/g	NC	50
7947934	cis-1,3-Dichloropropene	2022/04/20	89	60 - 140	91	60 - 130	<0.030	ug/g	NC	50
7947934	Dibromochloromethane	2022/04/20	96	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
7947934	Dichlorodifluoromethane (FREON 12)	2022/04/20	104	60 - 140	107	60 - 140	<0.040	ug/g	NC	50
7947934	Ethylbenzene	2022/04/20	80	60 - 140	83	60 - 130	<0.010	ug/g	NC	50
7947934	Ethylene Dibromide	2022/04/20	94	60 - 140	96	60 - 130	<0.040	ug/g	NC	50
7947934	F1 (C6-C10) - BTEX	2022/04/20					<10	ug/g	NC	30
7947934	F1 (C6-C10)	2022/04/20	71	60 - 140	98	80 - 120	<10	ug/g	NC	30
7947934	Hexane	2022/04/20	96	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
7947934	Methyl Ethyl Ketone (2-Butanone)	2022/04/20	99	60 - 140	102	60 - 140	<0.40	ug/g	NC	50
7947934	Methyl Isobutyl Ketone	2022/04/20	95	60 - 140	97	60 - 130	<0.40	ug/g	NC	50
7947934	Methyl t-butyl ether (MTBE)	2022/04/20	84	60 - 140	86	60 - 130	<0.040	ug/g	NC	50
7947934	Methylene Chloride(Dichloromethane)	2022/04/20	99	60 - 140	102	60 - 130	<0.049	ug/g	NC	50
7947934	o-Xylene	2022/04/20	85	60 - 140	88	60 - 130	<0.020	ug/g	NC	50
7947934	p+m-Xylene	2022/04/20	86	60 - 140	88	60 - 130	<0.020	ug/g	NC	50
7947934	Styrene	2022/04/20	96	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
7947934	Tetrachloroethylene	2022/04/20	92	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
7947934	Toluene	2022/04/20	88	60 - 140	92	60 - 130	<0.020	ug/g	NC	50
7947934	Total Xylenes	2022/04/20					<0.020	ug/g	NC	50
7947934	trans-1,2-Dichloroethylene	2022/04/20	99	60 - 140	102	60 - 130	<0.040	ug/g	NC	50
7947934	trans-1,3-Dichloropropene	2022/04/20	101	60 - 140	103	60 - 130	<0.040	ug/g	NC	50
7947934	Trichloroethylene	2022/04/20	100	60 - 140	104	60 - 130	<0.010	ug/g	NC	50
7947934	Trichlorofluoromethane (FREON 11)	2022/04/20	103	60 - 140	107	60 - 130	<0.040	ug/g	NC	50
7947934	Vinyl Chloride	2022/04/20	108	60 - 140	111	60 - 130	<0.019	ug/g	NC	50
7949569	a-Chlordane	2022/04/21	77	50 - 130	83	50 - 130	<0.0020	ug/g	NC	40
7949569	Aldrin	2022/04/21	98	50 - 130	104	50 - 130	<0.0020	ug/g	NC	40
7949569	Dieldrin	2022/04/21	93	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7949569	Endosulfan I (alpha)	2022/04/21	82	50 - 130	79	50 - 130	<0.0020	ug/g	NC	40
7949569	Endosulfan II (beta)	2022/04/21	89	50 - 130	95	50 - 130	<0.0020	ug/g	NC	40
7949569	Endrin	2022/04/21	92	50 - 130	94	50 - 130	<0.0020	ug/g	NC	40
7949569	g-Chlordane	2022/04/21	78	50 - 130	84	50 - 130	<0.0020	ug/g	NC	40
7949569	Heptachlor epoxide	2022/04/21	77	50 - 130	82	50 - 130	<0.0020	ug/g	NC	40
7949569	Heptachlor	2022/04/21	70	50 - 130	74	50 - 130	<0.0020	ug/g	NC	40
7949569	Hexachlorobenzene	2022/04/21	81	50 - 130	80	50 - 130	<0.0020	ug/g	NC	40
7949569	Hexachlorobutadiene	2022/04/21	55	50 - 130	90	50 - 130	<0.0020	ug/g	NC	40
7949569	Hexachloroethane	2022/04/21	51	50 - 130	68	50 - 130	<0.0020	ug/g	NC	40
7949569	Lindane	2022/04/21	73	50 - 130	77	50 - 130	<0.0020	ug/g	NC	40
7949569	Methoxychlor	2022/04/21	99	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
7949569	o,p-DDD	2022/04/21	87	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40
7949569	o,p-DDE	2022/04/21	76	50 - 130	78	50 - 130	<0.0020	ug/g	NC	40
7949569	o,p-DDT	2022/04/21	81	50 - 130	85	50 - 130	<0.0020	ug/g	NC	40
7949569	p,p-DDD	2022/04/21	86	50 - 130	92	50 - 130	<0.0020	ug/g	NC	40
7949569	p,p-DDE	2022/04/21	98	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40
7949569	p,p-DDT	2022/04/21	86	50 - 130	88	50 - 130	<0.0020	ug/g	NC	40
7951647	Acid Extractable Antimony (Sb)	2022/04/22	106	75 - 125	105	80 - 120	<0.20	ug/g	2.5	30
7951647	Acid Extractable Arsenic (As)	2022/04/22	110	75 - 125	104	80 - 120	<1.0	ug/g	4.1	30
7951647	Acid Extractable Barium (Ba)	2022/04/22	NC	75 - 125	105	80 - 120	<0.50	ug/g	0.75	30
7951647	Acid Extractable Beryllium (Be)	2022/04/22	112	75 - 125	103	80 - 120	<0.20	ug/g	0.88	30
7951647	Acid Extractable Boron (B)	2022/04/22	114	75 - 125	100	80 - 120	<5.0	ug/g	5.7	30
7951647	Acid Extractable Cadmium (Cd)	2022/04/22	112	75 - 125	102	80 - 120	<0.10	ug/g	3.9	30
7951647	Acid Extractable Chromium (Cr)	2022/04/22	110	75 - 125	103	80 - 120	<1.0	ug/g	5.8	30
7951647	Acid Extractable Cobalt (Co)	2022/04/22	112	75 - 125	104	80 - 120	<0.10	ug/g	0.30	30
7951647	Acid Extractable Copper (Cu)	2022/04/22	NC	75 - 125	107	80 - 120	<0.50	ug/g	5.7	30
7951647	Acid Extractable Lead (Pb)	2022/04/22	104	75 - 125	102	80 - 120	<1.0	ug/g	4.4	30
7951647	Acid Extractable Molybdenum (Mo)	2022/04/22	110	75 - 125	101	80 - 120	<0.50	ug/g	NC	30
7951647	Acid Extractable Nickel (Ni)	2022/04/22	113	75 - 125	106	80 - 120	<0.50	ug/g	3.4	30
7951647	Acid Extractable Selenium (Se)	2022/04/22	114	75 - 125	106	80 - 120	<0.50	ug/g	NC	30
7951647	Acid Extractable Silver (Ag)	2022/04/22	109	75 - 125	102	80 - 120	<0.20	ug/g	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7951647	Acid Extractable Thallium (Tl)	2022/04/22	109	75 - 125	104	80 - 120	<0.050	ug/g	1.2	30
7951647	Acid Extractable Uranium (U)	2022/04/22	111	75 - 125	103	80 - 120	<0.050	ug/g	2.9	30
7951647	Acid Extractable Vanadium (V)	2022/04/22	NC	75 - 125	106	80 - 120	<5.0	ug/g	0.52	30
7951647	Acid Extractable Zinc (Zn)	2022/04/22	NC	75 - 125	103	80 - 120	<5.0	ug/g	1.1	30
7952129	F2 (C10-C16 Hydrocarbons)	2022/04/22	111	60 - 130	110	80 - 120	<10	ug/g	NC	30
7952129	F3 (C16-C34 Hydrocarbons)	2022/04/22	110	60 - 130	110	80 - 120	<50	ug/g	NC	30
7952129	F4 (C34-C50 Hydrocarbons)	2022/04/22	112	60 - 130	110	80 - 120	<50	ug/g	NC	30
7956770	F4G-sg (Grav. Heavy Hydrocarbons)	2022/04/25	79	65 - 135	102	65 - 135	<100	ug/g	11	50
7958015	1-Methylnaphthalene	2022/04/25	102	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
7958015	2-Methylnaphthalene	2022/04/25	97	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7958015	Acenaphthene	2022/04/25	102	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7958015	Acenaphthylene	2022/04/25	98	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
7958015	Anthracene	2022/04/25	103	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7958015	Benzo(a)anthracene	2022/04/25	107	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
7958015	Benzo(a)pyrene	2022/04/25	92	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40
7958015	Benzo(b/j)fluoranthene	2022/04/25	103	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
7958015	Benzo(g,h,i)perylene	2022/04/25	106	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
7958015	Benzo(k)fluoranthene	2022/04/25	106	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
7958015	Chrysene	2022/04/25	105	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
7958015	Dibenzo(a,h)anthracene	2022/04/25	99	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
7958015	Fluoranthene	2022/04/25	109	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
7958015	Fluorene	2022/04/25	101	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
7958015	Indeno(1,2,3-cd)pyrene	2022/04/25	101	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7958015	Naphthalene	2022/04/25	95	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7958015	Phenanthrene	2022/04/25	103	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7958015	Pyrene	2022/04/25	112	50 - 130	109	50 - 130	<0.0050	ug/g	NC	40
7962286	Moisture	2022/04/27							4.2	20
7962749	F2 (C10-C16 Hydrocarbons)	2022/04/28	113	60 - 130	118	80 - 120	<10	ug/g	NC	30
7962749	F3 (C16-C34 Hydrocarbons)	2022/04/28	113	60 - 130	118	80 - 120	<50	ug/g	NC	30
7962749	F4 (C34-C50 Hydrocarbons)	2022/04/28	114	60 - 130	119	80 - 120	<50	ug/g	NC	30
7963860	Benzene	2022/04/28	91	50 - 140	91	50 - 140	<0.020	ug/g	NC	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7963860	Ethylbenzene	2022/04/28	101	50 - 140	99	50 - 140	<0.020	ug/g	NC	50
7963860	F1 (C6-C10) - BTEX	2022/04/28					<10	ug/g	NC	30
7963860	F1 (C6-C10)	2022/04/28	89	60 - 140	87	80 - 120	<10	ug/g	NC	30
7963860	o-Xylene	2022/04/28	98	50 - 140	96	50 - 140	<0.020	ug/g	NC	50
7963860	p+m-Xylene	2022/04/28	110	50 - 140	101	50 - 140	<0.040	ug/g	NC	50
7963860	Toluene	2022/04/28	96	50 - 140	94	50 - 140	<0.020	ug/g	NC	50
7963860	Total Xylenes	2022/04/28					<0.040	ug/g	NC	50

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Bureau Veritas Laboratories
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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#31785 MTE Consultants Inc.	Company Name:		Quotation #:	~~C20283~~	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	~~Kelvin Lee~~ MONIQUE GYBA	P.O. #:			
Address:	520 Bingemans Centre Dr	Address:		Project:	~~50291-102~~ 50996-100	COC #:	Project Manager:
	Kitchener ON N2B 3X9			Project Name:		C#861968-05-01	Ronklin Gracian
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Site #:			
Email:	accounting@mte85.com	Email:	~~Klee@mtecs.com~~ MGyba@mtecs.com	Sampled By:	EXA		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558 ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality	
☐ Table ___	☐ PWQO ☐ Reg 406 Table	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 Metals & Inorganics Pkg	O.Reg 153 PHCs, BTEX/F1-F4	O.Reg 153 VOCs by HS	O.Reg 153 PAHs	O.Reg 153 PCBs	O.Reg 153 Semivolatiles Package				30 DAY HOLD	# of Bottles	Comments
1		MW 1103-22 0-2	April 14th, 2022	9:48	SOIL											✓	1	
2		MW103-22 0-2	↓	8:46	↓											✓	1	
3		MW 103-22 2.5-4.5		8:52												✓	1	
4		MW 104-22 0-2		11:00												✓	1	
5		↓ 2.5-4.5		11:06												✓	1	
6		~~BH~~MW105-22 0-2		13:57												✓	1	
7		MW 105-22 0-2		13:55												✓	1	
8		MW 105-22 2.5-4.5	↓	14:00												✓	1	
9		BH115-22 0-2	April 13th, 2022	14:32												✓	1	
10		BH115-22 0-2	↓	14:30	↓											✓	1	

14-Apr-22 16:24
Ronklin Gracian
C2A0337
RJM ENV-986

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
IVAN AGUILAR	22/04/14	16:25		22/04/14	16:29			3/1/10	Present		
									Intact		✓

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#31785 MTE Consultants Inc.	Company Name:		Quotation #:	[redacted]	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	[redacted]	P.O. #:			[redacted]
Address:	520 Bingemans Centre Dr	Address:	SEE PAGE 1	Project:	[redacted] SEE PAGE 1	COC #:	Project Manager:
	Kitchener ON N2B 3X9			Project Name:		C#861968-14-01	Ronklin Gracian
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Site #:			
Email:	accounting@mte85.com	Email:	[redacted]	Sampled By:			

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

#	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 Metals & Inorganics Pkg	O.Reg 153 PHCs, BTEX/F1-F4	O.Reg 153 VOCs by HS	O.Reg 153 PAHs	O.Reg 153 PCBs	O.Reg 153 Semivolatiles Package				HOLD 2 D	# of Bottles	Comments
1		BH115-22 25-4.5	April 13th, 2022	14:40	SOIL											✓	1	
2		MW125-22 0-2	↓	11:10	↓											✓	3	
3		25-45		11:25												✓	3	
4		5-7		11:30												✓	3	
5		10-12		11:40												✓	3	
6		15-17		11:50												✓	3	
7		20-22		13:10												✓	3	
8		↓ 225-245	↓	13:40	↓											✓	3	
9																		
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Laboratory Use Only	Custody Seal	Yes	No
SEE PAGE 1			[signature]	2022/4/14	10AM			Temperature (°C) on Recei 3/1/10	Present		✓
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: 50996-100
Your C.O.C. #: 861968-11-01

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/25
Report #: R7098676
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2A2642
Received: 2022/04/19, 14:59

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Acid Extractable Metals by ICPMS	1	2022/04/22	2022/04/22	CAM SOP-00447	EPA 6020B m
Moisture	1	N/A	2022/04/20	CAM SOP-00445	Carter 2nd ed 51.2 m
OC Pesticides (Selected) & PCB (1)	1	2022/04/22	2022/04/23	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	1	N/A	2022/04/21	CAM SOP-00307	EPA 8081/8082 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Your Project #: 50996-100
Your C.O.C. #: 861968-11-01

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/25
Report #: R7098676
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2A2642
Received: 2022/04/19, 14:59

Encryption Key

Ronklin Gracian
Project Manager
25 Apr 2022 16:14:19

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752
==========
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For Service Group specific validation please refer to the Validation Signature Page.

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O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

Bureau Veritas ID		SJW883		
Sampling Date		2022/04/18 13:05		
COC Number		861968-11-01		
	UNITS	**MW105-22 0-2**	**RDL**	**QC Batch**
Metals				
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.20	7953978
Acid Extractable Arsenic (As)	ug/g	2.8	1.0	7953978
Acid Extractable Barium (Ba)	ug/g	85	0.50	7953978
Acid Extractable Beryllium (Be)	ug/g	0.72	0.20	7953978
Acid Extractable Boron (B)	ug/g	<5.0	5.0	7953978
Acid Extractable Cadmium (Cd)	ug/g	0.31	0.10	7953978
Acid Extractable Chromium (Cr)	ug/g	21	1.0	7953978
Acid Extractable Cobalt (Co)	ug/g	7.5	0.10	7953978
Acid Extractable Copper (Cu)	ug/g	20	0.50	7953978
Acid Extractable Lead (Pb)	ug/g	14	1.0	7953978
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.50	7953978
Acid Extractable Nickel (Ni)	ug/g	18	0.50	7953978
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	7953978
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	7953978
Acid Extractable Thallium (Tl)	ug/g	0.13	0.050	7953978
Acid Extractable Uranium (U)	ug/g	0.71	0.050	7953978
Acid Extractable Vanadium (V)	ug/g	31	5.0	7953978
Acid Extractable Zinc (Zn)	ug/g	78	5.0	7953978

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SJW883		
Sampling Date		2022/04/18 13:05		
COC Number		861968-11-01		
	UNITS	**MW105-22 0-2**	**RDL**	**QC Batch**
Inorganics				
Moisture	%	26	1.0	7950563
Calculated Parameters				
Chlordane (Total)	ug/g	<0.0020	0.0020	7949097
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	7949097
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	7949097
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	7949097
Total Endosulfan	ug/g	<0.0020	0.0020	7949097
Pesticides & Herbicides				
Aldrin	ug/g	<0.0020	0.0020	7954443
a-Chlordane	ug/g	<0.0020	0.0020	7954443
g-Chlordane	ug/g	<0.0020	0.0020	7954443
o,p-DDD	ug/g	<0.0020	0.0020	7954443
p,p-DDD	ug/g	<0.0020	0.0020	7954443
o,p-DDE	ug/g	<0.0020	0.0020	7954443
p,p-DDE	ug/g	<0.0020	0.0020	7954443
o,p-DDT	ug/g	<0.0020	0.0020	7954443
p,p-DDT	ug/g	<0.0020	0.0020	7954443
Dieldrin	ug/g	<0.0020	0.0020	7954443
Lindane	ug/g	<0.0020	0.0020	7954443
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	7954443
Endosulfan II (beta)	ug/g	<0.0020	0.0020	7954443
Endrin	ug/g	<0.0020	0.0020	7954443
Heptachlor	ug/g	<0.0020	0.0020	7954443
Heptachlor epoxide	ug/g	<0.0020	0.0020	7954443
Hexachlorobenzene	ug/g	<0.0020	0.0020	7954443
Hexachlorobutadiene	ug/g	<0.0020	0.0020	7954443
Hexachloroethane	ug/g	<0.0020	0.0020	7954443
Methoxychlor	ug/g	<0.0050	0.0050	7954443
Surrogate Recovery (%)				
2,4,5,6-Tetrachloro-m-xylene	%	76		7954443
Decachlorobiphenyl	%	87		7954443

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C2A2642
Report Date: 2022/04/25

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: IA

TEST SUMMARY

Bureau Veritas ID: SJW883
Sample ID: MW105-22 0-2
Matrix: Soil

Collected: 2022/04/18
Shipped:
Received: 2022/04/19

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7953978	2022/04/22	2022/04/22	Prempal Bhatti
Moisture	BAL	7950563	N/A	2022/04/20	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7954443	2022/04/22	2022/04/23	Li Peng
OC Pesticides Summed Parameters	CALC	7949097	N/A	2022/04/21	Automated Statchk

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.0°C

Results relate only to the items tested.

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Bureau Veritas Job #: C2A2642
Report Date: 2022/04/25

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: IA

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7954443	2,4,5,6-Tetrachloro-m-xylene	2022/04/23	83	50 - 130	76	50 - 130	79	%		
7954443	Decachlorobiphenyl	2022/04/23	90	50 - 130	84	50 - 130	86	%		
7950563	Moisture	2022/04/20							0.97	20
7953978	Acid Extractable Antimony (Sb)	2022/04/22	102	75 - 125	104	80 - 120	<0.20	ug/g	NC	30
7953978	Acid Extractable Arsenic (As)	2022/04/22	102	75 - 125	101	80 - 120	<1.0	ug/g	1.8	30
7953978	Acid Extractable Barium (Ba)	2022/04/22	105	75 - 125	103	80 - 120	<0.50	ug/g	2.6	30
7953978	Acid Extractable Beryllium (Be)	2022/04/22	101	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
7953978	Acid Extractable Boron (B)	2022/04/22	101	75 - 125	93	80 - 120	<5.0	ug/g	NC	30
7953978	Acid Extractable Cadmium (Cd)	2022/04/22	101	75 - 125	101	80 - 120	<0.10	ug/g	11	30
7953978	Acid Extractable Chromium (Cr)	2022/04/22	102	75 - 125	98	80 - 120	<1.0	ug/g	0.53	30
7953978	Acid Extractable Cobalt (Co)	2022/04/22	100	75 - 125	100	80 - 120	<0.10	ug/g	0.25	30
7953978	Acid Extractable Copper (Cu)	2022/04/22	97	75 - 125	99	80 - 120	<0.50	ug/g	3.2	30
7953978	Acid Extractable Lead (Pb)	2022/04/22	97	75 - 125	98	80 - 120	<1.0	ug/g	2.1	30
7953978	Acid Extractable Molybdenum (Mo)	2022/04/22	102	75 - 125	98	80 - 120	<0.50	ug/g	NC	30
7953978	Acid Extractable Nickel (Ni)	2022/04/22	100	75 - 125	102	80 - 120	<0.50	ug/g	0.64	30
7953978	Acid Extractable Selenium (Se)	2022/04/22	104	75 - 125	103	80 - 120	<0.50	ug/g	NC	30
7953978	Acid Extractable Silver (Ag)	2022/04/22	99	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
7953978	Acid Extractable Thallium (Tl)	2022/04/22	98	75 - 125	99	80 - 120	<0.050	ug/g	0.028	30
7953978	Acid Extractable Uranium (U)	2022/04/22	99	75 - 125	99	80 - 120	<0.050	ug/g	0.63	30
7953978	Acid Extractable Vanadium (V)	2022/04/22	104	75 - 125	102	80 - 120	<5.0	ug/g	3.4	30
7953978	Acid Extractable Zinc (Zn)	2022/04/22	NC	75 - 125	100	80 - 120	<5.0	ug/g	6.1	30
7954443	a-Chlordane	2022/04/23	80	50 - 130	73	50 - 130	<0.0020	ug/g	NC	40
7954443	Aldrin	2022/04/23	74	50 - 130	68	50 - 130	<0.0020	ug/g	NC	40
7954443	Dieldrin	2022/04/23	88	50 - 130	83	50 - 130	<0.0020	ug/g	NC	40
7954443	Endosulfan I (alpha)	2022/04/23	70	50 - 130	70	50 - 130	<0.0020	ug/g	NC	40
7954443	Endosulfan II (beta)	2022/04/23	77	50 - 130	70	50 - 130	<0.0020	ug/g	NC	40
7954443	Endrin	2022/04/23	77	50 - 130	76	50 - 130	<0.0020	ug/g	NC	40
7954443	g-Chlordane	2022/04/23	78	50 - 130	72	50 - 130	<0.0020	ug/g	NC	40
7954443	Heptachlor epoxide	2022/04/23	73	50 - 130	72	50 - 130	<0.0020	ug/g	NC	40
7954443	Heptachlor	2022/04/23	75	50 - 130	66	50 - 130	<0.0020	ug/g	NC	40
7954443	Hexachlorobenzene	2022/04/23	95	50 - 130	89	50 - 130	<0.0020	ug/g	NC	40

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7954443	Hexachlorobutadiene	2022/04/23	87	50 - 130	98	50 - 130	<0.0020	ug/g	NC	40
7954443	Hexachloroethane	2022/04/23	68	50 - 130	82	50 - 130	<0.0020	ug/g	NC	40
7954443	Lindane	2022/04/23	78	50 - 130	77	50 - 130	<0.0020	ug/g	NC	40
7954443	Methoxychlor	2022/04/23	81	50 - 130	85	50 - 130	<0.0050	ug/g	NC	40
7954443	o,p-DDD	2022/04/23	86	50 - 130	81	50 - 130	<0.0020	ug/g	NC	40
7954443	o,p-DDE	2022/04/23	83	50 - 130	75	50 - 130	<0.0020	ug/g	NC	40
7954443	o,p-DDT	2022/04/23	81	50 - 130	76	50 - 130	<0.0020	ug/g	NC	40
7954443	p,p-DDD	2022/04/23	84	50 - 130	76	50 - 130	<0.0020	ug/g	NC	40
7954443	p,p-DDE	2022/04/23	85	50 - 130	79	50 - 130	<0.0020	ug/g	NC	40
7954443	p,p-DDT	2022/04/23	95	50 - 130	76	50 - 130	<0.0020	ug/g	NC	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel (905) 817-5700 Toll-free 800-563-6266 Fax (905) 817-5777 www.bvna.com

Page 1 of 1

19-Apr-22 14:59
Ronklin Gracian
C2A2642

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Only:
Company Name:	#31785 MTE Consultants Inc.	Company Name:		Quotation #:	~~C20235~~	Bottle Order #:
Attention:	Accounts Payable	Attention:	~~Kelvin Lee~~ MONIQUE GYBA	P.O. #:		861968
Address:	520 Bingemans Centre Dr	Address:		Project:	~~50291-102~~ URE ENV-1602	
	Kitchener ON N2B 3X9			Project Name:		COC #: / Project Manager:
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Site #:		C#861968-11-01 / Ronklin Gracian
Email:	accounting@mte85.com	Email:	~~Klee@mte85.com~~ MGyba@mte85.com	Sampled By:	IVA	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine	☐ CCME ☐ Sanitary Sewer Bylaw	
☐ Table 2 ☐ Ind/Comm ☐ Coarse	☐ Reg 558 ☐ Storm Sewer Bylaw	
☐ Table 3 ☐ Agri/Other ☐ For RSC	☐ MISA Municipality	
☐ Table ___	☐ PWQO ☐ Reg 406 Table	
	☐ Other	

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☑
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 Metals & Inorganics Pkg	O.Reg 153 PHCs, BTEX/F1-F4	O.Reg 153 VOCs by HS	O.Reg 153 PAHs	O.Reg 153 PCBs	O.Reg 153 Semivolatiles Package				HOLD	# of Bottles	Comments
1		MW105-22 0-2	April 18, 2022	13:00	SOIL											✓	1	Limited soil QTY.
2		MW105-22 0-2	↓	13:05	↓											/	1	↓
3		MW105-22 25-4.5	↓	13:10												/	1	
4		MW101-22 0-2	April 19, 2022	10:00												/	1	
5		MW101-22 25-4.5	↓	10:00	↓											/	1	
6																		
7																		
8																		
9																		
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
IVAN AGUILAR	22/04/19	14:55			15:50	

Laboratory Use Only				
Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	4/4/1	Present		
		Intact		✓

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: 50996-100
Your C.O.C. #: N/A

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/29
Report #: R7105540
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2B3432
Received: 2022/04/28, 15:33

Sample Matrix: Soil
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	1	N/A	2022/04/29	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	1	2022/04/28	2022/04/29	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	2	2022/04/29	2022/04/29	CAM SOP-00447	EPA 6020B m
Moisture	1	N/A	2022/04/28	CAM SOP-00445	Carter 2nd ed 51.2 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Your Project #: 50996-100
Your C.O.C. #: n/a

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/26
Report #: R7100338
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2A4920
Received: 2022/04/20, 18:07

Encryption Key

Ronklin Gracian
Project Manager
26 Apr 2022 15:52:16

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752
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For Service Group specific validation please refer to the Validation Signature Page.

Your Project #: 50996-100
Your C.O.C. #: N/A

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/29
Report #: R7105540
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2B3432
Received: 2022/04/28, 15:33

Encryption Key

Ronklin Gracian
Project Manager
29 Apr 2022 17:55:41

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752
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O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

Bureau Veritas ID		SMB753	SMB754		
Sampling Date		2022/04/27 08:00	2022/04/27 08:15		
COC Number		N/A	N/A		
	UNITS	**SS 101-22 1-1.5**	**SS 103-22 1-1.5**	**RDL**	**QC Batch**
Metals					
Acid Extractable Antimony (Sb)	ug/g	0.52	<0.20	0.20	7966974
Acid Extractable Arsenic (As)	ug/g	6.1	5.3	1.0	7966974
Acid Extractable Barium (Ba)	ug/g	76	85	0.50	7966974
Acid Extractable Beryllium (Be)	ug/g	0.65	0.68	0.20	7966974
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	5.0	7966974
Acid Extractable Cadmium (Cd)	ug/g	0.18	0.32	0.10	7966974
Acid Extractable Chromium (Cr)	ug/g	20	20	1.0	7966974
Acid Extractable Cobalt (Co)	ug/g	7.1	11	0.10	7966974
Acid Extractable Copper (Cu)	ug/g	24	32	0.50	7966974
Acid Extractable Lead (Pb)	ug/g	17	100	1.0	7966974
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	0.50	7966974
Acid Extractable Nickel (Ni)	ug/g	15	21	0.50	7966974
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	7966974
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	7966974
Acid Extractable Thallium (Tl)	ug/g	0.12	0.15	0.050	7966974
Acid Extractable Uranium (U)	ug/g	0.50	0.40	0.050	7966974
Acid Extractable Vanadium (V)	ug/g	29	29	5.0	7966974
Acid Extractable Zinc (Zn)	ug/g	78	170	5.0	7966974

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SMB754			SMB754		
Sampling Date		2022/04/27 08:15			2022/04/27 08:15		
COC Number		N/A			N/A		
	UNITS	**SS 103-22 1-1.5**	**RDL**	**QC Batch**	**SS 103-22 1-1.5 Lab-Dup**	**RDL**	**QC Batch**
Inorganics							
Moisture	%	17	1.0	7965504			
BTEX & F1 Hydrocarbons							
Benzene	ug/g	<0.020	0.020	7966493			
Toluene	ug/g	<0.020	0.020	7966493			
Ethylbenzene	ug/g	<0.020	0.020	7966493			
o-Xylene	ug/g	<0.020	0.020	7966493			
p+m-Xylene	ug/g	<0.040	0.040	7966493			
Total Xylenes	ug/g	<0.040	0.040	7966493			
F1 (C6-C10)	ug/g	<10	10	7966493			
F1 (C6-C10) - BTEX	ug/g	<10	10	7966493			
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7965607	<10	10	7965607
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7965607	<50	50	7965607
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7965607	<50	50	7965607
Reached Baseline at C50	ug/g	Yes		7965607	Yes		7965607
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	100		7966493			
4-Bromofluorobenzene	%	98		7966493			
D10-o-Xylene	%	102		7966493			
D4-1,2-Dichloroethane	%	93		7966493			
o-Terphenyl	%	95		7965607	90		7965607

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C2B3432
Report Date: 2022/04/29

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: IA

TEST SUMMARY

Bureau Veritas ID: SMB753
Sample ID: SS 101-22 1-1.5
Matrix: Soil

Collected: 2022/04/27
Shipped:
Received: 2022/04/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7966974	2022/04/29	2022/04/29	Daniel Teclu

Bureau Veritas ID: SMB754
Sample ID: SS 103-22 1-1.5
Matrix: Soil

Collected: 2022/04/27
Shipped:
Received: 2022/04/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7966493	N/A	2022/04/29	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7965607	2022/04/28	2022/04/29	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	7966974	2022/04/29	2022/04/29	Daniel Teclu
Moisture	BAL	7965504	N/A	2022/04/28	Abhijot Kaur

Bureau Veritas ID: SMB754 Dup
Sample ID: SS 103-22 1-1.5
Matrix: Soil

Collected: 2022/04/27
Shipped:
Received: 2022/04/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7965607	2022/04/28	2022/04/29	Agnieszka Brzuzy-Snopko

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.3°C

Sample SMB754 [SS 103-22 1-1.5] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Results relate only to the items tested.

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Bureau Veritas Job #: C2B3432
Report Date: 2022/04/29

QUALITY ASSURANCE REPORT

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: IA

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7965607	o-Terphenyl	2022/04/29	97	60 - 130	98	60 - 130	96	%		
7966493	1,4-Difluorobenzene	2022/04/29	100	60 - 140	98	60 - 140	100	%		
7966493	4-Bromofluorobenzene	2022/04/29	97	60 - 140	99	60 - 140	99	%		
7966493	D10-o-Xylene	2022/04/29	106	60 - 140	107	60 - 140	104	%		
7966493	D4-1,2-Dichloroethane	2022/04/29	92	60 - 140	95	60 - 140	92	%		
7965504	Moisture	2022/04/28							8.7	20
7965607	F2 (C10-C16 Hydrocarbons)	2022/04/29	103	60 - 130	104	80 - 120	<10	ug/g	NC	30
7965607	F3 (C16-C34 Hydrocarbons)	2022/04/29	108	60 - 130	110	80 - 120	<50	ug/g	NC	30
7965607	F4 (C34-C50 Hydrocarbons)	2022/04/29	109	60 - 130	110	80 - 120	<50	ug/g	NC	30
7966493	Benzene	2022/04/29	97	50 - 140	102	50 - 140	<0.020	ug/g	NC	50
7966493	Ethylbenzene	2022/04/29	107	50 - 140	113	50 - 140	<0.020	ug/g	NC	50
7966493	F1 (C6-C10) - BTEX	2022/04/29					<10	ug/g	NC	30
7966493	F1 (C6-C10)	2022/04/29	89	60 - 140	95	80 - 120	<10	ug/g	NC	30
7966493	o-Xylene	2022/04/29	101	50 - 140	108	50 - 140	<0.020	ug/g	NC	50
7966493	p+m-Xylene	2022/04/29	104	50 - 140	110	50 - 140	<0.040	ug/g	NC	50
7966493	Toluene	2022/04/29	99	50 - 140	106	50 - 140	<0.020	ug/g	NC	50
7966493	Total Xylenes	2022/04/29					<0.040	ug/g	NC	50
7966974	Acid Extractable Antimony (Sb)	2022/04/29	92	75 - 125	103	80 - 120	<0.20	ug/g	NC	30
7966974	Acid Extractable Arsenic (As)	2022/04/29	103	75 - 125	99	80 - 120	<1.0	ug/g	1.4	30
7966974	Acid Extractable Barium (Ba)	2022/04/29	NC	75 - 125	99	80 - 120	<0.50	ug/g	1.3	30
7966974	Acid Extractable Beryllium (Be)	2022/04/29	103	75 - 125	100	80 - 120	<0.20	ug/g	7.3	30
7966974	Acid Extractable Boron (B)	2022/04/29	94	75 - 125	99	80 - 120	<5.0	ug/g	NC	30
7966974	Acid Extractable Cadmium (Cd)	2022/04/29	101	75 - 125	98	80 - 120	<0.10	ug/g	8.9	30
7966974	Acid Extractable Chromium (Cr)	2022/04/29	104	75 - 125	99	80 - 120	<1.0	ug/g	2.8	30
7966974	Acid Extractable Cobalt (Co)	2022/04/29	99	75 - 125	100	80 - 120	<0.10	ug/g	5.3	30
7966974	Acid Extractable Copper (Cu)	2022/04/29	99	75 - 125	104	80 - 120	<0.50	ug/g	1.3	30
7966974	Acid Extractable Lead (Pb)	2022/04/29	104	75 - 125	99	80 - 120	<1.0	ug/g	1.6	30
7966974	Acid Extractable Molybdenum (Mo)	2022/04/29	103	75 - 125	99	80 - 120	<0.50	ug/g	NC	30
7966974	Acid Extractable Nickel (Ni)	2022/04/29	101	75 - 125	97	80 - 120	<0.50	ug/g	1.8	30
7966974	Acid Extractable Selenium (Se)	2022/04/29	103	75 - 125	99	80 - 120	<0.50	ug/g	NC	30
7966974	Acid Extractable Silver (Ag)	2022/04/29	106	75 - 125	100	80 - 120	<0.20	ug/g	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7966974	Acid Extractable Thallium (Tl)	2022/04/29	102	75 - 125	100	80 - 120	<0.050	ug/g	3.7	30
7966974	Acid Extractable Uranium (U)	2022/04/29	103	75 - 125	98	80 - 120	<0.050	ug/g	9.7	30
7966974	Acid Extractable Vanadium (V)	2022/04/29	NC	75 - 125	100	80 - 120	<5.0	ug/g	3.3	30
7966974	Acid Extractable Zinc (Zn)	2022/04/29	NC	75 - 125	98	80 - 120	<5.0	ug/g	3.9	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

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RUSH!

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CHAIN OF CUSTODY RECORD

ENV COC - 00014v2

Page 1 of 1

28-Apr-22 15:33
Ronklin Gracian
C2B3432

SPL ENV-1438

Invoice Information	Invoice to (requires report) ☐	Report Information (if differs from invoice)		Project Information	
Company:	MTE CONSULTANTS	Company:	MTE CONSULTANTS	Quotation #:	
Contact Name:	ACCOUNTS PAYABLE	Contact Name:	MONIQUE GYBA	P.O. #/ AFE#:	
Street Address:		Street Address:		Project #:	50996-100
City:	KITCHENER Prov: ON Postal Code:	City:	BURLINGTON Prov: ON Postal Code:	Site #:	
Phone:		Phone:		Site Location:	
Email:	ACCOUNTING@MTE85.COM	Email:	MGyba@mte85.com	Site Location Province:	
Copies:		Copies:		Sampled By:	IA

Regulatory Criteria

REG 153: ☑ Table 1 ☐ Table 2 ☐ Table 3 ☐ Table ____ | ☐ Res/Park ☐ Ind/Comm ☐ Agri/other | ☐ Med/Fine ☐ Course ☐ For RSC

OTHER: ☐ CCME ☐ Reg 558* ☐ *min 3 day TAT ☐ MISA ☐ PWQO | ☐ Reg 406, Table: ____ ☐ Sanitary Sewer Bylaw ☐ Storm Sewer Bylaw Municipality ____ ☐ Other:

Include Criteria on Certificate of Analysis (check if yes): ☐

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Identification	Date Sampled YY	MM	DD	Time (24hr) HH	MM	Matrix	1 FIELD FILTERED	2 FIELD PRESERVED	3 LAB FILTRATION REQUIRED	4 BTEX/ F1	5 F2 - F4	6 VOCs	7 Reg 153 metals and inorganics	8 Reg 153 ICPMS metals	9 Reg 153 metals (Hg, Cr VI, ICPMS metals, HWS - B)	10 METALS & HYDRIDES	11 PAHs & BTEX	12	13	14	15	16	17	18	19	20	21 # OF CONTAINERS SUBMITTED	22 HOLD - DO NOT ANALYZE
1	SS101-22 1-1.5	22	04	27	8	00	SOIL										✓	✓										1	
2	SS 103-22 1-1.5	22	04	27	8	15	↓										✓	✓										3	
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Regular Turnaround Time (TAT)

☐ 5 to 7 Day ☐ 10 Day

Rush Turnaround Time (TAT) Surcharges apply

☐ Same Day ☑ 1 Day ☐ 2 Day ☐ 3 Day ☐ 4 Day

Date Required: YY MM DD

Comments

*UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS AND CONDITIONS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS OR BY CALLING THE LABORATORY LISTED ABOVE TO OBTAIN A COPY

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present	✓		6.0			
Seal intact	✓					
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3
Seal present						
Seal intact						
Cooling media present						

LAB USE ONLY	Yes	No	°C	1	2	3	Temperature reading by:
Seal present							
Seal intact							
Cooling media present							

	Relinquished by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Received by: (Signature/ Print)	Date YY	MM	DD	Time HH	MM	Special Instructions
1	IVAN AGUDATH	22	04	28	15	30	1	22	04	28	15	33	
2							2						

Your Project #: 50996-100
Your C.O.C. #: 851180-02-01, 851180-03-01

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/05/06
Report #: R7113770
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C295792
Received: 2022/04/11, 16:24

Sample Matrix: Soil
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	3	N/A	2022/04/19	CAM SOP-00301	EPA 8270D m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	3	N/A	2022/04/19	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	3	N/A	2022/04/22	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	6	2022/04/19	2022/04/19	CAM SOP-00316	CCME CWS m
Acid Extractable Metals by ICPMS	3	2022/04/19	2022/04/20	CAM SOP-00447	EPA 6020B m
Moisture	3	N/A	2022/04/13	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	3	N/A	2022/04/14	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM)	1	2022/04/16	2022/04/16	CAM SOP-00318	EPA 8270D m
PAH Compounds in Soil by GC/MS (SIM)	2	2022/04/18	2022/04/18	CAM SOP-00318	EPA 8270D m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the

Your Project #: 50996-100
Your C.O.C. #: 851180-02-01, 851180-03-01

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/05/06
Report #: R7113770
Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C295792

Received: 2022/04/11, 16:24

reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Ronklin Gracian
Project Manager
06 May 2022 11:45:37

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752

==========

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O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		SIJ383	SIJ391	SIJ398		
Sampling Date		2022/04/11 09:20	2022/04/11 11:30	2022/04/11 14:20		
COC Number		851180-02-01	851180-02-01	851180-03-01		
	UNITS	**MW123-22 0-2'**	**MW122-22 0-2'**	**MW124-22 0-2'**	**RDL**	**QC Batch**
Metals						
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	0.20	7946367
Acid Extractable Arsenic (As)	ug/g	2.8	3.7	4.2	1.0	7946367
Acid Extractable Barium (Ba)	ug/g	31	59	63	0.50	7946367
Acid Extractable Beryllium (Be)	ug/g	0.31	0.42	0.64	0.20	7946367
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	5.1	5.0	7946367
Acid Extractable Cadmium (Cd)	ug/g	<0.10	0.10	0.21	0.10	7946367
Acid Extractable Chromium (Cr)	ug/g	8.9	14	18	1.0	7946367
Acid Extractable Cobalt (Co)	ug/g	4.8	6.4	9.5	0.10	7946367
Acid Extractable Copper (Cu)	ug/g	21	82	23	0.50	7946367
Acid Extractable Lead (Pb)	ug/g	5.5	16	13	1.0	7946367
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	2.0	<0.50	0.50	7946367
Acid Extractable Nickel (Ni)	ug/g	10	12	18	0.50	7946367
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	0.50	7946367
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	0.20	7946367
Acid Extractable Sodium (Na)	ug/g	100	150	150	50	7946367
Acid Extractable Thallium (Tl)	ug/g	0.065	0.10	0.12	0.050	7946367
Acid Extractable Uranium (U)	ug/g	0.30	0.39	0.55	0.050	7946367
Acid Extractable Vanadium (V)	ug/g	16	23	29	5.0	7946367
Acid Extractable Zinc (Zn)	ug/g	26	74	62	5.0	7946367
Acid Extractable Mercury (Hg)	ug/g	<0.050	<0.050	<0.050	0.050	7946367

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SIJ383	SIJ391		SIJ398		
Sampling Date		2022/04/11 09:20	2022/04/11 11:30		2022/04/11 14:20		
COC Number		851180-02-01	851180-02-01		851180-03-01		
	UNITS	**MW123-22 0-2'**	**MW122-22 0-2'**	**QC Batch**	**MW124-22 0-2'**	**RDL**	**QC Batch**
Inorganics							
Moisture	%	17	11	7940448	17	1.0	7940448
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	<0.0071	7938335	<0.0071	0.0071	7938335
Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	<0.0050	<0.0050	7944000	<0.0050	0.0050	7943180
Acenaphthylene	ug/g	<0.0050	<0.0050	7944000	<0.0050	0.0050	7943180
Anthracene	ug/g	<0.0050	<0.0050	7944000	0.0094	0.0050	7943180
Benzo(a)anthracene	ug/g	<0.0050	<0.0050	7944000	0.042	0.0050	7943180
Benzo(a)pyrene	ug/g	<0.0050	<0.0050	7944000	0.042	0.0050	7943180
Benzo(b/j)fluoranthene	ug/g	<0.0050	<0.0050	7944000	0.064	0.0050	7943180
Benzo(g,h,i)perylene	ug/g	<0.0050	<0.0050	7944000	0.036	0.0050	7943180
Benzo(k)fluoranthene	ug/g	<0.0050	<0.0050	7944000	0.020	0.0050	7943180
Chrysene	ug/g	<0.0050	<0.0050	7944000	0.040	0.0050	7943180
Dibenzo(a,h)anthracene	ug/g	<0.0050	<0.0050	7944000	0.0072	0.0050	7943180
Fluoranthene	ug/g	<0.0050	<0.0050	7944000	0.12	0.0050	7943180
Fluorene	ug/g	<0.0050	<0.0050	7944000	<0.0050	0.0050	7943180
Indeno(1,2,3-cd)pyrene	ug/g	<0.0050	<0.0050	7944000	0.036	0.0050	7943180
1-Methylnaphthalene	ug/g	<0.0050	<0.0050	7944000	<0.0050	0.0050	7943180
2-Methylnaphthalene	ug/g	<0.0050	<0.0050	7944000	<0.0050	0.0050	7943180
Naphthalene	ug/g	<0.0050	<0.0050	7944000	<0.0050	0.0050	7943180
Phenanthrene	ug/g	<0.0050	<0.0050	7944000	0.049	0.0050	7943180
Pyrene	ug/g	<0.0050	<0.0050	7944000	0.091	0.0050	7943180
Surrogate Recovery (%)							
D10-Anthracene	%	96	97	7944000	105		7943180
D14-Terphenyl (FS)	%	97	97	7944000	97		7943180
D8-Acenaphthylene	%	86	87	7944000	73		7943180

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SIJ383			SIJ386			SIJ391		
Sampling Date		2022/04/11 09:20			2022/04/11 10:00			2022/04/11 11:30		
COC Number		851180-02-01			851180-02-01			851180-02-01		
	UNITS	**MW123-22 0-2'**	**RDL**	**QC Batch**	**MW123-22 7.5-9.5'**	**RDL**	**QC Batch**	**MW122-22 0-2'**	**RDL**	**QC Batch**
Inorganics										
Moisture	%				11	1.0	7939427			
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020	0.020	7953209	<0.020	0.020	7946357	<0.020	0.020	7953209
Toluene	ug/g	<0.020	0.020	7953209	<0.020	0.020	7946357	<0.020	0.020	7953209
Ethylbenzene	ug/g	<0.020	0.020	7953209	<0.020	0.020	7946357	<0.020	0.020	7953209
o-Xylene	ug/g	<0.020	0.020	7953209	<0.020	0.020	7946357	<0.020	0.020	7953209
p+m-Xylene	ug/g	<0.040	0.040	7953209	<0.040	0.040	7946357	<0.040	0.040	7953209
Total Xylenes	ug/g	<0.040	0.040	7953209	<0.040	0.040	7946357	<0.040	0.040	7953209
F1 (C6-C10)	ug/g	<10	10	7953209	<10	10	7946357	<10	10	7953209
F1 (C6-C10) - BTEX	ug/g	<10	10	7953209	<10	10	7946357	<10	10	7953209
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7946062	<10	10	7946077	<10	10	7946062
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7946062	<50	50	7946077	<50	50	7946062
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7946062	<50	50	7946077	<50	50	7946062
Reached Baseline at C50	ug/g	Yes		7946062	Yes		7946077	Yes		7946062
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	94		7953209	104		7946357	95		7953209
4-Bromofluorobenzene	%	107		7953209	93		7946357	108		7953209
D10-o-Xylene	%	99		7953209	111		7946357	99		7953209
D4-1,2-Dichloroethane	%	98		7953209	108		7946357	97		7953209
o-Terphenyl	%	97		7946062	98		7946077	93		7946062

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SIJ394			SIJ398			SIJ403		
Sampling Date		2022/04/11 12:05			2022/04/11 14:20			2022/04/11 15:10		
COC Number		851180-03-01			851180-03-01					
	UNITS	**MW122-22 7.5-9.5'**	**RDL**	**QC Batch**	**MW124-22 0-2'**	**RDL**	**QC Batch**	**MW124-22 15-17'**	**RDL**	**QC Batch**
Inorganics										
Moisture	%	12	1.0	7939427				12	1.0	7939427
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020	0.020	7946357	<0.020	0.020	7953209	<0.020	0.020	7946357
Toluene	ug/g	<0.020	0.020	7946357	<0.020	0.020	7953209	<0.020	0.020	7946357
Ethylbenzene	ug/g	<0.020	0.020	7946357	<0.020	0.020	7953209	<0.020	0.020	7946357
o-Xylene	ug/g	<0.020	0.020	7946357	<0.020	0.020	7953209	<0.020	0.020	7946357
p+m-Xylene	ug/g	<0.040	0.040	7946357	<0.040	0.040	7953209	<0.040	0.040	7946357
Total Xylenes	ug/g	<0.040	0.040	7946357	<0.040	0.040	7953209	<0.040	0.040	7946357
F1 (C6-C10)	ug/g	<10	10	7946357	<10	10	7953209	<10	10	7946357
F1 (C6-C10) - BTEX	ug/g	<10	10	7946357	<10	10	7953209	<10	10	7946357
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7946077	<10	10	7946062	<10	10	7946077
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	7946077	<50	50	7946062	83	50	7946077
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7946077	<50	50	7946062	<50	50	7946077
Reached Baseline at C50	ug/g	Yes		7946077	Yes		7946062	Yes		7946077
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	102		7946357	94		7953209	104		7946357
4-Bromofluorobenzene	%	97		7946357	108		7953209	96		7946357
D10-o-Xylene	%	116		7946357	93		7953209	116		7946357
D4-1,2-Dichloroethane	%	107		7946357	96		7953209	108		7946357
o-Terphenyl	%	97		7946077	91		7946062	98		7946077

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: SIJ383 **Collected:** 2022/04/11
Sample ID: MW123-22 0-2' **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7938335	N/A	2022/04/19	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7953209	N/A	2022/04/22	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7946367	2022/04/19	2022/04/20	Daniel Teclu
Moisture	BAL	7940448	N/A	2022/04/14	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7944000	2022/04/18	2022/04/18	Mitesh Raj

Bureau Veritas ID: SIJ386 **Collected:** 2022/04/11
Sample ID: MW123-22 7.5-9.5' **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7946357	N/A	2022/04/19	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946077	2022/04/19	2022/04/19	(Kent) Maolin Li
Moisture	BAL	7939427	N/A	2022/04/13	Kruti Jitesh Patel

Bureau Veritas ID: SIJ391 **Collected:** 2022/04/11
Sample ID: MW122-22 0-2' **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7938335	N/A	2022/04/19	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7953209	N/A	2022/04/22	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7946367	2022/04/19	2022/04/20	Daniel Teclu
Moisture	BAL	7940448	N/A	2022/04/14	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7944000	2022/04/18	2022/04/18	Mitesh Raj

Bureau Veritas ID: SIJ394 **Collected:** 2022/04/11
Sample ID: MW122-22 7.5-9.5' **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7946357	N/A	2022/04/19	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946077	2022/04/19	2022/04/19	(Kent) Maolin Li
Moisture	BAL	7939427	N/A	2022/04/13	Kruti Jitesh Patel

Bureau Veritas ID: SIJ398 **Collected:** 2022/04/11
Sample ID: MW124-22 0-2' **Shipped:**
Matrix: Soil **Received:** 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7938335	N/A	2022/04/19	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7953209	N/A	2022/04/22	Anca Ganea
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946062	2022/04/19	2022/04/19	Jeevaraj Jeevaratrnam
Acid Extractable Metals by ICPMS	ICP/MS	7946367	2022/04/19	2022/04/20	Daniel Teclu

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TEST SUMMARY

Bureau Veritas ID: SIJ398
Sample ID: MW124-22 0-2'
Matrix: Soil

Collected: 2022/04/11
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7940448	N/A	2022/04/14	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7943180	2022/04/16	2022/04/16	Mitesh Raj

Bureau Veritas ID: SIJ403
Sample ID: MW124-22 15-17'
Matrix: Soil

Collected: 2022/04/11
Shipped:
Received: 2022/04/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7946357	N/A	2022/04/19	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7946077	2022/04/19	2022/04/19	(Kent) Maolin Li
Moisture	BAL	7939427	N/A	2022/04/13	Kruti Jitesh Patel

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	8.0°C

Revised Report [2022/05/06]: Hydrides reported as per client request.

F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample SIJ383 [MW123-22 0-2'] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample SIJ398 [MW124-22 0-2'] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7943180	D10-Anthracene	2022/04/16	105	50 - 130	119	50 - 130	123	%		
7943180	D14-Terphenyl (FS)	2022/04/16	99	50 - 130	109	50 - 130	107	%		
7943180	D8-Acenaphthylene	2022/04/16	84	50 - 130	100	50 - 130	94	%		
7944000	D10-Anthracene	2022/04/18	95	50 - 130	97	50 - 130	98	%		
7944000	D14-Terphenyl (FS)	2022/04/18	98	50 - 130	100	50 - 130	98	%		
7944000	D8-Acenaphthylene	2022/04/18	90	50 - 130	95	50 - 130	90	%		
7946062	o-Terphenyl	2022/04/19	94	60 - 130	96	60 - 130	97	%		
7946077	o-Terphenyl	2022/04/19	95	60 - 130	97	60 - 130	100	%		
7946357	1,4-Difluorobenzene	2022/04/19	100	60 - 140	98	60 - 140	103	%		
7946357	4-Bromofluorobenzene	2022/04/19	101	60 - 140	102	60 - 140	96	%		
7946357	D10-o-Xylene	2022/04/19	112	60 - 140	114	60 - 140	108	%		
7946357	D4-1,2-Dichloroethane	2022/04/19	100	60 - 140	99	60 - 140	106	%		
7953209	1,4-Difluorobenzene	2022/04/21	95	60 - 140	94	60 - 140	95	%		
7953209	4-Bromofluorobenzene	2022/04/21	110	60 - 140	109	60 - 140	108	%		
7953209	D10-o-Xylene	2022/04/21	107	60 - 140	100	60 - 140	101	%		
7953209	D4-1,2-Dichloroethane	2022/04/21	99	60 - 140	96	60 - 140	97	%		
7939427	Moisture	2022/04/13							0	20
7940448	Moisture	2022/04/14							6.3	20
7943180	1-Methylnaphthalene	2022/04/16	101	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
7943180	2-Methylnaphthalene	2022/04/16	93	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7943180	Acenaphthene	2022/04/16	91	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40
7943180	Acenaphthylene	2022/04/16	97	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7943180	Anthracene	2022/04/16	105	50 - 130	109	50 - 130	<0.0050	ug/g	NC	40
7943180	Benzo(a)anthracene	2022/04/16	101	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
7943180	Benzo(a)pyrene	2022/04/16	83	50 - 130	86	50 - 130	<0.0050	ug/g	NC	40
7943180	Benzo(b/j)fluoranthene	2022/04/16	88	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40
7943180	Benzo(g,h,i)perylene	2022/04/16	100	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7943180	Benzo(k)fluoranthene	2022/04/16	94	50 - 130	91	50 - 130	<0.0050	ug/g	NC	40
7943180	Chrysene	2022/04/16	96	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7943180	Dibenzo(a,h)anthracene	2022/04/16	104	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40
7943180	Fluoranthene	2022/04/16	107	50 - 130	109	50 - 130	<0.0050	ug/g	NC	40

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7943180	Fluorene	2022/04/16	99	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7943180	Indeno(1,2,3-cd)pyrene	2022/04/16	104	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
7943180	Naphthalene	2022/04/16	86	50 - 130	90	50 - 130	<0.0050	ug/g	NC	40
7943180	Phenanthrene	2022/04/16	97	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7943180	Pyrene	2022/04/16	104	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
7944000	1-Methylnaphthalene	2022/04/18	98	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7944000	2-Methylnaphthalene	2022/04/18	93	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
7944000	Acenaphthene	2022/04/18	97	50 - 130	97	50 - 130	<0.0050	ug/g	NC	40
7944000	Acenaphthylene	2022/04/18	94	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7944000	Anthracene	2022/04/18	98	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(a)anthracene	2022/04/18	106	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(a)pyrene	2022/04/18	87	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(b/j)fluoranthene	2022/04/18	96	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(g,h,i)perylene	2022/04/18	95	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(k)fluoranthene	2022/04/18	100	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
7944000	Chrysene	2022/04/18	101	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
7944000	Dibenzo(a,h)anthracene	2022/04/18	93	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
7944000	Fluoranthene	2022/04/18	104	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
7944000	Fluorene	2022/04/18	96	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
7944000	Indeno(1,2,3-cd)pyrene	2022/04/18	91	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7944000	Naphthalene	2022/04/18	87	50 - 130	91	50 - 130	<0.0050	ug/g	NC	40
7944000	Phenanthrene	2022/04/18	97	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7944000	Pyrene	2022/04/18	107	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
7946062	F2 (C10-C16 Hydrocarbons)	2022/04/19	106	60 - 130	107	80 - 120	<10	ug/g	NC	30
7946062	F3 (C16-C34 Hydrocarbons)	2022/04/19	105	60 - 130	105	80 - 120	<50	ug/g	NC	30
7946062	F4 (C34-C50 Hydrocarbons)	2022/04/19	106	60 - 130	107	80 - 120	<50	ug/g	NC	30
7946077	F2 (C10-C16 Hydrocarbons)	2022/04/19	100	60 - 130	102	80 - 120	<10	ug/g	NC	30
7946077	F3 (C16-C34 Hydrocarbons)	2022/04/19	103	60 - 130	102	80 - 120	<50	ug/g	NC	30
7946077	F4 (C34-C50 Hydrocarbons)	2022/04/19	103	60 - 130	104	80 - 120	<50	ug/g	NC	30
7946357	Benzene	2022/04/19	107	50 - 140	107	50 - 140	<0.020	ug/g	NC	50
7946357	Ethylbenzene	2022/04/19	121	50 - 140	118	50 - 140	<0.020	ug/g	NC	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7946357	F1 (C6-C10) - BTEX	2022/04/19					<10	ug/g	NC	30
7946357	F1 (C6-C10)	2022/04/19	88	60 - 140	89	80 - 120	<10	ug/g	NC	30
7946357	o-Xylene	2022/04/19	115	50 - 140	111	50 - 140	<0.020	ug/g	NC	50
7946357	p+m-Xylene	2022/04/19	114	50 - 140	110	50 - 140	<0.040	ug/g	NC	50
7946357	Toluene	2022/04/19	102	50 - 140	100	50 - 140	<0.020	ug/g	NC	50
7946357	Total Xylenes	2022/04/19					<0.040	ug/g	NC	50
7946367	Acid Extractable Antimony (Sb)	2022/04/20	99	75 - 125	104	80 - 120	<0.20	ug/g		
7946367	Acid Extractable Arsenic (As)	2022/04/20	95	75 - 125	102	80 - 120	<1.0	ug/g	12	30
7946367	Acid Extractable Barium (Ba)	2022/04/20	107	75 - 125	102	80 - 120	<0.50	ug/g		
7946367	Acid Extractable Beryllium (Be)	2022/04/20	99	75 - 125	101	80 - 120	<0.20	ug/g		
7946367	Acid Extractable Boron (B)	2022/04/20	98	75 - 125	97	80 - 120	<5.0	ug/g		
7946367	Acid Extractable Cadmium (Cd)	2022/04/20	101	75 - 125	100	80 - 120	<0.10	ug/g		
7946367	Acid Extractable Chromium (Cr)	2022/04/20	96	75 - 125	98	80 - 120	<1.0	ug/g		
7946367	Acid Extractable Cobalt (Co)	2022/04/20	96	75 - 125	99	80 - 120	<0.10	ug/g		
7946367	Acid Extractable Copper (Cu)	2022/04/20	97	75 - 125	100	80 - 120	<0.50	ug/g		
7946367	Acid Extractable Lead (Pb)	2022/04/20	100	75 - 125	103	80 - 120	<1.0	ug/g		
7946367	Acid Extractable Mercury (Hg)	2022/04/20	83	75 - 125	86	80 - 120	<0.050	ug/g		
7946367	Acid Extractable Molybdenum (Mo)	2022/04/20	101	75 - 125	101	80 - 120	<0.50	ug/g		
7946367	Acid Extractable Nickel (Ni)	2022/04/20	99	75 - 125	104	80 - 120	<0.50	ug/g		
7946367	Acid Extractable Selenium (Se)	2022/04/20	98	75 - 125	99	80 - 120	<0.50	ug/g		
7946367	Acid Extractable Silver (Ag)	2022/04/20	102	75 - 125	103	80 - 120	<0.20	ug/g		
7946367	Acid Extractable Sodium (Na)	2022/04/20	107	75 - 125	103	80 - 120	<50	ug/g		
7946367	Acid Extractable Thallium (Tl)	2022/04/20	104	75 - 125	105	80 - 120	<0.050	ug/g		
7946367	Acid Extractable Uranium (U)	2022/04/20	101	75 - 125	101	80 - 120	<0.050	ug/g	1.5	30
7946367	Acid Extractable Vanadium (V)	2022/04/20	102	75 - 125	98	80 - 120	<5.0	ug/g		
7946367	Acid Extractable Zinc (Zn)	2022/04/20	97	75 - 125	91	80 - 120	<5.0	ug/g		
7953209	Benzene	2022/04/21	95	50 - 140	87	50 - 140	<0.020	ug/g	NC	50
7953209	Ethylbenzene	2022/04/21	104	50 - 140	97	50 - 140	<0.020	ug/g	NC	50
7953209	F1 (C6-C10) - BTEX	2022/04/21					<10	ug/g	NC	30
7953209	F1 (C6-C10)	2022/04/21	95	60 - 140	90	80 - 120	<10	ug/g	NC	30
7953209	o-Xylene	2022/04/21	102	50 - 140	96	50 - 140	<0.020	ug/g	0.45	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7953209	p+m-Xylene	2022/04/21	103	50 - 140	98	50 - 140	<0.040	ug/g	NC	50
7953209	Toluene	2022/04/21	96	50 - 140	90	50 - 140	<0.020	ug/g	7.7	50
7953209	Total Xylenes	2022/04/21					<0.040	ug/g	NC	50

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	~~B90004~~	BV Labs Job #:	Bottle Order #: 851180
Attention:	Accounts Payable	Attention:	Monique Gyba	P.O. #:			
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	~~49859-100~~ 50996-100	COC #: C#851180-02-01	Project Manager: Ronklin Gracian
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Project Name:			
Email:	accounting@mte85.com	Email:	MGyba@mte85.com + iAguilax@mte85.com	Site #:			
				Sampled By:	AAL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions
HOLD

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ✓
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	HOLD	# of Bottles	Comments
1		MW123-22 0-2	2022-04-11	9:20	Soil	X	3	
2		MW123-22 2.5-4.5	"	9:30	"	X	3	
3		MW123-22 5-7	"	9:50	"	X	3	
4		MW123-22 7.5-9.5	"	10:00	"	X	3	
5		MW123-22 10-12	"	10:20	"	X	3	
6		MW123-22 15-17	"	10:30	"	X	3	
7		MW123-22 17.5-19.5	"	10:40	"	X	3	
8		MW123-22 20-22	"	10:50	"	X	3	
9		MW122-22 0-2	"	11:30	"	X	3	
10		MW122-22 2.5-4.5	"	11:40	"	X	3	

11-Apr-22 16:24
Ronklin Gracian
C295792
RJM ENV-1609

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
	22/04/11	16:20		22/04/11	16:24	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: 8 8 8
Custody Seal Present ☐ Yes ☐ No
Intact

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas Laboratories
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CHAIN OF CUSTODY RECORD

Page 2 of 3

INVOICE TO:	REPORT TO:	PROJECT INFORMATION:	Laboratory Use Only:
Company Name: #6868 MTE Consultants Inc	Company Name:	Quotation #: ~~B90004~~	BV Labs Job #: / Bottle Order #: 851180
Attention: Accounts Payable	Attention: Monique Gyba	P.O. #:	
Address: 520 Bingemans Centre Dr, Kitchener ON N2B 3X9	Address:	Project: ~~49859-100~~ 50996-100	COC #: C#851180-03-01
Tel: (519) 743-6500 Fax: (519) 743-6513	Tel: Fax:	Project Name:	Project Manager: Ronklin Gracian
Email: accounting@mte85.com	Email: MGyba@mte85.com + IAguilar@MTE85.com	Site #:	
		Sampled By: AAL	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions: HOLD

Include Criteria on Certificate of Analysis (Y/N)?

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC): HOLD

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	HOLD	# of Bottles	Comments
1		MW122-22 5-7	2022-04-11	11:50	Soil	X	3	
2		MW122-22 7.5-9.5	"	12:05	"	X	3	
3		MW122-22 10-12	"	12:55	"	X	3	
4		MW122-22 15-17	"	13:00	"	X	3	
5		MW122-22 20-22	"	13:25	"	X	3	
6		MW124-22 0-2	"	14:20	"	X	3	
7		MW124-22 2.5-4.5	"	14:30	"	X	3	
8		MW124-22 5-7	"	14:40	"	X	3	
9		MW124-22 7.5-9.5	"	14:50	"	X	3	
10		MW124-22 10-12	"	15:00	"	X	3	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Laboratory Use Only
[signature]	22/04/11	16:20	[signature]	2022/04/11	16:20			Temperature (°C) on Recei: 8/8/8; Custody Seal Present: Yes; Intact: Yes

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	~~B80004~~	BV Labs Job #:	Bottle Order #: 851180
Attention:	Accounts Payable	Attention:	Monique Gyba	P.O. #:			
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	~~49859-100~~ 50996-100		
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Project Name:		COC #: C#851180-04-01	Project Manager: Ronklin Gracian
Email:	accounting@mte85.com	Email:	MGyba@mte85.com; Aguilar@mte85.com	Site #:			
				Sampled By:	AAL		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
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Other Regulations
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☐ Reg 558 ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions
HOLD

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☑
(will be applied if Rush TAT is not specified):
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Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	HOLD									# of Bottles	Comments
1		MW124-22 15-17	2022-04-11	15:10	Soil		X									3	
2		MW124-22 20-22	2022-04-11	15:20	1/		X									3	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
	22/04/11	16:20		22/04/11	16:20	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	9.9.8	Present		
		Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: 50996-100
Your C.O.C. #: 873609-06-01, 873609-10-01

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/22
Report #: R7095678
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C297277
Received: 2022/04/12, 13:27

Sample Matrix: Soil
Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Free (WAD) Cyanide	4	2022/04/21	2022/04/21	CAM SOP-00457	OMOE E3015 m
Acid Extractable Metals by ICPMS	6	2022/04/20	2022/04/21	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	3	2022/04/21	2022/04/21	CAM SOP-00447	EPA 6020B m
Moisture	9	N/A	2022/04/19	CAM SOP-00445	Carter 2nd ed 51.2 m
OC Pesticides (Selected) & PCB (1)	8	2022/04/20	2022/04/21	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	8	N/A	2022/04/20	CAM SOP-00307	EPA 8081/8082 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Your Project #: 50996-100
Your C.O.C. #: 873609-06-01, 873609-10-01

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/22
Report #: R7095678
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C297277
Received: 2022/04/12, 13:27

Encryption Key

Ronklin Gracian
Project Manager
22 Apr 2022 18:33:36

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752
==========
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.

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O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

Bureau Veritas ID		SIR613	SIR616	SIR616		SIR617		
Sampling Date		2022/04/12 09:35	2022/04/11 10:00	2022/04/11 10:00		2022/04/11 10:02		
COC Number		873609-06-01	873609-06-01	873609-06-01		873609-06-01		
	UNITS	**MW102-22 0-1.5**	**BH1111-22 0-2**	**BH1111-22 0-2 Lab-Dup**	**QC Batch**	**BH111-22 0-2**	**RDL**	**QC Batch**
Metals								
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	7950989	<0.20	0.20	7949307
Acid Extractable Arsenic (As)	ug/g	4.9	5.1	5.6	7950989	4.9	1.0	7949307
Acid Extractable Barium (Ba)	ug/g	83	78	81	7950989	69	0.50	7949307
Acid Extractable Beryllium (Be)	ug/g	0.79	0.76	0.77	7950989	0.68	0.20	7949307
Acid Extractable Boron (B)	ug/g	6.8	5.5	5.7	7950989	6.2	5.0	7949307
Acid Extractable Cadmium (Cd)	ug/g	0.11	0.13	0.13	7950989	0.14	0.10	7949307
Acid Extractable Chromium (Cr)	ug/g	24	24	24	7950989	21	1.0	7949307
Acid Extractable Cobalt (Co)	ug/g	12	11	12	7950989	11	0.10	7949307
Acid Extractable Copper (Cu)	ug/g	34	33	34	7950989	29	0.50	7949307
Acid Extractable Lead (Pb)	ug/g	12	12	12	7950989	11	1.0	7949307
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	<0.50	7950989	<0.50	0.50	7949307
Acid Extractable Nickel (Ni)	ug/g	27	24	25	7950989	24	0.50	7949307
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	7950989	<0.50	0.50	7949307
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	7950989	<0.20	0.20	7949307
Acid Extractable Thallium (Tl)	ug/g	0.16	0.14	0.15	7950989	0.13	0.050	7949307
Acid Extractable Uranium (U)	ug/g	0.50	0.49	0.52	7950989	0.45	0.050	7949307
Acid Extractable Vanadium (V)	ug/g	32	32	33	7950989	30	5.0	7949307
Acid Extractable Zinc (Zn)	ug/g	59	59	60	7950989	56	5.0	7949307

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Bureau Veritas Job #: C297277
Report Date: 2022/04/22

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: IA

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

Bureau Veritas ID		SIR619		SIR621		SIR625	SIR626		
Sampling Date		2022/04/11 11:15		2022/04/11 14:40		2022/04/12 12:45	2022/04/12 12:50		
COC Number		873609-06-01		873609-06-01		873609-10-01	873609-10-01		
	UNITS	**BH112-22 0-1**	**QC Batch**	**BH113-22 0-1**	**QC Batch**	**SS107-22 0-0.5**	**SS108-22 0-0.5**	**RDL**	**QC Batch**
Metals									
Acid Extractable Antimony (Sb)	ug/g	<0.20	7949307	0.23	7950989	<0.20	<0.20	0.20	7949307
Acid Extractable Arsenic (As)	ug/g	5.7	7949307	4.7	7950989	2.6	4.8	1.0	7949307
Acid Extractable Barium (Ba)	ug/g	77	7949307	70	7950989	47	64	0.50	7949307
Acid Extractable Beryllium (Be)	ug/g	0.81	7949307	0.69	7950989	0.45	0.70	0.20	7949307
Acid Extractable Boron (B)	ug/g	6.3	7949307	7.3	7950989	<5.0	5.4	5.0	7949307
Acid Extractable Cadmium (Cd)	ug/g	0.11	7949307	0.13	7950989	0.25	0.14	0.10	7949307
Acid Extractable Chromium (Cr)	ug/g	21	7949307	21	7950989	17	20	1.0	7949307
Acid Extractable Cobalt (Co)	ug/g	14	7949307	12	7950989	6.0	9.5	0.10	7949307
Acid Extractable Copper (Cu)	ug/g	32	7949307	35	7950989	18	27	0.50	7949307
Acid Extractable Lead (Pb)	ug/g	11	7949307	10	7950989	14	13	1.0	7949307
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	7949307	<0.50	7950989	<0.50	<0.50	0.50	7949307
Acid Extractable Nickel (Ni)	ug/g	33	7949307	24	7950989	13	20	0.50	7949307
Acid Extractable Selenium (Se)	ug/g	<0.50	7949307	<0.50	7950989	<0.50	<0.50	0.50	7949307
Acid Extractable Silver (Ag)	ug/g	<0.20	7949307	<0.20	7950989	<0.20	<0.20	0.20	7949307
Acid Extractable Thallium (Tl)	ug/g	0.13	7949307	0.15	7950989	0.083	0.14	0.050	7949307
Acid Extractable Uranium (U)	ug/g	0.54	7949307	0.51	7950989	0.54	0.53	0.050	7949307
Acid Extractable Vanadium (V)	ug/g	33	7949307	30	7950989	22	30	5.0	7949307
Acid Extractable Zinc (Zn)	ug/g	55	7949307	55	7950989	71	60	5.0	7949307

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

Bureau Veritas ID		SIR627	SIR628		
Sampling Date		2022/04/12 12:55	2022/04/12 12:30		
COC Number		873609-10-01	873609-10-01		
	UNITS	**SS109-22 0-0.5**	**SS110-22 0-0.5**	**RDL**	**QC Batch**
Metals					
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	0.20	7949307
Acid Extractable Arsenic (As)	ug/g	4.4	3.6	1.0	7949307
Acid Extractable Barium (Ba)	ug/g	66	57	0.50	7949307
Acid Extractable Beryllium (Be)	ug/g	0.72	0.56	0.20	7949307
Acid Extractable Boron (B)	ug/g	5.4	<5.0	5.0	7949307
Acid Extractable Cadmium (Cd)	ug/g	0.15	0.18	0.10	7949307
Acid Extractable Chromium (Cr)	ug/g	21	18	1.0	7949307
Acid Extractable Cobalt (Co)	ug/g	10	7.0	0.10	7949307
Acid Extractable Copper (Cu)	ug/g	29	23	0.50	7949307
Acid Extractable Lead (Pb)	ug/g	13	18	1.0	7949307
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	0.50	7949307
Acid Extractable Nickel (Ni)	ug/g	21	16	0.50	7949307
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	7949307
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	0.20	7949307
Acid Extractable Thallium (Tl)	ug/g	0.15	0.13	0.050	7949307
Acid Extractable Uranium (U)	ug/g	0.54	0.45	0.050	7949307
Acid Extractable Vanadium (V)	ug/g	31	28	5.0	7949307
Acid Extractable Zinc (Zn)	ug/g	60	98	5.0	7949307

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIR613	SIR616		SIR617	SIR619		
Sampling Date		2022/04/12 09:35	2022/04/11 10:00		2022/04/11 10:02	2022/04/11 11:15		
COC Number		873609-06-01	873609-06-01		873609-06-01	873609-06-01		
	UNITS	**MW102-22 0-1.5**	**BH1111-22 0-2**	**QC Batch**	**BH111-22 0-2**	**BH112-22 0-1**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	16	19	7946629	21	20	1.0	7946756
Calculated Parameters								
Chlordane (Total)	ug/g	<0.0020	<0.0020	7944396	<0.0020	<0.0020	0.0020	7944396
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	7944396	<0.0020	<0.0020	0.0020	7944396
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	7944396	<0.0020	<0.0020	0.0020	7944396
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	7944396	<0.0020	<0.0020	0.0020	7944396
Total Endosulfan	ug/g	<0.0020	<0.0020	7944396	<0.0020	<0.0020	0.0020	7944396
Pesticides & Herbicides								
Aldrin	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
a-Chlordane	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
g-Chlordane	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
o,p-DDD	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
p,p-DDD	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
o,p-DDE	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
p,p-DDE	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
o,p-DDT	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
p,p-DDT	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
Dieldrin	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
Lindane	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
Endrin	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
Heptachlor	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
Heptachlor epoxide	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
Hexachlorobenzene	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
Hexachloroethane	ug/g	<0.0020	<0.0020	7949569	<0.0020	<0.0020	0.0020	7949569
Methoxychlor	ug/g	<0.0050	<0.0050	7949569	<0.0050	<0.0050	0.0050	7949569
Surrogate Recovery (%)								
2,4,5,6-Tetrachloro-m-xylene	%	70	71	7949569	86	75		7949569
Decachlorobiphenyl	%	53	59	7949569	78	70		7949569

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIR621			SIR625		SIR627	SIR628		
Sampling Date		2022/04/11 14:40			2022/04/12 12:45		2022/04/12 12:55	2022/04/12 12:30		
COC Number		873609-06-01			873609-10-01		873609-10-01	873609-10-01		
	UNITS	**BH113-22 0-1**	**RDL**	**QC Batch**	**SS107-22 0-0.5**	**RDL**	**SS109-22 0-0.5**	**SS110-22 0-0.5**	**RDL**	**QC Batch**
Inorganics										
Moisture	%	18	1.0	7946629						
Calculated Parameters										
Chlordane (Total)	ug/g	<0.0020	0.0020	7944396	<0.040	0.040	<0.0020	<0.0020	0.0020	7944396
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	7944396	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7944396
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	7944396	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7944396
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	7944396	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7944396
Total Endosulfan	ug/g	<0.0020	0.0020	7944396	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7944396
Pesticides & Herbicides										
Aldrin	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
a-Chlordane	ug/g	<0.0020	0.0020	7949569	<0.040 (1)	0.040	<0.0020	<0.0020	0.0020	7949569
g-Chlordane	ug/g	<0.0020	0.0020	7949569	0.018	0.0040	<0.0020	<0.0020	0.0020	7949569
o,p-DDD	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
p,p-DDD	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
o,p-DDE	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
p,p-DDE	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
o,p-DDT	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
p,p-DDT	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
Dieldrin	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
Lindane	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
Endosulfan II (beta)	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
Endrin	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
Heptachlor	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
Heptachlor epoxide	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
Hexachlorobenzene	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
Hexachlorobutadiene	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
Hexachloroethane	ug/g	<0.0020	0.0020	7949569	<0.0040	0.0040	<0.0020	<0.0020	0.0020	7949569
Methoxychlor	ug/g	<0.0050	0.0050	7949569	<0.010	0.010	<0.0050	<0.0050	0.0050	7949569
Surrogate Recovery (%)										
2,4,5,6-Tetrachloro-m-xylene	%	80		7949569	76		56	80		7949569
Decachlorobiphenyl	%	81		7949569	86		64	87		7949569

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Detection Limit was raised due to matrix interferences.

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RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SIR625	SIR626	SIR627			SIR627		
Sampling Date		2022/04/12 12:45	2022/04/12 12:50	2022/04/12 12:55			2022/04/12 12:55		
COC Number		873609-10-01	873609-10-01	873609-10-01			873609-10-01		
	UNITS	**SS107-22 0-0.5**	**SS108-22 0-0.5**	**SS109-22 0-0.5**	**RDL**	**QC Batch**	**SS109-22 0-0.5 Lab-Dup**	**RDL**	**QC Batch**
Inorganics									
Moisture	%	33	22	21	1.0	7946756	21	1.0	7946756
WAD Cyanide (Free)	ug/g	<0.01	<0.01	<0.01	0.01	7951005			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		SIR628		
Sampling Date		2022/04/12 12:30		
COC Number		873609-10-01		
	UNITS	**SS110-22 0-0.5**	**RDL**	**QC Batch**
Inorganics				
Moisture	%	25	1.0	7946756
WAD Cyanide (Free)	ug/g	<0.01	0.01	7951005

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: SIR613 **Collected:** 2022/04/12
Sample ID: MW102-22 0-1.5 **Shipped:**
Matrix: Soil **Received:** 2022/04/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7950989	2022/04/21	2022/04/21	Viviana Canzonieri
Moisture	BAL	7946629	N/A	2022/04/19	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7949569	2022/04/20	2022/04/21	Li Peng
OC Pesticides Summed Parameters	CALC	7944396	N/A	2022/04/20	Automated Statchk

Bureau Veritas ID: SIR616 **Collected:** 2022/04/11
Sample ID: BH1111-22 0-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7950989	2022/04/21	2022/04/21	Viviana Canzonieri
Moisture	BAL	7946629	N/A	2022/04/19	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7949569	2022/04/20	2022/04/21	Li Peng
OC Pesticides Summed Parameters	CALC	7944396	N/A	2022/04/20	Automated Statchk

Bureau Veritas ID: SIR616 Dup **Collected:** 2022/04/11
Sample ID: BH1111-22 0-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7950989	2022/04/21	2022/04/21	Viviana Canzonieri

Bureau Veritas ID: SIR617 **Collected:** 2022/04/11
Sample ID: BH111-22 0-2 **Shipped:**
Matrix: Soil **Received:** 2022/04/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7949307	2022/04/20	2022/04/21	Prempal Bhatti
Moisture	BAL	7946756	N/A	2022/04/19	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7949569	2022/04/20	2022/04/21	Li Peng
OC Pesticides Summed Parameters	CALC	7944396	N/A	2022/04/20	Automated Statchk

Bureau Veritas ID: SIR619 **Collected:** 2022/04/11
Sample ID: BH112-22 0-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7949307	2022/04/20	2022/04/21	Prempal Bhatti
Moisture	BAL	7946756	N/A	2022/04/19	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7949569	2022/04/20	2022/04/21	Li Peng
OC Pesticides Summed Parameters	CALC	7944396	N/A	2022/04/20	Automated Statchk

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TEST SUMMARY

Bureau Veritas ID: SIR621 **Collected:** 2022/04/11
Sample ID: BH113-22 0-1 **Shipped:**
Matrix: Soil **Received:** 2022/04/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7950989	2022/04/21	2022/04/21	Viviana Canzonieri
Moisture	BAL	7946629	N/A	2022/04/19	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7949569	2022/04/20	2022/04/21	Li Peng
OC Pesticides Summed Parameters	CALC	7944396	N/A	2022/04/20	Automated Statchk

Bureau Veritas ID: SIR625 **Collected:** 2022/04/12
Sample ID: SS107-22 0-0.5 **Shipped:**
Matrix: Soil **Received:** 2022/04/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7951005	2022/04/21	2022/04/21	Aditiben Patel
Acid Extractable Metals by ICPMS	ICP/MS	7949307	2022/04/20	2022/04/21	Prempal Bhatti
Moisture	BAL	7946756	N/A	2022/04/19	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7949569	2022/04/20	2022/04/21	Li Peng
OC Pesticides Summed Parameters	CALC	7944396	N/A	2022/04/20	Automated Statchk

Bureau Veritas ID: SIR626 **Collected:** 2022/04/12
Sample ID: SS108-22 0-0.5 **Shipped:**
Matrix: Soil **Received:** 2022/04/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7951005	2022/04/21	2022/04/21	Aditiben Patel
Acid Extractable Metals by ICPMS	ICP/MS	7949307	2022/04/20	2022/04/21	Prempal Bhatti
Moisture	BAL	7946756	N/A	2022/04/19	Kruti Jitesh Patel

Bureau Veritas ID: SIR627 **Collected:** 2022/04/12
Sample ID: SS109-22 0-0.5 **Shipped:**
Matrix: Soil **Received:** 2022/04/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7951005	2022/04/21	2022/04/21	Aditiben Patel
Acid Extractable Metals by ICPMS	ICP/MS	7949307	2022/04/20	2022/04/21	Prempal Bhatti
Moisture	BAL	7946756	N/A	2022/04/19	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7949569	2022/04/20	2022/04/21	Li Peng
OC Pesticides Summed Parameters	CALC	7944396	N/A	2022/04/20	Automated Statchk

Bureau Veritas ID: SIR627 Dup **Collected:** 2022/04/12
Sample ID: SS109-22 0-0.5 **Shipped:**
Matrix: Soil **Received:** 2022/04/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7946756	N/A	2022/04/19	Kruti Jitesh Patel

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Bureau Veritas Job #: C297277
Report Date: 2022/04/22

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: IA

TEST SUMMARY

Bureau Veritas ID: SIR628
Sample ID: SS110-22 0-0.5
Matrix: Soil

Collected: 2022/04/12
Shipped:
Received: 2022/04/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7951005	2022/04/21	2022/04/21	Aditiben Patel
Acid Extractable Metals by ICPMS	ICP/MS	7949307	2022/04/20	2022/04/21	Prempal Bhatti
Moisture	BAL	7946756	N/A	2022/04/19	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7949569	2022/04/20	2022/04/21	Li Peng
OC Pesticides Summed Parameters	CALC	7944396	N/A	2022/04/20	Automated Statchk

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	18.7°C

Sample SIR625 [SS107-22 0-0.5] : OC Pesticide Analysis: Detection limits were adjusted for high moisture content.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7949569	2,4,5,6-Tetrachloro-m-xylene	2022/04/21	73	50 - 130	75	50 - 130	67	%		
7949569	Decachlorobiphenyl	2022/04/21	106	50 - 130	104	50 - 130	104	%		
7946629	Moisture	2022/04/19							4.6	20
7946756	Moisture	2022/04/19							0.96	20
7949307	Acid Extractable Antimony (Sb)	2022/04/21	104	75 - 125	103	80 - 120	<0.20	ug/g	14	30
7949307	Acid Extractable Arsenic (As)	2022/04/21	103	75 - 125	100	80 - 120	<1.0	ug/g	7.9	30
7949307	Acid Extractable Barium (Ba)	2022/04/21	104	75 - 125	97	80 - 120	<0.50	ug/g	5.3	30
7949307	Acid Extractable Beryllium (Be)	2022/04/21	101	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
7949307	Acid Extractable Boron (B)	2022/04/21	98	75 - 125	96	80 - 120	<5.0	ug/g	NC	30
7949307	Acid Extractable Cadmium (Cd)	2022/04/21	102	75 - 125	99	80 - 120	<0.10	ug/g	4.5	30
7949307	Acid Extractable Chromium (Cr)	2022/04/21	104	75 - 125	100	80 - 120	<1.0	ug/g	2.7	30
7949307	Acid Extractable Cobalt (Co)	2022/04/21	102	75 - 125	101	80 - 120	<0.10	ug/g	1.5	30
7949307	Acid Extractable Copper (Cu)	2022/04/21	100	75 - 125	98	80 - 120	<0.50	ug/g	5.2	30
7949307	Acid Extractable Lead (Pb)	2022/04/21	NC	75 - 125	96	80 - 120	<1.0	ug/g	6.0	30
7949307	Acid Extractable Molybdenum (Mo)	2022/04/21	102	75 - 125	95	80 - 120	<0.50	ug/g	NC	30
7949307	Acid Extractable Nickel (Ni)	2022/04/21	107	75 - 125	105	80 - 120	<0.50	ug/g	3.7	30
7949307	Acid Extractable Selenium (Se)	2022/04/21	104	75 - 125	102	80 - 120	<0.50	ug/g	NC	30
7949307	Acid Extractable Silver (Ag)	2022/04/21	100	75 - 125	97	80 - 120	<0.20	ug/g	NC	30
7949307	Acid Extractable Thallium (Tl)	2022/04/21	100	75 - 125	98	80 - 120	<0.050	ug/g	8.4	30
7949307	Acid Extractable Uranium (U)	2022/04/21	102	75 - 125	98	80 - 120	<0.050	ug/g	20	30
7949307	Acid Extractable Vanadium (V)	2022/04/21	108	75 - 125	101	80 - 120	<5.0	ug/g	6.0	30
7949307	Acid Extractable Zinc (Zn)	2022/04/21	NC	75 - 125	103	80 - 120	<5.0	ug/g	5.8	30
7949569	a-Chlordane	2022/04/21	77	50 - 130	83	50 - 130	<0.0020	ug/g	NC	40
7949569	Aldrin	2022/04/21	98	50 - 130	104	50 - 130	<0.0020	ug/g	NC	40
7949569	Dieldrin	2022/04/21	93	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40
7949569	Endosulfan I (alpha)	2022/04/21	82	50 - 130	79	50 - 130	<0.0020	ug/g	NC	40
7949569	Endosulfan II (beta)	2022/04/21	89	50 - 130	95	50 - 130	<0.0020	ug/g	NC	40
7949569	Endrin	2022/04/21	92	50 - 130	94	50 - 130	<0.0020	ug/g	NC	40
7949569	g-Chlordane	2022/04/21	78	50 - 130	84	50 - 130	<0.0020	ug/g	NC	40
7949569	Heptachlor epoxide	2022/04/21	77	50 - 130	82	50 - 130	<0.0020	ug/g	NC	40
7949569	Heptachlor	2022/04/21	70	50 - 130	74	50 - 130	<0.0020	ug/g	NC	40

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7949569	Hexachlorobenzene	2022/04/21	81	50 - 130	80	50 - 130	<0.0020	ug/g	NC	40
7949569	Hexachlorobutadiene	2022/04/21	55	50 - 130	90	50 - 130	<0.0020	ug/g	NC	40
7949569	Hexachloroethane	2022/04/21	51	50 - 130	68	50 - 130	<0.0020	ug/g	NC	40
7949569	Lindane	2022/04/21	73	50 - 130	77	50 - 130	<0.0020	ug/g	NC	40
7949569	Methoxychlor	2022/04/21	99	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
7949569	o,p-DDD	2022/04/21	87	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40
7949569	o,p-DDE	2022/04/21	76	50 - 130	78	50 - 130	<0.0020	ug/g	NC	40
7949569	o,p-DDT	2022/04/21	81	50 - 130	85	50 - 130	<0.0020	ug/g	NC	40
7949569	p,p-DDD	2022/04/21	86	50 - 130	92	50 - 130	<0.0020	ug/g	NC	40
7949569	p,p-DDE	2022/04/21	98	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40
7949569	p,p-DDT	2022/04/21	86	50 - 130	88	50 - 130	<0.0020	ug/g	NC	40
7950989	Acid Extractable Antimony (Sb)	2022/04/21	96	75 - 125	108	80 - 120	<0.20	ug/g	NC	30
7950989	Acid Extractable Arsenic (As)	2022/04/21	100	75 - 125	104	80 - 120	<1.0	ug/g	9.1	30
7950989	Acid Extractable Barium (Ba)	2022/04/21	NC	75 - 125	105	80 - 120	<0.50	ug/g	4.0	30
7950989	Acid Extractable Beryllium (Be)	2022/04/21	102	75 - 125	101	80 - 120	<0.20	ug/g	0.89	30
7950989	Acid Extractable Boron (B)	2022/04/21	92	75 - 125	98	80 - 120	<5.0	ug/g	3.7	30
7950989	Acid Extractable Cadmium (Cd)	2022/04/21	106	75 - 125	105	80 - 120	<0.10	ug/g	2.2	30
7950989	Acid Extractable Chromium (Cr)	2022/04/21	102	75 - 125	105	80 - 120	<1.0	ug/g	2.0	30
7950989	Acid Extractable Cobalt (Co)	2022/04/21	105	75 - 125	106	80 - 120	<0.10	ug/g	4.5	30
7950989	Acid Extractable Copper (Cu)	2022/04/21	NC	75 - 125	104	80 - 120	<0.50	ug/g	1.8	30
7950989	Acid Extractable Lead (Pb)	2022/04/21	104	75 - 125	105	80 - 120	<1.0	ug/g	4.6	30
7950989	Acid Extractable Molybdenum (Mo)	2022/04/21	106	75 - 125	108	80 - 120	<0.50	ug/g	NC	30
7950989	Acid Extractable Nickel (Ni)	2022/04/21	108	75 - 125	104	80 - 120	<0.50	ug/g	2.5	30
7950989	Acid Extractable Selenium (Se)	2022/04/21	99	75 - 125	101	80 - 120	<0.50	ug/g	NC	30
7950989	Acid Extractable Silver (Ag)	2022/04/21	106	75 - 125	107	80 - 120	<0.20	ug/g	NC	30
7950989	Acid Extractable Thallium (Tl)	2022/04/21	105	75 - 125	106	80 - 120	<0.050	ug/g	9.7	30
7950989	Acid Extractable Uranium (U)	2022/04/21	107	75 - 125	105	80 - 120	<0.050	ug/g	6.1	30
7950989	Acid Extractable Vanadium (V)	2022/04/21	NC	75 - 125	105	80 - 120	<5.0	ug/g	3.6	30
7950989	Acid Extractable Zinc (Zn)	2022/04/21	NC	75 - 125	102	80 - 120	<5.0	ug/g	2.2	30

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7951005	WAD Cyanide (Free)	2022/04/21	90	75 - 125	91	80 - 120	<0.01	ug/g	NC	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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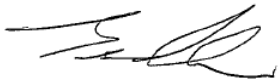
VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

Page 1 of 2

12-Apr-22 18:30
Ronklin Gracian
C297277

DSG ENV-1989

Only:

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	B90004
Attention:	Accounts Payable	Attention:	Monique Gyba	P.O. #:	
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	50996-100
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Project Name:	
Email:	accounting@mte85.com	Email:	MGyba@mte85.com	Site #:	
				Sampled By:	IVA

Bottle Order #: 873609
COC #: C#873609-06-01
Project Manager: Ronklin Gracian

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558. ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

HOLD

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☑
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	# of Bottles	Comments
1		MW102-22 0-1.5	April 12th, 2022	9:35	SOIL	1	
2		MW102-22 2.5-4.5	"	9:45	"	1	
3		MW102-22 0-1.5	"	9:37	"	1	
4		BH111-22 0-2	April 11th, 2022	10:00	"	1	
5		BH111-22 0-2	"	10:02	"	1	
6		BH111-22 2.5-4.5	"	10:05	"	1	
7		BH112-22 0-1	"	11:45	"	1	
8		BH112-22 2.5-4.5	"	11:50	"	1	
9		BH113-22 0-1	"	14:40	"	1	
10		BH113-22 2.5-4.5	"	15:10	"	1	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
IVAN AGUIZAR	22/04/12	18:30	DIPIKA SINGH	2022/04/12	18:30	

Laboratory Use Only
Time Sensitive
Temperature (°C) on Recei: 20 | 18 | 18
Custody Seal Present: Yes ☑ / No ☐
Intact

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

on Ice

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	B90004	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Monique Gyba	P.O. #:			873609
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	50996-100	COC #:	Project Manager:
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Project Name:		C#873609-10-01	Ronklin Gracian
Email:	accounting@mte85.com	Email:	MGyba@mte85.com	Site #:			
				Sampled By:	SEE PAGE 1		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558. ☐ Storm Sewer Bylaw ☐ MISA Municipality ☐ PWQO ☐ Reg 406 Table ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

HOLD

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☑
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	# of Bottles	Comments
1		BH114-22 0-1	April 11th, 2022	13:30	SOIL	1	
2		BH114-22 2.5-4.5	↓	13:40		1	
3		SS107-22 0-0.5	April 12th,	12:45		3	
4		SS108-22 0-0.5		12:50		3	
5		SS109-22 0-0.5		12:55		3	
6		SS110-22 0-0.5	↓	12:30	↓	3	
7							
8							
9							
10							

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
SEE PAGE 1			See Page 1				Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
									Present		
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: 50996-100

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Your C.O.C. #: 873609-01-01, 873609-02-01, 873609-03-01, 873609-04-01

Report Date: 2022/05/06
Report #: R7113711
Version: 5 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C294470
Received: 2022/04/08, 17:41

Sample Matrix: Soil
Samples Received: 22

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	3	N/A	2022/04/19	CAM SOP-00301	EPA 8270D m
Free (WAD) Cyanide	1	2022/04/18	2022/04/18	CAM SOP-00457	OMOE E3015 m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	9	N/A	2022/04/18	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	1	N/A	2022/04/19	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	4	N/A	2022/04/26	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	1	N/A	2022/04/28	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydro. CCME F1 & BTEX in Soil (1)	1	N/A	2022/04/29	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	10	2022/04/18	2022/04/19	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	4	2022/04/26	2022/04/26	CAM SOP-00316	CCME CWS m
Petroleum Hydrocarbons F2-F4 in Soil (2)	2	2022/04/28	2022/04/29	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric)	4	2022/04/20	2022/04/20	CAM SOP-00316	CCME PHC-CWS m
F4G (CCME Hydrocarbons Gravimetric)	1	2022/04/27	2022/04/27	CAM SOP-00316	CCME PHC-CWS m
F4G (CCME Hydrocarbons Gravimetric)	1	2022/05/02	2022/05/02	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS	14	2022/04/18	2022/04/19	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	2	2022/04/19	2022/04/20	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS	1	2022/04/20	2022/04/21	CAM SOP-00447	EPA 6020B m
Moisture	16	N/A	2022/04/12	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	1	N/A	2022/04/18	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	4	N/A	2022/04/25	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	1	N/A	2022/04/28	CAM SOP-00445	Carter 2nd ed 51.2 m
OC Pesticides (Selected) & PCB (3)	4	2022/04/13	2022/04/14	CAM SOP-00307	SW846 8081, 8082
OC Pesticides (Selected) & PCB (3)	1	2022/04/20	2022/04/21	CAM SOP-00307	SW846 8081, 8082
OC Pesticides Summed Parameters	4	N/A	2022/04/13	CAM SOP-00307	EPA 8081/8082 m
OC Pesticides Summed Parameters	1	N/A	2022/04/18	CAM SOP-00307	EPA 8081/8082 m
PAH Compounds in Soil by GC/MS (SIM)	2	2022/04/18	2022/04/18	CAM SOP-00318	EPA 8270D m
PAH Compounds in Soil by GC/MS (SIM)	1	2022/04/18	2022/04/19	CAM SOP-00318	EPA 8270D m
pH CaCl2 EXTRACT	2	2022/05/05	2022/05/05	CAM SOP-00413	EPA 9045 D m

Your Project #: 50996-100

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Your C.O.C. #: 873609-01-01, 873609-02-01, 873609-03-01, 873609-04-01

Report Date: 2022/05/06
Report #: R7113711
Version: 5 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C294470
Received: 2022/04/08, 17:41

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.
(3) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Your Project #: 50996-100

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Your C.O.C. #: 873609-01-01, 873609-02-01, 873609-03-01, 873609-04-01

Report Date: 2022/05/06
Report #: R7113711
Version: 5 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C294470
Received: 2022/04/08, 17:41

Encryption Key

Ronklin Gracian
Project Manager
06 May 2022 13:40:08

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752

==========

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O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

Bureau Veritas ID		SIB145	SIB151		SIB153		
Sampling Date		2022/04/08 13:50	2022/04/08 10:30		2022/04/08 10:30		
COC Number		873609-01-01	873609-01-01		873609-01-01		
	UNITS	**BH107-22 0-1FT**	**BH110-22 0-1FT**	**QC Batch**	**MW116-22 0-2FT**	**RDL**	**QC Batch**
Metals							
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	7944622	<0.20	0.20	7949374
Acid Extractable Arsenic (As)	ug/g	2.3	3.5	7944622	3.7	1.0	7949374
Acid Extractable Barium (Ba)	ug/g	91	76	7944622	48	0.50	7949374
Acid Extractable Beryllium (Be)	ug/g	0.75	0.72	7944622	0.27	0.20	7949374
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	7944622	<5.0	5.0	7949374
Acid Extractable Cadmium (Cd)	ug/g	0.25	0.25	7944622	0.11	0.10	7949374
Acid Extractable Chromium (Cr)	ug/g	23	21	7944622	10	1.0	7949374
Acid Extractable Cobalt (Co)	ug/g	9.0	8.4	7944622	5.0	0.10	7949374
Acid Extractable Copper (Cu)	ug/g	15	18	7944622	22	0.50	7949374
Acid Extractable Lead (Pb)	ug/g	11	13	7944622	8.6	1.0	7949374
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	7944622	0.52	0.50	7949374
Acid Extractable Nickel (Ni)	ug/g	17	18	7944622	9.2	0.50	7949374
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	7944622	<0.50	0.50	7949374
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	7944622	<0.20	0.20	7949374
Acid Extractable Thallium (Tl)	ug/g	0.14	0.14	7944622	0.082	0.050	7949374
Acid Extractable Uranium (U)	ug/g	0.69	0.66	7944622	0.40	0.050	7949374
Acid Extractable Vanadium (V)	ug/g	28	31	7944622	17	5.0	7949374
Acid Extractable Zinc (Zn)	ug/g	74	72	7944622	44	5.0	7949374

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

Bureau Veritas ID		SIB160		SIB162	SIB164		
Sampling Date		2022/04/08 11:20		2022/04/08 11:40	2022/04/08 13:22		
COC Number		873609-02-01		873609-02-01	873609-02-01		
	UNITS	**MW116-22 15-17FT**	**QC Batch**	**MW116-22 20-22FT**	**BH1117-22 0-1.5FT**	**RDL**	**QC Batch**
Metals							
Acid Extractable Antimony (Sb)	ug/g	<0.20	7944622	<0.20	<0.20	0.20	7946551
Acid Extractable Arsenic (As)	ug/g	4.5	7944622	3.6	4.3	1.0	7946551
Acid Extractable Barium (Ba)	ug/g	34	7944622	15	70	0.50	7946551
Acid Extractable Beryllium (Be)	ug/g	0.40	7944622	0.26	0.71	0.20	7946551
Acid Extractable Boron (B)	ug/g	<5.0	7944622	<5.0	<5.0	5.0	7946551
Acid Extractable Cadmium (Cd)	ug/g	<0.10	7944622	<0.10	0.15	0.10	7946551
Acid Extractable Chromium (Cr)	ug/g	15	7944622	9.8	20	1.0	7946551
Acid Extractable Cobalt (Co)	ug/g	8.4	7944622	5.3	8.3	0.10	7946551
Acid Extractable Copper (Cu)	ug/g	25	7944622	30	22	0.50	7946551
Acid Extractable Lead (Pb)	ug/g	6.5	7944622	13	13	1.0	7946551
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	7944622	<0.50	0.54	0.50	7946551
Acid Extractable Nickel (Ni)	ug/g	18	7944622	9.8	17	0.50	7946551
Acid Extractable Selenium (Se)	ug/g	<0.50	7944622	<0.50	<0.50	0.50	7946551
Acid Extractable Silver (Ag)	ug/g	<0.20	7944622	<0.20	<0.20	0.20	7946551
Acid Extractable Thallium (Tl)	ug/g	0.081	7944622	0.066	0.13	0.050	7946551
Acid Extractable Uranium (U)	ug/g	0.62	7944622	0.45	0.61	0.050	7946551
Acid Extractable Vanadium (V)	ug/g	20	7944622	20	32	5.0	7946551
Acid Extractable Zinc (Zn)	ug/g	43	7944622	33	57	5.0	7946551

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

Bureau Veritas ID		SIB165	SIB167	SIB167	SIB169		
Sampling Date		2022/04/08 13:20	2022/04/08 13:40	2022/04/08 13:40	2022/04/08 14:20		
COC Number		873609-03-01	873609-03-01	873609-03-01	873609-03-01		
	UNITS	**BH117-22 0-1.5FT**	**BH118-22 0-1.5FT**	**BH118-22 0-1.5FT Lab-Dup**	**BH119-22 0-1.5FT**	**RDL**	**QC Batch**
Metals							
Acid Extractable Antimony (Sb)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	7944622
Acid Extractable Arsenic (As)	ug/g	4.3	2.7	2.8	2.9	1.0	7944622
Acid Extractable Barium (Ba)	ug/g	68	41	41	58	0.50	7944622
Acid Extractable Beryllium (Be)	ug/g	0.73	0.21	0.22	0.38	0.20	7944622
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	<5.0	<5.0	5.0	7944622
Acid Extractable Cadmium (Cd)	ug/g	0.16	<0.10	<0.10	0.17	0.10	7944622
Acid Extractable Chromium (Cr)	ug/g	20	10	9.4	19	1.0	7944622
Acid Extractable Cobalt (Co)	ug/g	8.8	4.8	4.5	6.1	0.10	7944622
Acid Extractable Copper (Cu)	ug/g	20	22	23	23	0.50	7944622
Acid Extractable Lead (Pb)	ug/g	14	12	12	13	1.0	7944622
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.58	<0.50	0.66	0.50	7944622
Acid Extractable Nickel (Ni)	ug/g	18	9.1	8.9	12	0.50	7944622
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	7944622
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	7944622
Acid Extractable Thallium (Tl)	ug/g	0.11	0.076	0.076	0.095	0.050	7944622
Acid Extractable Uranium (U)	ug/g	0.59	0.38	0.38	0.49	0.050	7944622
Acid Extractable Vanadium (V)	ug/g	31	22	19	27	5.0	7944622
Acid Extractable Zinc (Zn)	ug/g	53	43	43	60	5.0	7944622

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

Bureau Veritas ID		SIB172	SIB185	SIB188	SIB189		
Sampling Date		2022/04/08 14:50	2022/04/08 15:15	2022/04/08 12:10	2022/04/08 12:20		
COC Number		873609-03-01	873609-04-01	873609-04-01	873609-04-01		
	UNITS	**BH120-22 0-2FT**	**BH121-22 2.5-4.5**	**SS101-22 0-0.5FT**	**SS102-22 0-0.5FT**	**RDL**	**QC Batch**
Metals							
Acid Extractable Antimony (Sb)	ug/g	<0.20	0.23	1.7	<0.20	0.20	7944622
Acid Extractable Arsenic (As)	ug/g	5.1	4.2	12	3.1	1.0	7944622
Acid Extractable Barium (Ba)	ug/g	89	65	73	26	0.50	7944622
Acid Extractable Beryllium (Be)	ug/g	0.78	0.45	0.61	0.28	0.20	7944622
Acid Extractable Boron (B)	ug/g	<5.0	<5.0	5.8	<5.0	5.0	7944622
Acid Extractable Cadmium (Cd)	ug/g	0.22	0.30	0.37	<0.10	0.10	7944622
Acid Extractable Chromium (Cr)	ug/g	23	18	23	10	1.0	7944622
Acid Extractable Cobalt (Co)	ug/g	11	6.4	7.5	5.2	0.10	7944622
Acid Extractable Copper (Cu)	ug/g	31	18	37	24	0.50	7944622
Acid Extractable Lead (Pb)	ug/g	14	24	27	6.8	1.0	7944622
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	0.54	0.73	<0.50	0.50	7944622
Acid Extractable Nickel (Ni)	ug/g	23	15	17	11	0.50	7944622
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	7944622
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	7944622
Acid Extractable Thallium (Tl)	ug/g	0.14	0.11	0.12	0.071	0.050	7944622
Acid Extractable Uranium (U)	ug/g	0.58	0.55	0.58	0.36	0.050	7944622
Acid Extractable Vanadium (V)	ug/g	32	25	28	17	5.0	7944622
Acid Extractable Zinc (Zn)	ug/g	71	110	170	33	5.0	7944622

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (SOIL)

Bureau Veritas ID		SIB190	SIB191	SIB192	SIB193		
Sampling Date		2022/04/08 12:30	2022/04/08 12:50	2022/04/08 13:00	2022/04/08 12:55		
COC Number		873609-04-01	873609-04-01	873609-04-01	873609-04-01		
	UNITS	**SS103-22 0-0.5FT**	**SS104-22 0-0.5FT**	**SS105-22 0-0.5FT**	**SS106-22 0-0.5FT**	**RDL**	**QC Batch**
Metals							
Acid Extractable Antimony (Sb)	ug/g	0.38	<0.20	0.25	<0.20	0.20	7944622
Acid Extractable Arsenic (As)	ug/g	4.8	2.6	2.2	3.3	1.0	7944622
Acid Extractable Barium (Ba)	ug/g	110	85	24	65	0.50	7944622
Acid Extractable Beryllium (Be)	ug/g	0.61	0.72	<0.20	0.52	0.20	7944622
Acid Extractable Boron (B)	ug/g	<5.0	5.2	<5.0	<5.0	5.0	7944622
Acid Extractable Cadmium (Cd)	ug/g	0.71	0.26	0.10	0.14	0.10	7944622
Acid Extractable Chromium (Cr)	ug/g	20	23	9.3	16	1.0	7944622
Acid Extractable Cobalt (Co)	ug/g	10	9.1	4.1	6.9	0.10	7944622
Acid Extractable Copper (Cu)	ug/g	31	27	23	22	0.50	7944622
Acid Extractable Lead (Pb)	ug/g	360	15	17	11	1.0	7944622
Acid Extractable Molybdenum (Mo)	ug/g	<0.50	<0.50	0.67	<0.50	0.50	7944622
Acid Extractable Nickel (Ni)	ug/g	20	20	8.9	15	0.50	7944622
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	<0.50	<0.50	0.50	7944622
Acid Extractable Silver (Ag)	ug/g	<0.20	<0.20	<0.20	<0.20	0.20	7944622
Acid Extractable Thallium (Tl)	ug/g	0.13	0.16	0.073	0.10	0.050	7944622
Acid Extractable Uranium (U)	ug/g	0.42	0.58	0.33	0.47	0.050	7944622
Acid Extractable Vanadium (V)	ug/g	27	30	19	25	5.0	7944622
Acid Extractable Zinc (Zn)	ug/g	530	99	55	55	5.0	7944622

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIB145	SIB151			SIB153		
Sampling Date		2022/04/08 13:50	2022/04/08 10:30			2022/04/08 10:30		
COC Number		873609-01-01	873609-01-01			873609-01-01		
	UNITS	**BH107-22 0-1FT**	**BH110-22 0-1FT**	**RDL**	**QC Batch**	**MW116-22 0-2FT**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	27	21	1.0	7936787	8.8	1.0	7944459
Calculated Parameters								
Chlordane (Total)	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.010	0.010	7944396
o,p-DDD + p,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.010	0.010	7944396
o,p-DDE + p,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.010	0.010	7944396
o,p-DDT + p,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.010	0.010	7944396
Total Endosulfan	ug/g	<0.0020	<0.0020	0.0020	7935929	<0.010	0.010	7944396
Pesticides & Herbicides								
Aldrin	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
a-Chlordane	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
g-Chlordane	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
o,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
p,p-DDD	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
o,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
p,p-DDE	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
o,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
p,p-DDT	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
Dieldrin	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
Lindane	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
Endosulfan I (alpha)	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
Endosulfan II (beta)	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
Endrin	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
Heptachlor	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
Heptachlor epoxide	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
Hexachlorobenzene	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
Hexachlorobutadiene	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
Hexachloroethane	ug/g	<0.0020	<0.0020	0.0020	7938861	<0.010	0.010	7949569
Methoxychlor	ug/g	<0.0050	<0.0050	0.0050	7938861	<0.025	0.025	7949569
Surrogate Recovery (%)								
2,4,5,6-Tetrachloro-m-xylene	%	78	82		7938861	105		7949569
Decachlorobiphenyl	%	110	103		7938861	80		7949569

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIB162			SIB162		
Sampling Date		2022/04/08 11:40			2022/04/08 11:40		
COC Number		873609-02-01			873609-02-01		
	UNITS	**MW116-22 20-22FT**	**RDL**	**QC Batch**	**MW116-22 20-22FT Lab-Dup**	**RDL**	**QC Batch**
Inorganics							
Moisture	%	8.1	1.0	7936787			
Calculated Parameters							
Chlordane (Total)	ug/g	<0.0020	0.0020	7935929			
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	7935929			
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	7935929			
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	7935929			
Total Endosulfan	ug/g	<0.0020	0.0020	7935929			
Pesticides & Herbicides							
Aldrin	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
a-Chlordane	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
g-Chlordane	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
o,p-DDD	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
p,p-DDD	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
o,p-DDE	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
p,p-DDE	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
o,p-DDT	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
p,p-DDT	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
Dieldrin	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
Lindane	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
Endosulfan II (beta)	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
Endrin	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
Heptachlor	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
Heptachlor epoxide	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
Hexachlorobenzene	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
Hexachlorobutadiene	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
Hexachloroethane	ug/g	<0.0020	0.0020	7938861	<0.0020	0.0020	7938861
Methoxychlor	ug/g	<0.0050	0.0050	7938861	<0.0050	0.0050	7938861
Surrogate Recovery (%)							
2,4,5,6-Tetrachloro-m-xylene	%	76		7938861	70		7938861

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIB162			SIB162		
Sampling Date		2022/04/08 11:40			2022/04/08 11:40		
COC Number		873609-02-01			873609-02-01		
	UNITS	**MW116-22 20-22FT**	**RDL**	**QC Batch**	**MW116-22 20-22FT Lab-Dup**	**RDL**	**QC Batch**
Decachlorobiphenyl	%	102		7938861	115		7938861

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 OC PESTICIDES (SOIL)

Bureau Veritas ID		SIB167		
Sampling Date		2022/04/08 13:40		
COC Number		873609-03-01		
	UNITS	**BH118-22 0-1.5FT**	**RDL**	**QC Batch**
Inorganics				
Moisture	%	5.0	1.0	7936787
Calculated Parameters				
Chlordane (Total)	ug/g	<0.0020	0.0020	7935929
o,p-DDD + p,p-DDD	ug/g	<0.0020	0.0020	7935929
o,p-DDE + p,p-DDE	ug/g	<0.0020	0.0020	7935929
o,p-DDT + p,p-DDT	ug/g	<0.0020	0.0020	7935929
Total Endosulfan	ug/g	<0.0020	0.0020	7935929
Pesticides & Herbicides				
Aldrin	ug/g	<0.0020	0.0020	7938861
a-Chlordane	ug/g	<0.0020	0.0020	7938861
g-Chlordane	ug/g	<0.0020	0.0020	7938861
o,p-DDD	ug/g	<0.0020	0.0020	7938861
p,p-DDD	ug/g	<0.0020	0.0020	7938861
o,p-DDE	ug/g	<0.0020	0.0020	7938861
p,p-DDE	ug/g	<0.0020	0.0020	7938861
o,p-DDT	ug/g	<0.0020	0.0020	7938861
p,p-DDT	ug/g	<0.0020	0.0020	7938861
Dieldrin	ug/g	<0.0020	0.0020	7938861
Lindane	ug/g	<0.0020	0.0020	7938861
Endosulfan I (alpha)	ug/g	<0.0020	0.0020	7938861
Endosulfan II (beta)	ug/g	<0.0020	0.0020	7938861
Endrin	ug/g	<0.0020	0.0020	7938861
Heptachlor	ug/g	<0.0020	0.0020	7938861
Heptachlor epoxide	ug/g	<0.0020	0.0020	7938861
Hexachlorobenzene	ug/g	<0.0020	0.0020	7938861
Hexachlorobutadiene	ug/g	<0.0020	0.0020	7938861
Hexachloroethane	ug/g	<0.0020	0.0020	7938861
Methoxychlor	ug/g	<0.0050	0.0050	7938861
Surrogate Recovery (%)				
2,4,5,6-Tetrachloro-m-xylene	%	81		7938861
Decachlorobiphenyl	%	80		7938861

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PAHS (SOIL)

Bureau Veritas ID		SIB185			SIB188			SIB192		
Sampling Date		2022/04/08 15:15			2022/04/08 12:10			2022/04/08 13:00		
COC Number		873609-04-01			873609-04-01			873609-04-01		
	UNITS	**BH121-22 2.5-4.5**	**RDL**	**QC Batch**	**SS101-22 0-0.5FT**	**RDL**	**QC Batch**	**SS105-22 0-0.5FT**	**RDL**	**QC Batch**
Inorganics										
Moisture	%				26	1.0	7936787	9.4	1.0	7936787
Calculated Parameters										
Methylnaphthalene, 2-(1-)	ug/g	<0.0071	0.0071	7935285	<0.0071	0.0071	7935285	<0.071	0.071	7935285
Polyaromatic Hydrocarbons										
Acenaphthene	ug/g	<0.0050	0.0050	7944000	<0.0050	0.0050	7945369	<0.050	0.050	7944000
Acenaphthylene	ug/g	<0.0050	0.0050	7944000	<0.0050	0.0050	7945369	<0.050	0.050	7944000
Anthracene	ug/g	<0.0050	0.0050	7944000	<0.0050	0.0050	7945369	<0.050	0.050	7944000
Benzo(a)anthracene	ug/g	0.025	0.0050	7944000	0.0059	0.0050	7945369	0.065	0.050	7944000
Benzo(a)pyrene	ug/g	0.030	0.0050	7944000	0.0076	0.0050	7945369	0.14	0.050	7944000
Benzo(b/j)fluoranthene	ug/g	0.045	0.0050	7944000	0.013	0.0050	7945369	0.17	0.050	7944000
Benzo(g,h,i)perylene	ug/g	0.025	0.0050	7944000	0.0085	0.0050	7945369	0.31	0.050	7944000
Benzo(k)fluoranthene	ug/g	0.015	0.0050	7944000	<0.0050	0.0050	7945369	<0.050	0.050	7944000
Chrysene	ug/g	0.028	0.0050	7944000	0.0066	0.0050	7945369	0.11	0.050	7944000
Dibenzo(a,h)anthracene	ug/g	<0.0050	0.0050	7944000	<0.0050	0.0050	7945369	<0.050	0.050	7944000
Fluoranthene	ug/g	0.063	0.0050	7944000	0.016	0.0050	7945369	0.13	0.050	7944000
Fluorene	ug/g	<0.0050	0.0050	7944000	<0.0050	0.0050	7945369	<0.050	0.050	7944000
Indeno(1,2,3-cd)pyrene	ug/g	0.022	0.0050	7944000	0.0069	0.0050	7945369	0.10	0.050	7944000
1-Methylnaphthalene	ug/g	<0.0050	0.0050	7944000	<0.0050	0.0050	7945369	<0.050	0.050	7944000
2-Methylnaphthalene	ug/g	<0.0050	0.0050	7944000	<0.0050	0.0050	7945369	<0.050	0.050	7944000
Naphthalene	ug/g	<0.0050	0.0050	7944000	<0.0050	0.0050	7945369	<0.050	0.050	7944000
Phenanthrene	ug/g	0.028	0.0050	7944000	<0.0050	0.0050	7945369	<0.050	0.050	7944000
Pyrene	ug/g	0.054	0.0050	7944000	0.015	0.0050	7945369	0.22	0.050	7944000
Surrogate Recovery (%)										
D10-Anthracene	%	90		7944000	98		7945369	107		7944000
D14-Terphenyl (FS)	%	91		7944000	132 (1)		7945369	91		7944000
D8-Acenaphthylene	%	84		7944000	86		7945369	87		7944000

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Surrogate recovery was above the upper control limit. This may represent a high bias in some results.

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O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SIB153			SIB156		SIB160		
Sampling Date		2022/04/08 10:30			2022/04/08 10:45		2022/04/08 11:20		
COC Number		873609-01-01			873609-02-01		873609-02-01		
	UNITS	**MW116-22 0-2FT**	**RDL**	**QC Batch**	**MW116-22 5-7FT**	**QC Batch**	**MW116-22 15-17FT**	**RDL**	**QC Batch**
Inorganics									
Moisture	%				12	7965504	13	1.0	7936787
BTEX & F1 Hydrocarbons									
Benzene	ug/g	<0.020	0.020	7965977	<0.020	7965977	<0.020	0.020	7944244
Toluene	ug/g	<0.020	0.020	7965977	<0.020	7965977	<0.020	0.020	7944244
Ethylbenzene	ug/g	<0.020	0.020	7965977	<0.020	7965977	<0.020	0.020	7944244
o-Xylene	ug/g	<0.020	0.020	7965977	<0.020	7965977	<0.020	0.020	7944244
p+m-Xylene	ug/g	<0.040	0.040	7965977	<0.040	7965977	<0.040	0.040	7944244
Total Xylenes	ug/g	<0.040	0.040	7965977	<0.040	7965977	<0.040	0.040	7944244
F1 (C6-C10)	ug/g	<10	10	7965977	<10	7965977	<10	10	7944244
F1 (C6-C10) - BTEX	ug/g	<10	10	7965977	<10	7965977	<10	10	7944244
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7966170	<10	7966170	<10	10	7944979
F3 (C16-C34 Hydrocarbons)	ug/g	550	50	7966170	<50	7966170	67	50	7944979
F4 (C34-C50 Hydrocarbons)	ug/g	1400	50	7966170	<50	7966170	<50	50	7944979
Reached Baseline at C50	ug/g	No		7966170	Yes	7966170	Yes		7944979
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	96		7965977	96	7965977	102		7944244
4-Bromofluorobenzene	%	99		7965977	99	7965977	94		7944244
D10-o-Xylene	%	96		7965977	100	7965977	108		7944244
D4-1,2-Dichloroethane	%	101		7965977	98	7965977	107		7944244
o-Terphenyl	%	67		7966170	78	7966170	91		7944979

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SIB160			SIB164			SIB164		
Sampling Date		2022/04/08 11:20			2022/04/08 13:22			2022/04/08 13:22		
COC Number		873609-02-01			873609-02-01			873609-02-01		
	UNITS	**MW116-22 15-17FT Lab-Dup**	**RDL**	**QC Batch**	**BH1117-22 0-1.5FT**	**RDL**	**QC Batch**	**BH1117-22 0-1.5FT Lab-Dup**	**RDL**	**QC Batch**
Inorganics										
Moisture	%				17	1.0	7936787			
BTEX & F1 Hydrocarbons										
Benzene	ug/g	<0.020	0.020	7944244	<0.020	0.020	7946357	<0.020	0.020	7946357
Toluene	ug/g	<0.020	0.020	7944244	<0.020	0.020	7946357	<0.020	0.020	7946357
Ethylbenzene	ug/g	<0.020	0.020	7944244	<0.020	0.020	7946357	<0.020	0.020	7946357
o-Xylene	ug/g	<0.020	0.020	7944244	<0.020	0.020	7946357	<0.020	0.020	7946357
p+m-Xylene	ug/g	<0.040	0.040	7944244	<0.040	0.040	7946357	<0.040	0.040	7946357
Total Xylenes	ug/g	<0.040	0.040	7944244	<0.040	0.040	7946357	<0.040	0.040	7946357
F1 (C6-C10)	ug/g	<10	10	7944244	<10	10	7946357	<10	10	7946357
F1 (C6-C10) - BTEX	ug/g	<10	10	7944244	<10	10	7946357	<10	10	7946357
F2-F4 Hydrocarbons										
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7944979	<10	10	7944979			
F3 (C16-C34 Hydrocarbons)	ug/g	60	50	7944979	390	50	7944979			
F4 (C34-C50 Hydrocarbons)	ug/g	<50	50	7944979	1000	50	7944979			
Reached Baseline at C50	ug/g	Yes		7944979	No		7944979			
Surrogate Recovery (%)										
1,4-Difluorobenzene	%	101		7944244	101		7946357	103		7946357
4-Bromofluorobenzene	%	95		7944244	95		7946357	96		7946357
D10-o-Xylene	%	109		7944244	109		7946357	111		7946357
D4-1,2-Dichloroethane	%	107		7944244	109		7946357	107		7946357
o-Terphenyl	%	96		7944979	100		7944979			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SIB165		SIB166		SIB169		
Sampling Date		2022/04/08 13:20		2022/04/08 13:25		2022/04/08 14:20		
COC Number		873609-03-01		873609-03-01		873609-03-01		
	UNITS	**BH117-22 0-1.5FT**	**QC Batch**	**BH117-22 2.5-4.5FT**	**QC Batch**	**BH119-22 0-1.5FT**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	18	7936787	12	7957110	7.4	1.0	7936787
BTEX & F1 Hydrocarbons								
Benzene	ug/g	<0.020	7944244	<0.020	7958931	<0.020	0.020	7944244
Toluene	ug/g	<0.020	7944244	<0.020	7958931	<0.020	0.020	7944244
Ethylbenzene	ug/g	<0.020	7944244	<0.020	7958931	<0.020	0.020	7944244
o-Xylene	ug/g	<0.020	7944244	<0.020	7958931	<0.020	0.020	7944244
p+m-Xylene	ug/g	<0.040	7944244	<0.040	7958931	<0.040	0.040	7944244
Total Xylenes	ug/g	<0.040	7944244	<0.040	7958931	<0.040	0.040	7944244
F1 (C6-C10)	ug/g	<10	7944244	<10	7958931	<10	10	7944244
F1 (C6-C10) - BTEX	ug/g	<10	7944244	<10	7958931	<10	10	7944244
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	7944979	<10	7959045	<10	10	7944979
F3 (C16-C34 Hydrocarbons)	ug/g	350	7944979	<50	7959045	480	50	7944979
F4 (C34-C50 Hydrocarbons)	ug/g	890	7944979	<50	7959045	1300	50	7944979
Reached Baseline at C50	ug/g	No	7944979	Yes	7959045	No		7944979
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	102	7944244	98	7958931	101		7944244
4-Bromofluorobenzene	%	98	7944244	95	7958931	97		7944244
D10-o-Xylene	%	113	7944244	99	7958931	103		7944244
D4-1,2-Dichloroethane	%	109	7944244	107	7958931	109		7944244
o-Terphenyl	%	101	7944979	95	7959045	78		7944979

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SIB170		SIB172		SIB174		
Sampling Date		2022/04/08 14:25		2022/04/08 14:50		2022/04/08 15:10		
COC Number		873609-03-01		873609-03-01		873609-03-01		
	UNITS	**BH119-22 2.5-4.5FT**	**QC Batch**	**BH120-22 0-2FT**	**QC Batch**	**BH121-22 0-2FT**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	13	7957110	17	7936787	13	1.0	7957110
BTEX & F1 Hydrocarbons								
Benzene	ug/g	<0.020	7958931	<0.020	7944244	<0.020	0.020	7958931
Toluene	ug/g	<0.020	7958931	<0.020	7944244	<0.020	0.020	7958931
Ethylbenzene	ug/g	<0.020	7958931	<0.020	7944244	<0.020	0.020	7958931
o-Xylene	ug/g	<0.020	7958931	<0.020	7944244	<0.020	0.020	7958931
p+m-Xylene	ug/g	<0.040	7958931	<0.040	7944244	<0.040	0.040	7958931
Total Xylenes	ug/g	<0.040	7958931	<0.040	7944244	<0.040	0.040	7958931
F1 (C6-C10)	ug/g	<10	7958931	<10	7944244	<10	10	7958931
F1 (C6-C10) - BTEX	ug/g	<10	7958931	<10	7944244	<10	10	7958931
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	7959045	<10	7944979	<10	10	7959045
F3 (C16-C34 Hydrocarbons)	ug/g	<50	7959045	<50	7944979	<50	50	7959045
F4 (C34-C50 Hydrocarbons)	ug/g	<50	7959045	<50	7944979	<50	50	7959045
Reached Baseline at C50	ug/g	Yes	7959045	Yes	7944979	Yes		7959045
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	98	7958931	102	7944244	96		7958931
4-Bromofluorobenzene	%	95	7958931	98	7944244	95		7958931
D10-o-Xylene	%	102	7958931	109	7944244	98		7958931
D4-1,2-Dichloroethane	%	106	7958931	110	7944244	107		7958931
o-Terphenyl	%	81	7959045	94	7944979	83		7959045

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SIB185		SIB186		SIB189		
Sampling Date		2022/04/08 15:15		2022/04/08 15:30		2022/04/08 12:20		
COC Number		873609-04-01		873609-04-01		873609-04-01		
	UNITS	**BH121-22 2.5-4.5**	**QC Batch**	**BH121-22 5-7**	**QC Batch**	**SS102-22 0-0.5FT**	**RDL**	**QC Batch**
Inorganics								
Moisture	%	19	7936787	19	7957110	13	1.0	7936787
BTEX & F1 Hydrocarbons								
Benzene	ug/g	<0.020	7944244	<0.020	7958931	<0.020	0.020	7944244
Toluene	ug/g	<0.020	7944244	<0.020	7958931	<0.020	0.020	7944244
Ethylbenzene	ug/g	<0.020	7944244	<0.020	7958931	<0.020	0.020	7944244
o-Xylene	ug/g	<0.020	7944244	<0.020	7958931	<0.020	0.020	7944244
p+m-Xylene	ug/g	<0.040	7944244	<0.040	7958931	<0.040	0.040	7944244
Total Xylenes	ug/g	<0.040	7944244	<0.040	7958931	<0.040	0.040	7944244
F1 (C6-C10)	ug/g	<10	7944244	<10	7958931	<10	10	7944244
F1 (C6-C10) - BTEX	ug/g	<10	7944244	<10	7958931	<10	10	7944244
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	7944979	<10	7959045	<10	10	7944979
F3 (C16-C34 Hydrocarbons)	ug/g	93	7944979	110	7959045	<50	50	7944979
F4 (C34-C50 Hydrocarbons)	ug/g	150	7944979	300	7959045	<50	50	7944979
Reached Baseline at C50	ug/g	Yes	7944979	No	7959045	Yes		7944979
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	102	7944244	97	7958931	102		7944244
4-Bromofluorobenzene	%	100	7944244	95	7958931	98		7944244
D10-o-Xylene	%	109	7944244	103	7958931	106		7944244
D4-1,2-Dichloroethane	%	108	7944244	105	7958931	108		7944244
o-Terphenyl	%	94	7944979	74	7959045	91		7944979

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		SIB190			SIB191	SIB193		
Sampling Date		2022/04/08 12:30			2022/04/08 12:50	2022/04/08 12:55		
COC Number		873609-04-01			873609-04-01	873609-04-01		
	UNITS	**SS103-22 0-0.5FT**	**RDL**	**QC Batch**	**SS104-22 0-0.5FT**	**SS106-22 0-0.5FT**	**RDL**	**QC Batch**
Inorganics								
Moisture	%				34	26	1.0	7936787
BTEX & F1 Hydrocarbons								
Benzene	ug/g	<0.020	0.020	7944244	<0.020	<0.020	0.020	7944244
Toluene	ug/g	<0.020	0.020	7944244	<0.020	<0.020	0.020	7944244
Ethylbenzene	ug/g	<0.020	0.020	7944244	<0.020	<0.020	0.020	7944244
o-Xylene	ug/g	<0.020	0.020	7944244	<0.020	<0.020	0.020	7944244
p+m-Xylene	ug/g	<0.040	0.040	7944244	<0.040	<0.040	0.040	7944244
Total Xylenes	ug/g	<0.040	0.040	7944244	<0.040	<0.040	0.040	7944244
F1 (C6-C10)	ug/g	<10	10	7944244	<10	<10	10	7944244
F1 (C6-C10) - BTEX	ug/g	<10	10	7944244	<10	<10	10	7944244
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	7944979	<10	<10	10	7944979
F3 (C16-C34 Hydrocarbons)	ug/g	3300	50	7944979	100	<50	50	7944979
F4 (C34-C50 Hydrocarbons)	ug/g	1500	50	7944979	78	<50	50	7944979
Reached Baseline at C50	ug/g	No		7944979	Yes	Yes		7944979
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	102		7944244	101	102		7944244
4-Bromofluorobenzene	%	100		7944244	98	100		7944244
D10-o-Xylene	%	112		7944244	116	117		7944244
D4-1,2-Dichloroethane	%	105		7944244	105	106		7944244
o-Terphenyl	%	101		7944979	94	96		7944979

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		SIB160		SIB190			SIB190		
Sampling Date		2022/04/08 11:20		2022/04/08 12:30			2022/04/08 12:30		
COC Number		873609-02-01		873609-04-01			873609-04-01		
	UNITS	**MW116-22 15-17FT**	**QC Batch**	**SS103-22 0-0.5FT**	**RDL**	**QC Batch**	**SS103-22 0-0.5FT Lab-Dup**	**RDL**	**QC Batch**
Inorganics									
Moisture	%			22	1.0	7936787	23	1.0	7936787
Available (CaCl2) pH	pH	7.87	7978079	7.13		7978079	7.14		7978079
WAD Cyanide (Free)	ug/g			<0.01	0.01	7944042			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		SIB153		SIB164	SIB165	SIB165		
Sampling Date		2022/04/08 10:30		2022/04/08 13:22	2022/04/08 13:20	2022/04/08 13:20		
COC Number		873609-01-01		873609-02-01	873609-03-01	873609-03-01		
	UNITS	**MW116-22 0-2FT**	**QC Batch**	**BH1117-22 0-1.5FT**	**BH117-22 0-1.5FT**	**BH117-22 0-1.5FT Lab-Dup**	**RDL**	**QC Batch**
F2-F4 Hydrocarbons								
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	5000	7969992	3300	2600	2600	100	7948430

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		SIB169		SIB186		SIB190		
Sampling Date		2022/04/08 14:20		2022/04/08 15:30		2022/04/08 12:30		
COC Number		873609-03-01		873609-04-01		873609-04-01		
	UNITS	**BH119-22 0-1.5FT**	**QC Batch**	**BH121-22 5-7**	**QC Batch**	**SS103-22 0-0.5FT**	**RDL**	**QC Batch**
F2-F4 Hydrocarbons								
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	5800	7948430	1900	7961419	4900	100	7948430

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: SIB145 **Collected:** 2022/04/08
Sample ID: BH107-22 0-1FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7938861	2022/04/13	2022/04/14	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SIB151 **Collected:** 2022/04/08
Sample ID: BH110-22 0-1FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7938861	2022/04/13	2022/04/14	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SIB153 **Collected:** 2022/04/08
Sample ID: MW116-22 0-2FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7965977	N/A	2022/04/29	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7966170	2022/04/28	2022/04/29	Austin (Guochen) Zhang
F4G (CCME Hydrocarbons Gravimetric)	BAL	7969992	2022/05/02	2022/05/02	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7949374	2022/04/20	2022/04/21	Daniel Teclu
Moisture	BAL	7944459	N/A	2022/04/18	Muhammad Chhaidan
OC Pesticides (Selected) & PCB	GC/ECD	7949569	2022/04/20	2022/04/21	Li Peng
OC Pesticides Summed Parameters	CALC	7944396	N/A	2022/04/18	Automated Statchk

Bureau Veritas ID: SIB156 **Collected:** 2022/04/08
Sample ID: MW116-22 5-7FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7965977	N/A	2022/04/28	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7966170	2022/04/28	2022/04/29	Austin (Guochen) Zhang
Moisture	BAL	7965504	N/A	2022/04/28	Abhijot Kaur

Bureau Veritas ID: SIB160 **Collected:** 2022/04/08
Sample ID: MW116-22 15-17FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel

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TEST SUMMARY

Bureau Veritas ID: SIB160 **Collected:** 2022/04/08
Sample ID: MW116-22 15-17FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH CaCl2 EXTRACT	AT	7978079	2022/05/05	2022/05/05	Taslima Aktar

Bureau Veritas ID: SIB160 Dup **Collected:** 2022/04/08
Sample ID: MW116-22 15-17FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova

Bureau Veritas ID: SIB162 **Collected:** 2022/04/08
Sample ID: MW116-22 20-22FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7946551	2022/04/19	2022/04/20	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7938861	2022/04/13	2022/04/14	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SIB162 Dup **Collected:** 2022/04/08
Sample ID: MW116-22 20-22FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides (Selected) & PCB	GC/ECD	7938861	2022/04/13	2022/04/14	Li Peng

Bureau Veritas ID: SIB164 **Collected:** 2022/04/08
Sample ID: BH1117-22 0-1.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7946357	N/A	2022/04/19	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
F4G (CCME Hydrocarbons Gravimetric)	BAL	7948430	2022/04/20	2022/04/20	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7946551	2022/04/19	2022/04/20	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel

Bureau Veritas ID: SIB164 Dup **Collected:** 2022/04/08
Sample ID: BH1117-22 0-1.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7946357	N/A	2022/04/19	Lincoln Ramdahin

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TEST SUMMARY

Bureau Veritas ID: SIB165 **Collected:** 2022/04/08
Sample ID: BH117-22 0-1.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
F4G (CCME Hydrocarbons Gravimetric)	BAL	7948430	2022/04/20	2022/04/20	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel

Bureau Veritas ID: SIB165 Dup **Collected:** 2022/04/08
Sample ID: BH117-22 0-1.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
F4G (CCME Hydrocarbons Gravimetric)	BAL	7948430	2022/04/20	2022/04/20	Rashmi Dubey

Bureau Veritas ID: SIB166 **Collected:** 2022/04/08
Sample ID: BH117-22 2.5-4.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7958931	N/A	2022/04/26	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7959045	2022/04/26	2022/04/26	Anna Stuglik-Rolland
Moisture	BAL	7957110	N/A	2022/04/25	Mathew Bowles

Bureau Veritas ID: SIB167 **Collected:** 2022/04/08
Sample ID: BH118-22 0-1.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel
OC Pesticides (Selected) & PCB	GC/ECD	7938861	2022/04/13	2022/04/14	Li Peng
OC Pesticides Summed Parameters	CALC	7935929	N/A	2022/04/13	Automated Statchk

Bureau Veritas ID: SIB167 Dup **Collected:** 2022/04/08
Sample ID: BH118-22 0-1.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu

Bureau Veritas ID: SIB169 **Collected:** 2022/04/08
Sample ID: BH119-22 0-1.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova

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TEST SUMMARY

Bureau Veritas ID: SIB169 **Collected:** 2022/04/08
Sample ID: BH119-22 0-1.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
F4G (CCME Hydrocarbons Gravimetric)	BAL	7948430	2022/04/20	2022/04/20	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel

Bureau Veritas ID: SIB170 **Collected:** 2022/04/08
Sample ID: BH119-22 2.5-4.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7958931	N/A	2022/04/26	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7959045	2022/04/26	2022/04/26	Anna Stuglik-Rolland
Moisture	BAL	7957110	N/A	2022/04/25	Mathew Bowles

Bureau Veritas ID: SIB172 **Collected:** 2022/04/08
Sample ID: BH120-22 0-2FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel

Bureau Veritas ID: SIB174 **Collected:** 2022/04/08
Sample ID: BH121-22 0-2FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7958931	N/A	2022/04/26	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7959045	2022/04/26	2022/04/26	Anna Stuglik-Rolland
Moisture	BAL	7957110	N/A	2022/04/25	Mathew Bowles

Bureau Veritas ID: SIB185 **Collected:** 2022/04/08
Sample ID: BH121-22 2.5-4.5 **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7935285	N/A	2022/04/19	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7944000	2022/04/18	2022/04/18	Mitesh Raj

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TEST SUMMARY

Bureau Veritas ID: SIB186 **Collected:** 2022/04/08
Sample ID: BH121-22 5-7 **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7958931	N/A	2022/04/26	Joe Paino
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7959045	2022/04/26	2022/04/26	Anna Stuglik-Rolland
F4G (CCME Hydrocarbons Gravimetric)	BAL	7961419	2022/04/27	2022/04/27	Rashmi Dubey
Moisture	BAL	7957110	N/A	2022/04/25	Mathew Bowles

Bureau Veritas ID: SIB188 **Collected:** 2022/04/08
Sample ID: SS101-22 0-0.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7935285	N/A	2022/04/19	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7945369	2022/04/18	2022/04/19	Mitesh Raj

Bureau Veritas ID: SIB189 **Collected:** 2022/04/08
Sample ID: SS102-22 0-0.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel

Bureau Veritas ID: SIB190 **Collected:** 2022/04/08
Sample ID: SS103-22 0-0.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	7944042	2022/04/18	2022/04/18	Nimarta Singh
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
F4G (CCME Hydrocarbons Gravimetric)	BAL	7948430	2022/04/20	2022/04/20	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7978079	2022/05/05	2022/05/05	Taslima Aktar

Bureau Veritas ID: SIB190 Dup **Collected:** 2022/04/08
Sample ID: SS103-22 0-0.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel
pH CaCl2 EXTRACT	AT	7978079	2022/05/05	2022/05/05	Taslima Aktar

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TEST SUMMARY

Bureau Veritas ID: SIB191 **Collected:** 2022/04/08
Sample ID: SS104-22 0-0.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel

Bureau Veritas ID: SIB192 **Collected:** 2022/04/08
Sample ID: SS105-22 0-0.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	7935285	N/A	2022/04/19	Automated Statchk
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	7944000	2022/04/18	2022/04/18	Mitesh Raj

Bureau Veritas ID: SIB193 **Collected:** 2022/04/08
Sample ID: SS106-22 0-0.5FT **Shipped:**
Matrix: Soil **Received:** 2022/04/08

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	7944244	N/A	2022/04/18	Ravinder Gaidhu
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7944979	2022/04/18	2022/04/19	Ksenia Trofimova
Acid Extractable Metals by ICPMS	ICP/MS	7944622	2022/04/18	2022/04/19	Daniel Teclu
Moisture	BAL	7936787	N/A	2022/04/12	Kruti Jitesh Patel

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.3°C
Package 2	9.3°C

Revised Report [2022/05/05]: pH analysis added to samples SS103-22 0-0.5 and MW116-22 15-17 as per client request.

Revised Report [2022/05/02]: Requested additional analysis for PHC added to samples MW116-22 0-2 and MW116-22 5-7 as per client.

Revised Report [2022/04/27]: Requested additional analysis for PHC added to samples BH117-22 2.5-4.5, BH119-22 2.5-4.5, BH121-22 0-2 and 5-7 as per client.

F1/BTEX and F2-F4 Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Sample SIB153 [MW116-22 0-2FT] : OC Pesticide Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample SIB156 [MW116-22 5-7FT] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample SIB166 [BH117-22 2.5-4.5FT] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.
F2-F4 Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Sample SIB170 [BH119-22 2.5-4.5FT] : F2-F4 Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Sample SIB174 [BH121-22 0-2FT] : One or more of the pre-weighed sample vials in the order had an extra label attached. To determine the original vial weight used in calculating the sample weight, the weight of any extra labels was approximated using the weight of a label similar to the extra label attached.

F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.
F2-F4 Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Sample SIB186 [BH121-22 5-7] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.
F2-F4 Analysis: Analysis was performed past sample holding time. This may increase the variability associated with these results.

Sample SIB192 [SS105-22 0-0.5FT] : PAH Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

PETROLEUM HYDROCARBONS (CCME)

F4G (CCME Hydrocarbons Gravimetric): F4G-: The recovery in the matrix spike was not calculated (NC). Because of the high concentration of this analyte in the parent sample, the relative difference between the spiked and unspiked concentrations is not sufficiently significant to permit a reliable recovery calculation.

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7938861	2,4,5,6-Tetrachloro-m-xylene	2022/04/14	79	50 - 130	83	50 - 130	79	%		
7938861	Decachlorobiphenyl	2022/04/14	108	50 - 130	103	50 - 130	104	%		
7944000	D10-Anthracene	2022/04/18	95	50 - 130	97	50 - 130	98	%		
7944000	D14-Terphenyl (FS)	2022/04/18	98	50 - 130	100	50 - 130	98	%		
7944000	D8-Acenaphthylene	2022/04/18	90	50 - 130	95	50 - 130	90	%		
7944244	1,4-Difluorobenzene	2022/04/18	98	60 - 140	99	60 - 140	102	%		
7944244	4-Bromofluorobenzene	2022/04/18	105	60 - 140	103	60 - 140	96	%		
7944244	D10-o-Xylene	2022/04/18	117	60 - 140	93	60 - 140	105	%		
7944244	D4-1,2-Dichloroethane	2022/04/18	103	60 - 140	101	60 - 140	109	%		
7944979	o-Terphenyl	2022/04/19	98	60 - 130	92	60 - 130	101	%		
7945369	D10-Anthracene	2022/04/18	96	50 - 130	104	50 - 130	99	%		
7945369	D14-Terphenyl (FS)	2022/04/18	112	50 - 130	115	50 - 130	109	%		
7945369	D8-Acenaphthylene	2022/04/18	83	50 - 130	89	50 - 130	88	%		
7946357	1,4-Difluorobenzene	2022/04/19	100	60 - 140	98	60 - 140	103	%		
7946357	4-Bromofluorobenzene	2022/04/19	101	60 - 140	102	60 - 140	96	%		
7946357	D10-o-Xylene	2022/04/19	112	60 - 140	114	60 - 140	108	%		
7946357	D4-1,2-Dichloroethane	2022/04/19	100	60 - 140	99	60 - 140	106	%		
7949569	2,4,5,6-Tetrachloro-m-xylene	2022/04/21	73	50 - 130	75	50 - 130	67	%		
7949569	Decachlorobiphenyl	2022/04/21	106	50 - 130	104	50 - 130	104	%		
7958931	1,4-Difluorobenzene	2022/04/26	97	60 - 140	98	60 - 140	96	%		
7958931	4-Bromofluorobenzene	2022/04/26	96	60 - 140	96	60 - 140	95	%		
7958931	D10-o-Xylene	2022/04/26	101	60 - 140	102	60 - 140	100	%		
7958931	D4-1,2-Dichloroethane	2022/04/26	107	60 - 140	105	60 - 140	108	%		
7959045	o-Terphenyl	2022/04/26	94	60 - 130	93	60 - 130	96	%		
7965977	1,4-Difluorobenzene	2022/04/28	96	60 - 140	95	60 - 140	96	%		
7965977	4-Bromofluorobenzene	2022/04/28	100	60 - 140	100	60 - 140	101	%		
7965977	D10-o-Xylene	2022/04/28	110	60 - 140	95	60 - 140	97	%		
7965977	D4-1,2-Dichloroethane	2022/04/28	97	60 - 140	99	60 - 140	100	%		
7966170	o-Terphenyl	2022/04/29	72	60 - 130	86	60 - 130	90	%		
7936787	Moisture	2022/04/12							3.9	20
7938861	a-Chlordane	2022/04/14	107	50 - 130	100	50 - 130	<0.0020	ug/g	NC	40

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7938861	Aldrin	2022/04/14	113	50 - 130	109	50 - 130	<0.0020	ug/g	NC	40
7938861	Dieldrin	2022/04/14	124	50 - 130	125	50 - 130	<0.0020	ug/g	NC	40
7938861	Endosulfan I (alpha)	2022/04/14	102	50 - 130	101	50 - 130	<0.0020	ug/g	NC	40
7938861	Endosulfan II (beta)	2022/04/14	107	50 - 130	108	50 - 130	<0.0020	ug/g	NC	40
7938861	Endrin	2022/04/14	114	50 - 130	115	50 - 130	<0.0020	ug/g	NC	40
7938861	g-Chlordane	2022/04/14	107	50 - 130	101	50 - 130	<0.0020	ug/g	NC	40
7938861	Heptachlor epoxide	2022/04/14	106	50 - 130	102	50 - 130	<0.0020	ug/g	NC	40
7938861	Heptachlor	2022/04/14	87	50 - 130	83	50 - 130	<0.0020	ug/g	NC	40
7938861	Hexachlorobenzene	2022/04/14	86	50 - 130	88	50 - 130	<0.0020	ug/g	NC	40
7938861	Hexachlorobutadiene	2022/04/14	98	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40
7938861	Hexachloroethane	2022/04/14	70	50 - 130	80	50 - 130	<0.0020	ug/g	NC	40
7938861	Lindane	2022/04/14	99	50 - 130	96	50 - 130	<0.0020	ug/g	NC	40
7938861	Methoxychlor	2022/04/14	129	50 - 130	126	50 - 130	<0.0050	ug/g	NC	40
7938861	o,p-DDD	2022/04/14	120	50 - 130	119	50 - 130	<0.0020	ug/g	NC	40
7938861	o,p-DDE	2022/04/14	93	50 - 130	88	50 - 130	<0.0020	ug/g	NC	40
7938861	o,p-DDT	2022/04/14	103	50 - 130	100	50 - 130	<0.0020	ug/g	NC	40
7938861	p,p-DDD	2022/04/14	119	50 - 130	117	50 - 130	<0.0020	ug/g	NC	40
7938861	p,p-DDE	2022/04/14	102	50 - 130	104	50 - 130	<0.0020	ug/g	NC	40
7938861	p,p-DDT	2022/04/14	116	50 - 130	111	50 - 130	<0.0020	ug/g	NC	40
7944000	1-Methylnaphthalene	2022/04/18	98	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7944000	2-Methylnaphthalene	2022/04/18	93	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
7944000	Acenaphthene	2022/04/18	97	50 - 130	97	50 - 130	<0.0050	ug/g	NC	40
7944000	Acenaphthylene	2022/04/18	94	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7944000	Anthracene	2022/04/18	98	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(a)anthracene	2022/04/18	106	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(a)pyrene	2022/04/18	87	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(b/j)fluoranthene	2022/04/18	96	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(g,h,i)perylene	2022/04/18	95	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
7944000	Benzo(k)fluoranthene	2022/04/18	100	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
7944000	Chrysene	2022/04/18	101	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
7944000	Dibenzo(a,h)anthracene	2022/04/18	93	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7944000	Fluoranthene	2022/04/18	104	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
7944000	Fluorene	2022/04/18	96	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
7944000	Indeno(1,2,3-cd)pyrene	2022/04/18	91	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
7944000	Naphthalene	2022/04/18	87	50 - 130	91	50 - 130	<0.0050	ug/g	NC	40
7944000	Phenanthrene	2022/04/18	97	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7944000	Pyrene	2022/04/18	107	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
7944042	WAD Cyanide (Free)	2022/04/18	89	75 - 125	92	80 - 120	<0.01	ug/g	NC	35
7944244	Benzene	2022/04/18	108	50 - 140	109	50 - 140	<0.020	ug/g	NC	50
7944244	Ethylbenzene	2022/04/18	123	50 - 140	103	50 - 140	<0.020	ug/g	NC	50
7944244	F1 (C6-C10) - BTEX	2022/04/18					<10	ug/g	NC	30
7944244	F1 (C6-C10)	2022/04/18	88	60 - 140	88	80 - 120	<10	ug/g	NC	30
7944244	o-Xylene	2022/04/18	118	50 - 140	112	50 - 140	<0.020	ug/g	NC	50
7944244	p+m-Xylene	2022/04/18	115	50 - 140	111	50 - 140	<0.040	ug/g	NC	50
7944244	Toluene	2022/04/18	102	50 - 140	100	50 - 140	<0.020	ug/g	NC	50
7944244	Total Xylenes	2022/04/18					<0.040	ug/g	NC	50
7944459	Moisture	2022/04/18							3.7	20
7944622	Acid Extractable Antimony (Sb)	2022/04/19	100	75 - 125	105	80 - 120	<0.20	ug/g	NC	30
7944622	Acid Extractable Arsenic (As)	2022/04/19	98	75 - 125	100	80 - 120	<1.0	ug/g	6.8	30
7944622	Acid Extractable Barium (Ba)	2022/04/19	NC	75 - 125	99	80 - 120	<0.50	ug/g	0.72	30
7944622	Acid Extractable Beryllium (Be)	2022/04/19	102	75 - 125	103	80 - 120	<0.20	ug/g	1.1	30
7944622	Acid Extractable Boron (B)	2022/04/19	96	75 - 125	92	80 - 120	<5.0	ug/g	NC	30
7944622	Acid Extractable Cadmium (Cd)	2022/04/19	101	75 - 125	103	80 - 120	<0.10	ug/g	NC	30
7944622	Acid Extractable Chromium (Cr)	2022/04/19	104	75 - 125	105	80 - 120	<1.0	ug/g	7.8	30
7944622	Acid Extractable Cobalt (Co)	2022/04/19	102	75 - 125	106	80 - 120	<0.10	ug/g	5.1	30
7944622	Acid Extractable Copper (Cu)	2022/04/19	94	75 - 125	100	80 - 120	<0.50	ug/g	1.5	30
7944622	Acid Extractable Lead (Pb)	2022/04/19	97	75 - 125	104	80 - 120	<1.0	ug/g	3.3	30
7944622	Acid Extractable Molybdenum (Mo)	2022/04/19	105	75 - 125	103	80 - 120	<0.50	ug/g	15	30
7944622	Acid Extractable Nickel (Ni)	2022/04/19	99	75 - 125	105	80 - 120	<0.50	ug/g	2.7	30
7944622	Acid Extractable Selenium (Se)	2022/04/19	103	75 - 125	103	80 - 120	<0.50	ug/g	NC	30
7944622	Acid Extractable Silver (Ag)	2022/04/19	103	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
7944622	Acid Extractable Thallium (Tl)	2022/04/19	104	75 - 125	106	80 - 120	<0.050	ug/g	1.0	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7944622	Acid Extractable Uranium (U)	2022/04/19	102	75 - 125	101	80 - 120	<0.050	ug/g	0.061	30
7944622	Acid Extractable Vanadium (V)	2022/04/19	95	75 - 125	103	80 - 120	<5.0	ug/g	16	30
7944622	Acid Extractable Zinc (Zn)	2022/04/19	NC	75 - 125	105	80 - 120	<5.0	ug/g	0.19	30
7944979	F2 (C10-C16 Hydrocarbons)	2022/04/19	101	60 - 130	93	80 - 120	<10	ug/g	NC	30
7944979	F3 (C16-C34 Hydrocarbons)	2022/04/19	106	60 - 130	99	80 - 120	<50	ug/g	11	30
7944979	F4 (C34-C50 Hydrocarbons)	2022/04/19	110	60 - 130	102	80 - 120	<50	ug/g	NC	30
7945369	1-Methylnaphthalene	2022/04/19	NC	50 - 130	106	50 - 130	<0.0050	ug/g	23	40
7945369	2-Methylnaphthalene	2022/04/19	NC	50 - 130	105	50 - 130	<0.0050	ug/g	22	40
7945369	Acenaphthene	2022/04/19	101	50 - 130	97	50 - 130	<0.0050	ug/g	19	40
7945369	Acenaphthylene	2022/04/19	93	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40
7945369	Anthracene	2022/04/19	117	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
7945369	Benzo(a)anthracene	2022/04/19	87	50 - 130	108	50 - 130	<0.0050	ug/g	11	40
7945369	Benzo(a)pyrene	2022/04/19	90	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40
7945369	Benzo(b/j)fluoranthene	2022/04/19	97	50 - 130	101	50 - 130	<0.0050	ug/g	24	40
7945369	Benzo(g,h,i)perylene	2022/04/19	100	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
7945369	Benzo(k)fluoranthene	2022/04/19	105	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
7945369	Chrysene	2022/04/19	110	50 - 130	105	50 - 130	<0.0050	ug/g	20	40
7945369	Dibenzo(a,h)anthracene	2022/04/19	89	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
7945369	Fluoranthene	2022/04/19	163 (1)	50 - 130	112	50 - 130	<0.0050	ug/g	22	40
7945369	Fluorene	2022/04/19	111	50 - 130	101	50 - 130	<0.0050	ug/g	18	40
7945369	Indeno(1,2,3-cd)pyrene	2022/04/19	98	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
7945369	Naphthalene	2022/04/19	NC	50 - 130	96	50 - 130	<0.0050	ug/g	22	40
7945369	Phenanthrene	2022/04/19	NC	50 - 130	102	50 - 130	<0.0050	ug/g	20	40
7945369	Pyrene	2022/04/19	144 (1)	50 - 130	112	50 - 130	<0.0050	ug/g	21	40
7946357	Benzene	2022/04/19	107	50 - 140	107	50 - 140	<0.020	ug/g	NC	50
7946357	Ethylbenzene	2022/04/19	121	50 - 140	118	50 - 140	<0.020	ug/g	NC	50
7946357	F1 (C6-C10) - BTEX	2022/04/19					<10	ug/g	NC	30
7946357	F1 (C6-C10)	2022/04/19	88	60 - 140	89	80 - 120	<10	ug/g	NC	30
7946357	o-Xylene	2022/04/19	115	50 - 140	111	50 - 140	<0.020	ug/g	NC	50
7946357	p+m-Xylene	2022/04/19	114	50 - 140	110	50 - 140	<0.040	ug/g	NC	50
7946357	Toluene	2022/04/19	102	50 - 140	100	50 - 140	<0.020	ug/g	NC	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7946357	Total Xylenes	2022/04/19					<0.040	ug/g	NC	50
7946551	Acid Extractable Antimony (Sb)	2022/04/20	95	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
7946551	Acid Extractable Arsenic (As)	2022/04/20	105	75 - 125	101	80 - 120	<1.0	ug/g	4.1	30
7946551	Acid Extractable Barium (Ba)	2022/04/20	NC	75 - 125	105	80 - 120	<0.50	ug/g	2.0	30
7946551	Acid Extractable Beryllium (Be)	2022/04/20	104	75 - 125	102	80 - 120	<0.20	ug/g	1.7	30
7946551	Acid Extractable Boron (B)	2022/04/20	96	75 - 125	99	80 - 120	<5.0	ug/g	4.6	30
7946551	Acid Extractable Cadmium (Cd)	2022/04/20	101	75 - 125	100	80 - 120	<0.10	ug/g	14	30
7946551	Acid Extractable Chromium (Cr)	2022/04/20	104	75 - 125	100	80 - 120	<1.0	ug/g	5.2	30
7946551	Acid Extractable Cobalt (Co)	2022/04/20	103	75 - 125	100	80 - 120	<0.10	ug/g	3.1	30
7946551	Acid Extractable Copper (Cu)	2022/04/20	99	75 - 125	102	80 - 120	<0.50	ug/g	2.4	30
7946551	Acid Extractable Lead (Pb)	2022/04/20	100	75 - 125	101	80 - 120	<1.0	ug/g	1.8	30
7946551	Acid Extractable Molybdenum (Mo)	2022/04/20	99	75 - 125	102	80 - 120	<0.50	ug/g	1.9	30
7946551	Acid Extractable Nickel (Ni)	2022/04/20	104	75 - 125	99	80 - 120	<0.50	ug/g	0.15	30
7946551	Acid Extractable Selenium (Se)	2022/04/20	99	75 - 125	100	80 - 120	<0.50	ug/g	NC	30
7946551	Acid Extractable Silver (Ag)	2022/04/20	103	75 - 125	104	80 - 120	<0.20	ug/g	NC	30
7946551	Acid Extractable Thallium (Tl)	2022/04/20	101	75 - 125	102	80 - 120	<0.050	ug/g	2.2	30
7946551	Acid Extractable Uranium (U)	2022/04/20	102	75 - 125	102	80 - 120	<0.050	ug/g	4.6	30
7946551	Acid Extractable Vanadium (V)	2022/04/20	NC	75 - 125	101	80 - 120	<5.0	ug/g	2.4	30
7946551	Acid Extractable Zinc (Zn)	2022/04/20	NC	75 - 125	96	80 - 120	<5.0	ug/g	1.1	30
7948430	F4G-sg (Grav. Heavy Hydrocarbons)	2022/04/20	NC	65 - 135	101	65 - 135	<100	ug/g	0	50
7949374	Acid Extractable Antimony (Sb)	2022/04/21	89	75 - 125	106	80 - 120	<0.20	ug/g	6.4	30
7949374	Acid Extractable Arsenic (As)	2022/04/21	103	75 - 125	109	80 - 120	<1.0	ug/g	7.1	30
7949374	Acid Extractable Barium (Ba)	2022/04/21	NC	75 - 125	106	80 - 120	<0.50	ug/g	2.9	30
7949374	Acid Extractable Beryllium (Be)	2022/04/21	101	75 - 125	102	80 - 120	<0.20	ug/g	2.1	30
7949374	Acid Extractable Boron (B)	2022/04/21	99	75 - 125	104	80 - 120	<5.0	ug/g	NC	30
7949374	Acid Extractable Cadmium (Cd)	2022/04/21	99	75 - 125	104	80 - 120	<0.10	ug/g	13	30
7949374	Acid Extractable Chromium (Cr)	2022/04/21	NC	75 - 125	104	80 - 120	<1.0	ug/g	6.3	30
7949374	Acid Extractable Cobalt (Co)	2022/04/21	101	75 - 125	102	80 - 120	<0.10	ug/g	1.9	30
7949374	Acid Extractable Copper (Cu)	2022/04/21	NC	75 - 125	107	80 - 120	<0.50	ug/g	1.5	30
7949374	Acid Extractable Lead (Pb)	2022/04/21	98	75 - 125	104	80 - 120	<1.0	ug/g	8.6	30
7949374	Acid Extractable Molybdenum (Mo)	2022/04/21	98	75 - 125	102	80 - 120	<0.50	ug/g	24	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7949374	Acid Extractable Nickel (Ni)	2022/04/21	NC	75 - 125	104	80 - 120	<0.50	ug/g	4.1	30
7949374	Acid Extractable Selenium (Se)	2022/04/21	98	75 - 125	102	80 - 120	<0.50	ug/g	NC	30
7949374	Acid Extractable Silver (Ag)	2022/04/21	100	75 - 125	105	80 - 120	<0.20	ug/g	NC	30
7949374	Acid Extractable Thallium (Tl)	2022/04/21	100	75 - 125	104	80 - 120	<0.050	ug/g	18	30
7949374	Acid Extractable Uranium (U)	2022/04/21	103	75 - 125	104	80 - 120	<0.050	ug/g	2.1	30
7949374	Acid Extractable Vanadium (V)	2022/04/21	NC	75 - 125	106	80 - 120	<5.0	ug/g	3.0	30
7949374	Acid Extractable Zinc (Zn)	2022/04/21	NC	75 - 125	107	80 - 120	<5.0	ug/g	1.4	30
7949569	a-Chlordane	2022/04/21	77	50 - 130	83	50 - 130	<0.0020	ug/g	NC	40
7949569	Aldrin	2022/04/21	98	50 - 130	104	50 - 130	<0.0020	ug/g	NC	40
7949569	Dieldrin	2022/04/21	93	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40
7949569	Endosulfan I (alpha)	2022/04/21	82	50 - 130	79	50 - 130	<0.0020	ug/g	NC	40
7949569	Endosulfan II (beta)	2022/04/21	89	50 - 130	95	50 - 130	<0.0020	ug/g	NC	40
7949569	Endrin	2022/04/21	92	50 - 130	94	50 - 130	<0.0020	ug/g	NC	40
7949569	g-Chlordane	2022/04/21	78	50 - 130	84	50 - 130	<0.0020	ug/g	NC	40
7949569	Heptachlor epoxide	2022/04/21	77	50 - 130	82	50 - 130	<0.0020	ug/g	NC	40
7949569	Heptachlor	2022/04/21	70	50 - 130	74	50 - 130	<0.0020	ug/g	NC	40
7949569	Hexachlorobenzene	2022/04/21	81	50 - 130	80	50 - 130	<0.0020	ug/g	NC	40
7949569	Hexachlorobutadiene	2022/04/21	55	50 - 130	90	50 - 130	<0.0020	ug/g	NC	40
7949569	Hexachloroethane	2022/04/21	51	50 - 130	68	50 - 130	<0.0020	ug/g	NC	40
7949569	Lindane	2022/04/21	73	50 - 130	77	50 - 130	<0.0020	ug/g	NC	40
7949569	Methoxychlor	2022/04/21	99	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
7949569	o,p-DDD	2022/04/21	87	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40
7949569	o,p-DDE	2022/04/21	76	50 - 130	78	50 - 130	<0.0020	ug/g	NC	40
7949569	o,p-DDT	2022/04/21	81	50 - 130	85	50 - 130	<0.0020	ug/g	NC	40
7949569	p,p-DDD	2022/04/21	86	50 - 130	92	50 - 130	<0.0020	ug/g	NC	40
7949569	p,p-DDE	2022/04/21	98	50 - 130	99	50 - 130	<0.0020	ug/g	NC	40
7949569	p,p-DDT	2022/04/21	86	50 - 130	88	50 - 130	<0.0020	ug/g	NC	40
7957110	Moisture	2022/04/25							0.58	20
7958931	Benzene	2022/04/26	90	50 - 140	91	50 - 140	<0.020	ug/g	NC	50
7958931	Ethylbenzene	2022/04/26	98	50 - 140	98	50 - 140	<0.020	ug/g	NC	50
7958931	F1 (C6-C10) - BTEX	2022/04/26					<10	ug/g	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7958931	F1 (C6-C10)	2022/04/26	86	60 - 140	88	80 - 120	<10	ug/g	NC	30
7958931	o-Xylene	2022/04/26	95	50 - 140	96	50 - 140	<0.020	ug/g	NC	50
7958931	p+m-Xylene	2022/04/26	98	50 - 140	99	50 - 140	<0.040	ug/g	NC	50
7958931	Toluene	2022/04/26	90	50 - 140	91	50 - 140	<0.020	ug/g	NC	50
7958931	Total Xylenes	2022/04/26					<0.040	ug/g	NC	50
7959045	F2 (C10-C16 Hydrocarbons)	2022/04/26	104	60 - 130	98	80 - 120	<10	ug/g	NC	30
7959045	F3 (C16-C34 Hydrocarbons)	2022/04/26	99	60 - 130	94	80 - 120	<50	ug/g	NC	30
7959045	F4 (C34-C50 Hydrocarbons)	2022/04/26	104	60 - 130	99	80 - 120	<50	ug/g	NC	30
7961419	F4G-sg (Grav. Heavy Hydrocarbons)	2022/04/27	88	65 - 135	101	65 - 135	<100	ug/g	11	50
7965504	Moisture	2022/04/28							8.7	20
7965977	Benzene	2022/04/28	106	50 - 140	94	50 - 140	<0.020	ug/g	NC	50
7965977	Ethylbenzene	2022/04/28	120	50 - 140	104	50 - 140	<0.020	ug/g	NC	50
7965977	F1 (C6-C10) - BTEX	2022/04/28					<10	ug/g	NC	30
7965977	F1 (C6-C10)	2022/04/28	91	60 - 140	82	80 - 120	<10	ug/g	NC	30
7965977	o-Xylene	2022/04/28	114	50 - 140	100	50 - 140	<0.020	ug/g	NC	50
7965977	p+m-Xylene	2022/04/28	116	50 - 140	102	50 - 140	<0.040	ug/g	NC	50
7965977	Toluene	2022/04/28	110	50 - 140	96	50 - 140	<0.020	ug/g	NC	50
7965977	Total Xylenes	2022/04/28					<0.040	ug/g	NC	50
7966170	F2 (C10-C16 Hydrocarbons)	2022/04/29	77	60 - 130	89	80 - 120	<10	ug/g	NC	30
7966170	F3 (C16-C34 Hydrocarbons)	2022/04/29	71	60 - 130	83	80 - 120	<50	ug/g	NC	30
7966170	F4 (C34-C50 Hydrocarbons)	2022/04/29	74	60 - 130	86	80 - 120	<50	ug/g	NC	30
7969992	F4G-sg (Grav. Heavy Hydrocarbons)	2022/05/02	NC	65 - 135	101	65 - 135	<100	ug/g	0	50

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7978079	Available (CaCl2) pH	2022/05/05			100	97 - 103			0.14	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Cristina Carriere, Senior Scientific Specialist

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

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CHAIN OF CUSTODY RECORD

Page 1 of 4

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	B90004	Bureau Veritas Job #:	Bottle Order #: 873609
Attention:	Accounts Payable	Attention:	Monique Gyba	P.O. #:			
Address:	520 Bingemans Centre Dr, Kitchener ON N2B 3X9	Address:		Project:	50996-100	COC #: C#873609-01-01	Project Manager: Ronklin Gracian
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Project Name:			
Email:	accounting@mte85.com	Email:	MGyba@mte85.com	Site #:			
				Sampled By:	IXA / RMK		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): Table 1, Table 2, Table 3, Table ___; Res/Park, Ind/Comm, Agri/Other; Medium/Fine, Coarse, For RSC

Other Regulations: CCME, Reg 558, MISA, PWQO, Other; Sanitary Sewer Bylaw, Storm Sewer Bylaw, Municipality ___, Reg 406 Table ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC): Field Filtered (please circle): Metals / Hg / Cr VI; ON HOLD

Turnaround Time (TAT) Required: Please provide advance notice for rush projects

Regular (Standard) TAT: ☑
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	ON HOLD	# of Bottles	Comments
1		BH107-22 0-1ft	April 8th, 2022	13:50	SOIL	✓	1	
2		↓ 2.5-3.5ft	↓	13:55	↓	✓	1	
3		BH108-22 0-1ft	↓	15:15	↓	✓	1	08-Apr-22 17:41
4		↓ 2.5-3.5ft	↓	15:25	↓	✓	1	Ronklin Gracian
5		BH109-22 0-1ft	↓	11:30	↓	✓	1	C294470
6		↓ 2.5-3.5ft	↓	11:40	↓	✓	1	RIM ENV-566
7		BH110-22 0-1ft	↓	10:30	↓	✓	1	
8		↓ 2.5-3.5ft	↓	10:40	↓	✓	1	
9		MW116-22 0-2ft	↓	10:30	↓	✓	3	
10		MW116-22 2.5-4.5	↓	10:42	↓	✓	1	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only
/ IVAN AGUILAR	22/04/08	17:40	[signature]	22/04/08	17:41		Time Sensitive; Temperature (°C) on Recei: 7/3/3 7/9/12; Custody Seal Present: Yes ✓; Intact: Yes ✓

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* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

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CHAIN OF CUSTODY RECORD

Page 1 of 4
2

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	B90004	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Monique Gyba	P.O. #:			873609
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	50996-100	COC #:	Project Manager:
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Project Name:		C#873609-02-01	Ronklin Gracian
Email:	accounting@mte85.com	Email:	MGyba@mte85.com	Site #:			
				Sampled By:	IXA / RMK		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
☐ Table 1 ☐ Res/Park ☐ Medium/Fine
☐ Table 2 ☐ Ind/Comm ☐ Coarse
☐ Table 3 ☐ Agri/Other ☐ For RSC
☐ Table ___

Other Regulations
☐ CCME ☐ Sanitary Sewer Bylaw
☐ Reg 558 ☐ Storm Sewer Bylaw
☐ MISA Municipality ___
☐ PWQO ☐ Reg 406 Table ___
☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☐
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___
(call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	# of Bottles	Comments
1		MW116-22 2.5-4.5 pt	April 8th, 2022	10:40	SOIL	3	
2		5-7 pt		10:45		3	
3		7.5-9.5 pt		10:50		3	
4		10-12 pt		11:00		3	
5		12.5-14.5 pt		11:10		3	
6		15-17 pt		11:20		3	
7		17.5-19.5 pt		11:30		3	
8		20-22 pt		11:40		3	
9		22.5-24.5 pt		11:50		3	
10		BH111722 0-1.5 pt		13:22		3	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
IVAN AGUILAR	22/04/08						Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
									Present		
									Intact		

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	B90004	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Monique Gyba	P.O. #:			873609
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	50996-100	COC #:	Project Manager:
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Project Name:		C#873609-03-01	Ronklin Gracian
Email:	accounting@mte85.com	Email:	MGyba@mte85.com	Site #:			
				Sampled By:	IXA / RMK		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)	Other Regulations	Special Instructions
☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___	☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___	

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

20 HOLD

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☐
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Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___ ☐
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	# of Bottles	Comments
1		BH117-22 0-1.5 pt	April 8th, 2022	13:20	SOIL	3	
2		↓ 2.5-4.5 pt		13:25		3	
3		BH118-22 0-1.5 pt		13:40		3	
4		↓ 2.5-4.5 pt		13:45		3	
5		BH119-22 0-2 pt		14:20		3	
6		↓ 2.5-4.5 pt		14:25		3	
7		BH1120-22 0-2 pt		14:51		1	
8		BH120-22 0-2 pt		14:50		3	
9		BH120-22 2.5-4.5 pt		14:55		3	
10		BH121-22 0-2 pt		15:10		3	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
SEE PAGE 1							Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
									Present		
									Intact		

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Page 1

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	B90004	Bureau Veritas Job #:	Bottle Order
Attention:	Accounts Payable	Attention:	Monique Gyba	P.O. #:			873609
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	50996-100	COC #:	Project Manag
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Project Name:		C#873609-04-01	Ronklin Gracia
Email:	accounting@mte85.com	Email:	MGyba@mte85.com	Site #:			
				Sampled By:	IXA / RMK		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☐ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☐ For RSC
- ☐ Table ___

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558. ☐ Storm Sewer Bylaw
- ☐ MISA Municipality ___
- ☐ PWQO ☐ Reg 406 Table ___
- ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	10 FOLD	# of Bottles	Comments
1		BH121-22 2.5-4.5	April 6th, 2022	15:15	SOIL	✓	3	
2		5-7	↓	15:30	↓	✓	3	
3		7-9	↓	15:35	↓	✓	3	
4								
5								
6								
7								
8								
9								
10								

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT:
(will be applied if Rush TAT is not specified):
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Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans a days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
			Sen Pfl				Time Sensitive	Temperature (°C) on Recei	Custody Seal Present	Yes
									Intact	

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White: Bureau Veritas Yellow:

Bureau Veritas Canada (2019) Inc.

Your Project #: 50996-100
Your C.O.C. #: 874302-01-01

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/28
Report #: R7102911
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2A6668
Received: 2022/04/21, 18:52

Sample Matrix: Water
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
1,3-Dichloropropene Sum	2	N/A	2022/04/26		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Water	4	N/A	2022/04/25	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	5	2022/04/26	2022/04/26	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	4	N/A	2022/04/26	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	2	N/A	2022/04/27	CAM SOP-00447	EPA 6020B m
OC Pesticides (Selected) & PCB (2)	1	2022/04/24	2022/04/25	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides (Selected) & PCB (2)	4	2022/04/24	2022/04/26	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	3	N/A	2022/04/25	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	2	N/A	2022/04/26	CAM SOP-00307	EPA 8081A/8082B m
pH	3	2022/04/23	2022/04/25	CAM SOP-00413	SM 4500H+ B m
pH	2	2022/04/25	2022/04/25	CAM SOP-00413	SM 4500H+ B m
Volatile Organic Compounds and F1 PHCs	2	N/A	2022/04/25	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Your Project #: 50996-100
Your C.O.C. #: 874302-01-01

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/28
Report #: R7102911
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2A6668

Received: 2022/04/21, 18:52

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following “Alberta Environment’s Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003”. Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

(2) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key

Ronklin Gracian
Project Manager
28 Apr 2022 14:50:58

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Job #: C2A6668
Report Date: 2022/04/28

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: AAL

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		SKQ995	SKQ996		SKQ997	SKQ998	SKQ999	
Sampling Date		2022/04/21 14:20	2022/04/21 13:20		2022/04/21 15:25	2022/04/21 15:30	2022/04/21 14:15	
COC Number		874302-01-01	874302-01-01		874302-01-01	874302-01-01	874302-01-01	
	UNITS	**MW116-22**	**MW122-22**	**QC Batch**	**MW123-22**	**MW124-22**	**MW125-22**	**QC Batch**
Inorganics								
pH	pH	7.92	9.98	7957820	7.89	8.77	7.73	7955979
QC Batch = Quality Control Batch								

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PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		SKR001		
Sampling Date		2022/04/21		
COC Number		874302-01-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons				
Benzene	ug/L	<0.20	0.20	7958120
Toluene	ug/L	<0.20	0.20	7958120
Ethylbenzene	ug/L	<0.20	0.20	7958120
o-Xylene	ug/L	<0.20	0.20	7958120
p+m-Xylene	ug/L	<0.40	0.40	7958120
Total Xylenes	ug/L	<0.40	0.40	7958120
F1 (C6-C10)	ug/L	<25	25	7958120
F1 (C6-C10) - BTEX	ug/L	<25	25	7958120
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	104		7958120
4-Bromofluorobenzene	%	98		7958120
D10-o-Xylene	%	105		7958120
D4-1,2-Dichloroethane	%	108		7958120

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (WATER)

Bureau Veritas ID		SKQ995	SKQ996		SKQ997	SKQ998	SKQ999		
Sampling Date		2022/04/21 14:20	2022/04/21 13:20		2022/04/21 15:25	2022/04/21 15:30	2022/04/21 14:15		
COC Number		874302-01-01	874302-01-01		874302-01-01	874302-01-01	874302-01-01		
	UNITS	**MW116-22**	**MW122-22**	**QC Batch**	**MW123-22**	**MW124-22**	**MW125-22**	**RDL**	**QC Batch**
Metals									
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	7959967	<0.50	0.74	<0.50	0.50	7956004
Dissolved Arsenic (As)	ug/L	2.7	<1.0	7959967	5.7	3.1	1.2	1.0	7956004
Dissolved Barium (Ba)	ug/L	110	22	7959967	290	50	150	2.0	7956004
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	7959967	<0.40	<0.40	<0.40	0.40	7956004
Dissolved Boron (B)	ug/L	40	23	7959967	52	59	43	10	7956004
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	7959967	<0.090	<0.090	<0.090	0.090	7956004
Dissolved Chromium (Cr)	ug/L	<5.0	61	7959967	<5.0	19	<5.0	5.0	7956004
Dissolved Cobalt (Co)	ug/L	<0.50	0.61	7959967	<0.50	1.0	0.79	0.50	7956004
Dissolved Copper (Cu)	ug/L	1.4	7.8	7959967	<0.90	12	3.3	0.90	7956004
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	7959967	<0.50	<0.50	<0.50	0.50	7956004
Dissolved Molybdenum (Mo)	ug/L	8.2	18	7959967	2.5	27	3.8	0.50	7956004
Dissolved Nickel (Ni)	ug/L	1.1	2.6	7959967	16	9.0	2.7	1.0	7956004
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	7959967	<2.0	<2.0	<2.0	2.0	7956004
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	7959967	<0.090	<0.090	<0.090	0.090	7956004
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	7959967	<0.050	<0.050	<0.050	0.050	7956004
Dissolved Uranium (U)	ug/L	1.2	4.2	7959967	0.29	2.3	3.8	0.10	7956004
Dissolved Vanadium (V)	ug/L	1.3	4.7	7959967	<0.50	12	<0.50	0.50	7956004
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	7959967	<5.0	<5.0	<5.0	5.0	7956004

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 METALS GROUPS 1.2.2 & 1.2.3 (WATER)

Bureau Veritas ID		SKR000		
Sampling Date		2022/04/21 14:20		
COC Number		874302-01-01		
	UNITS	**MW1116-22**	**RDL**	**QC Batch**
Metals				
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7956004
Dissolved Arsenic (As)	ug/L	2.6	1.0	7956004
Dissolved Barium (Ba)	ug/L	110	2.0	7956004
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7956004
Dissolved Boron (B)	ug/L	36	10	7956004
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7956004
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7956004
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7956004
Dissolved Copper (Cu)	ug/L	3.8	0.90	7956004
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7956004
Dissolved Molybdenum (Mo)	ug/L	8.7	0.50	7956004
Dissolved Nickel (Ni)	ug/L	1.3	1.0	7956004
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7956004
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7956004
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7956004
Dissolved Uranium (U)	ug/L	1.2	0.10	7956004
Dissolved Vanadium (V)	ug/L	1.3	0.50	7956004
Dissolved Zinc (Zn)	ug/L	5.3	5.0	7956004

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		SKQ995		SKQ996		SKQ997			SKQ997		
Sampling Date		2022/04/21 14:20		2022/04/21 13:20		2022/04/21 15:25			2022/04/21 15:25		
COC Number		874302-01-01		874302-01-01		874302-01-01			874302-01-01		
	UNITS	**MW116-22**	**RDL**	**MW122-22**	**RDL**	**MW123-22**	**RDL**	**QC Batch**	**MW123-22 Lab-Dup**	**RDL**	**QC Batch**
Calculated Parameters											
Chlordane (Total)	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7954146			
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7954146			
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7954146			
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7954146			
Total Endosulfan	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7954146			
Pesticides & Herbicides											
Aldrin	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
Dieldrin	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
a-Chlordane	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
g-Chlordane	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
o,p-DDD	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
p,p-DDD	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
o,p-DDE	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
p,p-DDE	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
o,p-DDT	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
p,p-DDT	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
Lindane	ug/L	<0.003	0.003	<0.003	0.003	<0.003	0.003	7956450	<0.003	0.003	7956450
Endosulfan I (alpha)	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
Endosulfan II (beta)	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
Endrin	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
Heptachlor	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
Heptachlor epoxide	ug/L	<0.005	0.005	<0.005	0.005	<0.005	0.005	7956450	<0.005	0.005	7956450
Hexachlorobenzene	ug/L	<0.005	0.005	<0.007 (1)	0.007	<0.005	0.005	7956450	<0.005	0.005	7956450
Hexachlorobutadiene	ug/L	<0.009	0.009	<0.009	0.009	<0.009	0.009	7956450	<0.009	0.009	7956450
Hexachloroethane	ug/L	<0.01	0.01	<0.01	0.01	<0.01	0.01	7956450	<0.01	0.01	7956450
Methoxychlor	ug/L	<0.01	0.01	<0.01	0.01	<0.01	0.01	7956450	<0.01	0.01	7956450
Surrogate Recovery (%)											
2,4,5,6-Tetrachloro-m-xylene	%	102		98		88		7956450	106		7956450
Decachlorobiphenyl	%	68		70		105		7956450	117		7956450

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
(1) Detection Limit was raised due to matrix interferences.

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O.REG 153 OC PESTICIDES (WATER)

Bureau Veritas ID		SKQ998		SKQ999		
Sampling Date		2022/04/21 15:30		2022/04/21 14:15		
COC Number		874302-01-01		874302-01-01		
	UNITS	**MW124-22**	**RDL**	**MW125-22**	**RDL**	**QC Batch**
Calculated Parameters						
Chlordane (Total)	ug/L	<0.005	0.005	<0.005	0.005	7954146
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	<0.005	0.005	7954146
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	<0.005	0.005	7954146
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	<0.005	0.005	7954146
Total Endosulfan	ug/L	<0.005	0.005	<0.005	0.005	7954146
Pesticides & Herbicides						
Aldrin	ug/L	<0.005	0.005	<0.005	0.005	7956450
Dieldrin	ug/L	<0.005	0.005	<0.005	0.005	7956450
a-Chlordane	ug/L	<0.005	0.005	<0.005	0.005	7956450
g-Chlordane	ug/L	<0.005	0.005	<0.005	0.005	7956450
o,p-DDD	ug/L	<0.005	0.005	<0.005	0.005	7956450
p,p-DDD	ug/L	<0.005	0.005	<0.005	0.005	7956450
o,p-DDE	ug/L	<0.005	0.005	<0.005	0.005	7956450
p,p-DDE	ug/L	<0.005	0.005	<0.005	0.005	7956450
o,p-DDT	ug/L	<0.005	0.005	<0.005	0.005	7956450
p,p-DDT	ug/L	<0.005	0.005	<0.005	0.005	7956450
Lindane	ug/L	<0.003	0.003	<0.003	0.003	7956450
Endosulfan I (alpha)	ug/L	<0.005	0.005	<0.005	0.005	7956450
Endosulfan II (beta)	ug/L	<0.005	0.005	<0.005	0.005	7956450
Endrin	ug/L	<0.005	0.005	<0.005	0.005	7956450
Heptachlor	ug/L	<0.005	0.005	<0.005	0.005	7956450
Heptachlor epoxide	ug/L	<0.005	0.005	<0.005	0.005	7956450
Hexachlorobenzene	ug/L	<0.005	0.005	<0.02 (1)	0.02	7956450
Hexachlorobutadiene	ug/L	<0.009	0.009	<0.009	0.009	7956450
Hexachloroethane	ug/L	<0.01	0.01	<0.01	0.01	7956450
Methoxychlor	ug/L	<0.01	0.01	<0.01	0.01	7956450
Surrogate Recovery (%)						
2,4,5,6-Tetrachloro-m-xylene	%	90		94		7956450
Decachlorobiphenyl	%	61		73		7956450

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Detection Limit was raised due to matrix interferences.

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O.REG 153 PHCS, BTEX/F1-F4 (WATER)

Bureau Veritas ID		SKQ995	SKQ996	SKQ998		
Sampling Date		2022/04/21 14:20	2022/04/21 13:20	2022/04/21 15:30		
COC Number		874302-01-01	874302-01-01	874302-01-01		
	UNITS	**MW116-22**	**MW122-22**	**MW124-22**	**RDL**	**QC Batch**
BTEX & F1 Hydrocarbons						
Benzene	ug/L	<0.20	<0.20	<0.20	0.20	7958120
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	7958120
Ethylbenzene	ug/L	0.41	<0.20	<0.20	0.20	7958120
o-Xylene	ug/L	0.90	0.23	<0.20	0.20	7958120
p+m-Xylene	ug/L	1.4	0.54	<0.40	0.40	7958120
Total Xylenes	ug/L	2.3	0.77	<0.40	0.40	7958120
F1 (C6-C10)	ug/L	<25	<25	<25	25	7958120
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	7958120
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	7958888
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	<200	200	7958888
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	<200	200	7958888
Reached Baseline at C50	ug/L	Yes	Yes	Yes		7958888
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	104	103	103		7958120
4-Bromofluorobenzene	%	103	103	100		7958120
D10-o-Xylene	%	112	109	106		7958120
D4-1,2-Dichloroethane	%	108	109	108		7958120
o-Terphenyl	%	100	99	99		7958888

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (WATER)

Bureau Veritas ID		SKQ997	SKQ999		
Sampling Date		2022/04/21 15:25	2022/04/21 14:15		
COC Number		874302-01-01	874302-01-01		
	UNITS	**MW123-22**	**MW125-22**	**RDL**	**QC Batch**
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	7953543
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	7954962
Benzene	ug/L	<0.17	<0.17	0.17	7954962
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	7954962
Bromoform	ug/L	<1.0	<1.0	1.0	7954962
Bromomethane	ug/L	<0.50	<0.50	0.50	7954962
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	7954962
Chlorobenzene	ug/L	<0.20	<0.20	0.20	7954962
Chloroform	ug/L	<0.20	<0.20	0.20	7954962
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	7954962
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	7954962
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	7954962
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	7954962
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	7954962
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	7954962
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	7954962
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	7954962
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	7954962
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	7954962
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	7954962
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	7954962
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	7954962
Ethylbenzene	ug/L	<0.20	<0.20	0.20	7954962
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	7954962
Hexane	ug/L	<1.0	<1.0	1.0	7954962
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	7954962
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	7954962
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	7954962
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	7954962
Styrene	ug/L	<0.50	<0.50	0.50	7954962

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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O.REG 153 VOCS BY HS & F1-F4 (WATER)

Bureau Veritas ID		SKQ997	SKQ999		
Sampling Date		2022/04/21 15:25	2022/04/21 14:15		
COC Number		874302-01-01	874302-01-01		
	UNITS	**MW123-22**	**MW125-22**	**RDL**	**QC Batch**
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	7954962
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	7954962
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	7954962
Toluene	ug/L	<0.20	<0.20	0.20	7954962
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	7954962
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	7954962
Trichloroethylene	ug/L	<0.20	<0.20	0.20	7954962
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	7954962
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	7954962
p+m-Xylene	ug/L	<0.20	<0.20	0.20	7954962
o-Xylene	ug/L	<0.20	<0.20	0.20	7954962
Total Xylenes	ug/L	<0.20	<0.20	0.20	7954962
F1 (C6-C10)	ug/L	<25	<25	25	7954962
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	7954962
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	7958888
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	7958888
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	7958888
Reached Baseline at C50	ug/L	Yes	Yes		7958888
Surrogate Recovery (%)					
o-Terphenyl	%	100	100		7958888
4-Bromofluorobenzene	%	91	92		7954962
D4-1,2-Dichloroethane	%	95	94		7954962
D8-Toluene	%	93	93		7954962

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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TEST SUMMARY

Bureau Veritas ID: SKQ995 **Collected:** 2022/04/21
Sample ID: MW116-22 **Shipped:**
Matrix: Water **Received:** 2022/04/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7958120	N/A	2022/04/25	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7958888	2022/04/26	2022/04/26	(Kent) Maolin Li
Dissolved Metals by ICPMS	ICP/MS	7959967	N/A	2022/04/27	Arefa Dabhad
OC Pesticides (Selected) & PCB	GC/ECD	7956450	2022/04/24	2022/04/26	Li Peng
OC Pesticides Summed Parameters	CALC	7954146	N/A	2022/04/26	Automated Statchk
pH	AT	7957820	2022/04/25	2022/04/25	Taslima Aktar

Bureau Veritas ID: SKQ996 **Collected:** 2022/04/21
Sample ID: MW122-22 **Shipped:**
Matrix: Water **Received:** 2022/04/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7958120	N/A	2022/04/25	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7958888	2022/04/26	2022/04/26	(Kent) Maolin Li
Dissolved Metals by ICPMS	ICP/MS	7959967	N/A	2022/04/27	Arefa Dabhad
OC Pesticides (Selected) & PCB	GC/ECD	7956450	2022/04/24	2022/04/26	Li Peng
OC Pesticides Summed Parameters	CALC	7954146	N/A	2022/04/26	Automated Statchk
pH	AT	7957820	2022/04/25	2022/04/25	Taslima Aktar

Bureau Veritas ID: SKQ997 **Collected:** 2022/04/21
Sample ID: MW123-22 **Shipped:**
Matrix: Water **Received:** 2022/04/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7953543	N/A	2022/04/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7958888	2022/04/26	2022/04/26	(Kent) Maolin Li
Dissolved Metals by ICPMS	ICP/MS	7956004	N/A	2022/04/26	Nan Raykha
OC Pesticides (Selected) & PCB	GC/ECD	7956450	2022/04/24	2022/04/25	Li Peng
OC Pesticides Summed Parameters	CALC	7954146	N/A	2022/04/25	Automated Statchk
pH	AT	7955979	2022/04/23	2022/04/25	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7954962	N/A	2022/04/25	Denis Reid

Bureau Veritas ID: SKQ997 Dup **Collected:** 2022/04/21
Sample ID: MW123-22 **Shipped:**
Matrix: Water **Received:** 2022/04/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides (Selected) & PCB	GC/ECD	7956450	2022/04/24	2022/04/25	Li Peng

Bureau Veritas ID: SKQ998 **Collected:** 2022/04/21
Sample ID: MW124-22 **Shipped:**
Matrix: Water **Received:** 2022/04/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7958120	N/A	2022/04/25	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7958888	2022/04/26	2022/04/26	(Kent) Maolin Li

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TEST SUMMARY

Bureau Veritas ID: SKQ998 **Collected:** 2022/04/21
Sample ID: MW124-22 **Shipped:**
Matrix: Water **Received:** 2022/04/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7956004	N/A	2022/04/26	Nan Raykha
OC Pesticides (Selected) & PCB	GC/ECD	7956450	2022/04/24	2022/04/26	Li Peng
OC Pesticides Summed Parameters	CALC	7954146	N/A	2022/04/25	Automated Statchk
pH	AT	7955979	2022/04/23	2022/04/25	Taslima Aktar

Bureau Veritas ID: SKQ999 **Collected:** 2022/04/21
Sample ID: MW125-22 **Shipped:**
Matrix: Water **Received:** 2022/04/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7953543	N/A	2022/04/26	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7958888	2022/04/26	2022/04/26	(Kent) Maolin Li
Dissolved Metals by ICPMS	ICP/MS	7956004	N/A	2022/04/26	Nan Raykha
OC Pesticides (Selected) & PCB	GC/ECD	7956450	2022/04/24	2022/04/26	Li Peng
OC Pesticides Summed Parameters	CALC	7954146	N/A	2022/04/25	Automated Statchk
pH	AT	7955979	2022/04/23	2022/04/25	Taslima Aktar
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7954962	N/A	2022/04/25	Denis Reid

Bureau Veritas ID: SKR000 **Collected:** 2022/04/21
Sample ID: MW1116-22 **Shipped:**
Matrix: Water **Received:** 2022/04/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7956004	N/A	2022/04/26	Nan Raykha

Bureau Veritas ID: SKR001 **Collected:** 2022/04/21
Sample ID: TRIP BLANK **Shipped:**
Matrix: Water **Received:** 2022/04/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	7958120	N/A	2022/04/25	Lincoln Ramdahin

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	9.0°C
Package 2	10.0°C
Package 3	6.0°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7954962	4-Bromofluorobenzene	2022/04/25	104	70 - 130	103	70 - 130	93	%		
7954962	D4-1,2-Dichloroethane	2022/04/25	94	70 - 130	92	70 - 130	96	%		
7954962	D8-Toluene	2022/04/25	103	70 - 130	103	70 - 130	93	%		
7956450	2,4,5,6-Tetrachloro-m-xylene	2022/04/25	86	50 - 130	77	50 - 130	86	%		
7956450	Decachlorobiphenyl	2022/04/25	89	50 - 130	106	50 - 130	130	%		
7958120	1,4-Difluorobenzene	2022/04/25	100	70 - 130	100	70 - 130	105	%		
7958120	4-Bromofluorobenzene	2022/04/25	103	70 - 130	102	70 - 130	97	%		
7958120	D10-o-Xylene	2022/04/25	109	70 - 130	108	70 - 130	105	%		
7958120	D4-1,2-Dichloroethane	2022/04/25	99	70 - 130	96	70 - 130	105	%		
7958888	o-Terphenyl	2022/04/26	103	60 - 130	105	60 - 130	101	%		
7954962	1,1,1,2-Tetrachloroethane	2022/04/25	92	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
7954962	1,1,1-Trichloroethane	2022/04/25	92	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
7954962	1,1,2,2-Tetrachloroethane	2022/04/25	93	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
7954962	1,1,2-Trichloroethane	2022/04/25	91	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
7954962	1,1-Dichloroethane	2022/04/25	90	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
7954962	1,1-Dichloroethylene	2022/04/25	90	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
7954962	1,2-Dichlorobenzene	2022/04/25	92	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
7954962	1,2-Dichloroethane	2022/04/25	85	70 - 130	87	70 - 130	<0.50	ug/L	NC	30
7954962	1,2-Dichloropropane	2022/04/25	94	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
7954962	1,3-Dichlorobenzene	2022/04/25	93	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
7954962	1,4-Dichlorobenzene	2022/04/25	110	70 - 130	113	70 - 130	<0.50	ug/L	NC	30
7954962	Acetone (2-Propanone)	2022/04/25	103	60 - 140	98	60 - 140	<10	ug/L	NC	30
7954962	Benzene	2022/04/25	90	70 - 130	92	70 - 130	<0.17	ug/L	NC	30
7954962	Bromodichloromethane	2022/04/25	94	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
7954962	Bromoform	2022/04/25	92	70 - 130	95	70 - 130	<1.0	ug/L	NC	30
7954962	Bromomethane	2022/04/25	107	60 - 140	108	60 - 140	<0.50	ug/L	NC	30
7954962	Carbon Tetrachloride	2022/04/25	89	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
7954962	Chlorobenzene	2022/04/25	94	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
7954962	Chloroform	2022/04/25	91	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
7954962	cis-1,2-Dichloroethylene	2022/04/25	96	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
7954962	cis-1,3-Dichloropropene	2022/04/25	100	70 - 130	98	70 - 130	<0.30	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7954962	Dibromochloromethane	2022/04/25	90	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
7954962	Dichlorodifluoromethane (FREON 12)	2022/04/25	93	60 - 140	98	60 - 140	<1.0	ug/L	NC	30
7954962	Ethylbenzene	2022/04/25	88	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
7954962	Ethylene Dibromide	2022/04/25	92	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
7954962	F1 (C6-C10) - BTEX	2022/04/25					<25	ug/L	NC	30
7954962	F1 (C6-C10)	2022/04/25	87	60 - 140	88	60 - 140	<25	ug/L	NC	30
7954962	Hexane	2022/04/25	97	70 - 130	99	70 - 130	<1.0	ug/L	NC	30
7954962	Methyl Ethyl Ketone (2-Butanone)	2022/04/25	113	60 - 140	110	60 - 140	<10	ug/L	NC	30
7954962	Methyl Isobutyl Ketone	2022/04/25	102	70 - 130	106	70 - 130	<5.0	ug/L	NC	30
7954962	Methyl t-butyl ether (MTBE)	2022/04/25	90	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
7954962	Methylene Chloride(Dichloromethane)	2022/04/25	96	70 - 130	98	70 - 130	<2.0	ug/L	NC	30
7954962	o-Xylene	2022/04/25	91	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
7954962	p+m-Xylene	2022/04/25	92	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
7954962	Styrene	2022/04/25	103	70 - 130	109	70 - 130	<0.50	ug/L	NC	30
7954962	Tetrachloroethylene	2022/04/25	86	70 - 130	87	70 - 130	<0.20	ug/L	NC	30
7954962	Toluene	2022/04/25	93	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
7954962	Total Xylenes	2022/04/25					<0.20	ug/L	NC	30
7954962	trans-1,2-Dichloroethylene	2022/04/25	95	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
7954962	trans-1,3-Dichloropropene	2022/04/25	107	70 - 130	102	70 - 130	<0.40	ug/L	NC	30
7954962	Trichloroethylene	2022/04/25	98	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
7954962	Trichlorofluoromethane (FREON 11)	2022/04/25	96	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
7954962	Vinyl Chloride	2022/04/25	101	70 - 130	106	70 - 130	<0.20	ug/L	NC	30
7955979	pH	2022/04/25			102	98 - 103			0.42	N/A
7956004	Dissolved Antimony (Sb)	2022/04/26	101	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
7956004	Dissolved Arsenic (As)	2022/04/26	97	80 - 120	98	80 - 120	<1.0	ug/L	NC	20
7956004	Dissolved Barium (Ba)	2022/04/26	96	80 - 120	99	80 - 120	<2.0	ug/L	9.2	20
7956004	Dissolved Beryllium (Be)	2022/04/26	97	80 - 120	101	80 - 120	<0.40	ug/L	NC	20
7956004	Dissolved Boron (B)	2022/04/26	NC	80 - 120	100	80 - 120	<10	ug/L	5.2	20
7956004	Dissolved Cadmium (Cd)	2022/04/26	97	80 - 120	99	80 - 120	<0.090	ug/L	NC	20
7956004	Dissolved Chromium (Cr)	2022/04/26	97	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
7956004	Dissolved Cobalt (Co)	2022/04/26	96	80 - 120	99	80 - 120	<0.50	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7956004	Dissolved Copper (Cu)	2022/04/26	100	80 - 120	99	80 - 120	<0.90	ug/L	NC	20
7956004	Dissolved Lead (Pb)	2022/04/26	93	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
7956004	Dissolved Molybdenum (Mo)	2022/04/26	105	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
7956004	Dissolved Nickel (Ni)	2022/04/26	94	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
7956004	Dissolved Selenium (Se)	2022/04/26	97	80 - 120	97	80 - 120	<2.0	ug/L	NC	20
7956004	Dissolved Silver (Ag)	2022/04/26	97	80 - 120	102	80 - 120	<0.090	ug/L	NC	20
7956004	Dissolved Thallium (Tl)	2022/04/26	94	80 - 120	96	80 - 120	<0.050	ug/L	NC	20
7956004	Dissolved Uranium (U)	2022/04/26	95	80 - 120	97	80 - 120	<0.10	ug/L	1.8	20
7956004	Dissolved Vanadium (V)	2022/04/26	98	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
7956004	Dissolved Zinc (Zn)	2022/04/26	94	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
7956450	a-Chlordane	2022/04/25	77	50 - 130	97	50 - 130	<0.005	ug/L	NC	30
7956450	Aldrin	2022/04/25	77	50 - 130	89	50 - 130	<0.005	ug/L	NC	30
7956450	Dieldrin	2022/04/25	90	50 - 130	112	50 - 130	<0.005	ug/L	NC	30
7956450	Endosulfan I (alpha)	2022/04/25	97	50 - 130	117	50 - 130	<0.005	ug/L	NC	30
7956450	Endosulfan II (beta)	2022/04/25	79	50 - 130	99	50 - 130	<0.005	ug/L	NC	30
7956450	Endrin	2022/04/25	90	50 - 130	103	50 - 130	<0.005	ug/L	NC	30
7956450	g-Chlordane	2022/04/25	73	50 - 130	88	50 - 130	<0.005	ug/L	NC	30
7956450	Heptachlor epoxide	2022/04/25	79	50 - 130	104	50 - 130	<0.005	ug/L	NC	30
7956450	Heptachlor	2022/04/25	84	50 - 130	88	50 - 130	<0.005	ug/L	NC	30
7956450	Hexachlorobenzene	2022/04/25	78	50 - 130	91	50 - 130	<0.005	ug/L	NC	30
7956450	Hexachlorobutadiene	2022/04/25	72	50 - 130	71	50 - 130	<0.009	ug/L	NC	30
7956450	Hexachloroethane	2022/04/25	60	50 - 130	57	50 - 130	<0.01	ug/L	NC	30
7956450	Lindane	2022/04/25	75	50 - 130	88	50 - 130	<0.003	ug/L	NC	30
7956450	Methoxychlor	2022/04/25	122	50 - 130	127	50 - 130	<0.01	ug/L	NC	30
7956450	o,p-DDD	2022/04/25	87	50 - 130	103	50 - 130	<0.005	ug/L	NC	30
7956450	o,p-DDE	2022/04/25	74	50 - 130	91	50 - 130	<0.005	ug/L	NC	30
7956450	o,p-DDT	2022/04/25	99	50 - 130	114	50 - 130	<0.005	ug/L	NC	30
7956450	p,p-DDD	2022/04/25	79	50 - 130	93	50 - 130	<0.005	ug/L	NC	30
7956450	p,p-DDE	2022/04/25	99	50 - 130	117	50 - 130	<0.005	ug/L	NC	30
7956450	p,p-DDT	2022/04/25	118	50 - 130	116	50 - 130	<0.005	ug/L	NC	30
7957820	pH	2022/04/25			102	98 - 103			0.14	N/A

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7958120	Benzene	2022/04/25	86	50 - 140	109	50 - 140	<0.20	ug/L	1.1	30
7958120	Ethylbenzene	2022/04/25	122	50 - 140	122	50 - 140	<0.20	ug/L	0.92	30
7958120	F1 (C6-C10) - BTEX	2022/04/25					<25	ug/L		
7958120	F1 (C6-C10)	2022/04/25	89	60 - 140	91	60 - 140	<25	ug/L		
7958120	o-Xylene	2022/04/25	117	50 - 140	115	50 - 140	<0.20	ug/L	2.0	30
7958120	p+m-Xylene	2022/04/25	115	50 - 140	115	50 - 140	<0.40	ug/L	2.5	30
7958120	Toluene	2022/04/25	101	50 - 140	103	50 - 140	<0.20	ug/L	1.4	30
7958120	Total Xylenes	2022/04/25					<0.40	ug/L	2.3	30
7958888	F2 (C10-C16 Hydrocarbons)	2022/04/26	NC	60 - 130	103	60 - 130	<100	ug/L	1.2	30
7958888	F3 (C16-C34 Hydrocarbons)	2022/04/26	111	60 - 130	114	60 - 130	<200	ug/L	NC	30
7958888	F4 (C34-C50 Hydrocarbons)	2022/04/26	116	60 - 130	117	60 - 130	<200	ug/L	NC	30
7959967	Dissolved Antimony (Sb)	2022/04/27	105	80 - 120	100	80 - 120	<0.50	ug/L		
7959967	Dissolved Arsenic (As)	2022/04/27	101	80 - 120	99	80 - 120	<1.0	ug/L		
7959967	Dissolved Barium (Ba)	2022/04/27	101	80 - 120	102	80 - 120	<2.0	ug/L	0.45	20
7959967	Dissolved Beryllium (Be)	2022/04/27	102	80 - 120	98	80 - 120	<0.40	ug/L		
7959967	Dissolved Boron (B)	2022/04/27	102	80 - 120	97	80 - 120	<10	ug/L	2.2	20
7959967	Dissolved Cadmium (Cd)	2022/04/27	100	80 - 120	99	80 - 120	<0.090	ug/L		
7959967	Dissolved Chromium (Cr)	2022/04/27	98	80 - 120	96	80 - 120	<5.0	ug/L		
7959967	Dissolved Cobalt (Co)	2022/04/27	99	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
7959967	Dissolved Copper (Cu)	2022/04/27	97	80 - 120	101	80 - 120	<0.90	ug/L		
7959967	Dissolved Lead (Pb)	2022/04/27	95	80 - 120	97	80 - 120	<0.50	ug/L		
7959967	Dissolved Molybdenum (Mo)	2022/04/27	104	80 - 120	97	80 - 120	<0.50	ug/L		
7959967	Dissolved Nickel (Ni)	2022/04/27	95	80 - 120	96	80 - 120	<1.0	ug/L	0.12	20
7959967	Dissolved Selenium (Se)	2022/04/27	96	80 - 120	103	80 - 120	<2.0	ug/L		
7959967	Dissolved Silver (Ag)	2022/04/27	68 (1)	80 - 120	96	80 - 120	<0.090	ug/L		
7959967	Dissolved Thallium (Tl)	2022/04/27	101	80 - 120	100	80 - 120	<0.050	ug/L		
7959967	Dissolved Uranium (U)	2022/04/27	98	80 - 120	95	80 - 120	<0.10	ug/L		
7959967	Dissolved Vanadium (V)	2022/04/27	99	80 - 120	96	80 - 120	<0.50	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7959967	Dissolved Zinc (Zn)	2022/04/27	96	80 - 120	95	80 - 120	<5.0	ug/L		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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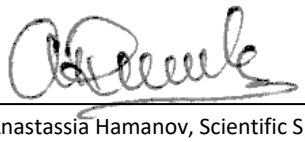
VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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CH

21-Apr-22 18:52
Ronklin Gracian
C2A6668
SPJ ENV-1697
C#874302-01-01

tle Order #: 874302
ect Manager: Ronklin Gracian

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	B90004
Attention:	Accounts Payable	Attention:	Monique Gyba	P.O. #:	
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	50996-100
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Project Name:	
Email:	accounting@mte85.com	Email:	MGyba@mte85.com	Site #:	
				Sampled By:	AAC / [illegible]

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ___ ☐ PWQO ☐ Reg 406 Table ___ ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): (Metals) / Hg / Cr VI	O.Reg 153 Metals Scan 1.2.2 and 1.2.3	pH	O.Reg 153 OC Pesticides	O.Reg 153 PHCs+VOCs	O.Reg 153 PHCs+BTEX	PHC F1+BTEX				# of Bottles	Comments
1		MW116-22	2022-04-21	14:20	GW	X	X	X	X		X					9	
2		MW122-22	〃	13:20	〃	X	X	X	X		X					9	
3		MW123-22	〃	15:25	〃	X	X	X	X	X	X					9	
4		MW124-22	〃	15:30	〃	X	X	X	X		X					9	
5		MW125-22	〃	14:15	〃	X	X	X	X	X	X					9	
6																	
7		MW 116-22	〃	14:20	〃	X	X									1	
8		Trip Blank	〃		〃							X				2	
9																	
10																	

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
[signature]	2022-04-21	16:40	[signature] / [illegible]	22/04/21	16:46	
[illegible]	2022/04/21	18:50	[signature] / [illegible]	2022/04/21	18:52	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	9/9/9, 9/9/12	Present	✓	
		Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

U1618

Your Project #: 50996-100
Your C.O.C. #: 875145-01-01

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/29
Report #: R7105007
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2A8599
Received: 2022/04/25, 11:22

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	2	N/A	2022/04/27	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	2	N/A	2022/04/28	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry	2	N/A	2022/04/28	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity	2	N/A	2022/04/27	CAM SOP-00414	SM 23 2510 m
Dissolved Organic Carbon (DOC) (1)	2	N/A	2022/04/26	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO3)	2	N/A	2022/04/29	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	2	N/A	2022/04/28	CAM SOP-00447	EPA 6020B m
Ion Balance (% Difference)	2	N/A	2022/04/29		
Anion and Cation Sum	2	N/A	2022/04/29		
Total Ammonia-N	2	N/A	2022/04/27	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (2)	2	N/A	2022/04/27	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	2	2022/04/26	2022/04/27	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	2	N/A	2022/04/28	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	2	N/A	2022/04/29		Auto Calc
Sat. pH and Langelier Index (@ 4C)	2	N/A	2022/04/29		Auto Calc
Sulphate by Automated Colourimetry	2	N/A	2022/04/28	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	2	N/A	2022/04/29		Auto Calc

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless

Your Project #: 50996-100
Your C.O.C. #: 875145-01-01

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/04/29
Report #: R7105007
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2A8599
Received: 2022/04/25, 11:22

otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.
(2) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

Encryption Key

Ronklin Gracian
Project Manager
29 Apr 2022 14:01:54

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752
==========
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For Service Group specific validation please refer to the Validation Signature Page.

RCAP - COMPREHENSIVE (WATER)

Bureau Veritas ID		SLC576	SLC577		
Sampling Date		2022/04/25 10:50	2022/04/25 10:15		
COC Number		875145-01-01	875145-01-01		
	UNITS	**MW102-22**	**MW106-22**	**RDL**	**QC Batch**
Calculated Parameters					
Anion Sum	me/L	7.49	6.40	N/A	7957302
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	270	230	1.0	7957299
Calculated TDS	mg/L	400	340	1.0	7957306
Carb. Alkalinity (calc. as CaCO3)	mg/L	3.2	7.0	1.0	7957299
Cation Sum	me/L	7.32	6.25	N/A	7957302
Hardness (CaCO3)	mg/L	330	240	1.0	7957300
Ion Balance (% Difference)	%	1.13	1.20	N/A	7957301
Langelier Index (@ 20C)	N/A	0.851	1.15		7957304
Langelier Index (@ 4C)	N/A	0.603	0.901		7957305
Saturation pH (@ 20C)	N/A	7.25	7.35		7957304
Saturation pH (@ 4C)	N/A	7.50	7.60		7957305
Inorganics					
Total Ammonia-N	mg/L	0.12	0.31	0.050	7960506
Conductivity	umho/cm	670	580	1.0	7960840
Dissolved Organic Carbon	mg/L	0.87	2.1	0.40	7959489
Orthophosphate (P)	mg/L	<0.050 (1)	<0.050 (1)	0.050	7963779
pH	pH	8.10	8.50		7960842
Dissolved Sulphate (SO4)	mg/L	72	46	1.0	7963786
Alkalinity (Total as CaCO3)	mg/L	270	240	1.0	7960811
Dissolved Chloride (Cl-)	ug/L	18000	22000	1000	7963775
Nitrite (N)	mg/L	0.012	<0.010	0.010	7960721
Nitrate (N)	mg/L	<0.10	<0.10	0.10	7960721
Nitrate + Nitrite (N)	mg/L	<0.10	<0.10	0.10	7960721
Metals					
Dissolved Aluminum (Al)	ug/L	7.6	5.9	4.9	7959114
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	7959114
Dissolved Arsenic (As)	ug/L	1.4	<1.0	1.0	7959114
Dissolved Barium (Ba)	ug/L	61	110	2.0	7959114
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	7959114

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

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RCAP - COMPREHENSIVE (WATER)

Bureau Veritas ID		SLC576	SLC577		
Sampling Date		2022/04/25 10:50	2022/04/25 10:15		
COC Number		875145-01-01	875145-01-01		
	UNITS	**MW102-22**	**MW106-22**	**RDL**	**QC Batch**
Dissolved Boron (B)	ug/L	56	60	10	7959114
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	7959114
Dissolved Calcium (Ca)	ug/L	57000	50000	200	7959114
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	7959114
Dissolved Cobalt (Co)	ug/L	0.82	0.61	0.50	7959114
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	7959114
Dissolved Iron (Fe)	ug/L	<100	100	100	7959114
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	7959114
Dissolved Magnesium (Mg)	ug/L	45000	27000	50	7959114
Dissolved Manganese (Mn)	ug/L	25	89	2.0	7959114
Dissolved Molybdenum (Mo)	ug/L	4.1	9.7	0.50	7959114
Dissolved Nickel (Ni)	ug/L	2.2	4.9	1.0	7959114
Dissolved Phosphorus (P)	ug/L	<100	<100	100	7959114
Dissolved Potassium (K)	ug/L	6200	15000	200	7959114
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	7959114
Dissolved Silicon (Si)	ug/L	10000	5600	50	7959114
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	7959114
Dissolved Sodium (Na)	ug/L	14000	26000	100	7959114
Dissolved Strontium (Sr)	ug/L	620	280	1.0	7959114
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	7959114
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	7959114
Dissolved Uranium (U)	ug/L	0.62	0.81	0.10	7959114
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	7959114
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	7959114

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Bureau Veritas Job #: C2A8599
Report Date: 2022/04/29

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: IA

TEST SUMMARY

Bureau Veritas ID: SLC576
Sample ID: MW102-22
Matrix: Water

Collected: 2022/04/25
Shipped:
Received: 2022/04/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7960811	N/A	2022/04/27	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	7957299	N/A	2022/04/28	Automated Statchk
Chloride by Automated Colourimetry	KONE	7963775	N/A	2022/04/28	Raiq Kashif
Conductivity	AT	7960840	N/A	2022/04/27	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7959489	N/A	2022/04/26	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7957300	N/A	2022/04/29	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7959114	N/A	2022/04/28	Nan Raykha
Ion Balance (% Difference)	CALC	7957301	N/A	2022/04/29	Automated Statchk
Anion and Cation Sum	CALC	7957302	N/A	2022/04/29	Automated Statchk
Total Ammonia-N	LACH/NH4	7960506	N/A	2022/04/27	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7960721	N/A	2022/04/27	Amanpreet Sappal
pH	AT	7960842	2022/04/26	2022/04/27	Surinder Rai
Orthophosphate	KONE	7963779	N/A	2022/04/28	Chandra Nandlal
Sat. pH and Langelier Index (@ 20C)	CALC	7957304	N/A	2022/04/29	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	7957305	N/A	2022/04/29	Automated Statchk
Sulphate by Automated Colourimetry	KONE	7963786	N/A	2022/04/28	Chandra Nandlal
Total Dissolved Solids (TDS calc)	CALC	7957306	N/A	2022/04/29	Automated Statchk

Bureau Veritas ID: SLC577
Sample ID: MW106-22
Matrix: Water

Collected: 2022/04/25
Shipped:
Received: 2022/04/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7960811	N/A	2022/04/27	Surinder Rai
Carbonate, Bicarbonate and Hydroxide	CALC	7957299	N/A	2022/04/28	Automated Statchk
Chloride by Automated Colourimetry	KONE	7963775	N/A	2022/04/28	Raiq Kashif
Conductivity	AT	7960840	N/A	2022/04/27	Surinder Rai
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7959489	N/A	2022/04/26	Anna-Kay Gooden
Hardness (calculated as CaCO3)		7957300	N/A	2022/04/29	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7959114	N/A	2022/04/28	Nan Raykha
Ion Balance (% Difference)	CALC	7957301	N/A	2022/04/29	Automated Statchk
Anion and Cation Sum	CALC	7957302	N/A	2022/04/29	Automated Statchk
Total Ammonia-N	LACH/NH4	7960506	N/A	2022/04/27	Amanpreet Sappal
Nitrate & Nitrite as Nitrogen in Water	LACH	7960721	N/A	2022/04/27	Amanpreet Sappal
pH	AT	7960842	2022/04/26	2022/04/27	Surinder Rai
Orthophosphate	KONE	7963779	N/A	2022/04/28	Chandra Nandlal
Sat. pH and Langelier Index (@ 20C)	CALC	7957304	N/A	2022/04/29	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	7957305	N/A	2022/04/29	Automated Statchk
Sulphate by Automated Colourimetry	KONE	7963786	N/A	2022/04/28	Chandra Nandlal
Total Dissolved Solids (TDS calc)	CALC	7957306	N/A	2022/04/29	Automated Statchk

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	10.7°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7959114	Dissolved Aluminum (Al)	2022/04/28	98	80 - 120	93	80 - 120	<4.9	ug/L		
7959114	Dissolved Antimony (Sb)	2022/04/28	108	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
7959114	Dissolved Arsenic (As)	2022/04/28	100	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
7959114	Dissolved Barium (Ba)	2022/04/28	96	80 - 120	96	80 - 120	<2.0	ug/L	0.051	20
7959114	Dissolved Beryllium (Be)	2022/04/28	97	80 - 120	93	80 - 120	<0.40	ug/L	NC	20
7959114	Dissolved Boron (B)	2022/04/28	90	80 - 120	88	80 - 120	<10	ug/L	1.1	20
7959114	Dissolved Cadmium (Cd)	2022/04/28	101	80 - 120	99	80 - 120	<0.090	ug/L	NC	20
7959114	Dissolved Calcium (Ca)	2022/04/28	NC	80 - 120	95	80 - 120	<200	ug/L		
7959114	Dissolved Chromium (Cr)	2022/04/28	98	80 - 120	95	80 - 120	<5.0	ug/L	NC	20
7959114	Dissolved Cobalt (Co)	2022/04/28	96	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
7959114	Dissolved Copper (Cu)	2022/04/28	97	80 - 120	97	80 - 120	<0.90	ug/L	NC	20
7959114	Dissolved Iron (Fe)	2022/04/28	98	80 - 120	100	80 - 120	<100	ug/L		
7959114	Dissolved Lead (Pb)	2022/04/28	94	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
7959114	Dissolved Magnesium (Mg)	2022/04/28	NC	80 - 120	99	80 - 120	<50	ug/L		
7959114	Dissolved Manganese (Mn)	2022/04/28	NC	80 - 120	97	80 - 120	<2.0	ug/L		
7959114	Dissolved Molybdenum (Mo)	2022/04/28	109	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
7959114	Dissolved Nickel (Ni)	2022/04/28	93	80 - 120	97	80 - 120	<1.0	ug/L	NC	20
7959114	Dissolved Phosphorus (P)	2022/04/28	101	80 - 120	111	80 - 120	<100	ug/L		
7959114	Dissolved Potassium (K)	2022/04/28	100	80 - 120	101	80 - 120	<200	ug/L		
7959114	Dissolved Selenium (Se)	2022/04/28	99	80 - 120	96	80 - 120	<2.0	ug/L	NC	20
7959114	Dissolved Silicon (Si)	2022/04/28	99	80 - 120	94	80 - 120	<50	ug/L		
7959114	Dissolved Silver (Ag)	2022/04/28	58 (1)	80 - 120	102	80 - 120	<0.090	ug/L	NC	20
7959114	Dissolved Sodium (Na)	2022/04/28	NC	80 - 120	97	80 - 120	<100	ug/L	2.7	20
7959114	Dissolved Strontium (Sr)	2022/04/28	NC	80 - 120	95	80 - 120	<1.0	ug/L		
7959114	Dissolved Thallium (Tl)	2022/04/28	96	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
7959114	Dissolved Titanium (Ti)	2022/04/28	99	80 - 120	92	80 - 120	<5.0	ug/L		
7959114	Dissolved Uranium (U)	2022/04/28	99	80 - 120	100	80 - 120	<0.10	ug/L	NC	20
7959114	Dissolved Vanadium (V)	2022/04/28	101	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
7959114	Dissolved Zinc (Zn)	2022/04/28	93	80 - 120	97	80 - 120	<5.0	ug/L	NC	20
7959489	Dissolved Organic Carbon	2022/04/26	99	80 - 120	100	80 - 120	<0.40	mg/L	0.77	20
7960506	Total Ammonia-N	2022/04/27	97	75 - 125	101	80 - 120	<0.050	mg/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7960721	Nitrate (N)	2022/04/27	102	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
7960721	Nitrite (N)	2022/04/27	100	80 - 120	100	80 - 120	<0.010	mg/L	NC	20
7960811	Alkalinity (Total as CaCO3)	2022/04/27			96	85 - 115	<1.0	mg/L	1.8	20
7960840	Conductivity	2022/04/27			100	85 - 115	<1.0	umho/cm	0.13	25
7960842	pH	2022/04/27			102	98 - 103			1.8	N/A
7963775	Dissolved Chloride (Cl-)	2022/04/28	NC	80 - 120	102	80 - 120	<1000	ug/L	0.84	20
7963779	Orthophosphate (P)	2022/04/28	111	75 - 125	100	80 - 120	<0.010	mg/L	NC	25
7963786	Dissolved Sulphate (SO4)	2022/04/28	NC	75 - 125	102	80 - 120	<1.0	mg/L	0.65	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Matrix Spike exceeds acceptance limits. Probable Matrix interference

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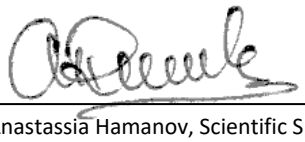
VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Anastassia Hamanov, Scientific Specialist

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25-Apr-22 11:22
Ronklin Gracian
C2A8599
KTN ENV-1669
C#875145-01-01

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	B90004
Attention:	Accounts Payable	Attention:	Monique Gyba	P.O. #:	
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	50996-100
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Project Name:	
Email:	accounting@mte85.com	Email:	MGyba@mte85.com	Site #:	
				Sampled By:	IXA

Bottle Order #: 875145
Project Manager: Ronklin Gracian

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☐ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☐ For RSC
- ☐ Table ___

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558 ☐ Storm Sewer Bylaw
- ☐ MISA Municipality ____
- ☐ PWQO ☐ Reg 406 Table ____
- ☐ Other ____

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ____

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☑
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____ ☐
Rush Confirmation Number: ____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	RCAp - Comprehensive	# of Bottles	Comments
1		MW102-22	Apr 25, 2022	10:50	GW	✓	✓	4	
2		MW106~~22~~-22	↓	10:15	↓	✓	✓	4	
3									
4									
5									
6									
7									
8									
9									
10									

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
IVAN AGUILAR	22/04/25	11:20				

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	1/ 10/11	Present		
		Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client
Orile

Bureau Veritas Canada (2019) Inc.

Your Project #: 50996-100
Your C.O.C. #: 875363-03-01

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/05/03
Report #: R7109870
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2B6840
Received: 2022/05/02, 18:10

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Dissolved Metals by ICPMS	4	N/A	2022/05/03	CAM SOP-00447	EPA 6020B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Ronklin Gracian
Project Manager
03 May 2022 18:22:16

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation please refer to the Validation Signature Page.

Bureau Veritas Job #: C2B6840
Report Date: 2022/05/03

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: KH

O.REG 153 METALS GROUP 1.2.2 (WATER)

Bureau Veritas ID		SMV847	SMV848	SMV848	SMV849	SMV850		
Sampling Date		2022/05/02 10:00	2022/05/02 10:15	2022/05/02 10:15	2022/05/02 10:30	2022/05/02 11:00		
COC Number		875363-03-01	875363-03-01	875363-03-01	875363-03-01	875363-03-01		
	UNITS	**MW123-22**	**MW122-22**	**MW122-22 Lab-Dup**	**MW124-22**	**MW103-22**	**RDL**	**QC Batch**
Metals								
Dissolved Barium (Ba)	ug/L	260	63	63	74	84	2.0	7972321
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	7972321
Dissolved Boron (B)	ug/L	62	16	16	51	64	10	7972321
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	<0.090	<0.090	<0.090	0.090	7972321
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7972321
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	0.68	0.78	0.50	7972321
Dissolved Copper (Cu)	ug/L	1.0	1.4	1.4	5.1	0.98	0.90	7972321
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7972321
Dissolved Molybdenum (Mo)	ug/L	5.2	2.3	2.4	13	2.7	0.50	7972321
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	<1.0	5.6	<1.0	1.0	7972321
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	<0.090	<0.090	0.090	7972321
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	<0.050	<0.050	0.050	7972321
Dissolved Uranium (U)	ug/L	0.99	2.9	2.9	7.3	1.5	0.10	7972321
Dissolved Vanadium (V)	ug/L	<0.50	0.53	0.54	4.2	<0.50	0.50	7972321
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7972321

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C2B6840
Report Date: 2022/05/03

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: KH

TEST SUMMARY

Bureau Veritas ID: SMV847 **Collected:** 2022/05/02
Sample ID: MW123-22 **Shipped:**
Matrix: Water **Received:** 2022/05/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7972321	N/A	2022/05/03	Azita Fazaeli

Bureau Veritas ID: SMV848 **Collected:** 2022/05/02
Sample ID: MW122-22 **Shipped:**
Matrix: Water **Received:** 2022/05/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7972321	N/A	2022/05/03	Azita Fazaeli

Bureau Veritas ID: SMV848 Dup **Collected:** 2022/05/02
Sample ID: MW122-22 **Shipped:**
Matrix: Water **Received:** 2022/05/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7972321	N/A	2022/05/03	Azita Fazaeli

Bureau Veritas ID: SMV849 **Collected:** 2022/05/02
Sample ID: MW124-22 **Shipped:**
Matrix: Water **Received:** 2022/05/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7972321	N/A	2022/05/03	Azita Fazaeli

Bureau Veritas ID: SMV850 **Collected:** 2022/05/02
Sample ID: MW103-22 **Shipped:**
Matrix: Water **Received:** 2022/05/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7972321	N/A	2022/05/03	Azita Fazaeli

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.7°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7972321	Dissolved Barium (Ba)	2022/05/03	100	80 - 120	99	80 - 120	<2.0	ug/L	0.33	20
7972321	Dissolved Beryllium (Be)	2022/05/03	102	80 - 120	99	80 - 120	<0.40	ug/L	NC	20
7972321	Dissolved Boron (B)	2022/05/03	104	80 - 120	102	80 - 120	<10	ug/L	2.7	20
7972321	Dissolved Cadmium (Cd)	2022/05/03	102	80 - 120	99	80 - 120	<0.090	ug/L	NC	20
7972321	Dissolved Chromium (Cr)	2022/05/03	100	80 - 120	99	80 - 120	<5.0	ug/L	NC	20
7972321	Dissolved Cobalt (Co)	2022/05/03	98	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
7972321	Dissolved Copper (Cu)	2022/05/03	99	80 - 120	97	80 - 120	<0.90	ug/L	1.5	20
7972321	Dissolved Lead (Pb)	2022/05/03	96	80 - 120	95	80 - 120	<0.50	ug/L	NC	20
7972321	Dissolved Molybdenum (Mo)	2022/05/03	105	80 - 120	100	80 - 120	<0.50	ug/L	7.4	20
7972321	Dissolved Nickel (Ni)	2022/05/03	98	80 - 120	98	80 - 120	<1.0	ug/L	NC	20
7972321	Dissolved Silver (Ag)	2022/05/03	100	80 - 120	98	80 - 120	<0.090	ug/L	NC	20
7972321	Dissolved Thallium (Tl)	2022/05/03	97	80 - 120	96	80 - 120	<0.050	ug/L	NC	20
7972321	Dissolved Uranium (U)	2022/05/03	103	80 - 120	100	80 - 120	<0.10	ug/L	1.5	20
7972321	Dissolved Vanadium (V)	2022/05/03	102	80 - 120	98	80 - 120	<0.50	ug/L	1.9	20
7972321	Dissolved Zinc (Zn)	2022/05/03	99	80 - 120	98	80 - 120	<5.0	ug/L	NC	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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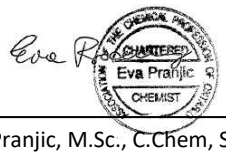
Bureau Veritas Job #: C2B6840
Report Date: 2022/05/03

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: KH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

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Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

Bureau Veritas
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel:(905) 817-5700 Toll-free:800-563-6266 Fax:(905) 817-5777 www.bvna.com

CHAIN OF CUSTODY RECORD

02-May-22 18:10
Ronklin Gracian
C2B6840
ASR ENV-1216
C#875363-03-01
Ronklin Gracian

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:	
Company Name:	#31785 MTE Consultants Inc.	Company Name:		Quotation #:	C12245
Attention:	Accounts Payable	Attention:	Pat Downing Monique Gyles	P.O. #:	
Address:	520 Bingemans Centre Dr	Address:		Project:	48949-100 50996-100
	Kitchener ON N2B 3X9			Project Name:	
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	(519) 743-6500 Ext: 1218 Fax:	Site #:	
Email:	accounting@mte85.com	Email:	pdowning@mte85.com;jjones@mte85.com	Sampled By:	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☐ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☐ For RSC
- ☐ Table ___

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558 ☐ Storm Sewer Bylaw
- ☐ MISA Municipality ___
- ☐ PWQO ☐ Reg 406 Table ___
- ☐ Other ___

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT: ☐
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: May 3 2022 Time Required: 1 day ☒
Rush Confirmation Number: ___ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	Polychlorinated Biphenyl (Select Parameters)	PAH Compounds in Water by GC/MS (SIM)	Total Dissolved Solids	Low Level Total Suspended Solids	Petroleum Hydrocarbons F2-F4 in Water	metals					# of Bottles	Comments
1		MW123-22	May 2 2022	10:00	GW	X						X					1	
2		MW122-22		10:15		X						X					1	
3		MW124-22		10:30		X						X					1	
4		MW103-22		10:45		X						X					1	
5		MW104-22		11:00		X						X					1	
6																		
7																		
8																		
9																		
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
KAY HARVEY	22/05/02	18:00	Ashitha Sukumar	2022/05/02	18:10	
			ASHITHA SUKUMAR	2022/05/02		

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recei	Custody Seal	Yes	No
	3/5/6	Present		✓
		Intact		✓

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVNA.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: 50996-100
Your C.O.C. #: 876943-01-01

Attention: Monique Gyba

MTE Consultants Inc
520 Bingemans Centre Dr
Kitchener, ON
CANADA N2B 3X9

Report Date: 2022/05/04
Report #: R7111384
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C2B7785
Received: 2022/05/03, 14:08

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Dissolved Metals by ICPMS	1	N/A	2022/05/04	CAM SOP-00447	EPA 6020B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Ronklin Gracian
Project Manager
04 May 2022 18:05:04

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ronklin Gracian, Project Manager
Email: Ronklin.Gracian@bureauveritas.com
Phone# (905)817-5752

==========

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For Service Group specific validation please refer to the Validation Signature Page.

O.REG 153 METALS GROUP 1.2.2 (WATER)

Bureau Veritas ID		SNB283	SNB283		
Sampling Date		2022/05/02 11:00	2022/05/02 11:00		
COC Number		876943-01-01	876943-01-01		
	UNITS	**MW104-22**	**MW104-22 Lab-Dup**	**RDL**	**QC Batch**
Metals					
Dissolved Barium (Ba)	ug/L	99	99	2.0	7974661
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	7974661
Dissolved Boron (B)	ug/L	26	25	10	7974661
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	7974661
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	7974661
Dissolved Cobalt (Co)	ug/L	1.7	1.6	0.50	7974661
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	7974661
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	7974661
Dissolved Molybdenum (Mo)	ug/L	2.7	2.7	0.50	7974661
Dissolved Nickel (Ni)	ug/L	24	25	1.0	7974661
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	7974661
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	7974661
Dissolved Uranium (U)	ug/L	1.1	1.1	0.10	7974661
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	7974661
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	7974661

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate

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Bureau Veritas Job #: C2B7785
Report Date: 2022/05/04

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: KDH

TEST SUMMARY

Bureau Veritas ID: SNB283
Sample ID: MW104-22
Matrix: Water

Collected: 2022/05/02
Shipped:
Received: 2022/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7974661	N/A	2022/05/04	Daniel Teclu

Bureau Veritas ID: SNB283 Dup
Sample ID: MW104-22
Matrix: Water

Collected: 2022/05/02
Shipped:
Received: 2022/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7974661	N/A	2022/05/04	Daniel Teclu

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	0.3°C

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7974661	Dissolved Barium (Ba)	2022/05/04	102	80 - 120	99	80 - 120	<2.0	ug/L	0.37	20
7974661	Dissolved Beryllium (Be)	2022/05/04	105	80 - 120	102	80 - 120	<0.40	ug/L	NC	20
7974661	Dissolved Boron (B)	2022/05/04	102	80 - 120	99	80 - 120	<10	ug/L	4.9	20
7974661	Dissolved Cadmium (Cd)	2022/05/04	106	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
7974661	Dissolved Chromium (Cr)	2022/05/04	98	80 - 120	95	80 - 120	<5.0	ug/L	NC	20
7974661	Dissolved Cobalt (Co)	2022/05/04	102	80 - 120	100	80 - 120	<0.50	ug/L	3.2	20
7974661	Dissolved Copper (Cu)	2022/05/04	103	80 - 120	97	80 - 120	<0.90	ug/L	NC	20
7974661	Dissolved Lead (Pb)	2022/05/04	99	80 - 120	98	80 - 120	<0.50	ug/L	NC	20
7974661	Dissolved Molybdenum (Mo)	2022/05/04	107	80 - 120	98	80 - 120	<0.50	ug/L	0.55	20
7974661	Dissolved Nickel (Ni)	2022/05/04	99	80 - 120	99	80 - 120	<1.0	ug/L	2.7	20
7974661	Dissolved Silver (Ag)	2022/05/04	102	80 - 120	100	80 - 120	<0.090	ug/L	NC	20
7974661	Dissolved Thallium (Tl)	2022/05/04	100	80 - 120	100	80 - 120	<0.050	ug/L	NC	20
7974661	Dissolved Uranium (U)	2022/05/04	104	80 - 120	101	80 - 120	<0.10	ug/L	0.36	20
7974661	Dissolved Vanadium (V)	2022/05/04	104	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
7974661	Dissolved Zinc (Zn)	2022/05/04	100	80 - 120	99	80 - 120	<5.0	ug/L	NC	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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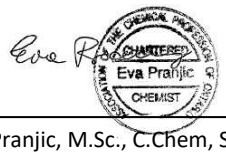
Bureau Veritas Job #: C2B7785
Report Date: 2022/05/04

MTE Consultants Inc
Client Project #: 50996-100
Sampler Initials: KDH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

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RUSH!

Bureau Veritas
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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#6868 MTE Consultants Inc	Company Name:		Quotation #:	B90004	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Monique Gyba	P.O. #:			876943
Address:	520 Bingemans Centre Dr Kitchener ON N2B 3X9	Address:		Project:	50996-100	COC #:	Project Manager:
Tel:	(519) 743-6500 Fax: (519) 743-6513	Tel:	Fax:	Project Name:		C#876943-01-01	Ronklin Gracian
Email:	accounting@mte85.com	Email:	MGyba@mte85.com	Site #:			
				Sampled By:	KDH		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
- ☐ Table 1 ☐ Res/Park ☐ Medium/Fine
- ☐ Table 2 ☐ Ind/Comm ☐ Coarse
- ☐ Table 3 ☐ Agri/Other ☐ For RSC
- ☐ Table ___

Other Regulations
- ☐ CCME ☐ Sanitary Sewer Bylaw
- ☐ Reg 558. ☐ Storm Sewer Bylaw
- ☐ MISA Municipality _____
- ☐ PWQO ☐ Reg 406 Table _____
- ☐ Other _____

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? _____

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Please provide advance notice for rush projects

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(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: May 3/4 Time Required: 1day ☒
Rush Confirmation Number: _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	O.Reg 153 Metals Scan 1,2,2 and 1,2,3									# of Bottles	Comments
1		MW104-22	May 2 2022	11:00	GW	X	X									1	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

03-May-22 14:08
Ronklin Gracian
C2B7785
JRE ENV-1244

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
KAY HARVEY	22/05/03	14:00		2022/05/03	14:08		Time Sensitive	Temperature (°C) on Recei 0/2/-1	Custody Seal Present	Yes ✓	No
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/TERMS-AND-CONDITIONS.

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SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.