

Downtown Brantford Reconstruction

Geotechnical Investigation Report

Project Location:

Brantford, ON

Prepared for:

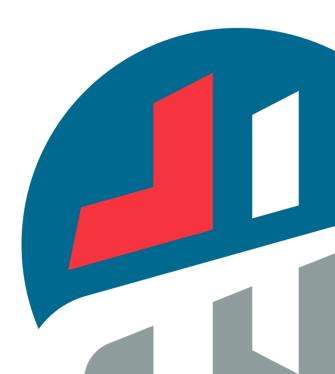
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Executive Summary Downtown Brantford Reconstruction

	Dalhousie Street (full length);				
	` ·				
	Colborne Street from Brant Avenue to Dalhousie Street; Brant Avenue from Ballounia Street to Calhorne Street;				
	Brant Avenue from Dalhousie Street to Colborne Street; Constitution Dalhousie Street to Collogous Street;				
Subject Corridors	King Street from Dalhousie Street to Colborne Street;				
	Queen Street from Dalhousie Street to Colborne Street;				
	Charlotte Street from Dalhousie Street to Colborne Street; and,				
	Clarence Street from Dalhousie Street to Colborne Street.				
Proposed Scope of Work	Replacement of existing services and road surface restoration.				
General Soil Conditions	Pavement structure and/or fill overlying native granular, silt, and glacial till deposits.				
One we deveated	Saturated soil conditions were encountered at various depths within the native granular, silt, and glacial till soils. A summary table of the saturated soil conditions encountered at the time of drilling is provided in Appendix D .				
Groundwater Conditions	Groundwater was measured in the installed monitoring wells in Boreholes MW111-21, MW119-21, MW127-21, MW132-21, MW137-21, and MW146-21 at depths of 2.6 to 3.8 m (Elevation 200.4 to 208.0 m) on July 6, 2021. The water level for Monitoring Well MW137-21 was unable to be collected as the well casing was compromised.				
	Concentrations of lead, benzo(a)pyrene, and dibenz(a,h)anthracene were detected above the 2011 Table 3 SCS within the fill material at Boreholes BH103-21, BH104-21, BH117-21 and BH139-21. The fill materials at Boreholes BH103-21 and BH117-21 were observed to be mixed with debris, coal/ash between approximately 0.8 to 1.4 m and wood fragments between approximately 1.5 to 2.1 m, respectively.				
	Fill materials exhibiting wood fragments at Borehole BH135-21 (between approximately 0.8 to 1.4 m) exceeds the more stringent 2020 Table 3.1 ESQS RPI for PHC Fraction F2 and benzene.				
Environmental Lab Testing Results (Soil)	Concentrations of PHCs F3 and F4/F4G at Borehole BH102-21 and benzo(a)pyrene and dibenz(a,h)anthracene at Borehole BH103-21 were detected above the 2011 Table 3 SCS within the native material beneath the fill. The source of these impacts may be related to the potential historical fuel service station adjacent to the corridor (5-17 Dalhousie Street).				
	Further, the native sandy silt at Borehole BH137-21 which exhibited a hydrocarbon odour (approximately 1.5 to 2.1 m) exceeds the 2020 Table 1 ESQS for hexane. The source of the hexane may be related to the former fuel service station/auto service garage adjacent to the corridor (341 Colborne Street).				
	Additional soil sampling and analysis between and beyond the boreholes noted above should be completed to better define the spatial extent of these impacts.				



	Subgrade Type A - Collector Roadways				
	Component	Thickness			
	HL3 Surface Asphalt	40 mm			
	HL8 Binder Asphalt	90 mm			
	Granular 'A' Base	150 mm			
Recommended	Granular 'B' Subbase	300 mm			
Pavement Design	Subgrade Type A - Arterial Roadways				
	Component	Thickness			
	HL3 Surface Asphalt	40 mm			
	HL8 Binder Asphalt	90 mm			
	Granular 'A' Base	150 mm			
	Granular 'B' Subbase	330 mm			



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1.0 Introduction

MTE Consultants Inc. (MTE) was retained by the City of Brantford to conduct a geotechnical investigation along specific road corridors to support the Downtown Brantford Revitalization Program (the "Corridors"). The road corridors intended for reconstruction are the following:

- Dalhousie Street (full length);
- Colborne Street from Brant Avenue to Dalhousie Street;
- Brant Avenue from Dalhousie Street to Colborne Street;
- King Street from Dalhousie Street to Colborne Street;
- Queen Street from Dalhousie Street to Colborne Street;
- Charlotte Street from Dalhousie Street to Colborne Street; and,
- Clarence Street from Dalhousie Street to Colborne Street.

The location of the corridors are shown on **Figure 1 in Appendix A**.

It is anticipated that the project will involve the full reconstruction of the existing pavement structure and replacement of the existing services along the roadways. Concrete sidewalks, curbs, and gutters are currently present along each side of the roadways and replacement of them are anticipated. Construction depths are anticipated to be approximately 2.0 to 3.0 m along the subject sections of the roadways.

The purpose of this geotechnical investigation is to determine the soil and groundwater conditions along the roadways and provide geotechnical engineering recommendations for site servicing, excavations and dewatering, pavement structure design and construction, and pavement drainage requirements. In addition, soil samples were collected from the investigated locations for laboratory chemical analysis for preliminary soil management.

2.0 Screening Level Phase I ESA Review

Prior to completing the geotechnical investigation, MTE completed a Screening Level Phase I ESA for the Corridors, provided <u>under separate cover</u>. The purpose of the Screening Level Phase I ESA was to identify potential environmental concerns along, or near, the Corridors that may affect soil or groundwater quality.

The findings of this report were used to: determine potential locations for the environmental assessment in conjunction with the geotechnical boreholes to adequately assess areas of potential environmental concern; to develop the preliminary soil and groundwater sampling and analysis work plan for the proposed drilling activities; and to determine the general environmental quality of the on-site soil for preliminary soil management discussion purposes ahead of the planned construction activities.

For the readers' benefit, the current Ministry of Environment, Conservation and Parks (MECP) was previously the Ontario Ministry of the Environment (MOE) and the Ontario Ministry of the Environment and Climate Change (MOECC).

The Screening Level Phase I ESA included:

- Review of environmental information related to the Corridors and surrounding properties including published and online records (as available) from the Ministry of the Environment, Conservation and Parks ("MECP"), Ministry of Natural Resources and Forestry ("MNRF"), Environment Canada, Technical Standards and Safety Authority ("TSSA"), County of Brant and the City of Brantford.
- Review of physical setting information including aerial photographs, topographic maps and geologic reference materials;
- Review of an Environmental Risk Information Services Ltd. ("ERIS") database report for the Corridors and surrounding properties;
- Review of published municipal directories and Fire Insurance Plans (FIPs) applicable for the study area, where available;
- A tour of the Corridors for visual inspection of the property and features;
- An interview request with a key individual knowledgeable about the history of roads construction and maintenance of the Corridors;
- Photographic log of the Corridors; and
- Assessment of known and potential environmental concerns associated with the Corridors and surrounding properties.

2.1 Findings of Screening Level Phase I ESA

The proposed Revitalization Program includes streetscaping and underground infrastructure improvements to support the Downtown Brantford Revitalization Program along the Corridors listed below:

- Colborne Street East from Brant Avenue/Icomm Drive to Dalhousie Street/Colborne Street East Conjunction;
- Dalhousie Street from Brant Avenue to Colborne Street East/ Dalhousie Street junction;
- Brant Avenue from Dalhousie Street to Icomm Dive;
- Clarence Street from Dalhousie Street to Colborne Street East:
- King Street, Queen Street, Charlotte Street all from Dalhousie Street to Colborne Street East;
- Market Street/Square from Dalhousie Street to Colborne Street East; and,
- Brant Avenue/Icomm Drive/Colborne Street East/Colborne Street West intersection.

The Corridors extend approximately 2.1 kilometers (km), beginning at Brant Avenue, continuing easterly along Dalhousie Street and Colborne Street East to the junction between the two streets.

Based on the findings of the Screening Level Phase I ESA, the following potential environmental concerns were identified:

 Dalhousie Street: Several automotive service garages, fuel service stations, dry cleaners, printing facilities and industrial operations (i.e. metal fabrication, steel manufacturing and oil production) were located along the corridor. Additionally, a railway intersects the corridor and two USTs were located within the street, close to 37 and 44 Dalhousie Street.

- Colborne Street East: Several automotive service garages, commercial trucking facilities, fuel service stations, dry cleaners, printing facilities and industrial operations, (i.e. metal fabrication, steel, dye and textile manufacturing, coal gasification and oil production) were located along the corridor. Additionally, a railway intersects the corridor and one USTs was located within the street, close to 458 Colborne Street East.
- Brant Avenue: A commercial/light industrial facility was listed along the corridor as a generator of hazardous waste.
- **King Street:** Multiple automotive service garages, fuel service stations, dry cleaners and industrial operations (i.e. sheet metal, rubber and glass manufacturing and oil production) were located along the corridor.
- Queen: Multiple dry cleaners, a fuel service station, automotive and/or auto body garage, commercial trucking facility and manufacturing facilities were located along the corridor.
- Market Street: Industrial operations, such as a power station and manufacturing faculty
 were located along the corridor. Additionally, a fill and vent pipe were observed at the
 entrance to one of the current buildings.
- Charlotte Street: An auto body garage and potential machine shop were located along the corridor.
- Clarence Street: Several automotive service garages, an oil tank and machine shop were located along the corridor.

A more detailed summary of each potential environmental concern is provided in **Appendix B** and the locations of the potential environmental concerns areas are shown on **Figure 2 in Appendix A**.

Based on a review of available topographic and geological information, the local shallow groundwater in the area is inferred to be flowing in a southerly direction based on topography and the location of the Grand River.

The preliminary findings from this report were considered in the selection of borehole and monitoring well locations for this geotechnical investigation described herein.

3.0 Investigative Program

3.1 Field Program

The fieldwork for this investigation was carried out on April 27 to May 13, 2021 and involved the drilling of forty-eight (48) boreholes (Boreholes BH101-21 to BH148-20) to depths ranging from 0.5 to 5.2 m. It is noted Boreholes BH129-21, BH130-21, and BH131-21 were advanced to depths ranging from about 0.5 to 1.1 m due to existing underground utilities. The locations of the boreholes are shown on **Figure 2 in Appendix A**.

The following boreholes were advanced along each roadway;

- Dalhousie Street BH101-21 to BH121-21
- Brant Avenue BH122-21
- King Street BH123-21
- Queen Street BH124-21

- Charlotte Street BH125-21
- Clarence Street BH126-21
- Colborne Street MW127-21 to BH148-21

Public utility companies were contacted prior to the start of drilling activities in order to isolate underground utilities near the boring locations.

The boreholes were advanced with a Diedrich D50T truck mounted drill rig equipped with continuous flight hollow stem augers and was supplied and operated by London Soil Test Ltd.

Representative soil samples were recovered throughout the depths explored. Standard Penetration Tests (SPT) were carried out during sampling operations in the boreholes using conventional split spoon equipment. Approximate shear strengths of the cohesive deposits were measured with a handheld pocket penetrometer. The SPT N-values and approximate shear strengths recorded are plotted on the borehole logs in **Appendix C**.

Selected soil samples collected from the boreholes (within the proposed construction depths) were subdivided for visual and olfactory screening, combustible soil vapour (CSV) headspace measurements, and/or laboratory chemical analysis. Samples for chemical analysis were collected directly into pre-cleaned, laboratory supplied, test group specific containers. For the analysis of PHC F1 and VOCs/BTEX, soil samples were collected by means of plastic syringe core samplers into Teflon lined screw cap, gas tight glass vials prepared by the subcontracted laboratory with methanol preservative.

Six (6) 50 mm diameter monitoring wells were installed in Boreholes MW111-21, MW119-21, MW127-21, MW132-21, MW137-21, and MW146-21 to allow measurement of stabilized groundwater levels and groundwater sampling and testing. The monitoring wells were installed by inserting a PVC screen and riser pipe into the open augers and a sand pack was placed around the screen with bentonite seal above. A protective aluminum flush mount casing was installed at grade and concreted into place. The monitoring wells were tagged and monitoring well records were submitted to the MECP.

Upon completion of drilling, the remaining boreholes were backfilled with soil cuttings and bentonite in accordance with Ontario Regulation 903.

Excess soil cutting obtained from the borehole locations were contained in steel drums and picked up by Ground Force Environmental Inc. (GFE). The drums were transported to GFE's quarantine area and were disposed of following reception of analytical laboratory testing results.

The fieldwork was monitored throughout by a member of our geotechnical and environmental engineering staff, who directed the drilling procedures; documented the soil stratigraphy; recorded the SPT and approximate shear strength values; monitored the groundwater conditions and monitoring well installations; and transported the recovered soil samples to our office for further classification.

The borehole coordinates and ground surface elevations were surveyed by MTE with a Leica Global Navigation Satellite System (GNSS) rover. The borehole locations are referenced to Canadian Spatial Reference System (CSRS 1997) coordinates with the zone reference (17T) excluded. The geodetic ground surface elevations are based on GNSS and local base station telemetry and have a vertical root mean squared error of less than 20 mm.

3.2 Geotechnical Laboratory Program

All of the soil samples collected were submitted for moisture content testing with the results shown on the borehole logs in **Appendix C**. Additionally, two soil samples were submitted for grain size distribution analyses and five soils samples were submitted for particle size distribution analyses. The results of the geotechnical laboratory testing are provided in **Tables 101 and 102 in Appendix D**. The remaining soil samples will be stored for a period of 3 months and will be discarded of at that time without prior request from the client to extend storage time.

3.3 Environmental Laboratory Program

Environmental analyses were conducted on selected soil samples, representing material considered likely to be excavated or removed as part of the reconstruction project. All samples were submitted to ALS Environmental (ALS), a CALA-accredited laboratory, for analysis of one or more of the parameters of potential concern identified for the subject corridor (as warranted based on field observations and headspace results). A summary of the environmental testing that was conducted is provided in **Appendix E**.

Standard QA/QC protocols for bottle preparation, sample collection and transportation were followed as outlined in the Ministry of Environment's (MOE's) 1996 document entitled, "Guidance on Sampling and Analytical Methods of Use at Contaminated Sites in Ontario". In addition, as noted in Table 3 above, blind field duplicate soil and groundwater samples were submitted to the laboratory for chemical analysis for QA/QC purposes. Refer to the Certificates of Analysis included in **Appendix F** for submission details.

4.0 Soil Conditions

Reference is provided to the appended borehole logs for soil stratigraphy details, SPT N-values, approximate shear strengths, moisture content profiles, and groundwater observations and measurements. Soil conditions encountered along the roadways typically include pavement structure and/or fill overlying native granular, silt, and glacial till deposits.

4.1 Existing Pavement Structure

The existing pavement structure generally comprised of surficial asphaltic concrete underlain by granular base and subbase soils. A summary table of the asphaltic concrete and granular base and subbase soils thicknesses at each borehole location is provided in **Table 201 in Appendix D**.

The range and mean of the asphaltic concrete, granular base and subbase soils for each roadway are summarized in the following table;

Table 1 - Summary of the Existing Pavement Structure

Road Structure	Range	Mean					
Dalhousie Street							
Asphaltic Concrete	80 – 130 mm	90 mm					
Base	130 – 230 mm	190 mm					
Subbase	130 – 580 mm	400 mm					
	Colborne Street						
Asphaltic Concrete	80 – 150 mm	100 mm					
Base	100 – 230 mm	180 mm					
Subbase	150 – 560 mm	450 mm					
	Brant Avenue						
Asphaltic Concrete	130 mm	130 mm					
Base	180 mm	180 mm					
Subbase	480 mm	480 mm					
	King Street						
Asphaltic Concrete	100 mm	100 mm					
Base	180 mm	180 mm					
Subbase	180 mm	180 mm					
	Queen Street						
Asphaltic Concrete	130 mm	130 mm					
Base	180 mm	180 mm					
Subbase	480 mm	480 mm					
	Charlotte Street						
Asphaltic Concrete	110 mm	110 mm					
Base	110 mm	110 mm					
Subbase	230 mm	230 mm					
	Clarence Street						
Asphaltic Concrete	110 mm	110 mm					
Base	140 mm	140 mm					
Subbase	430 mm	430 mm					

The pavement structure granular materials were light brown to dark brown in colour and typically range in composition from sand and gravel to gravelly sand. Cobbles were encountered within the granular subbase soils in numerous boreholes and wood and asphalt fragments were encountered within the granular subbase soils in Boreholes BH131-21 and BH140-21. Black coal/ash seams were also encountered at the bottom of the granular subbase soils in Boreholes BH101-21 and BH102-21 and were 50 mm thick.

Insitu moisture contents in the granular materials range from about 1 to 10% indicating damp to moist conditions.

4.2 Fill

Fill was encountered beneath the pavement structure in Boreholes BH103-21 to BH112-21, BH114-21 to BH128-21, BH130-21 to BH139-21, and BH142-21 to BH148-21 and extended to depths of 0.8 to 2.7 m. It is noted the fill extended to the termination depth of Boreholes BH130-21 and BH131-21. The fill is brown to black in colour and typically ranges in composition from silty sand and gravel to silt with some clay and sand. Topsoil, organics, and wood fragments were encountered within the fill in Boreholes BH117-21, BH118-21, BH121-21, BH135-21, and BH147-21. Brick and debris fragments were encountered within the fill in Boreholes MW111-21, BH128-21, MW132-21, and BH148-21 and coal and ash was encountered within the fill in Borehole BH103-21. Cobbles were encountered within the fill in Boreholes BH105-21, BH135-21, and BH139-21.

SPT N-values in the fill range from 4 to above 50 blows per 300 mm penetration of the split spoon sampler indicating loose to very dense conditions.

Insitu moisture contents in the fill range from about 2 to 25% indicating damp to wet conditions.

4.3 Granular Deposits

Native granular deposits were encountered in all of the boreholes, except Boreholes BH108-21, BH129-21 to BH131-21, and BH138-21. The granular deposits extended to variable depths including the termination depth in the majority of the boreholes. The granular deposits were brown to grey in colour and typically range in composition from sand and gravel to sand and silt. Cobbles were encountered throughout the granular deposits. The results of grain size distribution analyses conducted on samples of the granular deposits are provided in **Appendix D** and summarized in the following table;

Table 2 - Results of Granular Deposits Grain Size Distribution Analyses

Borehole Number	Sample Depth (mbgs)	Gravel (%)	Sand (%)	Fines (%)
BH101-21	1.5 - 2.1	45	45	10
BH113-21	2.3 - 2.9	24	66	10

The results of particle size distribution analyses conducted on samples of the granular deposits are provided in **Appendix D** and summarized in the following table;

Table 3 - Results of Granular Deposits Particle Size Distribution Analyses

Borehole Number	Sample Depth (mbgs)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
MW119-21	2.3 - 2.9	-	78	19	3
BH144-21	2.3 - 2.9	29	65	6	-

SPT N-values measured in the granular deposits range from 3 to above 50 blows per 300 mm penetration of the split spoon sampler indicating very loose to very dense conditions.

Insitu moisture contents in the granular deposits range from about 1 to 27% indicating damp to saturated conditions.

4.4 Silt

Silt deposits were encountered beneath the fill and/or granular deposits in Boreholes BH101-21, BH102-21, BH106-21 to BH108-21, BH112-21, MW119-21, BH122-21, BH124-21, BH125-21, MW127-21, and MW132-21. The silt deposits extended to the termination depth of each borehole, except Borehole BH106-21 where the silt deposit is 1.7 m thick. The silt is brown to grey in colour and typically ranges in composition from silt and sand to silt and clay. The results of a particle size distribution analysis conducted on a sample of the silt are provided in **Appendix D** and summarized in the following table;

Table 4 - Results of Silt Particle Size Distribution Analysis

Borehole Number	Sample Depth (mbgs)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
MW127-21	3.0 - 3.7	-	11	82	7

SPT N-values measured in the silt range from 4 to 21 blows per 300 mm penetration of the split spoon sampler indicating loose to compact conditions. Approximate shear strengths measured in the cohesive portions of the silt ranged from about 25 to 50 kPa, indicating soft to stiff consistencies.

Insitu moisture contents in the silt range from about 11 to 37%. The non-cohesive portions of silt appeared to range from very moist to saturated conditions. The cohesive portions of silt appeared to be wetter than the plastic limit.

4.5 Glacial Till

Glacial till was encountered beneath the fill and/or granular deposits in Boreholes BH107-21, BH109-21, BH110-21, BH121-21, BH133-21, BH134-21, BH138-21, BH140-21, and BH144-21. The till extended to the termination depth of each borehole, except Boreholes BH107-21 and BH121-21 where the till was 1.1 m and 0.6 m thick, respectively. The till is brown to grey in colour and typically ranges in composition from silt with some clay to sandy silty gravel. The results of particle size distribution analyses conducted on samples of the glacial till are provided in **Appendix D** and summarized in the following table;

Table 5 - Results of Glacial Till Particle Size Distribution Analyses

Borehole Number	Sample Depth (mbgs)	Gravel (%)	Sand (%)	Silt (%)	Clay (%)
BH107-21	1.5 - 2.1	4	14	65	17
BH138-21	1.5 - 2.1	39	27	22	12

SPT N-values measured in the till range from 6 to 44 blows per 300 mm penetration of the split spoon sampler indicating loose to dense conditions.

Insitu moisture contents in the till range from about 8 to 26% indicating moist to saturated conditions.

5.0 Groundwater Conditions

Groundwater observations and measurements were carried out in the open boreholes at the time of drilling and are summarized on the borehole logs. Saturated soil conditions were encountered at various depths within the native granular, silt, and glacial till soils. A summary table of the saturated soil conditions encountered at the time of drilling is provided in **Table 301** in **Appendix D**.

As previously discussed, monitoring wells were installed at the locations of Boreholes MW111-21, MW119-21, MW127-21, MW132-21, MW137-21, and MW146-21 to facilitate the collection of groundwater samples and measurement of groundwater elevation. Water level measurements taken on July 6, 2021 are summarized in the following table;

Table 6 - Water Level Measurements Taken on July 6, 2021

Borehole Number	Borehole Elevation (masl)	Groundwater Depth (mbgs)	Groundwater Elevation (masl)
MW111-21	203.7	2.6	201.1
MW119-21	204.6	3.0	201.6
MW127-21	211.8	3.8	208.0
MW132-21	205.2	3.0	202.2
MW137-21	208.4	N/A*	N/A*
MW146-21	203.7	3.3	200.4

^{*}Note: The water level for Monitoring Well MW137-21 was unable to be collected as the well casing was compromised

It should be noted that the groundwater levels can vary and are subject to seasonal fluctuations and local variations.

6.0 Environmental Soil Test Results

Headspace screening of organic vapour concentrations was conducted using a RKI Eagle II meter. The field headspace readings were generally measured to be between 0 parts per million (ppm) and 25 ppm for organic vapour, indicative of low concentrations of volatiles in the recovered soil samples. Headspace readings between 35 and 40 ppm were recorded at Borehole MW137-21, associated with a hydrocarbon odour (as noted below).

The following indicators of possible environmental impact were noted:

- Black fill with possible coal/ash or weathered hydrocarbons was noted within the fill material at Boreholes BH101-21 (0.7 mbgs), BH102-21 (0.8 mbgs), BH103-21 (0.6 mbgs);
- Debris (i.e. clay bricks) was noted at Boreholes MW111-21 (0.9 mbgs) and BH128-21 (1.5 mbgs);
- Asphalt encountered within the roadway granulars at Boreholes BH131-21 and BH140-21:
- Trace red brick within the fill at Boreholes MW132-21 (0.8 mbgs) and BH148-21 (0.7 mbgs);

- Hydrocarbon odour and associated staining was encountered at Borehole MW137-21 (between 1.5 and 2.3 mbgs); and
- Slight hydrocarbon odour was encountered within the fill material at Borehole BH146-21 (0.8 mbgs).

The Corridors as a "Project Area" were assessed in 2021 during the transitional period for the MECP's new Ontario Regulation 406/19 for Excess Soil and the associated Rules for Soil Management and Excess Soil Quality Standards ("Rules"), and well in advance of the final reconstruction design stage when the actual volume and locations of excess soil to be generated will be determined.

Note 1: For ease of discussion in the following sections, the following definitions are provided:

- 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). Prior to 2021, commonly used to determine excess soil quality.
- 2020 Excess Soil Quality Standards ("ESQS") As identified in Appendix 1 of the Rules for Soil Management adopted by reference in O. Reg. 406/19 made under the Environmental Protection Act (December 8, 2020). Current applicable Standards to determine excess soil quality.

Note 2: 2011 Table 1 SCS are identical to 2020 Table 1 ESQS.

Note 3: 2020 Table 3.1 ESQS are generally equal to, or more stringent than, their respective 2011 Table 3 SCS for a non-potable groundwater condition (depending on the subject parameter).

To determine the general environmental quality of the soil and groundwater within the work area in relation to **on-site reuse**, the soil results have been compared to the 2011 Table 3 Full Depth Generic Site Condition Standards (SCS) in a Non-Potable Groundwater Condition of the "Soil, Groundwater and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" (April 15, 2011) for industrial/commercial/community property use and all types of property use with coarse textured soils, respectively (the "2011 Table 3 SCS").

Excess soil is typically generated during road construction activities requiring export off-site. To determine appropriate **off site reuse/disposal/management** options for excess soils resulting from the construction activities, which are planned in 2023, the analytical results have also been compared to the 2020 Table 1 Full Depth Background Excess Soil Quality Standards (ESQS) for residential/parkland/institutional/industrial/commercial/community property use ("2020 Table 1 ESQS") and the Table 3.1 Full Depth Generic ESQS) in a Non-Potable Groundwater Condition for residential/parkland/ institutional (RPI) and industrial/commercial/ community (ICC) property use from Appendix 1 of the Rules for Soil Management associated with O.Reg.406/19 (the "2020 Table 3.1 ESQS").

6.1 Soil Quality

The results of the soil chemical analyses are summarized in **Tables 401 to 405** and **501 to 505** in **Appendix E** and copies of the ALS Laboratory Certificates of Analysis are included in **Appendix F**.

The analytical results for the selected soil samples representing the proposed work area along the Corridors (or Project Area) indicate that Metals, PAH and/or PHC related concentrations exceed the 2011 Table 3 SCS along Dalhousie Street and Colborne Street. In addition, SAR and EC (salt) levels exceed the above-noted criterion at varying depths, generally across the Corridors.

The impacted soils throughout the Corridors are further summarized below:

Table 7 – On-site Reuse: Locations Exceeding the 2011 Table 3 SCS (thus considered to be impacted and not suitable for reuse at another property)

Sample ID	Subject Corridor	Approx. Depth (mbgs)	Soil Type	Parameter Exceeding Table 3 Standards
All analyzed locations	Each Subject Corridor	Various	Fill and native soils	SAR and/or EC
BH102-21 SS2		0.8-1.4	Native sand and gravel	PHC F3 and F4G
BH103-21 SS2		0.8-1.4	Fill (some black coal/ash)	DALL
BH103-21 SS3	Dalhousie Street	1.5-2.1	Native sand	PAHs: Benzo(a)pyrene and Dibenz(a,h)anthracene
BH104-21 SS2		0.8-1.4	Fill	
BH117-21 SS3		1.5-2.1	Fill (some organics/topsoil and wood fragments)	Lead
BH139-21 SS2	Colborne Street	0.8-1.4	Fill	Lead

Toxicity Characteristic Leachate Procedure (TCLP) analyses for VOCs, Metals and Inorganics, and /or Benzo(a)pyrene were subsequently conducted on the impacted fill material at Boreholes BH104-21 and BH117-21. The results of TCLP analysis confirm that the material meets the O.Reg. 347 Schedule 4 leachate criteria (**Appendix F**), and is characterized as non-hazardous for disposal purposes.

The following table summarizes the locations where the analyzed parameters were detected at concentrations exceeding the 2020 Table 1 ESQS and Table 3.1 ESQS).

Table 8 – Off-site Re-use: Locations Exceeding the 2020 Table 1 ESQS and 2020 Table 3.1 ESQS (and thus may result in some restriction for off-site reuse at another property)

Sample ID	Subject Corridor	Approx. Depth (mbgs)	Soil Type	Parameter Exceeding Table 1 RPI/ICC ESQS	Parameter Exceeding Table 3.1 RPI ESQS	Parameter Exceeding Table 3.1 ICC ESQS
BH106-21 SS2	Dalhousie Street	0.8-1.4	Fill	PHC F4 and F4G	N/A	N/A
BH109-21 SS2		0.8-1.4	Fill	PHC F4 and F4G	N/A	N/A
BH122-21	Icomm Drive	0.8-1.4	Fill	Antimony	N/A	N/A
BH131-21 SS2	Colborne	0.8-1.1	Fill	PHC F4, F4G, Benzene	Benzene	N/A
BH135-21 SS2	Street	0.8-1.4	Fill (some organics and wood fragments)	PHC F2 and Benzene	PHC F2 and Benzene	N/A

Sample ID	Subject Corridor	Approx. Depth (mbgs)	Soil Type	Parameter Exceeding Table 1 RPI/ICC ESQS	Parameter Exceeding Table 3.1 RPI ESQS	Parameter Exceeding Table 3.1 ICC ESQS
BH137-21 SS3		1.5-2.1	Native sandy silt (hydrocarbon odour)	Hexane	N/A	N/A
BH143-21 SS2		0.8-1.4	Fill	PHC F4G	N/A	N/A

All other results indicate that the analyzed soils meet the 2020 Table 1 and Table 3.1 ESQS (RPI and ICC) for the analyzed parameters and are therefore suitable for reuse at another property.

7.0 Discussion and Recommendations

The "Project" will involve the full reconstruction of the existing pavement structure and replacement of the existing services along the following roadways in downtown Brantford, Ontario:

- Dalhousie Street (full length);
- Colborne Street from Brant Avenue to Dalhousie Street;
- Brant Avenue from Dalhousie Street to Colborne Street;
- King Street from Dalhousie Street to Colborne Street;
- Queen Street from Dalhousie Street to Colborne Street;
- Charlotte Street from Dalhousie Street to Colborne Street; and,
- Clarence Street from Dalhousie Street to Colborne Street.

The subsurface stratigraphy along the roadways generally comprises pavement structure and/or fill overlying native granular, silt, and glacial till deposits. Saturated soil conditions were encountered at various depths within the native granular, silt, and glacial till soils and are summarized on **Table 301 in Appendix D**. Groundwater was measured in the installed monitoring wells in Boreholes MW111-21, MW119-21, MW127-21, MW132-21, MW137-21, and MW146-21 at depths of 2.6 to 3.8 m (Elevation 200.4 to 208.0 m) on July 6, 2021. The water level for Monitoring Well MW137-21 was unable to be collected as the well casing was compromised.

Based on the results of this geotechnical investigation, full reconstruction of the pavement structure and service replacement is feasible for the roadways; however, the encountered groundwater conditions will affect design and construction. The following subsections of this report contain geotechnical and environmental recommendations pertaining to excess soil management, site servicing, excavations and dewatering, pavement structure design and construction, and pavement drainage requirements.

7.1 Preliminary Excess Soil Management

7.1.1 Excess Soil in Ontario – Regulatory Update and Discussion

Ontario Regulation (O. Reg.) 406/19 and the associated Rules for Soil Management and Excess Soil Quality Standards (the Rules) became law on January 1, 2021, with some components coming to effect at that time and some components to be phased in between January 1, 2022 and 2025. However, most recently on April 20, 2022, The MECP paused certain requirements of the regulation until January 1, 2023 when they will be restarted. Most notably, the following Planning Documents are paused for the remainder of 2022:

- 1. Assessment of Past Uses
- 2. Sampling and Analysis Plan (including minimum sample frequency and parameter testing)
- 3. Characterization Report
- 4. Soil Destination Report
- 5. Soil tracking
- 6. Online (public) Registry

Based on the planned construction schedule (after January 1, 2023), this Project may be captured under the Regulation unless other exemptions can be demonstrated as applicable.

Project exemptions to the above-noted major Planning Documents (Items 1 to 3 above) can be demonstrated if soil-related studies have already been completed before January 1, 2022 to avoid repeat work/effort. In addition, movements of soil from one infrastructure project to another infrastructure project are exempt, with temporary storage allowed between such projects, if applicable for the City.

In the event that no pause or exemption to the Planning Requirements of the Regulation are available when the project commences, then the Registration, Planning and soil tracking requirements would be triggered by any of the following:

- 1. If the Project Area is within or includes an Enhanced Investigation Property such as an industrial use, auto service garage, retail fuel outlet or dry cleaner;
- 2. A volume of greater than 2,000 m³ of excess soil to be generated; or
- 3. If the purpose of the excavation is to remediate soil.

Although the Screening Level Phase I ESA and preliminary soil sampling and analysis completed do not meet all of the requirements defined in the Regulation or Rules, due to the nature of the pre-design process, completing preliminary assessment of related to past uses and excess soil sampling and analysis in conjunction with this geotechnical investigation is considered a **reasonable and very appropriate** "**first step**". However, it is possible that additional work associated with excess soil management will be required at a future time (e.g. expanding upon existing information to meet the Planning Requirements).

The ultimate step in determining whether or not the Planning Requirements under the new Regulation apply and to what extent, is through the subsequent design work when the volume of excess soil will be confirmed. It is recommended that the above-noted Planning Requirements be considered during the design stage and that supplemental excess soil assessment and reporting, if required, be reviewed a minimum of four to six months ahead of the planned construction.

Regardless of the above, as a minimum the Project Leader (typically the owner, not the contractor) will be responsible for the following:

- Understanding and determining appropriate reuse and disposal sites, and obtaining written consent from the reuse site(s) before excess soil from this project can be received.
- A written procedure outlining the process and steps to be taken, should impacted soils be encountered during construction (e.g. visual/olfactory) must be prepared for the Project.
- Understanding and adhering to soil storage requirements including management of:
 noise; dust; mud tracking; run-off and erosion; leaching into groundwater, and potential
 odour issues. Soils tested and found to be of different quality must be segregated.
 Individual stockpiles must not exceed 2,500 m³ each, and must be placed greater than
 10 m from a property boundary (not applicable for linear infrastructure projects) or 30 m
 from a water body.

If soils are contaminated, such material must be transported using MECP licensed haulers. Vehicles transporting/hauling of excess soil must be safe, appropriate, leak proof (if applicable), covered when appropriate, etc. All vehicle operators will be expected to know, and provide the following information (written or electronic record), if requested: loading location, date/time it was loaded, quantity, contact information for person in charge at project area, transport company/driver information, license plate, and reuse site location.

At a minimum, the above information should be considered in preparation of construction tenders and documents.

7.1.2 Summary of Findings

Concentrations of lead, benzo(a)pyrene, and dibenz(a,h)anthracene were detected above the 2011 Table 3 SCS within the fill material at Boreholes BH103-21, BH104-21, BH117-21 and BH139-21. The fill materials at Boreholes BH103-21 and BH117-21 were observed to be mixed with debris, coal/ash between approximately 0.8 to 1.4 m and wood fragments between approximately 1.5 to 2.1 m, respectively.

Fill materials exhibiting wood fragments at Borehole BH135-21 (between approximately 0.8 to 1.4 m) exceeds the more stringent 2020 Table 3.1 ESQS RPI for PHC Fraction F2 and benzene. Additional debris (coal/ash and bricks) was noted at Boreholes BH101-21 (0.7 m), BH102-21 (0.8 m), MW111-21 (0.9 m) and BH128-21 (1.5 m).

Concentrations of PHCs F3 and F4/F4G at Borehole BH102-21 and benzo(a)pyrene and dibenz(a,h)anthracene at Borehole BH103-21 were detected above the 2011 Table 3 SCS within the native material beneath the fill. **The source of these impacts may be related to the potential historical fuel service station adjacent to the corridor (5-17 Dalhousie Street).**

Further, the native sandy silt at Borehole BH137-21 which exhibited a hydrocarbon odour (approximately 1.5 to 2.1 m) exceeds the 2020 Table 1 ESQS for hexane. The source of the hexane may be related to the former fuel service station/auto service garage adjacent to the corridor (341 Colborne Street).

Additional soil sampling and analysis between and beyond the boreholes noted above should be completed to better define the spatial extent of these impacts.

In addition, SAR impacted soils with levels above one or more of the 2020 ESQS were identified at variable depths, generally across the work area. The detection of elevated levels of SAR is an indication of de-icing road salt impacts. SAR is a parameter of ecological significance, which is a measure of the exchange of sodium and calcium and magnesium ions on the permeability of aggregate soils. As such, given that the elevated levels of SAR are likely related to de-icing activities and are parameters of ecological significance, they are not considered contaminants of concern in accordance with O.Reg. 153/04, as amended. However, an intended receiver of any excess soil from this work area must be made aware of the elevated levels of SAR (salt use related), so that they may place, or dispose of the soil appropriately and in accordance with the Soil Rules.

7.1.3 Excavation and Excess Soil Management Options

The discussion and recommendations provided herein are based on:

- 1. Components of Regulation 406/19 and its associated Rules;
- 2. Current industry best management practices; and,
- 3. The soil samples collected and analyzed from the forty-eight (48) boreholes (Boreholes BH101-21 to BH148-20) completed for this assignment between April 27 to May 13, 2021 only.

It is noted that the final requirements for the management of excess soil for the project must be reviewed at the on-set of the design stage, once the estimated volume of excess soil is determined.

A. Contaminated Soils - Above the 2011 Table 3 SCS

Based on the analytical results, the Metals, PAH and PHC impacted fill material at Boreholes BH102-21, BH103-21, BH104-21, BH117-21 and BH139-21 should be delineated, separated and transferred to an appropriate reuse/disposal site.

In accordance with O.Reg. 406/19, appropriate receivers may include:

- MECP licensed landfill/waste receiver (prior to 2025 and via MECP licensed haulers);
- Class 1 Soil Management Sites; and
- Local Waste Transfer Facility.

TCLP analysis indicates that the impacted fill material at Boreholes BH104-21 and BH117-21 are characterized as non-hazardous for disposal purposes.

It is recommended that these fill materials be handled by workers with caution. The contractor should include appropriate precautions with respect to handling impacted soil in their Health and Safety Plan for the duration of the excavation(s) and construction.

B. On-Site Reuse

All remaining soils analyzed at the investigated locations are considered to be environmentally suitable for reuse within the Project Area, if geotechnically suitable and if placed beneath asphalt and not along a property boundary. Any reuse of the on-site soils (all assumed to be impacted by salt) should be restricted to below a 1.5 m depth within the boulevards and, as such, assumed to be below penetration depths of plant root systems.

MTE notes that due to the presence of organics and/or debris, some existing fill material may not be geotechnically suitable for on-Site reuse.

C. Excess Soil – Above the 2020 Table 3.1 RPI ESQS (below 2020 Table 3.1 ICC ESQS)

Reuse Site options for the PHC and benzene fill material above the 2020 Table 3.1 RPI ESQS (but below the 2020 Table 3.1 ICC ESQS) at Boreholes BH131-21 and BH135-21 may include, but may not be limited to:

- Other ICC development projects, in accordance with the Soil Rules;
- Site Alteration Permit Properties (SAPPs) having appropriate approval to accept such PHC, benzene and salt-impacted soil;
- Class 2 Soil Management Sites;
- Local Waste Transfer Facility; and
- Class 1 Soil Management Sites.

Should excess soil be exported from the Project Area for off-site reuse, such soils must be free of staining, PHC or solvent-like odours, and/or debris.

D. Excess Soil – Above Table 1 ESQS (All Other Concentrations Below the Table 3.1 RPI and ICC ESQS) and Salt Impacted Soils

All remaining soil (excluding soils described under A, C and D above) are considered to be environmentally suitable for reuse at an appropriate reuse site, however, the antimony, PHC, hexane, and SAR/ EC levels (at the boreholes identified in Table 8 above) must be considered. Should excess soil be exported from the work area for off-site reuse, such soils must be free of staining; PHC- or solvent-like odours, and/or debris.

Reuse Site options may include, but may not be limited to:

- Other development projects, in accordance with the Soil Rules;
- Site Alteration Permit Properties (SAPPs) having appropriate approval to accept such PHC- and salt-impacted soil; and
- Aggregate pits having appropriate approval to accept such <u>salt-impacted soil.</u>

The deposit of the material on a Reuse Site (described under C and D above) is also subject to the following conditions:

- 1. The updated analytical results documented herein should be forwarded to the owner/manager of the Reuse Site(s) prior to proceeding with the shipment of soil.
- 2. In accordance with O. Reg. 406/19, the Reuse Site must provide written consent to accept the soil.
- 3. The intended Reuse Site must be made aware of the elevated levels of SAR/EC, so that they may dispose of, or place, the soil appropriately and in accordance with the Soil Rules (Rules for Specific Soil Types Salt Impacted Excess Soil). For example, the excess soil is placed at least 1.5 m below the surface of the soil, and is not finally placed within 30 m of a waterbody; or within 100 m of a potable water well or area with an intended property use that may require a potable water well.
- 4. The Reuse Site must have a beneficial purpose for the material being imported and the quantity of soil must be suitable and placed for that purpose. Consultation with a geotechnical engineer may be required.
- 5. The moisture content of the material is suitable for transportation.

6. The excess soil must be finally placed no later than two years after it is deposited at the Reuse Site.

Other considerations should include:

- Ensuring appropriate drainage patterns are maintained during and following placement at the Reuse Site.
- Ensuring the protection of natural heritage features (wetlands and woodlands) during the and following placement at the receiving site, including the use of erosion controls.

Alternatively, these soils could also be transferred to Class 1 or Class 2 Soil Management Sites or a Local Waste Transfer Facility.

The subsurface soil condition and environmental quality of the soils within the work area may vary between and beyond the borehole and sampled locations. If soils are encountered during the construction activities that appear to have been environmentally impacted and not addressed herein, these soils should be segregated into separate stockpiles (plastic sheeting placed below and above the stockpile), inspected, and sampled and analyzed at that time to determine appropriate handling and/or disposal requirements.

7.2 Site Servicing

7.2.1 Excavations

It is understood that the existing services will replaced along the roadways. It is anticipated that the services will be constructed at conventional depths extending up to 3.0 m below grade.

Temporary excavations to conventional depths for installation of underground pipes at this site must comply with the Ontario Occupational Health and Safety Act and Regulations for Construction Projects. The predominate soils encountered along the roadways are classified as Type 3 soils (O. Reg. 213/91, s. 226 (4)). Temporary side slopes through this material must be cut at an inclination of 1.0 horizontal to 1.0 vertical or less from the base of the excavation, exclusive of groundwater effects. Where wet to saturated conditions are encountered, excavation side slopes should be expected to slough to flatter inclinations, potentially 3.0 horizontal to 1.0 vertical or flatter.

Trench side slopes must be continuously inspected especially after periods of heavy rainfall or snow melt to identify areas of instability. Surface water should be directed away from entering the trench.

Where spatial limitations (from utility poles, existing underground services, above ground structures, etc.) do not permit overburden cut slopes at the inclinations above, a steeper cut slope can be employed if trench boxes are used to protect workers. Some movement or slumping of the soils adjacent to the trench box should be expected if this option is used.

7.2.2 Dewatering

Moderate to significant groundwater inflow should be expected where excavations extend into the saturated granular deposits encountered throughout the roadways. Groundwater was measured in the installed monitoring wells in Boreholes MW111-21, MW119-21, MW127-21, MW132-21, MW137-21, and MW146-21 at depths of 2.6 to 3.8 m (Elevation 200.4 to 208.0 m) on July 6, 2021. The water level for Monitoring Well MW137-21 was unable to be collected as the well casing was compromised.

If excavations extend to these depths, proactive dewatering will be required in these areas to allow for a stable and dry excavation to permit the installation of the services. It is our opinion that extensive pumping may be required to handle the groundwater infiltration in these areas.

It will be necessary to flatten or support the excavation side slopes where groundwater seepage is occurring to ensure stability. Every excavation that a worker may be required to enter shall be kept reasonably free of water (O. Reg. 213/91, s. 230).

It should be noted that an Environmental Activity and Sector Registry (EASR) or Permit to Take Water (PTTW), issued by the Ministry of Environment, Conservation and Parks, will be required if the dewatering system/sumps result in a water taking of more than 50,000 L/day to 400,000 L/day, respectively. The design of the dewatering system should be left to the contractor's discretion to control groundwater at least 0.5 m below the invert level in order to provide stable excavation base. The contractor should notify the prime consultant in the event that he feels that an EASR/PTTW will be needed.

7.2.3 Pipe Bedding

It is anticipated that the invert elevations of the pipes will be at conventional 2 to 3 m depths below ground surface. No bearing problems are anticipated for pipes set on properly dewatered native inorganic subsoil. The bedding material may need to be thickened if excavations encounter soft or spongy soil at the base of the service trench.

The existing fill soils are not suitable to support pipes without undergoing possible detrimental post-construction settlement. The fill should be subexcavated from below the pipes and replaced with granular fill (compacted to a minimum of 95% standard Proctor maximum dry density (SPMDD)), a Controlled Density (flowable) Fill material, or the pipes should be constructed in structurally supported pipe conduits.

Pipe bedding for services should be conventional Class 'B' pipe bedding comprising a minimum 150 mm thick layer of OPSS 1010 Granular 'A' aggregate below the pipe invert. Granular 'A' type aggregate should be provided around the pipe to at least 300 mm above the pipe and the bedding aggregate should be compacted to a minimum 98% SPMDD, as per The City of Brantford's Linear Municipal Infrastructure Standards - Design and Construction Manual, dated January 2021.

A well-graded clear stone such as Coarse Aggregate for HL4 Asphaltic Concrete (OPSS 1003) could be used in the sewer trenches as bedding below the spring line of the pipe to facilitate sump pump dewatering, if necessary. The clear stone should be compacted with a plate tamper and fully wrapped with a non-woven geotextile to prevent the migration of fine particles from the saturated soils.

7.2.4 Trench Backfilling

The trenches above the specified pipe bedding should be backfilled with inorganic on-site soils placed in maximum 300 mm thick lifts and compacted to at least 98% SPMDD, as per The City of Brantford's Linear Municipal Infrastructure Standards - Design and Construction Manual, dated January 2021. Organic materials and debris fragments were encountered within the fill and are not considered suitable for reuse as trench backfill and should be separated. Based on the analytical testing, the non-organic soils on the site are environmentally suitable for reuse for this purpose, with exception of the soil samples exceeding the Table 3 SCS and observed to contain deleterious materials (see Section 6.0 and 6.1 above for further details). These locations within 2011 Table 3 SCS were collected from Boreholes BH102-21, BH103-21, BH104-21, BH139-21. Debris (coal/ash, brick or asphalt) was additionally noted in Boreholes BH101-21, MW111-21, BH128-21, BH131-21, MW132-21, BH140-21, and BH148-21.

Wet or saturated native soils are not considered suitable for reuse as trench backfill. Any additional material required at the site should comprise imported inorganic soils such as OPSS 1010 Select Subgrade Material.

To minimize potential problems, backfilling operations should follow closely after excavation so that only a minimal length of trench is exposed. Care should be taken to protect side slopes of excavations by diverting surface run-off away from the excavations. If construction extends into the winter, then additional steps should be taken to minimize frost and ensure that frozen material is not used as backfill.

7.3 Surface Works

7.3.1 Curbs, Gutter, and Sidewalks

The concrete for curbs, gutters and sidewalks should be proportioned, mixed, placed and cured in accordance with the requirements of OPSS 353, and OPSS 1350 and shall meet the following specific requirements (OPSS 353.05.01):

- Minimum compressive strength = 32 MPa at 28 days
- Coarse aggregate = 19.0 mm nominal max. size
- Maximum slump = 60 mm for curbs and gutter, 70 mm for sidewalks
- Air entrainment = $6.5 \pm 1.5\%$

A minimum of 150 mm of OPSS 1010 Granular 'A' material compacted to at least 98% SPMDD is required as a base for curbs and sidewalks. During cold weather any freshly placed concrete must be covered with insulating blankets to protect against freezing as per OPSS 904. Three cylinders from each day's pour should be taken for compressive strength testing. Air entrainment, temperature and slump tests should be conducted on the same batch of concrete from the test cylinders made.

7.3.2 Pavement Construction

Replacement of the services and a full reconstruction of the pavement structure is proposed along the subject roadways. The full reconstruction of the pavement structure would consist of removing the existing pavement structure materials and placement of imported OPSS 1010 Granular 'B' subbase soils, OPSS 1010 Granular 'A' base soils and hot-mix asphalt.

The existing fill materials are generally considered suitable to be left below the road structure. The subgrade soils **should be proof rolled and inspected by qualified geotechnical personnel** to ensure stability. Areas with excessive organic content and/or topsoil must be subexcavated and if the subgrade is wet and unstable, additional granular subbase will be required. Depending on finished grades at the site the pavement subgrade soils will comprise of compacted trench backfill, existing fill materials, or native soils.

It is understood that the subject roadways would be classified as either collector or arterial roadways. The pavement component thicknesses in the following table are recommended based on the proposed pavement usage and the frost-susceptibility and strength of the subgrade soils and The City of Brantford's Linear Municipal Infrastructure Standards - Design and Construction Manual, dated January 2021.

Table 9 - Pavement Design

Pavement Component	Subgrade Type A - Collector Roadways	Subgrade Type A - Arterial Roadways	
HL3 Surface Hot Mix Asphalt	40 mm	40 mm	
HL8 Binder Hot Mix Asphalt	90 mm	90 mm	
OPSS 1010 Granular 'A' Base	150 mm	150 mm	
OPSS 1010 Granular 'B' Subbase	300 mm	330 mm	

Samples of aggregates should be checked for conformance to OPSS 1010 prior to utilization on-site and during construction. The Granular 'B' subbase and Granular 'A' base courses must be compacted to 100% SPMDD, as verified by insitu density testing.

The hot mix asphalt paving materials should conform to the requirements of OPSS 1150. The asphalt should be placed and compacted in accordance with OPSS 310. The Performance Graded Asphalt Cement (PG-AC) designation for the asphaltic concrete is 58-28.

The surface asphalt should be placed in one lift. The binder asphalt should be placed in two lifts. It is recommended to place the surface asphalt as soon as possible following placement of the binder asphalt to ensure the full pavement strength is provided for regular traffic.

A joint transition treatment will be required where old and new pavement meet. Provided the existing pavement is 100 mm thick or greater, the recommended transition treatment comprises milling of the old surface layer approximately 0.3 m wide and 50 mm deep. Where the existing pavement is less than 100 mm thick, the transition treatment should comprise saw cutting the existing asphalt to provide a clean face to tie the new asphalt into.

It is recommended to clean all of the construction joints with stiff bristle brooms and compressed air to remove all dirt, dust, and other foreign matter. A tack coat should be applied to all construction joints prior to the placement of hot mix asphalt to ensure an adequate bond is achieved between the pavement layers.

The necessity for continuous repair work and paving supervision as well as quality assurance testing during road reconstruction projects cannot be over emphasized. An annual maintenance program is also recommended to maintain the pavements at a suitable level.

The pavement design is based on the assumption that construction will be carried out during the drier time of the year and that the subgrade soil is stable as determined by proof-rolling inspected by qualified geotechnical personnel. The subgrade and subbase materials can be significantly damaged and lose internal strength if construction is conducted in unfavorable weather. If the subgrade is wet and unstable, additional granular subbase will be required.

All materials and construction services required for the work should be in accordance with the relevant sections of the Ontario Provincial Standard Specifications.

7.3.3 Pavement Drainage

Adequate subsurface drainage is considered critical to the performance and lifespan of pavement. The pavement subgrade should be sloped at a minimum of 3% to promote drainage, and the pavement granular courses and asphalt should be sloped at a minimum of 2% to promote rainwater drainage. Surface water should not be allowed to pond along the outside pavement edges.

It is recommended that continuous pavement subdrains should be constructed to drain the pavement structure. The purpose of the subdrains is to remove excess subsurface water in order to improve overall pavement serviceability and increase the pavement life.

The work of subdrain installation shall be in accordance with OPSS 405 and OPSD 216.021. The subdrain shall be 150 mm diameter perforated pipe conforming to OPSS 1801 or 1840, and prewrapped with geotextile conforming to OPSS 1860. A typical detail of a pavement subdrain is provided on **Figure 3 in Appendix A**.

7.3.4 Construction Inspection and Testing

MTE recommends that geotechnical inspection and testing procedures be conducted throughout the various phases of the project.

Engineer site visits should be conducted to confirm suitable subgrade conditions and soil compaction testing should be carried out on trench backfill. Imported granular materials should be tested for conformance to specifications prior to importation to the site. Field compaction testing of the pavement structure components (granulars and hot mix asphalt) should be conducted. Samples of the hot mix asphalt should be collected during pavement and laboratory testing for compliance completed. It is recommended to collect hot mix asphalt samples at a minimum frequency of 1 sample for each 500 tonnes placed onsite.

During placement of concrete at the site, testing should be performed onsite to confirm the slump and air content of the concrete are within specifications. Concrete test cylinders should be cast for compressive strength testing from the same samples tested for slump and air content. Concrete should be tested at a frequency of once every 100 m³ or daily, whichever is greater.

MTE offers soil compaction, concrete, and asphalt testing, as well as soil inspection services through our Stratford and London offices.

8.0 Limitations of Report

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 Geotechnical Engineering & Consulting profession practicing under similar conditions in the same geographic area were the services are provided. 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 the Client. This report is not intended to be exhaustive in scope or to imply a risk-free site. As such, this report may not deal with all issues potentially applicable to the site and may omit aspects which are or may be of interest to the reader.

In addition, it should be recognized that a soil sample result represents one distinct portion of a site at the time it is collected, and that the findings of this report are based on conditions as they existed during the time period of the investigation. The material in the report reflects our best judgment using the information available at the time the report was written. The soil and groundwater conditions between and beyond the test holes may differ from those encountered in the test holes. Should subsurface conditions arise that are different from those in the test holes MTE should be notified to determine whether or not changes should be made as a result of these conditions.

It should be recognized that the passage of time may affect the views, conclusions and recommendations (if any) provided in this report because conditions of a property can change, along with regulatory requirements. All design details were not known at the time of submission of this report and it is recommended MTE should be retained to review the final design documents prior to construction to confirm they are consistent with our report recommendations. Should additional or new information become available, MTE recommends that it be brought to our attention in order that we may determine whether it affects the contents of this report.

Any use which another party makes of this report, or any reliance on, or decisions to be made based upon it, are the responsibility of such parties. MTE accepts no responsibility for liabilities incurred by or damages, if any, suffered by another 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. The contractors bidding on this project or undertaking the construction should make their own interpretation of the factual information and draw their own conclusions as to how subsurface conditions may affect their work.

The benchmark and elevations provided in this report are primarily established to identify differences between the test hole locations and should not be used for other purposes such as, planning, development, grading, and excavation.

All of which is respectfully submitted,

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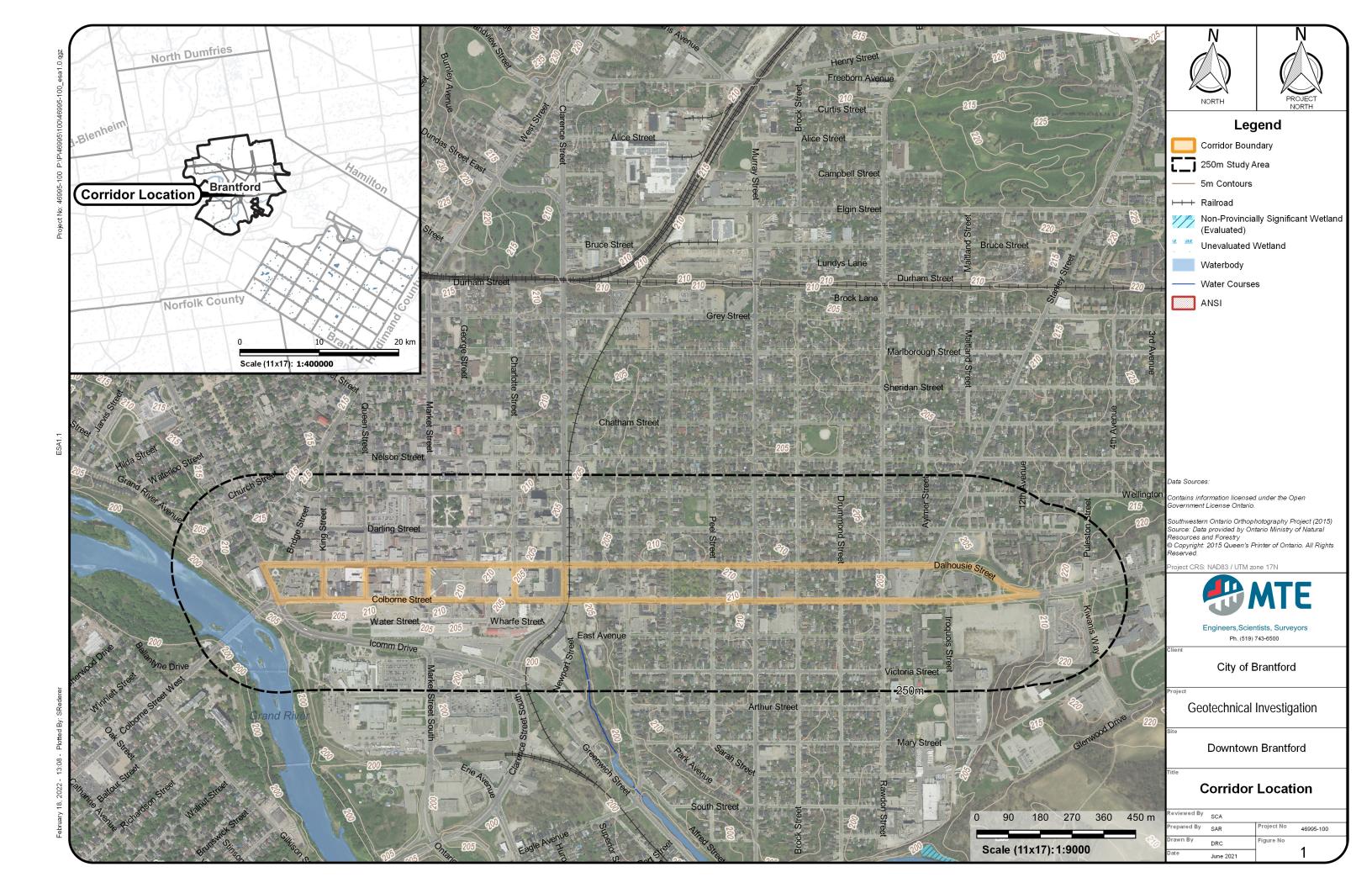
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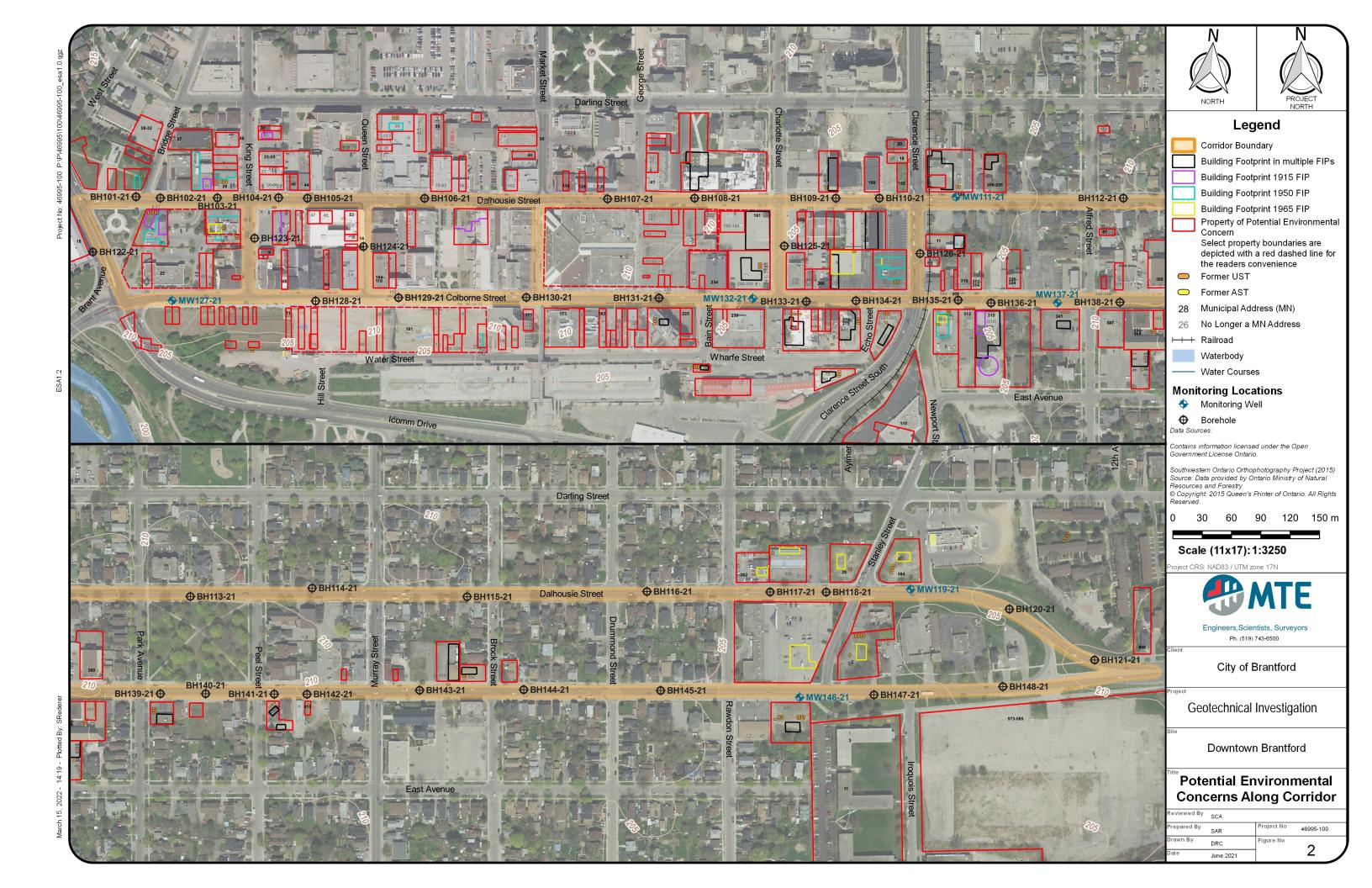
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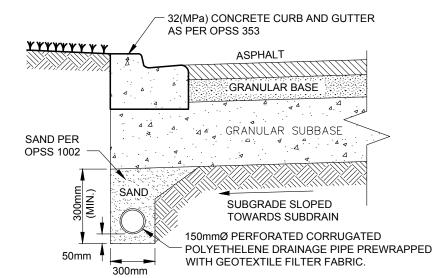
Appendix A

Figures





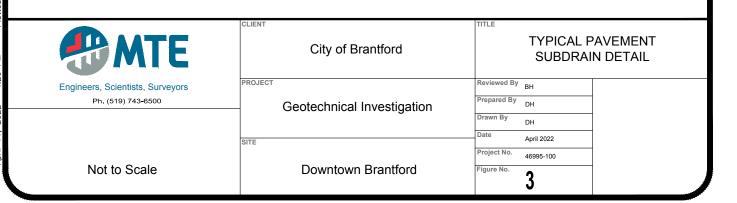




NOTE: INSTALLATION OF SUBDRAIN WILL BE REQUIRED TO RUN CONTINUOUSLY ALONG BOTH SIDES OF THE ROAD WITH CURB AND GUTTER.

GENERAL REQUIREMENTS FOR PAVEMENT SUBDRAINS:

- PERFORATED CORRUGATED POLYETHYLENE DRAINAGE PIPE SHALL MEET THE REQUIREMENTS OF OPSS 1840.
- 2. PIPE FILTER FABRIC CONFORMING TO OPSS 1860 FOR GEOTEXTILE CLASS 1 WITH A FILTRATION OPENING SIZE OF 150 TO 450 MICRONS SHALL BE SUPPLIED ON ALL SECTIONS OF PERFORATED PIPE.
- 3. THE OPEN UPSTREAM ENDS OF PIPES SHOULD BE CAPPED.
- 4. SUBDRAIN PIPES TO BE SET ON AT LEAST 1% GRADE DRAINING TO A POSITIVE FROST-FREE OUTLET. IF THE SUBDRAINS ARE OUTLETTED TO A DITCH THEN THE LAST 1.5 M OF THE OUTLET PIPE SHOULD CONSIST OF A CORRUGATED GALVANIZED STEEL PIPE EQUIPPED WITH A RODENT GATE.
- BEDDING AND BACKFILL MATERIAL SHALL BE CONCRETE SAND MEETING THE GRADATION REQUIREMENTS OF OPSS 1002 (FINE AGGREGATE FOR CONCRETE).
- 6. THIS IS NOT A DESIGN DRAWING OR CONTRACT SPECIFICATION.



Appendix B

Summary of Potential Environmental Concerns



Appendix B: Summary of Potential Environmental Concerns

Address	Proximity	Potential Concern
NA	Road allowance	PCA 30- Fill of unknown quality
NA	Road allowance	PCA 47- A rail line intersects Dalhousie Street and Colborne Street
		East, east of Clarence Street.
NA	Road allowance	PCA 28- A historical UST located north-adjacent to 37 Dalhousie
		Street, south-adjacent to 458 Colborne Street East and east-adjacent
		to 11 Clarence Street, respectively, were depicted on the 1950 FIP.
NA	Road allowance	SPL- 401 Colborne Street East was listed with a spill resulting in
		confirmed soil and surface water impacts. An unknown quantity of
		furnace oil was released to the catch basin, assumed to be located
		within the road allowance.
NA	Road allowance	SPL- 474 Colborne Street East was listed with a spill resulting in
		possible environmental impact. Approximately 135 L of oily water
		was released on September 17, 2009 to the catch basin, assumed to
	D 1 11	be located within the road allowance.
Intersection between	Road allowance	SPL- The intersection was listed with three spills, all of which
Brant Avenue/Iconn		resulted in possible environmental impact. The quantity and/or
Driver/Colborne		contaminant were not reported in the listings; however, a sheen was
Street East Intersection between	Road allowance	observed in 2012 at outflow #79 along the Grand River.
Colborne Street	Road allowance	SPL- The intersection was listed with a spill resulting in possible environmental impact. An unknown quantity of soap was released to
East/King Street		a catch basin along the Corridors s in 2005.
Intersection between	Road allowance	SPL- The intersection was listed with a spill resulting in no
Colborne Street	Road allowance	anticipated environmental impact. An unknown quantity of sewage
East/Queen Street		was released to a catch basin along the Corridors s in 2000.
Intersection between	Road allowance	SPL- The intersection was listed with a spill resulting in possible
Colborne Street	Road allowance	environmental impact. An unknown quantity of diesel fuel was
East/Murray Street		released to the road in 2004.
Intersection between	Road allowance	SPL- The intersection was listed with two spills, both of which result
Dalhousie	l rioda dirorranios	in possible environmental impact. Approximately 227 L of gasoline
Street/Clarence		was released to the ground surface in 1999 and was reportedly
Street		cleaned up. Approximately 40 L of duel was released to the ground
		surface in 2016.
2 Dalhousie Street	North-adjacent	PCA 37 – The property was listed in the municipal directories as a
(appears to have	to the Corridors	potential dry cleaner in 1921.
amalgamated with 6		PCA 39- A historical operation of a carriage factory which included
Dalhousie Street)		wood working and painting areas, was depicted on the 1915 FIP.
8 Dalhousie Street	North-adjacent	PCA 37 – A potential dry cleaner was depicted in the 1915 FIP.
(appears to have	to the Corridors	Additionally, the property was listed in the municipal directories with
amalgamated with 6		a potential dry cleaner in 1916.
Dalhousie Street)		
5-17 Dalhousie	South-adjacent	PCA 28 – A potential historical fuel service station, which included
Street	to the Corridors	USTs was depicted on the 1950 and 1965 FIPs.
(appears to have		PCA 34 – A historical machine and repair shop was depicted on the
amalgamated with		1915 FIP. Additionally, an occupant "Herod Machine & Stamping Co."
22 Colborne Street		was listed in the municipal directories in 1912.
East)		PCA 52 – A historical automotive service garage, was depicted on the
		1950 and 1965 FIPs. Additionally, several automotive facilities were
		listed in the municipal directories between 1916-1991.

Address	Proximity	Potential Concern
		PCA Other - Historical coal storage was depicted in the 1915, 1950 and 1965 FIPs
12 Dalhousie Street (appears to have amalgamated with 6 Dalhousie Street)	North-adjacent to the Corridors	PCA 28 – A historical fuel service station, which included two USTs was depicted in the 1950 FIP. Additionally, a service station was listed in the municipal directories between 1936-1960. PCA 38 – A potential bulk oil facility was listed in the municipal directories between 1926-1931.
22 Dalhousie Street (appears to have amalgamated with 28 Dalhousie Street)	North-adjacent to the Corridors	PCA 52- A historical automotive garage was depicted on the 1950 FIP. Additionally, automotive facilities were listed in the municipal directories between 1921-1955.
26 Dalhousie Street (appears to have amalgamated with 28 Dalhousie Street)	North-adjacent to the Corridors	PCA 37- A potential dry cleaner was depicted on the 1915 FIP. Additionally, a potential dry cleaner was listed in the municipal directories between 1916-1921.
27 Dalhousie Street (appears to have amalgamated with 16 King Street)	South-and west-adjacent to the Corridors	PCA 34 – The property was listed in the municipal directories with multiple manufacturing facilities between 1912-1916. PCA 52- A potential historical automotive garage labeled "R&M Motors" was depicted on the 1950 FIP. Additionally, an automotive service facility was listed in the municipal directories between 1921-1931. Two monitoring wells within the parking lot at Kentucky Fried Chicken (KFC) were observed during the inspection of the Corridors. It is suspected that the monitoring wells were installed to assess the
28 Dalhousie Street	North-adjacent to the Corridors	soil and groundwater quality at the property. PCA 28- A historical fuel service station, which included USTs was depicted on the 1950 and 1965 FIPs. Additionally, a potential fuel service station was listed in the municipal directories in 1970. PCA 52- An automotive garage was depicted on the 1950 and 1965 FIP. Additionally, several automotive service stations were listed in the municipal directories between 1931-2012. During an inspection of the Corridors, an automotive service facility, including a fuel canopy was observed.
30-38 Dalhousie Street (appears to have amalgamated with 36 Dalhousie Street)	North-adjacent to the Corridors	PCA 37 – A potential dry cleaner was listed in the municipal directories between 1936-1946 PCA 52 – A potential automotive service station was listed in the municipal directories in 1926. GEN- Historical generator of hazardous wastes, which included light fuels in 2010.
37 Dalhousie Street (appears to have amalgamated with 41 Dalhousie Street)	South-adjacent to the Corridors	PCA 28- A historical storage tank south of the building was depicted on the 1915, 1950 and 1965 FIPs. PCA 52- A historical automotive garage was depicted on the 1915 FIP.
40 Dalhousie Street	North-adjacent to the Corridors	PCA 37- A potential dry cleaner was depicted on the 1915 FIP. Additionally, a potential dry cleaner was listed in the municipal directories between 1912-1916 and between 1941-1970.

Address	Proximity	Potential Concern
		PCA 52- A historical automotive garage was depicted on the 1950
		FIP.
		PCA 54 –A potential textile facility was listed in the municipal
		directories in 1986.
43 Dalhousie Street	South-adjacent	PCA 39 – A potential bulk storage facility of paint was listed in the
(appears to have	to the Corridors	municipal directories in 1912 and 1965.
amalgamated with		
41 Dalhousie Street)		
44 Dalhousie Street	North-adjacent	PCA28 - An UST was located south of the building within the road
	to the Corridors	allowance as depicted on the 1950 FIP.
		PCA 52 – A historical automotive garage was depicted on the 1950
		FIP. Additionally, multiple automotive service garages were listed in
		the municipal directories between 1921-1955.
47 Dalhousie Street	South-adjacent	PCA 29 – A potential glass manufacturing facility was listed in the
(appears to have	to the Corridors	municipal directories between 1931-1946.
amalgamated with	to the corndors	PCA 47- A potential historical rubber processing facility was depicted
53 Dalhousie Street)		on the 1915 FIP ("Rubber Goon")
49 Dalhousie Street	South-adjacent	PCA 52 – A historical automotive sales facility was depicted on the
(appears to have	to the Corridors	1915 FIP. Additionally, a potential automotive facility was depicted on the
`	to the comuons	
amalgamated with 53 Dalhousie Street)		the municipal directories between 1916-1931.
53 Dalhousie Street	South-and	DCA Other. The property was registered with an DCC which outlines
53 Dainousie street		PCA Other – The property was registered with an RSC, which outlines
	west-adjacent	risk management measures to address soil impacts.
	to the Corridors	GEN- The property was listed as a generator of hazardous waste,
		which included petroleum distillates, waste oils and lubricants, other
		polymeric wastes, alkaline wastes and inorganic and organic
(7 Dalla anala Charat	C	laboratory chemicals for select years between 1989-2009.
67 Dalhousie Street	South-adjacent	PCA Other – Possible electronic and computer equipment facility
(appears to have	to the Corridors	was listed in the municipal directories between 1936-1941.
amalgamated with		
75 Dalhousie Street)	N. II. II. I	
60-70 Dalhousie	North-adjacent	PCA other- Known/documented impacted soil was identified for the
Street	to the Corridors	property in the federal contaminated sites inventory.
76-82 Dalhousie	North-adjacent	PCA 29 – A glass manufacturing facility was listed in the municipal
Street	to the Corridors	directories in 2012.
(inferred west-		PCA 36 – A potential oil production facility ("Imperial Oil") was listed
adjacent to 86		in the municipal directories in 1970.
Dalhousie Street)		PCA 37 – A potential dry cleaner was listed in the municipal
		directories in 1975.
		SPL- An unknown quantity of antifreeze was released on March 11,
		2005 behind 78 Dalhousie Street to the catch basin resulting in
		possible environmental impact.
		PCA Other – A potential coal storage facility was listed in the
		municipal directories between 1926-1946. Additionally, the property
		was registered with a RSC, which outlines risk management
		measures to address soil impacts.
86 Dalhousie Street	North-adjacent	PCA 36 – A potential oil production facility was listed in the
	to the Corridors	municipal directories in 1921.
81-89 Dalhousie	South-adjacent	PCA Other- A historical fire was depicted on the 1915 FIP.
Street	to the Corridors	Additionally, a potential coal storage facility was listed in the
		municipal directories between 1926-1941.

Address	Proximity	Potential Concern
(appears to have		
amalgamaterd with		
148 Colborne Street		
East)		
102 Dalhousie Street	North-adjacent	GEN- The property was listed as a generator of hazardous waste,
(appears to have	to the Corridors	which included light fuels in 2009
amalgamated with		
38 Market Street)		
116 Dalhousie Street	North-adjacent	PCA 37 – A potential dry cleaner was listed in the municipal
	to the Corridors	directories in 2012
124 Dalhousie Street	North-adjacent	PCA Other – A potential coal storage facility was listed in the
	to the Corridors	municipal directories in 1931.
130 Dalhousie Street	North-adjacent	PCA 39 –A potential bulk paint storage facility was listed in the
107 111 7 11	to the Corridors	municipal directories between 1940-1960.
137-141 Dalhousie	South-adjacent	PCA 37 – A potential dry cleaner was listed in the municipal
Street	to the Corridors	directories between 1950-1965.
(appears to have		
amalgamated with 1		
Market Street) 147 Dalhousie Street	South-adjacent	PCA 12 – A potential cement manufacturing facility was listed in the
(appears to have	to the Corridors	municipal directories between 1931-1941.
amalgamated with 1	to the corndors	municipal directories between 1731-1741.
Market Street)		
149 Dalhousie Street	South-adjacent	PCA 52 – An automotive service facility was listed in the municipal
(appears to have	to the Corridors	directories in 1931.
amalgamated with 1		
Market Street)		
150 Dalhousie Street	North-adjacent	PCA Other – Roofing company with the potential of bulk storage of
(appears to have	to the Corridors	roofing tar was listed in the municipal directories in 1936.
amalgamated with		PCA 28 – A potential fuel service station was listed in the municipal
26 Charlotte Street)		directories between 1946-1960.
		PCA 29- A historical glass manufacturing facility was depicted on the
		1950 and 1965 FIPs. Additionally, a glass manufacturing facility was
		listed in the municipal directories in 1950 and between 1986-2007.
		PCA 52 – An automotive service facility was listed in the municipal
		directories between 1950-1960.
		GEN- The property was listed as a generator of hazardous wastes, which included (but not limited to) aromatic solvents in 2006, acid
		waste between 2016-2019 and aliphatic solvents and chemicals
		between 2018-2019.
		500000112010 2017.
		SPL- The property was listed with two spills resulting in
		potential/confirmed environmental impact
153 Dalhousie Street	South-adjacent	PCA 37- A potential dry cleaner was depicted on the 1915 FIP.
(appears to have	to the Corridors	Additionally, a potential dry cleaner was listed in the municipal
amalgamated with 1		directories between 1912-1960.
Market Street)		
155-159 Dalhousie	South-adjacent	PCA 52 –Several automotive service facility were listed in the
Street	to the Corridors	municipal directories for select years between 1921-1970

Address	Proximity	Potential Concern
161 Dalhousie Street	South-and	PCA 52- A historical automotive garage was depicted on the 1950
	west-adjacent	and 1965 FIPs. Additionally, several automotive service facilities
	to the Corridors	were listed in the municipal directories between 1950-1965.
169 Dalhousie Street	South-adjacent	PCA 31 – A printing facility was listed in the municipal directories
	to the Corridors	between 1986-1991
171 Dalhousie Street	South-adjacent	PCA 10 – A potential autobody shop was listed in the municipal
(appears to have	to the Corridors	directories between 1965-1970
amalgamated with		
175 Dalhousie Street)		
179 Dalhousie Street	South-adjacent	PCA 31 – A printing facility was listed in the municipal directories
	to the Corridors	between 1916-1975.
180 Dalhousie Street	North-adjacent	PCA 11 – A commercial trucking facility was listed in the municipal
(appears to have	to the Corridors	directories in 1941.
amalgamated with		PCA 28- An UST was located west of the garage as depicted on the
135 Darling Street)		1950 and 1965 FIPs.
		PCA 52- A historical automotive garage was depicted on the 1950
		and 1965 FIPs. Additionally, an automotive service facility was listed
		in the municipal directories between 1950-1965.
181-183 Dalhousie	South-adjacent	PCA 28- An UST was located south of the garage as depicted on the
Street	to the Corridors	1950 FIP.
(appears to have		PCA 52- A historical automotive garage was depicted on the 1950
amalgamated with		FIP. Additionally, automotive service facility was listed in the
274 Colborne Street		municipal directories between 1950-1960.
East)		
182 Dalhousie Street	North-adjacent	PCA 37 – A potential dry cleaner was listed in the municipal
	to the Corridors	directories between 1912-1946.
185-189 Dalhousie	South-adjacent	PCA 34- A historical machine shop was depicted on the 1950 FIP.
Street	to the Corridors	DOA 50 ALL
(appears to have		PCA 52- A historical automotive garage was depicted on the 1950
amalgamated with		and 1965 FIPs. Additionally, automotive service facilities were listed
187 Dalhousie Street)		in the municipal directories between 1936-1941.
188 Dalhousie Street	North adiacont	DCA 24. A historical masshing shap was denisted on the 10/F FID
188 Dainousie Street	North-adjacent	PCA 34- A historical machine shop was depicted on the 1965 FIP.
	to the Corridors	PCA 52- A historical automotive garage was depicted on the 1965
		FIP. Additionally, an automotive service garage was listed in the
		municipal directories between 1955-1970. During the inspection of
		the Corridors , a building labelled "Auto Parts" was observed at the
		property.
		GEN- The property was listed as a generator of hazardous waste,
		which included halogenated solvents between 1992-1999 and waste
		oils and lubricants and emulsified oils between 1992-1998.
192 Dalhousie Street	North-adjacent	SPL- The property was listed with a spill of an unknown quantity of
(appears to have	to the Corridors	gasoline resulting in no anticipated environmental concern.
amalgamated with	to the cornuors	gasonno resalting irrno anticipated environintental concern.
188 Dalhousie Street)		
194 Dalhousie Street	North-adjacent	PCA 52 – Several automotive service garages were listed in the
(appears to have	to the Corridors	municipal directories between 1912-1941.
amalgamated with	to the cornacts	mamorpal an octorios botwood 1712 1771.
196 Dalhousie Street)		
i 70 Damousic Street)	l	

Address	Proximity	Potential Concern
196 Dalhousie Street	North-adjacent to the Corridors	PCA 28- Two USTs were located east of building as depicted on the 1950 and 1965 FIPs. According to records, the property was listed with one active 22,700 L gasoline containing, single walled UST and two active 36,300 L gasoline containing, single walled USTs. During the inspection of the Corridors, a fuel service station was observed. PCA 34- A historical machine shop as depicted on the 1915, 1950 and 1965 FIPs. PCA 52- Current and historical automotive garage as depicted on the 1915, 1950 and 1965 FIPs. Additionally, several automotive service garages were listed in the municipal directories between 1946-2012.
206-208 Dalhousie Street	North-adjacent to the Corridors	PCA 10 – Several autobody repair shops were listed in the municipal directories between 1965-2012. PCA 34 – A historical machine shop was depicted on the 1965 FIP. PCA 52 – Several automotive service garages were listed in the municipal directories between 1950-1965.
362 Dalhousie Street	North-adjacent to the Corridors	PCA 28 - An UST was evident in the central portion of the property as depicted on the 1965 FIP. During the inspection of the Corridors, an AST was located east adjacent to the site building. PCA 52 - A historical automotive garage was depicted on the 1965 FIP. Additionally, several automotive service garages were listed in the municipal directories for select years between 1965-2012. During the inspection of the Corridors, a service garage was observed that included an AST east-adjacent to the building.
366 Dalhousie Street (appears to have amalgamated with 370 Dalhousie Street)	North-adjacent to the Corridors	PCA 28 - An UST was evident west of the garage as depicted on the 1965 FIP. Additionally, it is inferred that the property was listed in the TSSA database with a private fuel outlet. PCA 52- A historical automotive garage was depicted on the 1965 FIP. Additionally, an automotive service garage was listed in the municipal directories in 1995/1996.
378 Dalhousie Street (appears to have amalgamated with 20 Stanley Street)	North-adjacent to the Corridors	PCA 28 - An UST was evident east of the garage as depicted on the 1965 FIP. PCA 52 – A historical automotive garage was depicted on the 1965 FIP.
384 Dalhousie Street	North-adjacent to the Corridors	PCA 28- An UST was evident south of the building as depicted on the 1965 FIP. Additionally, the property was listed in the TSSA database with a retail storage tank. PCA 52- A potential historical automotive garage was depicted on the 1965 FIP. Additionally, several automotive service garages were listed in the municipal directories between 1960-1991. GEN- The property was listed as a generator of hazardous waste, which included light fuels and oil skimmings and sludges between 2013-2019. SPL- The property was listed in the database with free product observed within a monitoring well. During the inspection of the property, two monitoring wells were observed.
11 Colborne Street East	South-adjacent to the Corridors	PCA 28- An UST was evident east of the garage as depicted on the 1915 and 1950 FIPs.

Address	Proximity	Potential Concern
(No longer a municipal address)		PCA 52-A historical automotive garage was depicted on the 1915, 1950 and 1965 FIPs. Additionally, several automotive service garages were listed in the municipal directories between 1912-1950.
20 Colborne Street East (appears to have amalgamated with 16 Colborne Street East)	North-adjacent to the Corridors	PCA 34 – A potential metal fabricating facility was listed in the municipal directories in 1960.
22 Colborne Street East	North-adjacent to the Corridors	GEN- The property was listed as a generator of hazardous waste, which included oils and lubricants in 2015 and light fuels and inert organic wastes in 2017
29 Colborne Street East (appears to have amalgamated with 37 Colborne Street East)	South-adjacent to the Corridors	PCA 17 – A potential dye and cleaning facility was listed in the municipal directories in 1912.
31 Colborne Street East (appears to have amalgamated with 39 Colborne Street East)	South-adjacent to the Corridors	PCA 17 – A potential dye and cleaning facility was listed in the municipal directories in 1965. PCA Other – A manufacturing facility was listed in the municipal directories in 1960.
40 Colborne Street East (appears to have amalgamated with 22 Colborne Street East)	North-adjacent to the Corridors	PCA 34- A historical machine shop was depicted on the 1965 FIP. Additionally, a potential metal fabrication facility was listed in the municipal directories in 1981.
41 Colborne Street East (appears to have amalgamated with 47 Colborne Street East)	South-adjacent to the Corridors	PCA 34- A potential metal fabrication facility was listed in the municipal directories between 1986-2007.
43 Colborne Street East (appears to have amalgamated with 49 Colborne Street East)	South-adjacent to the Corridors	PCA 31 – A printing service facility was listed in the municipal directories in 1981. PCA Other – A potential manufacturing facility was listed in the municipal directories between 1912-1916.
44 Colborne Street East (appears to have amalgamated with 22 Colborne Street East)	North-adjacent to the Corridors	GEN- The property was listed as a generator of hazardous waste, which included other specified inorganics and light fuels between 1992-2003
47 Colborne Street East	South-adjacent to the Corridors	PCA 17 – A potential dye and cleaning facility was listed in the municipal directories in 1916.

Address	Proximity	Potential Concern
51 Colborne Street	South-adjacent	PCA 37 – A potential dry cleaner was depicted on the 1915 FIP.
East	to the Corridors	Additionally, a potential dry cleaner was listed in the municipal
(appears to be		directories between 1912-1916.
amalgamated with		
55 Colborne Street		
East)		
53 Colborne Street	South-adjacent	PCA 39 – A potential bulk paint storage facility was listed in the
East	to the Corridors	municipal directories in 1941.
(appears to be		
amalgamated with		
59 Colborne Street		
East)		
57 Colborne Street	South-adjacent	PCA 37 – A potential dry cleaner was listed in the municipal
East	to the Corridors	directories between 1912-1921.
(appears to be	to the comacis	an octorios between 1712 1721.
amalgamated with		
63 Colborne Street		
East)		
68 Colborne Street	North-adjacent	PCA Other – A specialty manufacturing facility was listed in the
East	to the Corridors	municipal directories in 1926.
71 Colborne Street	South-adjacent	PCA Other – An unknown "cleaner" was listed in the municipal
East	to the Corridors	directories between 1921-1936.
75 Colborne Street	South-adjacent	PCA 28 - The property was listed in the database with a 90,920 L
East	to the Corridors	retail storage tank. Additionally, the property was listed in the
(appears to have	to the comaons	database with two active 50,000 L gasoline containing USTs, installed
amalgamated with		in 1993 and four decommissioned 22,730 L gasoline containing USTs,
101 Colborne Street		installed in 1973.
East)		mistalied in 1770.
79 Colborne Street	South-adjacent	PCA Other – A potential electronic and computer sale and serviec
East	to the Corridors	was listed in the municipal directories between 1950-1965.
(appears to have	to the cornacis	was instead in the manifolipal an ectories between 1700-1700.
amalgamated with		
101 Colborne Street		
East)		
84 Colborne Street	North-adjacent	PCA 39 – A potential bulk paint storage facility was listed in the
East	to the Corridors	municipal directories between 1960-1975.
91 Colborne Street	South-adjacent	PCA 37 – A potential dry cleaner was listed in the municipal
East	to the Corridors	directories in 1926.
(appears to have	.55 551114513	S. 33.37100 III 1720.
amalgamated with		
101 Colborne Street		
East)		
101 Colborne Street	South-adjacent	PCA Other – The property was registered with a RSC, which outlines
East	to the Corridors	risk management measures to address soil impacts.
104-110 Colborne	North-adjacent	PCA 19 – A potential electronic and computer sale and service facility
Street East	to the Corridors	was listed in the municipal directories between 1936-1941.
on oor East	to the cornuors	PCA Other- A potential steel distributor was listed in the municipal
		directories between 1926-1931.
107 Colborne Street	South-adjacent	PCA 19 - A potential electronic and computer sales and service
East	to the Corridors	facility was listed in the municipal directories between 1941-1946.
LuJi	to the cornuors	Tracinity was listed in the maintipal directories between 1741-1740.

Address	Proximity	Potential Concern
(appears to have amalgamated with 101 Colborne Street East)		
112 Colborne Street East (appears to have amalgamated with 120 Colborne Street East)	North-adjacent to the Corridors	PCA 54 – A textile manufacturing facility was listed in the municipal directories in 1975.
129 Colborne Street East (appears to have amalgamated with 101 Colborne Street East)	South-adjacent to the Corridors	PCA 28 - The property was listed in the database with a gasoline, oil and natural gas service station GEN - The property was listed as a generator between 2003-2004, however, no waste codes were provided in the listing
137 Colborne Street East (appears to have amalgamated with 101 Colborne Street East)	South-adjacent to the Corridors	PCA 39 – A potential bulk paint storage of facility was listed in the municipal directories in 1970.
171 Colborne Street East	South-adjacent to the Corridors	GEN- The property was listed as a generator of hazardous waste, which included halogenated solvents between 1989-2001 and waste oils and lubricants between 2015-2016.
173 Colborne Street East	South-adjacent to the Corridors	GEN- The property was listed as a generator of hazardous wastes, which included PCBs between 1990-2004, waste oils and lubricants in 2009, and compressed gases, paints/pigments/coatings, organic chemicals, non-halogenated pesticides and herbicides, and waste crankcase oils and lubricants in 2019. No records were available for 1991. SPL- The property was listed with a spill resulting in confirmed environmental impact. An unknown quantity of fire waste was
187 Colborne Street (appears to have amalgamated with 173 Colborne Street East)	South-adjacent to the Corridors	released to sewers and canal resulting on October 19, 2003. PCA 17 – A potential dye manufacturing facility was listed in the municipal directories between 1916-1921.
193 Colborne Street East	South-adjacent to the Corridors	GEN- The property was listed as a generator of hazardous waste, which included light fuels in 2013.
201 Colborne Street (appears to have amalgamated with 201-203 Colborne Street East)	South-adjacent to the Corridors	PCA 54 – A potential textile facility was listed in the municipal directories between 1912-1926.
203 Colborne Street East (appears to have amalgamated with	South-adjacent to the Corridors	PCA 19 – A potential electronic and computer sales and service facility was listed in the municipal directories in 1931 and between 1941-2007.

Address	Proximity	Potential Concern
201-203 Colborne		
Street East)		
205-207 Colborne	South-adjacent	SCT- The property was listed as a paint and coating manufacturing
Street East	to the Corridors	facility, established 1997.
(appears to have		
amalgamated with		
205-211 Colborne		
Street East)	NI II II I	D04.07 A L L L L L L L L L L L L L L L L L L
218 Colborne Street	North-adjacent	PCA 37 – A dry cleaner was listed in the municipal directories
East	to the Corridors	between 1965-1970.
(appears to have		
amalgamated with 1		
Market Street) 219 Colborne Street	South adjacent	DCA 29. A historical fuel convice station was denicted on the 10E0
East	South-adjacent to the Corridors	PCA 28- A historical fuel service station was depicted on the 1950 and 1965 FIPs, which included three USTs located west of the
(appears to have	to the contidors	building in 1950 and one UST in 1965.
amalgamated with		PCA 52 – A historical automotive service station was depicted on the
219-225 Colborne		1950 and 1965 FIPs. Additionally, service stations were listed in the
Street)		municipal directories between 1936-1965.
220 Colborne Street	North-adjacent	PCA 18 – A potential power station was listed in the municipal
East	to the Corridors	directories in 2012.
(appears to have	to the comacis	un octorios in 2012.
amalgamated with 1		
Market Street)		
225 Colborne Street	South-adjacent	PCA 37 – A historical cleaning and pressing facility as depicted on the
East	to the Corridors	1950 FIP Additionally, a potential dry cleaning facility was listed in
(appears to have		the municipal directories between 1950-1955.
amalgamated with		PCA 52 – An automotive service garage was listed in the municipal
219-225 Colborne		directories in 1931.
Street East)		
230 Colborne Street	North-adjacent	PCA 54 – A potential textile manufacturing facility was listed in the
East	to the Corridors	municipal directories in 1960.
(appears to have		
amalgamated with		
234 Colborne Street		
East)		
233 Colborne Street	South-adjacent	GEN - The property was listed as a generator of hazardous waste,
East	to the Corridors	which included waste oils and lubricants between 1986-1998.
234 Colborne Street	North-adjacent	GEN- The property was listed as a generator of hazardous waste in
East	to the Corridors	2012, however, no waste codes were provided
237 Colborne Street	South-adjacent	PCA 18 – A electricity generation facility was listed in the municipal
East	to the Corridors	directories between 1931-1955.
(appears to have		
amalgamated with 233 Colborne Street		
East)		
240 Colborne Street	North-adjacent	PCA 52 _ An automotive service garage was listed in the municipal
East	to the Corridors	PCA 52 – An automotive service garage was listed in the municipal directories in 1970.
(appears to have	to the contidors	un ectories in 1770.
amalgamated with		
amaiyamateu witii		

Address	Proximity	Potential Concern
256 Colborne Street		
East)		
242-264 Colborne	North-and	PCA 28- A potential historical fuel service station was depicted on
Street East	west-adjacent	the 1950 and 1965 FIPs, which included three USTs located northeast
(appears to have	to the Corridors	of the garage in 1950 and one UST in 1965.
amalgamated with		PCA 52- A historical automotive garage as depicted on the 1950 and
256 Colborne Street		1965 FIPs. Additionally, several automotive garages were listed in the
East)		municipal directories between 1931-1965. Additionally, automotive
		service stations were listed in the municipal directories between 1931-1950.
257 Colborne Street	South-adjacent	PCA 11 – A potential commercial trucking terminal was listed in the
East	to the Corridors	municipal directories between 1946-1955
(appears to have	to the corndors	PCA 52 – A automotive service garage was listed in the municipal
amalgamated with		directories in 1941.
255 Colborne Street		directories in 1711.
East)		
259 Colborne Street	South-adjacent	PCA 28- A potential historical fuel service station was depicted on
East	to the Corridors	the 1950 and 1965 FIPs, which included three USTs north and one
(appears to have		UST east of the building in 1950 and one UST located north and east
amalgamated with		of the building in 1965.
255 Colborne Street		PCA 52- A historical automotive garage as depicted on the 1915 and
East)		1950 FIPs. Additionally, an automotive service station was listed in
		municipal directories between 1921-1960.
27. 2.2 2 11		PCA Other- Historical coal storage as depicted on the 1915 FIP.
256-260 Colborne	North-and East-	PCA 34 – A historical machine shops was depicted on the 1915 and
Street East	adjacent to the Corridors	1950 FIPs. Additionally, a machine shop was listed in the municipal directories between 1946-1960.
(appears to have amalgamated with	COTTUOIS	directories between 1940-1900.
262 Colborne Street		PCA 52 – An automotive service garage was listed in the municipal
East)		directories between 1950-1955.
262 Colborne Street	North-adjacent	PCA 37 – A potential dry cleaner was listed in the municipal
East	to the Corridors	directories between 1912-1921.
263 Colborne Street	South-adjacent	PCA 37 – A potential dry cleaner was listed in the municipal
East	to the Corridors	directories in 1921
(appears to have		
amalgamated with		
255-263 Colborne		
Street East)		
266 Colborne Street	North-adjacent	PCA 37 – A potential dry cleaner was listed in the municipal
East	to the Corridors	directories in 1960
267 Colborne Street	South-adjacent	PCA Other - A potential coal storage facility was listed in the
East	to the Corridors	municipal directories in 1912.
(appears to have		
amalgamated with 267-275 Colborne		
Street East)		
269 Colborne Street	South-adjacent	PCA 11 – A potential commercial trucking terminal was listed in the
East	to the Corridors	municipal directories between 1960-1986.
(appears to have	to the contacts	mamapai airottorios bottifotii 1700-1700.
amalgamated with		
	L	

Address	Proximity	Potential Concern
267-275 Colborne		
Street East) 270 Colborne Street East (appears to have amalgamated with 274 Colborne Street	North-adjacent to the Corridors	PCA 37 – A potential dry cleaner was listed in the municipal directories in 1960.
East) 270-284 Colborne Street East (appears to have amalgamated with 274 Colborne Street East)	North-adjacent to the Corridors	PCA 34 – A potential metal fabrication shop was listed in the municipal directoriesin 1936. PCA 39 – A historical carriage factory, which included a large painting building was depicted on the 1915 FIP. PCA 52 – A historical automotive garage was depicted on the 1950 FIP. Several automotive service garages were listed in the municipal directories between 1926-1975. The property was also registered with a standby diesel generator.
275 & 279 Colborne Street East	South-adjacent to the Corridors	During the inspection of the Corridors, several flushmount monitoring wells were observed within the parking lot. PCA 28 - A potential historical fuel service station, which included three USTs east of the building as depicted on the 1950 FIP. PCA 52 - A historical automotive garage was depicted on the 1950 FIP. Additionally, several automotive service garages were listed in
281 Colborne Street	South-adjacent	the municipal directories between 1926-1970. PCA Other - A potential coal storage facility was listed in the municipal directories in 1916. PCA 28- A potential historical fuel service station, was depicted on
East	to the Corridors	the 1950 and 1965 FIPs, which included three USTs south-adjacent to Colborne Street East in 1950 and one UST northwest of the building in 1965. Additionally, the property was listed in the database with one 2,000 L retail fuel tank, one 81,700 L retail fuel tank and one 136,380 L retail fuel tank. According to the TSSA, a historical fuel service gasoline station was located at the property, which included five storage tanks. PCA 52 - A historical automotive garage as depicted on the 1950 and 1965 FIPs. Additionally, automotive service garages were listed in the municipal directories in 1941 and between 1970-2007.
284 Colborne Street East (appears to have amalgamated with 274 Colborne Street	North-adjacent to the Corridors	PCA 28- A potential historical fuel service station was depicted on the 1950 and 1965 FIPs, which included three USTs south of the garage in 1950 and one in 1965. During the inspection of the Corridors, several flushmount
East) 297 Colborne Street East (appears to have amalgamated with 281 Colborne Street East)	South-adjacent to the Corridors	monitoring wells were observed within the parking lot. PCA 28 – A potential fuel service station was listed in the municipal directories in 1955.
303-311 Colborne Street East	South-adjacent to the Corridors	PCA 18 – A potential power plant was listed in the municipal directories between 1912-1916.

Address	Proximity	Potential Concern
(appears to have amalgamated with 303 Colborne Street East)		PCA 28 - Two USTs located north of the garage and one UST south of the garage as depicted on the 1950 and 1965 FIPs, respectively. PCA 52- A historical automotive garage was depicted on the 1950 and 1965 FIPs. Several automotive service garages were listed in the municipal directories between 1926-2012. During the inspection of the Corridors, Total tire was observed at the property.
304 Colborne Street East (appears to have amalgamated with 298-306 Colborne Street East)	North-adjacent to the Corridors	PCA 37- A potential dry cleaner was listed in the municipal directories between 1931-1936. PCA 52 – A potential automotive service station was listed in the municipal directories in 1986.
308 Colborne Street East	North-adjacent to the Corridors	PCA 6 – A potential battery storage facility was listed in the municipal directories between 1926-1936.
310 Colborne Street East	North-adjacent to the Corridors	GEN- The property was listed as a generator of hazardous wastes, which include oil skimmings and sludges in 2006.
312-314 Colborne Street East	North-adjacent to the Corridors	PCA 11 – A bulk storage facility of cleaning chemicals was listed in the municipal directories in 1986.
313 Colborne Street East	South-adjacent to the Corridors	PCA 52 – A potential automotive service garage was listed in the municipal directories betwee 1926-1931.
315 Colborne Street East	South-adjacent to the Corridors	GEN - The property was listed as a generator of hazardous waste, which includes (but not limited to) heavy fuels between 1988-2016, aliphatic solvents between 1992-2016 and oil skimmings and sludges between 2014-2016.
319 Colborne Street East (appears to have amalgamated with 315 Colborne Street East)	South-adjacent to the Corridors	PCA 9- Historical coal gasification plant, including a gasometer pit as depicted on the 1915 FIP. Additionally, "Gas Co" was listed in the municipal directories in 1912. PCA 37 – A potential dry cleaner was listed in the municipal directories between 1955-1960.
320-324 Colborne Street East	North-adjacent to the Corridors	PCA 37 - Several potential dry cleaner were listed in the municipal directories between 1936-1950.
321-323 Colborne Street East (appears to have been severed into 321-323 Colborne Street East and 16 East Avenue)	South-adjacent to the Corridors	PCA Other- A historical coal storage was depicted on the 1915 and 1950 FIPs. Additionally, a potential coal storage facility was listed in the municipal directories between 1955-1960.
341 Colborne Street East	South-adjacent to the Corridors	PCA 28 - Operated a fuel service station as depicted on the 1950 FIP, which included two USTs north of the garage. One UST was located west of the auto service building as depicted on the 1965 FIP. PCA 37 – A potential dry cleaner was listed in the municipal directories between 1916-1931. PCA 52- A historical automotive garage was depicted on the 1950 and 1965 FIPs. Additionally, several automotive service garages were listed in the municipal directories between 1950-1981.

Address	Proximity	Potential Concern
346-348 Colborne	North-adjacent	PCA 37- A historical dry cleaner was depicted on the 1915 and 1965
Street East	to the Corridors	FIPs. Additionally, potential dry cleaner was listed in the municipal
(appears to have		directories between 1912-1965.
been amalgamated		
with 348 Colborne		
Street East)		
347 Colborne Street	South-adjacent	PCA 28 - One UST located south of the garage, approximately 60 m
East	to the Corridors	south of the Corridors s as depicted on the 1965 FIP.
		PCA 27 – A historical automotive garage was depicted on the 1950
		and 1965 FIPs. Additionally, several automotive service garages were
		listed in the municipal directories between 1950-1965, with the
		potential to have operated until approximately 2007.
		potential to have operated and approximately 2001.
350 Colborne Street	North-adjacent	PCA 52 – Several automotive service garages were listed in the
East	to the Corridors	municipal directories between 1970-2012.
(appears to have	to the comacis	maniorpar arroctories between 1770 2012.
amalgamated with		
350-352 Colborne		
Street East)		
353-365 Colborne	South-adjacent	PCA 28 – Two potential fuel storage tanks was depicted on the 1915
Street East	to the Corridors	and 1950 FIPs.
(appears to have	to the comacis	unu 1750 m 3.
amalgamated to 351-		
365 Colborne Street		
East)		
Lasty		
360 Colborne Street	North-adjacent	GEN - The property was registered as a generator of hazardous
East	to the Corridors	wastes, which included light fuels in 2015.
363 Colborne Street	South-adjacent	GEN - The property was registered as a generator of hazardous
East	to the Corridors	wastes, which included light fuels between 2007-2008.
(appears to have		
amalgamated with		
351-365 Colborne		
Street East)		
373-375 Colborne	South-adjacent	PCA 28 –A historical fuel service station as depicted on the 1950 FIP,
Street East	to the Corridors	which included three USTs northwest of the garage. One UST was
(375 Colborne Street		located northwest of the auto service building as depicted on the
East appears to have		1965 FIP.
amalgamated with		PCA 52 – A historical automotive garage as depicted on the 1950 and
373 Colborne Street		1965 FIPs. Additionally, automotive service garages were listed in the
East)		municipal directories between 1934-1974.
385 Colborne Street	South-adjacent	PCA 37 – A potential historical dry cleaner ("Laundromat") as
East	to the Corridors	depicted on the 1965 FIP. Additionally, "Speed Queen Self-Serve
(appears to have		Laundry" was listed in the municipal directories between 1979-1990.
amalgamated 393		,
Colborne Street)		
403 Colborne Street	South-adjacent	PCA 28 - Operated a former fuel service station as depicted on the
East	to the Corridors	1950 FIP, which included two USTs northwest of the building. One
(appears to have		UST was located northwest of the auto service building as depicted
been severed 403		a de la constanti de la consta
NEETLYEVELEN 400		

Address	Proximity	Potential Concern
Colborne Street East and 409 Colborne Street East)		on the 1965 FIP. Additionally, a gas bar was listed in the municipal directories between 1959-1985. PCA 52 – A historical automotive garage was depicted on the 1950 and 1965 FIPs. Additionally, several automotive service garages were listed in the municipal directories between 1934-1959. SPL - The property was listed with a spill resulting in confirmed environmental impact. An unknown quantity of furnace oil was released to the catch basin on November 16, 2010.
415 Colborne Street East 426 Colborne Street East	South-adjacent to the Corridors North-adjacent to the Corridors	PCA 37- A potential historical dry cleaner was depicted on the 1965 FIP. SPL- The property was listed with a spill resulting in possible environmental impact. An unknown quantity of douse water was
(appears to have amalgamated to 428 Colborne Street East) 442 Colborne Street	North-adjacent	released on June 4, 2017 to air, land and surface water. PCA 37 – A historical dry cleaner was depicted on the 1915 FIP.
East (appears to have amalgamated to 444 Colborne Street East)	to the Corridors	PCA 52 – An automotive service garage was listed in the 1924 municipal directories in 1924.
458 Colborne Street East (appears to have amalgamated with 466 Colborne Street East)	North-adjacent to the Corridors	PCA 39 – A historical paint shop as depicted on the 1965 FIP. PCA 52 – A historical automotive garage was depicted on the 1950 and 1965 FIPs. Additionally, several automotive service garages were listed in the municipal directories between 1924-1974.
464 Colborne Street East (appears to have amalgamated with 466 Colborne Street East)	North-adjacent to the Corridors	PCA 28 –A historical fuel service station was depicted on the 1950 FIP, which included two USTs located south of the building. One UST was located south of the automotive garage as depicted on the 1965 FIP. PCA 52 – A historical automotive garage was depicted on the 1950 and 1965 FIP. Additionally, a service station was listed in the municipal directories in 1959.
474 Colborne Street East (appears to have amalgamated with 472 Colborne Street East)	North-adjacent to the Corridors	SPL- The property was listed with a spill resulting in possible environment impact. Approximately 135 L of oily water was released to the catch basin on September 17, 2009.
547 Colborne Street East (appears to have amalgamated with 549 Colborne Street East)	South-adjacent to the Corridors	PCA 28 – A historical fuel service station as depicted on the 1950 FIP, which included six USTs located north of the building. One UST was located west of the automotive garage as depicted on the 1965 FIP. According to the TSSA, the property was listed with an expired serve gasoline station. Additionally, suspected fuel service stations were listed in the municipal directories between 1926-1981. PCA 52 – A historical automotive garage was depicted on the 1965 FIP. Several automotive service garages were listed in the municipal directories between 1921-1996.

Address	Proximity	Potential Concern
		GEN- The property was registered as a generator of hazardous waste, which included light fuels, waste oils and sludges and waste crankcase oils and lubricants between 2013-2019. SPL- The property was listed with a spill of unknown quantity and substance on January 26, 1989. During the inspection of the Corridors, the property appeared vacant and included five monitoring wells.
550 Colborne Street East (Inferred to have amalgamated with 7 Stanley Street)	North-adjacent to the Corridors	PCA 28 – A suspected fuel service station is listed in the municipal directories between 1931-1936.
573 Colborne Street East	South-adjacent to the Corridors	PCA 28 - The property was listed in the database with a 20,000 L retail storage tank. Additionally, the property was listed in the TSSA database with a self serve gasoline station, which included four storage tanks. PCA 52 – An automotive service garage was listed in the municipal directories between 1975-2007. GEN- The property was registered as a generator of hazardous waste, which included light fuels and other specified inorganics in 2005. SPL- The property was listed in the database with a spill resulting in no anticipated environmental impact. Approximately 40 L of gasoline was released to the pavement and sewer on February 13, 1998 and reportedly cleaned up.
583 Colborne Street East	South-adjacent to the Corridors	SPL- The property was listed in the database with a spill resulting in no anticipated environmental impact. Approximately 4L of gasoline was released to a catch basin on November 1996 and was reportedly cleaned up.
585 Colborne Street East	South-adjacent to the Corridors	PCA 37 – A potential dry cleaner was listed in the municipal directories between 1975-1991. PCA 52 – An automotive service garage was listed in the municipal directories in 1991. During the inspection of the Corridors, two monitoring wells were observed at the property.
608 Colborne Street East 18 Brant Avenue	North-adjacent to the Corridors West-adjacent to the Corridors	SCT - The property was listed in the database as a manufacturing facility, established in 1997. GEN - The property was listed as a generator of hazardous wastes, which included light fuels, aliphatic solvents, petroleum distillates, and waste oils and lubricants between 1986-2019, paint/pigments/coating residues and halogenated solvents between 1986-2016 and, acid wastes (other metals), alkaline wastes (heavy metals), inorganic laboratory chemicals and oil skimmings and sludged between 1992-2016.
27 Bridge Street	Approximately 50 m north of the Corridors	PCA 28 - One fuel oil tank
24 Bridge Street	Approximately 30 m north of the Corridors	PCA 34 – A potential machine shop was listed in the municipal directories between 1921-1926.

Address	Proximity	Potential Concern
(appears to have amalgamated with 6 Dalhousie Street)		
28 & 32 Bridge Street (28 Bridge Street appears to have amalgamated with 32 Bridge Street)	Approximately 50 m north of the Corridors	PCA 34- A historical machine shop was depicted on the 1915 and 1950 FIPs. Additionally, a machine shop was listed in the municipal directories between 1936-1950.
4 King Street (appears to have amalgamated with 50 Colborne Street)	West-adjacent to the Corridors	PCA 28 – The property was listed in the TSSA database with one active oil storage tank.
7 King Street	East-adjacent to the Corridors	PCA 19 – A potential electrical sales and service facility was listed in the municipal directories between 1955-1965. PCA other – An unknown manufacturing facility was listed in the municipal directories in 1931.
9 King Street	East-adjacent to the Corridors	PCA 19 – A potential electronic sales and service facility was listed in the municipal directories in 1931. GEN- The Property was registered as a generator of hazardous waste, which included alkaline wastes (other metals) in 2010
12-14 King Street (appears to have severed into 16 King Street and 22 Colborne Street East)	West-adjacent to the Corridors	PCA 37 – A dry cleaner was listed in the municipal directories in 1912 and 1955. PCA 45 – A rubber vulcanizer facility was listed in the municipal directories in 1916. PCA 52 – An automotive service garage was listed in the municipal directories between 1936-1946.
14 King Street (appears to have amalgamated with 16 King Street)	South-and west-adjacent to the Corridors	PCA 28 –A historical fuel service station was depicted on the 1950 FIP, which included two USTs west-adjacent to King Street. One UST was located east of the automotive garage as depicted on the 1965 FIP. PCA 52- A historical automotive garage was depicted on the 1965 FIP.
17 King Street (address location unknown; inferred to be have amalgamated with 41 Dalhousie Street)	East-adjacent to the Corridors	PCA 28 – The property was listed in the TSSA database with one active oil storage tank.
18 King Street (appears to have amalgamated with 16 King Street)	West-adjacent to the Corridors	PCA 45 – A potential rubber manufacturing facility was listed in the municipal directories in 1931.
20 King Street (appears to have amalgamated with 28 Dalhousie Street)	West-adjacent to the Corridors	PCA 52 - Several automotive service garages were listed in the municipal directories between 1950-1965.
21 King Street (appears to have amalgamated with	Approximately 18 m north of the Corridors s	PCA 37 – A potential dry cleaner was listed in the municipal directories between 1926-1946. During the inspection of the Corridor, a building labelled "King Laundry" was observed.

Address	Proximity	Potential Concern
34-38 Dalhousie		
Street)		
23-25 King Street (25 King Street appears to have amalgamated with 23 King Street)	Approximately 25 m north of the Corridors	PCA 29- A historical glass manufacturing facility was depicted on the 1915 FIP. Additionally, a glass manufacturing facility was listed in the municipal directories in 1916. PCA 32 – A historical sheet metal manufacturing facility was depicted on the 1915 FIP. Additionally, automotive service garages were listed in the automotive service garages between 1931-1941.
24 King Street (appears to have amalgamated with 28 Dalhousie Street)	North-adjacent to the Corridors	PCA 52 – An automotive service garage was listed in the municipal directories between 1931-1936.
26 King Street (appears to have amalgamated with 30-32 King Street)	Approximately 30 m north of the Corridors	PCA Other – Multiple printing facilities were listed in the municipal directories between 1916-1950.
29 King (appears to have amalgamated with 23 King Street)	Approximately 45 m north of the Corridors	PCA 37- A historical dry cleaner was depicted on the 1915 FIP.
29-31 King Street	Approximately 45 m north of the Corridors	PCA 37 – Several potential dry cleaners were listed in the municipal directories between 1912-1986.
30 King Street	Approximately 55 m north of the Corridors	PCA 36 – A potential oil production facility was listed in the municipal directories in 1975. PCA 28 – The property was listed in the TSSA database with one active oil tank. PCA 52 – A potential automotive service garage was listed in the municipal directories in 1936.
2-8 Queen Street (appears to have amalgamated with 90-100 Colborne Street East)	North-and West-adjacent to the Corridors	PCA 11 – A potential commercial trucking terminal was listed in the municipal directories between 1936. PCA Other - An unknown manufacturing facility was listed in the municipal directories between 1936-1941.
3-9 Queen Street (appears to have amalgamated with 104-110 Colborne Street East)	East-adjacent to the Corridors	PCA 34 – A potential metal fabrication facility was listed in the municipal directories in 1936.
10 Queen Street (appears to have amalgamated with 53 Dalhousie Street)	West-adjacent to the Corridors	PCA 28 – A potential fuel service station was listed in the municipal directories in 1921.
14 Queen Street (appears to have amalgamated with 53 Dalhousie Street)	West-adjacent to the Corridors	PCA 37 – A dry cleaner was listed in the municipal directories between 1916-1931.
29 Queen Street (appears to have amalgamated with 58 Dalhousie Street)	Approximately 40 m north of the Corridors	PCA 37 – A historical dry cleaner was depicted on the 1915 and 1950 FIPs. Additionally a dry cleaner was listed in the municipal directories between 1916-1950.

Address	Proximity	Potential Concern
32 Queen Street	Approximately	PCA 18 – A potential electric power station was listed in the
(appears to have	45 m north of	municipal directories in 1931.
amalgamated with	the Corridors	PCA 34- A historical machine shop was depicted on the 1915 FIPs.
40 Queen Street)		
33 Queen Street	Approximately	PCA 10 – An auto body repair garage was listed in the municipal
(appears to have	55 m north of	directories between 1931-1941.
amalgamated with	the Corridors	PCA 52 – An automotive service garage was listed in the municipal
60-70 Dalhousie		directories in 1946.
Street)		
1 Market Street	North-and-	PCA 18 – A potential electric power station was listed in the
	south adjacent	municipal directories between 2007-2012.
	to the Corridors	PCA 28 - A potential fill and vent pipe was located on the south-
		central portion of the building, north-adjacent to Colborne Street
		East.
		PCA 34- The property was listed as an industrial and commercial
		machinery and equipment facility. GEN - The property was registered as a generator of hazardous
		wastes, which included aliphatic wastes between 2018-2019.
44 Market Street	Approximately	PCA 39 – A potential bulk paint storage facility was listed in the
TH WILLIAM STICE	35 m north of	municipal directories between 1946-1975.
	the Corridors s	PCA other – A potential coal storage facility was listed in the
		municipal directories in 1912.
50 Market Street	Approximately	PCA Other – The property was registered with a CPU for the
(appears to have	45 m north of	property.
amalgamated with	the Corridors	
50 Market Street)		
54 Market Street	Approximately	PCA 36 – A potential bulk oil storage facility was listed in the
(appears to have	60 m north of	municipal directories in 1912.
amalgamated with	the Corridors	
50 Market Street)		
3 George Street	Approximately	PCA 37 – A suspected dry cleaner was listed in the municipal
(appears to have	15 m north of	directory between 1946-1975.
amalgamated with 1	the Corridors	
Market Street)		D0440 A 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11-13 George Street	Approximately	PCA 18 – A potential electrical power station was listed in the
(appears to have	25 m north of the Corridors	municipal directories in 1916 and between 1970-1975. PCA 37 – A suspected dry cleaner was listed in the municipal
amalgamated with 1 Market Street)	the corndors	directories between 1975-1981.
iviai ket Street)		PCA 54 – A textile manufacturing facility was listed in the municipal
		directories between 1970-1981.
23 George Street	Approximately	PCA 37 – A suspected dry cleaner was listed in the municipal
(appears to have	20 m south of	directories in 1941.
amalgamated with 1	the Corridors	- W. 55(5) 100 HT 17 TH
Market Street)		
41 George Street	North-adjacent	GEN- The property was registered as a generator of hazardous
	to the Corridors	wastes between 2003-2004, however, no records were provided
45-47 George Street	Approximately	PCA 52 – Several automotive service garages were listed in the
(appears to have	20 m north of	municipal directories between 1926-1941.
amalgamated with	the Corridors	
41 George Street)		

Address	Proximity	Potential Concern
51-53 George Street	Approximately	PCA 12 – A potential concrete manufacturing facility was listed in the
(appears to have	50 m north of	municipal directories between 1916-1921.
amalgamated with	the Corridors	PCA 19 – A potential electrical sales and service facility was listed in
41 George Street)		the municipal directories between 1965-1970.
7-11 Charlotte Street	West-adjacent	PCA 10 – A potential automotive service garage was listed in the
(appears to have	to the Corridors	municipal directories between 1941-1960.
amalgamated with		PCA 34 - A potential machine shop ("Eagle Press") was listed in the
262 Colborne Street		municipal directories in 1950
East)		
5 Clarence Street	East-adjacent	PCA 52 – A suspected automotive service garage was listed in the
(appears to have	to the Corridors	municipal directories between 1981-1991.
amalgamated with		
298-306 Colborne		
Street East)		
11 Clarence Street	East-adjacent	PCA 28 – The property was listed in the TSSA database with one
	to the Corridors	active oil tank.
		PCA 52 – A historical automotive garage was depicted on the 1965
		FIP. Additionally, automotive service garages were listed in the
		municipal directories between 1960-2012. During the inspection of
10.01		the Corridors , an automotive service garage was observed.
18 Clarence Street	Approximately	PCA 34- Historical machine shop as depicted on the 1950 and 1965
	30 m north of	FIPs. Additionally, several machine shops were listed in the municipal
00.01	the Corridors	directories between 1936-1975.
20 Clarence Street	Approximately	PCA 52 –A historical automotive garage was depicted on the 1950
	40 m north of	and 1965 FIPs. Additionally, an automotive service garage was listed
	the Corridors	between 1921-1950.
		During the inspection of the Corridors s, one monitoring well and
		evidence of boreholes were observed within the parking lot.
21 Clarence Street	Approximately	PCA 52 – An automotive service garage was listed in the municipal
(appears to have	10 m north of	directories in 1921.
amalgamated with	the Corridors	un octorios in 1721.
196 Dalhousie Street)		
97 Alfred Street	Approximately	PCA 37 – A historical dry cleaner was reported in the Phase One ESA
7771111041011001	20 m south of	completed for 81 Peel Street in Brantford. Additionally, the building
	Dalhousie	was labeled "Cleaner" as depicted on the 1965 FIP. Additionally, a
	Street	dry cleaner was listed in the municipal directories between 1955-
		2002.
		GEN - The property was registered as a generator of halogenated
		solvents between 1984-2004 with the exception in 1990 and 1991.
113 Alfred Street	Approximately	PCA 52 – Suspected private automotive service garaged were listed
(appears to have	60 m north of	in the municipal directories between 1950-1986.
amalgamated with	the Corridors	
187 Darling Street)		
7 Stanley Street	North-adjacent	PCA 28 - One UST was located west of the service building as
	to the Corridors	depicted on the 1965 FIP. Additionally, several fuel service stations
		were listed in the municipal directories between 1955-1991.
		PCA 52 – A historical automotive garage was depicted on the 1965
		FIP.

Address	Proximity	Potential Concern
		GEN- The property was registered as a generator of light fuels
		between 1992-1998 and 2014-2019 and waste oils and sludges
		between 2010-2011 and 2013-2019.
		SPL- On August 27, 1991, gasoline contaminated soil was found at
		the property from the former service station.
8 Stanley Street	North-adjacent	PCA 52 – A historical automotive garage was depicted on the 1950
(appears to have	to the Corridors	and 1965 FIPs, which included a painting shop in 1965.
amalgamated with	ļ	
10 Stanley Street)	Caratha adla acat	DOA 44 A
11-15 Stanley Street	South-adjacent	PCA 11 – A commercial trucking terminal was listed in the municipal
(appears to have	to the Corridors	directories between 1950-1970.
amalgamated with 9	ļ	
Stanley Street) 20 Stanley Street	North-adjacent	DCA 52 Multiple automative service garages were listed in the
	to the Corridors	PCA 52 – Multiple automotive service garages were listed in the municipal directories between 1960-1970.
39 Darling Street	Approximately	PCA 28 – A potential historical fuel service station was depicted on
(appears to have	65 m north of	the 1950 FIP, which included three USTs located north of the garage.
amalgamated with	the Corridors	PCA 52 – A historical automotive garage was depicted on the 1950
60-70 Dalhousie		FIP.
Street)	Approximately	DCA F2. A historical automative garage was depicted on the 10F0
47-49 Darling Street (appears to have	Approximately 40 m north of	PCA 52- A historical automotive garage was depicted on the 1950 FIP. Additionally, several automotive service garages were listed in
amalgamated with	the Corridors	the municipal directories between 1921-1950.
53-55 Darling Street)	the corruors	the municipal directories between 1721-1730.
55 Darling Street	Approximately	PCA 52 – A historical automotive garage was depicted on the 1915
00 2 ag c oc t	40 m north of	FIP. Additionally, multiple automotive service garages were listed in
	the Corridors	the municipal directories between 1912-1921.
63 Darling Street	Approximately	PCA 37 – A suspected dry cleaner was listed in the municipal
(appears to have	70 m north of	directories between 1936-1941 whereas a dry cleaner was listed
amalgamated with	the Corridors	between 1965-1975.
88 Dalhousie Street)		
20-26 Water Street	Approximately	PCA 52 – An automotive service garage was listed in the municipal
(No longer a	35 m south of	directories in 1946. A potential service garage was listed between
municipal address)	the Corridors	1950-1955.
44 Water Street (appears to have	Approximately 35 m south of	PCA 52 – Several automotive service garages were listed in the
amalgamated with	the Corridors	municipal directories between 1936-1960.
49 Colborne Street	THE COLLINOLS	
East)		
52-54 Water Street	Approximately	PCA 28 - Two historical USTs located south of the garage as depicted
(appears to have	35 m south of	on the 1950 FIP.
amalgamated with	the Corridors	PCA 52 – A historical transport garage was depicted on the 1950 FIP.
50 Water Street)		Additionally, automotive service garages were listed in the municipal
		directories between 1950-1955.
74 Water Street	Approximately	PCA 52 – A suspected automotive service garage was listed in the
(appears to have	30 m south of	municipal directories in 1955.
amalgamated with	the Corridors	
101 Colborne Street		
East)		

Address	Proximity	Potential Concern
88 Water Street (appears to have amalgamated with 101 Colborne Street East)	Approximately 30 m south of the Corridors	PCA 52 – A potential automotive service garage was listed in the municipal directories in 1926.
100 Water Street (address location unknown; inferred to have amalgamated with 101 Colborne Street East)	Inferred approximately 30 m south of the Corridors	GEN - The property was registered as a generator of hazardous wastes, including oil skimmings and sludged in 2016.
116 Water Street (appears to have amalgamated with 101 Colborne Street East)	Approximately 35 m south of the Corridors	PCA 52 – A potential automotive service garage was listed in the municipal directories in 1981.
120-126 Water Street (appears to have amalgamated with 101 Colborne Street East)	Approximately 35 m south of the Corridors	PCA 52 – Several potential automotive service garages were listed in the municipal directories between 1950-195
126 Water Street (appears to have amalgamated with 99 Colborne Street East)	Approximately 30 m south of the Corridors	PCA 34 – A historical machine shop was depicted on the 1965 FIP.
136-142 Water Street (appears to have amalgamated with 99 Colborne Street East)	Approximately 30 m south of the Corridors	PCA 52 – A historical automotive garage was depicted on the 1950 FIP.
146 Water Street (appears to have amalgamated with 171 Colborne Street East)	Approximately 20 m south of the Corridors	PCA 52 – An automotive service garage was listed in the municipal directories between 1946-1950.
150 Water Street (appears to have amalgamated with 171 Colborne Street East)	Approximately 30 m south of the Corridors	PCA 52 – A historical automotive garage was depicted on the 1950 and 1965 FIPs.
6 Wharfe Street (address location unknown; Inferred to have amalgamated with 173 Colborne Street East)	Approximately 30 m south of the Corridors	PCA 47 – A rubber manufacturing facility was listed in the municipal directories between 1912-1931.

Address	Proximity	Potential Concern
18 Wharfe Street (appears to have amalgamated with 197 Colborne Street East)	Approximately 30 m south of the Corridors	PCA 39 – A potential bulk paint storage facility was listed in the municipal directories between 1970-1975.
20 Wharfe Street (appears to have amalgamated with 197 Colborne Street East)	Approximately 30 m south of the Corridors	PCA 11 – A potential commercial trucking terminal was listed in the municipal directories in 1931.
30-32 Wharfe Street (appears to have amalgamated with 205-211 Colborne Street East)	Approximately 30 m south of the Corridors	PCA 10 – A potential auto body repair shop was listed in the municipal directories between 1936-1950. PCA 52 – Multiple automotive service garages were listed in the municipal directories between 1941-2002.
52 Wharfe Street (inferred to have amalgamated with 225 Colborne Street East)	Approximately 30 m south of the Corridors	PCA 11 – A potential commercial trucking terminal was listed in the municipal directories in 1936 and 1946. PCA 52 – Several automotive service garages were listed in the municipal directories between 1936-1955.
55 Wharfe Street (appears to have amalgamated with 63 Wharf Street)	Approximately 65 m south of the Corridors	PCA 28- Three USTs located west of the automotive garage as depicted on the 1950 FIP. PCA 52- A historical automotive garage was depicted on the 1950 and 1965 FIPs. Additionally, multiple automotive service garages were listed in the municipal directories between 1960-1975 (listed under 35 Wharfe Street, inferred to be 55 Wharfe Street based on FIP records)
59 Wharfe Street (appears to have amalgamated with 63 Wharf Street)	Approximately 70 m south of the Corridors	PCA Other- A historical coal storage was depicted on the 1950 FIP.
62 Wharfe Street (address location unknown	Approximately 30m south of the Corridors	PCA 52 – An automotive service garage was listed in the municipal directories in 1946.
65-69 Wharfe Street (65 appears to have amalgamated with 63 Wharfe, and 69 appears to have amalgamated with 1100 Clarence Street South)	Approximately 65 m south of the Corridors	PCA 52 – Multiple automotive service garages were listed in the municipal directories between 1965-1986.
79 Wharfe Street (appears to have amalgamated with 63 Wharfe Street)	Approximately 65 m south of the Corridors)	PCA 28- A potential historical fuel service station was depicted on the 1950 FIP, which included three USTs east of the building. PCA 52- A historical automotive garage was depicted on the 1950 and 1965 FIPs.
3 & 11 Iroquois Street	South-adjacent to the Corridors	GEN- The property was registered as a generator of hazardous waste, which included light fuels between 2002-2004.

Address	Proximity	Potential Concern
110 Icomm Drive (appears to have amalgamated with 1100 Clarence Street South)	Approximately 70 m south of the Corridors	PCA Other- A historical coal storage was depicted on the 1950 FIP.
7 Bain Street (appears to have amalgamated with 225 Colborne Street East)	Approximately 40 m south of the Corridors	PCA 52 – A potential automotive service garage was listed in the municipal directories between 1940-1950.

Notes:
Table should be read in conjunction with Figure 2
PCA # assigned in accordance with Schedule D, Table 2 of Ontario Regulation 153/04

Appendix C

Borehole Logs





The following are abbreviations and symbols commonly used on borehole logs, figures and reports.

Sample Types

AS	Auger Sample
CS	Chunk Sample
BS	Bulk Sample
GS	Grab Sample
WS	Wash Sample
SS	Split Spoon
RC	Rock Core
SC	Soil Core
TW	Thinwall, Open
TP	Thinwall, Piston

Soil Tests

PP	Pocket Penetrometer
FV	Field Vane
SPT	Standard Penetration Test
CPT	Cone Penetration Test
WC	Water Content
WL	Water Level

Penetration Resistance

Standard Penetration Test, N (ASTM D1586)	The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in.) required to drive a 50 mm (2 in.) open spilt spoon sampler for a distance of 300 mm (12 in.).
Dynamic Cone Penetration Resistance	The number of blows by a 63.5 kg (140 lb) hammer dropped 760 mm (30 in.) required to drive an uncased 50 mm (2 in.) diameter, 60o cone attached to "A" size drill rods for a distance of 300 mm (12 in.).

Soil Description

Cohesive Soils	Undrained Shear Strength (Cu)						
Consistency	kPa	psf					
Very Soft	0 to 12	0 to 250					
Soft	12 to 25	250 to 500					
Firm	25 to 50	500 to 1,000					
Stiff	50 to 100	1,000 to 2,000					
Very Stiff	100 to 200	2,000 to 4,000					
Hard	Above 200	Above 4,000					

Cohesionless Soils	
Relative Density	SPT N Value
Very Loose	0 to 4
Loose	4 to 10
Compact	10 to 30
Dense	30 to 50
Very Dense	Above 50

WH	Sampler advanced by static weight of hammer
WR	Sampler advanced by static weight of drilling rods
PH	Sampler advanced by hydraulic force
PM	Sampler advanced by manual force

DTPL	Drier than Plastic Limit
APL	About Plastic Limit
WTPL	Wetter than Plastic Limit
mbgs	Metres below Ground Surface

ID No.: BH101-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

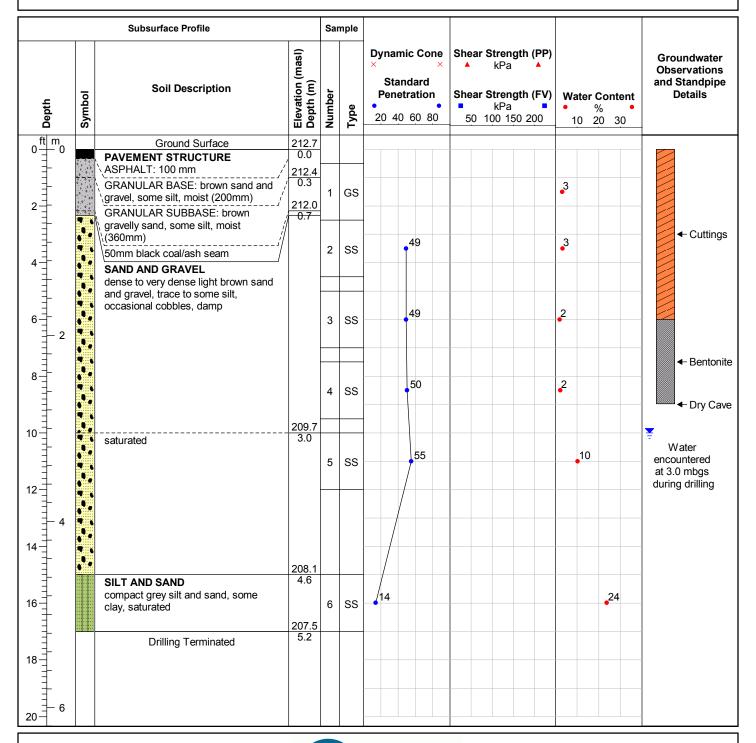
Date Completed: 5/6/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH102-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

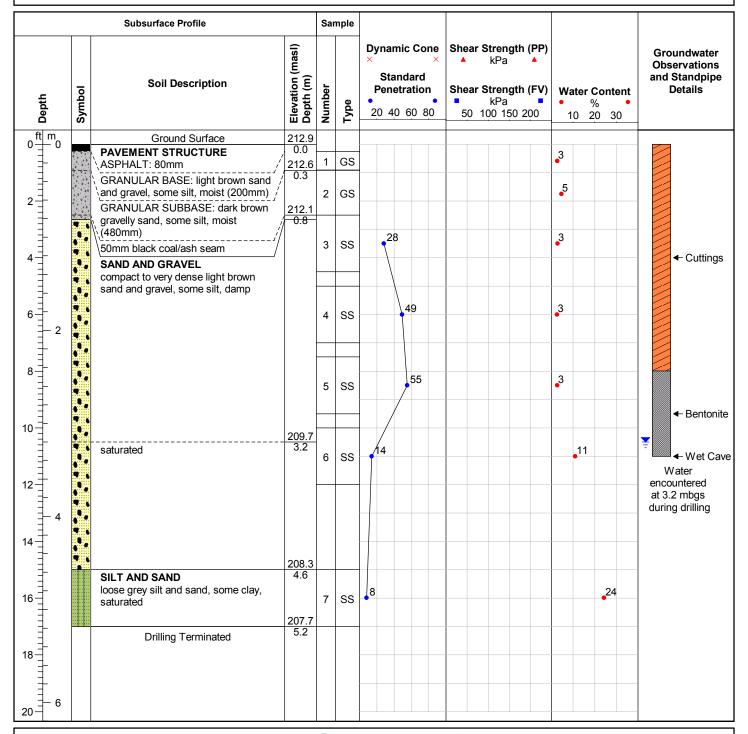
Date Completed: 5/6/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH103-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

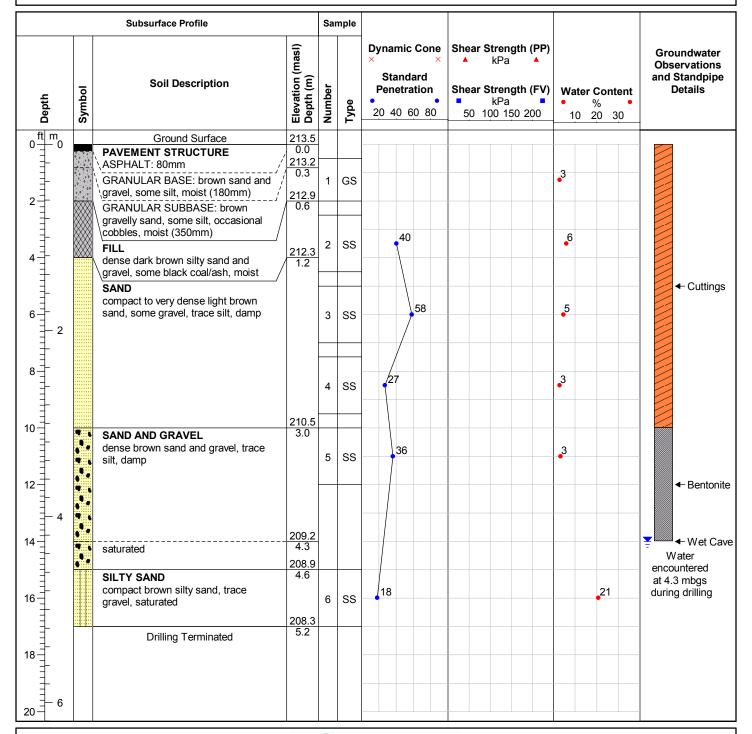
Date Completed: 5/6/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH104-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

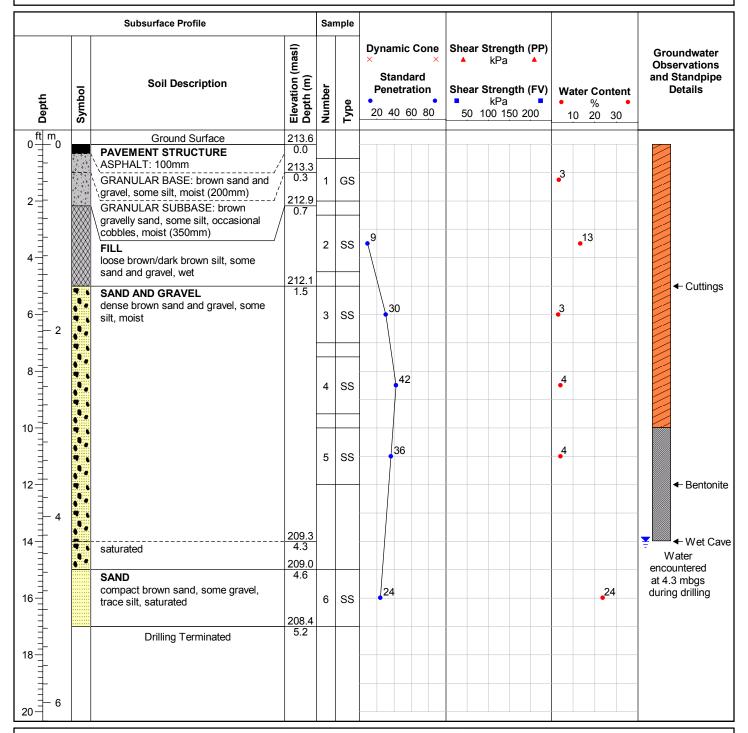
Date Completed: 5/6/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH105-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

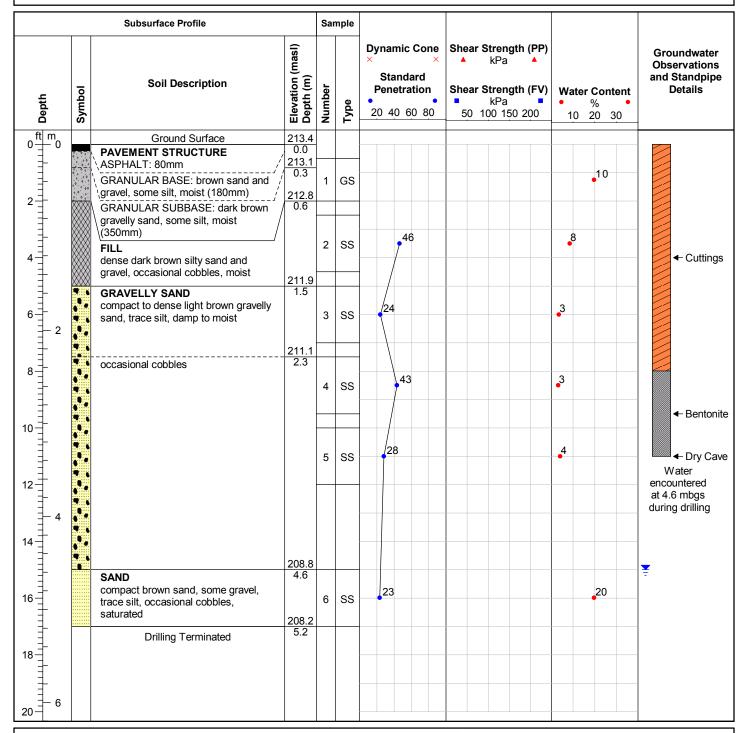
Date Completed: 5/6/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH106-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

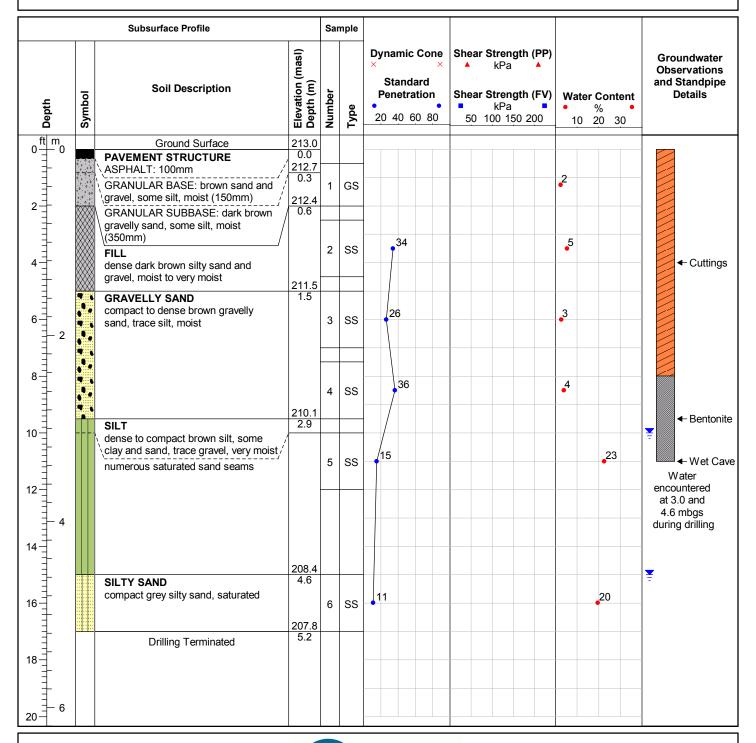
Date Completed: 5/6/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH107-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

Date Completed: 5/5/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A

			Subsurface Profile		Sai	mple							
Depth		Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Dynamic (× Standa Penetrat 20 40 60	rd ion	Shear Stree Shear Stree kPa 50 100 1	ngth (FV)	•	r Content % • 20 30	Groundwater Observations and Standpipe Details
0 ft 1	m - 0		Ground Surface	211.7									
2-			PAVEMENT STRUCTURE ASPHALT: 130mm GRANULAR BASE: brown sand and gravel, some silt, moist (180mm)	0.0	1	GS					2		
4			GRANULAR SUBBASE: brown gravelly sand, trace silt, numerous cobbles, moist (480mm) FILL dense brown gravelly silt and sand, very moist	210.9 0.8	2	SS	33				6		
‡			•	210.2 1.5									← Cuttings
6	- 2		SILT TILL compact light brown silt, some clay and sand, trace gravel, very moist to wet	1.5	3	ss	/11					21	
‡													
8 -		. .	SILTY SAND	209.1 2.6	4	ss	19					17	¥
10			compact brown silty sand, trace gravel, saturated	208.7									
			SILT AND SAND compact brown silt and sand, saturated	3.0	5	SS	21					20	
12													← Bentonite
}	- 4												
14=				207.1									← Wet Cave Water
1 1			grey	4.6			16					25	encountered at 2.6 mbgs during drilling
16				206.5	6	SS							, 209 5119
18			Drilling Terminated	5.2									
}													
20	- 6												

Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH108-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

Date Completed: 5/5/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A

		Subsurface Profile		Sai	nple				
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Dynamic Cone × × Standard Penetration 20 40 60 80	Shear Strength (PP) kPa Shear Strength (FV) kPa 50 100 150 200	Water Content % 10 20 30	Groundwater Observations and Standpipe Details
0 ft m		Ground Surface	210.3 0.0						
2		PAVEMENT STRUCTURE ASPHALT: 90mm GRANULAR BASE: dark brown sand and gravel, some silt, moist (210mm) GRANULAR SUBBASE: dark brown	210.0 0.3 209.6	1	GS			4	
4		silty sand and gravel, moist (360mm) FILL compact brown silt and sand, some gravel, very moist	0.7	2	SS	16		9	← Cuttings
	\bowtie		208.8						
6		SILT AND SAND compact light brown silt and sand, trace gravel, wet	1.5	3	SS	16		11	
]			208.0						
8=		saturated	2.3	4	ss	10		_ 15	
1 . 1			207.3						
10		grey	3.0	5	SS	12		21	← Bentonite
12 = 4									
14-									← Wet Cave Water
16			205.1 5.2	6	SS	20		21	encountered at 2.3 mbgs during drilling
18 - 6		Drilling Terminated	J.Z						

Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH109-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

Date Completed: 5/5/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A

		Subsurface Profile		Saı	nple					
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	>	Oynamic Cone × Standard Penetration 20 40 60 80	Shear Strength (PP) kPa Shear Strength (FV) kPa 50 100 150 200	Water Content % 10 20 30	Groundwater Observations and Standpipe Details
0 ft m		Ground Surface	204.2							
2-	÷ ~ ÷	PAVEMENT STRUCTURE ASPHALT: 100mm GRANULAR BASE: dark brown sand / and gravel, some silt, moist (150mm)	0.0 203.9 0.3 203.6 0.6	1	GS				•7	
4		GRANULAR SUBBASE: dark brown gravelly sand, some silt, moist (360mm) FILL compact dark brown silty sand, some	0.6	2	SS		12		. 6	← Cuttings
‡	\bowtie	gravel, very moist	202.7							
6 - 2		SILTY SAND compact light brown silty sand, trace gravel, moist	1.5	3	ss		14		10	
‡			201.9			1/				<u> </u>
8=		loose, saturated	2.3	4	ss		8		•18	◆ Bentonite
1,0 =			201.2			┪╽				→ Wet Cave
10		SAND AND GRAVEL compact brown sand and gravel, trace silt, saturated	3.0	5	ss		15		. 15	Water encountered at 2.3 and
12 - 4		SILT TILL compact brown silt, some clay and sand, trace gravel, very moist	3.5						£24	4.6 mbgs during drilling
14 —										
‡	<u> </u>	 	199.6							-
16-		grey, saturated	4.6 199.0	6	ss		11		_23	-
18 - 6		Drilling Terminated	5.2							
20 –										

Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH110-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

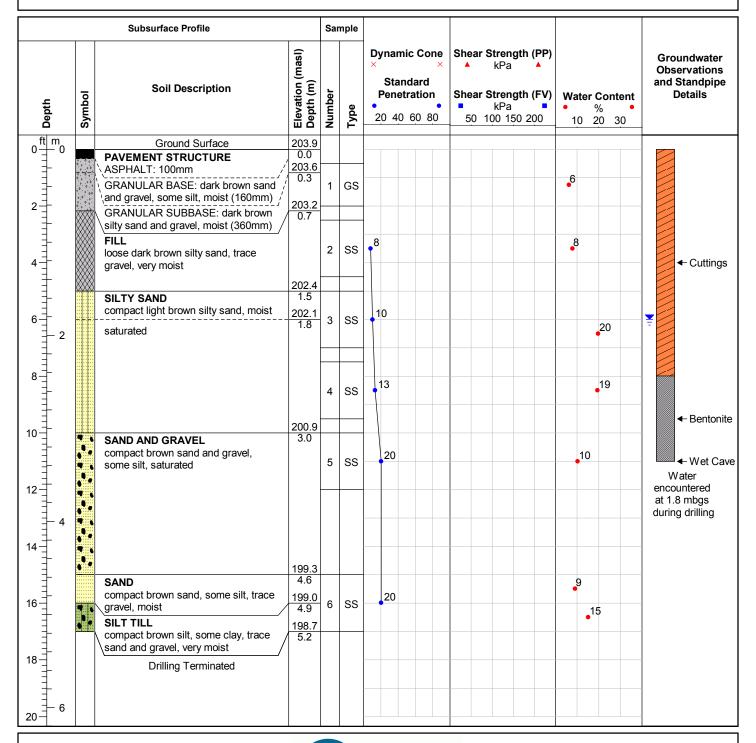
Date Completed: 5/5/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: MW111-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100 Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

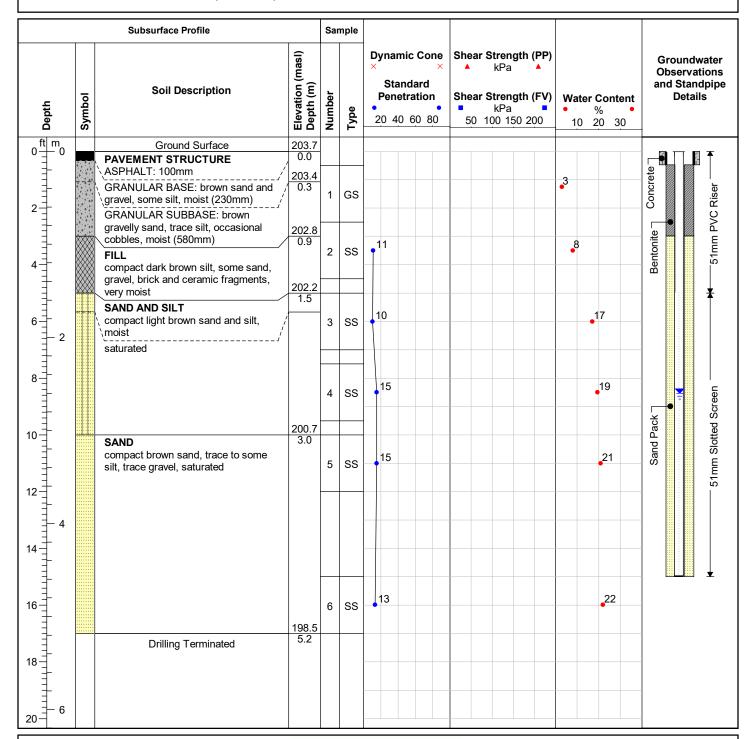
Date Completed: 5/5/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



Sheet: 1 of 1

Water encountered at 1.7mbgs (Elevation 202.0masl) during drilling.

Water measured at 2.6mbgs (Elevation

201.1masl) on July 6, 2021.

ID No.: BH112-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

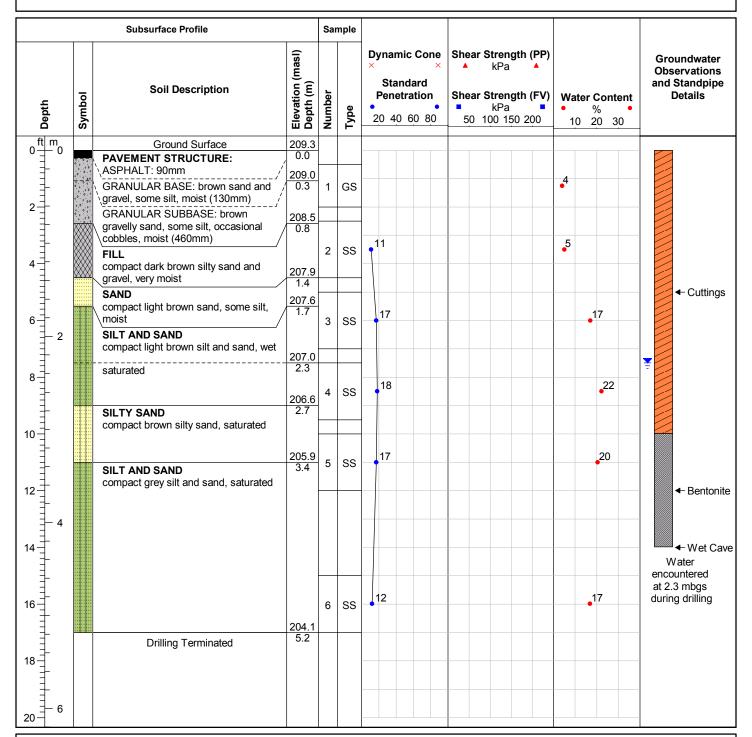
Date Completed: 5/4/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH113-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

Date Completed: 5/3/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A

		Subsurface Profile		Sar	nple				
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Dynamic Cone × × Standard Penetration 20 40 60 80	Shear Strength (PP) kPa Shear Strength (FV) kPa 50 100 150 200	Water Content	Groundwater Observations and Standpipe Details
0 t m		Ground Surface	210.8						
2		PAVEMENT STRUCTURE \ASPHALT: 80mm \GRANULAR BASE: brown sand and / \gravel, trace silt, moist (230mm) GRANULAR SUBBASE: brown	210.5 0.3 210.1 0.7	1	GS			2	
4	•	gravelly sand, trace silt, occasional cobbles, moist (400mm) GRAVELLY SAND compact to very dense light brown gravelly sand, trace to some silt, moist		2	SS	29		4	
6 - 2		occasional cobbles	209.3 1.5	3	SS	34		3	← Cuttings
8-1-				4	SS	54		4	
10				5	SS	43		3	◆ Bentonite
14-1			206.2						← Dry Cave
16-		GRAVELLY SAND AND SILT dense brown gravelly sand and silt, saturated	4.6 205.6 5.2	6	SS	46		27	Water encountered at 4.6mbgs during drilling
18 - 6		Drilling Terminated	5.2						

Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH114-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

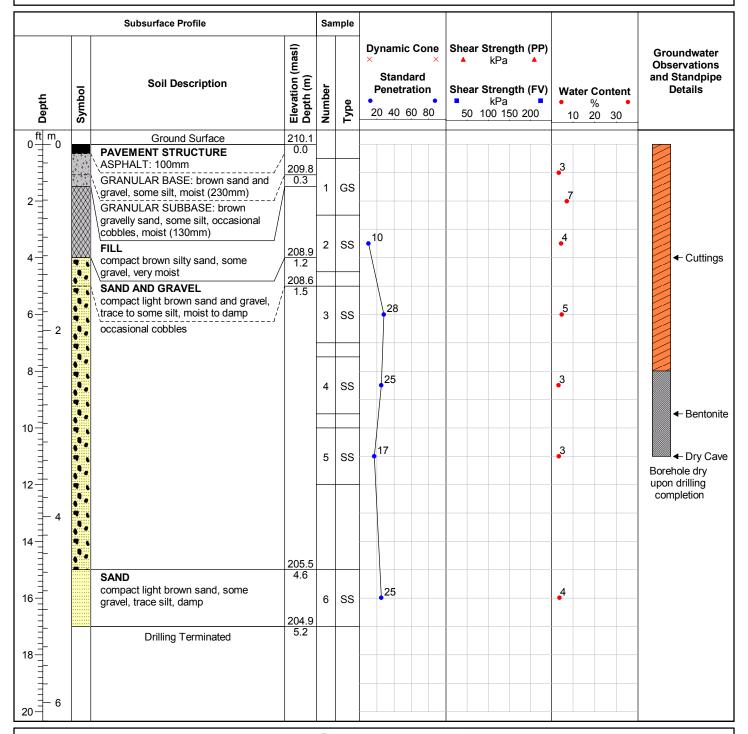
Date Completed: 5/3/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH115-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

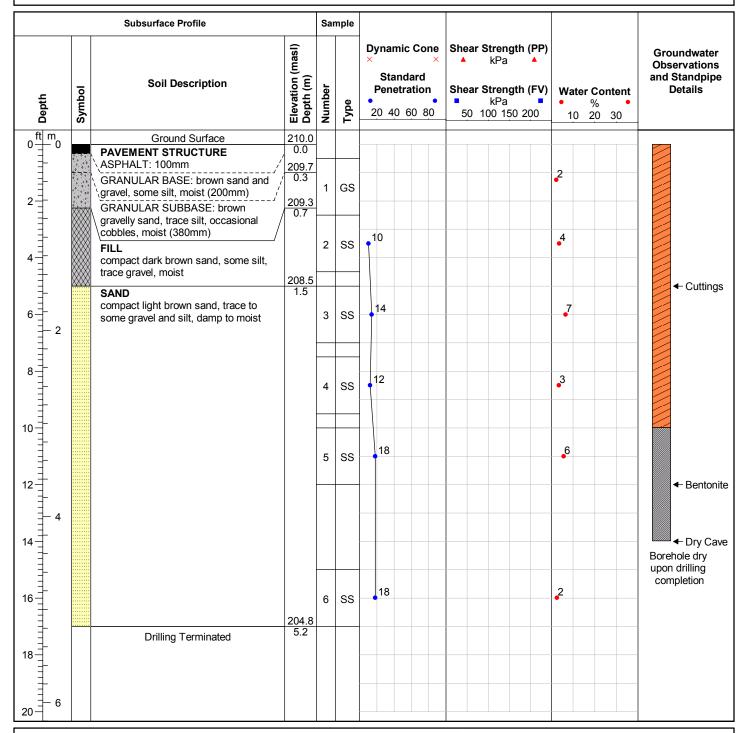
Date Completed: 5/3/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH116-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

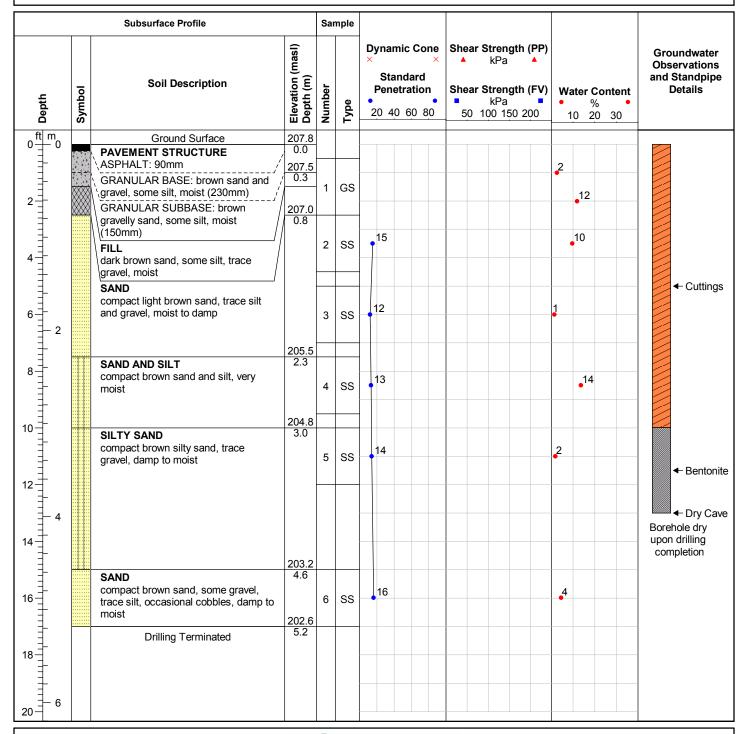
Date Completed: 5/3/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH117-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

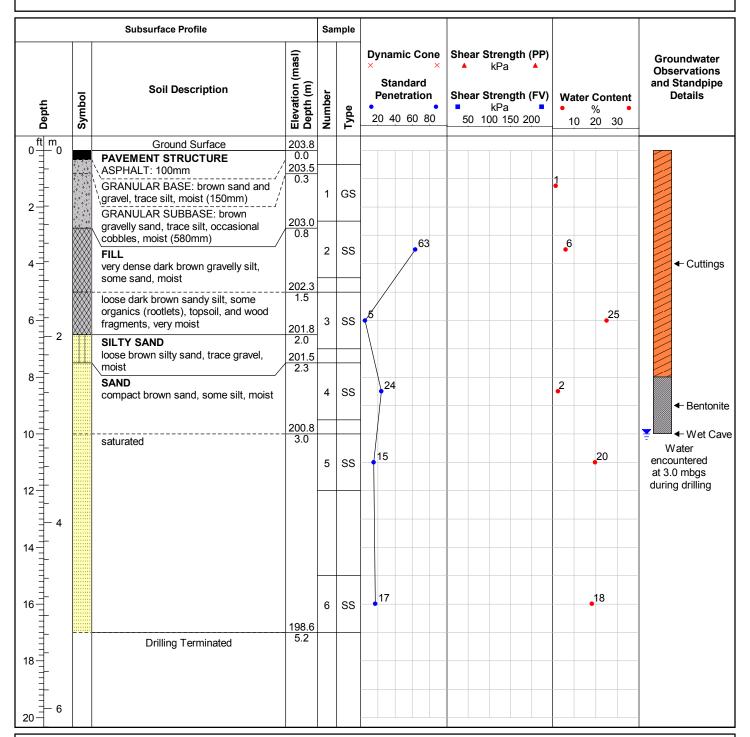
Date Completed: 4/30/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH118-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

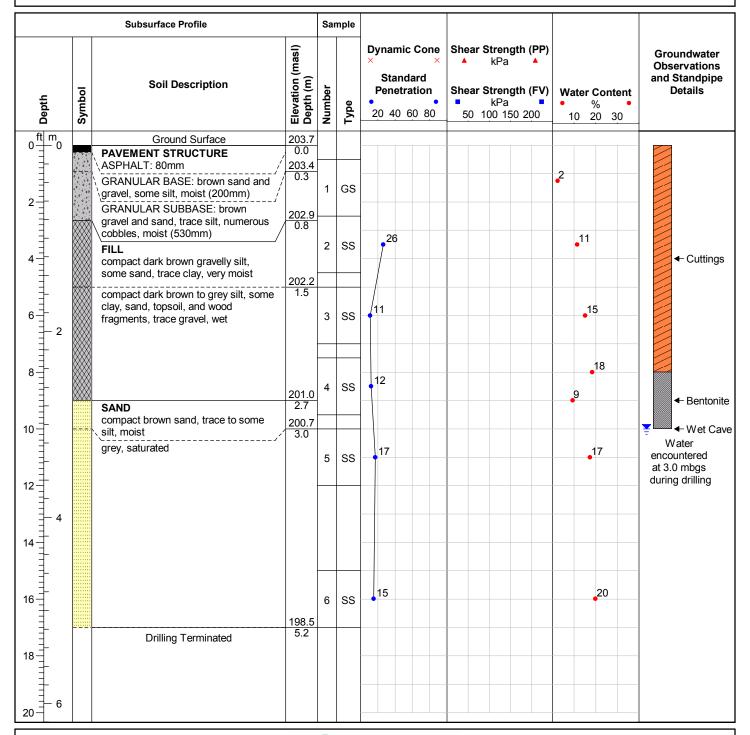
Date Completed: 4/30/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: MW119-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

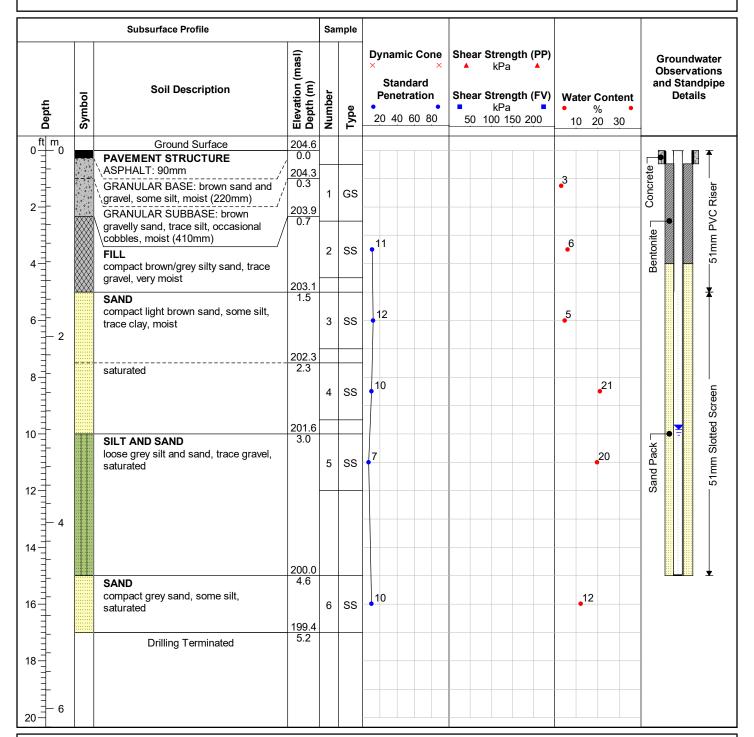
Date Completed: 4/30/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: Flush Mount



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



Sheet: 1 of 1

vvai

Water encountered at 2.3mbgs (Elevation 202.3masl) during drilling.
Water measured at 3.0mbgs (Elevation

201.6masl) on July 6, 2021.

ID No.: BH120-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

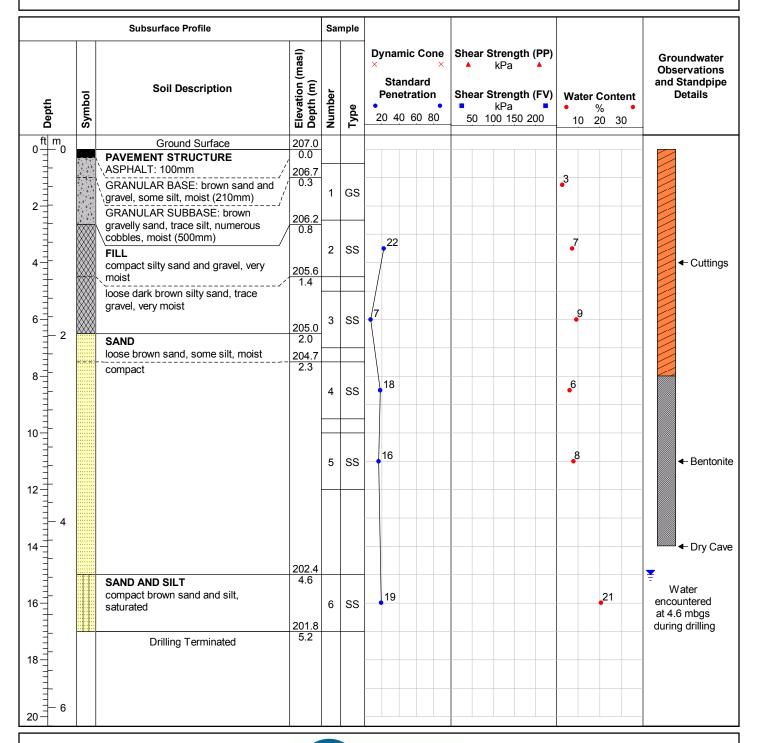
Date Completed: 4/30/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH121-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Dalhousie Street, Brantford, ON

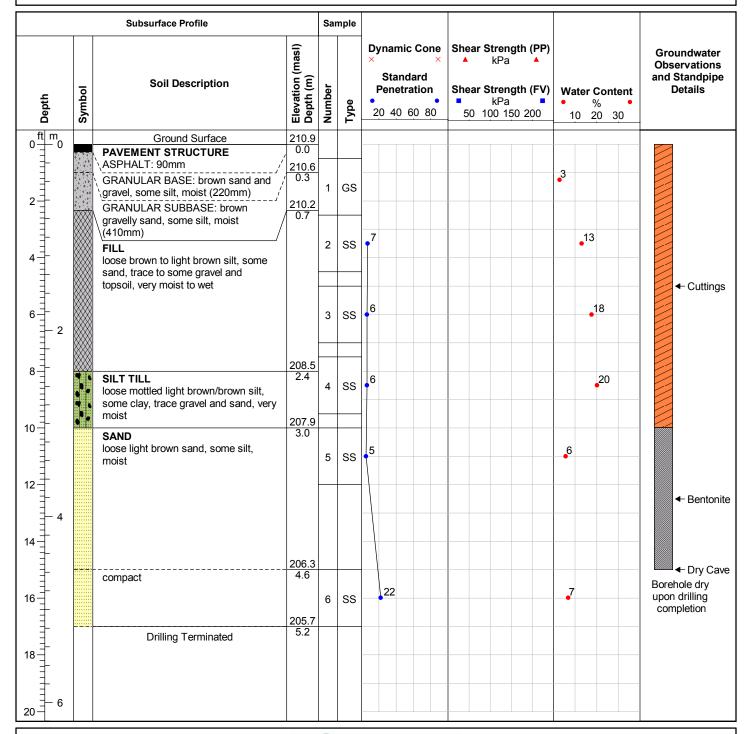
Date Completed: 4/30/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH122-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Brant Avenue, Brantford, ON

Date Completed: 5/11/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A

			Subsurface Profile		Sar	nple							
Depth		Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Туре	×	Standard Penetration	Shear Streng	ith (FV)	•	Content % • 20 30	Groundwater Observations and Standpipe Details
0 ft m			Ground Surface	211.4									
2		· · · · · · · · · · · · · · · · · · ·	PAVEMENT STRUCTURE ASPHALT: 130mm GRANULAR BASE: brown sand and /gravel, some silt, moist (180mm) GRANULAR SUBBASE: brown sand and gravel, trace silt, occasional	210.6 0.8	1	GS					3		
4=			cobbles, moist (480mm) FILL compact brown silty sand and gravel, very moist	200.0	2	SS		21			4		← Cuttings
6	×		SAND AND GRAVEL compact brown sand and gravel, some silt, moist	209.9 1.5	3	SS		18			7		
1 1 2		٠,	Some siit, moist	209.3									
1 ‡			SILT AND SAND	2.1									<u> </u>
8-1-			compact light brown silt and sand, wet / saturated grey	208.8 2.6	4	ss		14				21	◆ Bentonite
10=	:			208.4 3.0									← Wet Cave
12-		<i>/</i>	SANDY SILT AND CLAY frim to stiff grey sandy silt and clay, WTPL with multiple saturated sand seams	3.0	5	SS	8		50			_26	Water encountered at 2.3 mbgs during drilling
- 4		<i>}</i>											
14 =		/											
16-1		/		206.2	6	SS	7					26	
18-1			Drilling Terminated	5.2									
20 6													

Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH123-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: King Street, Brantford, ON

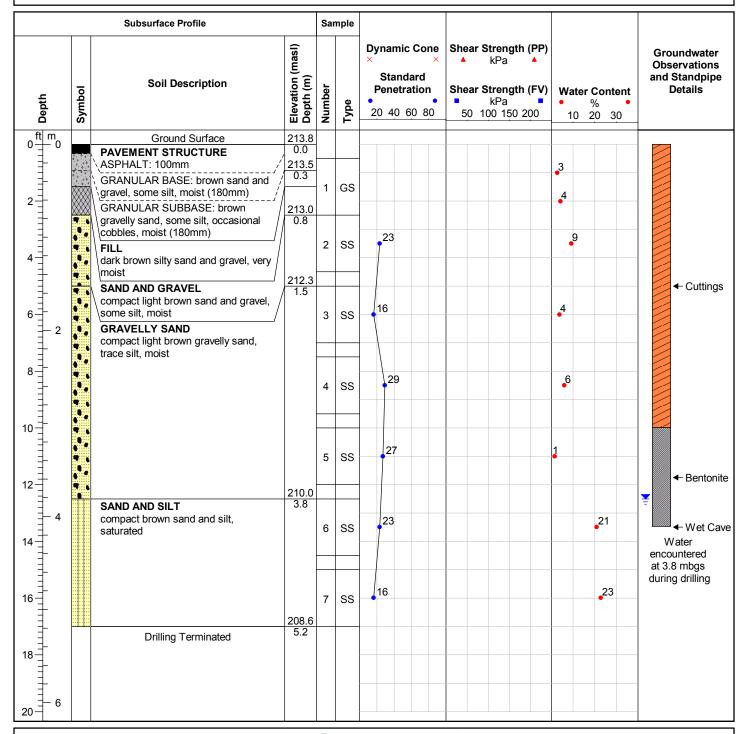
Date Completed: 5/11/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH124-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Queen Street, Brantford, ON

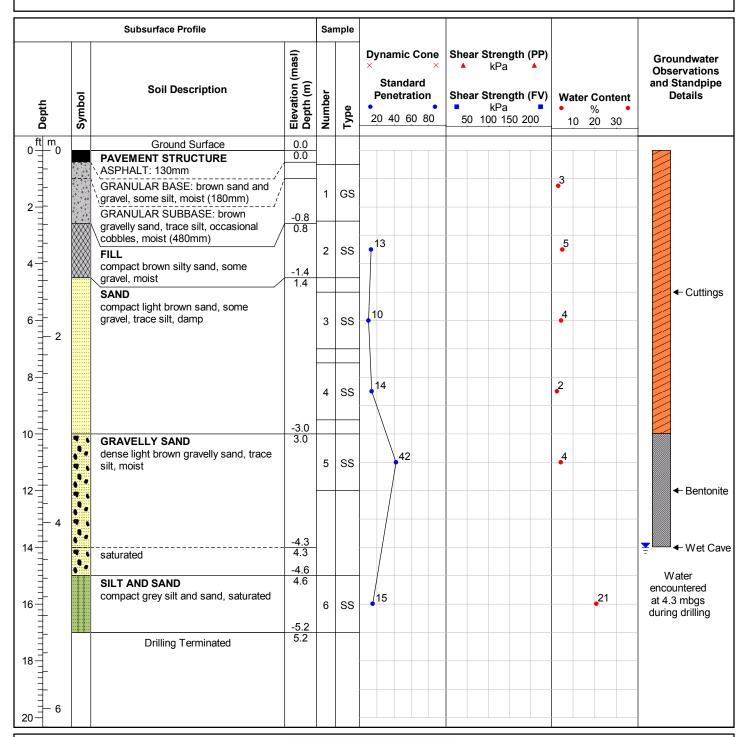
Date Completed: 5/12/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH125-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Charlotte Street, Brantford, ON

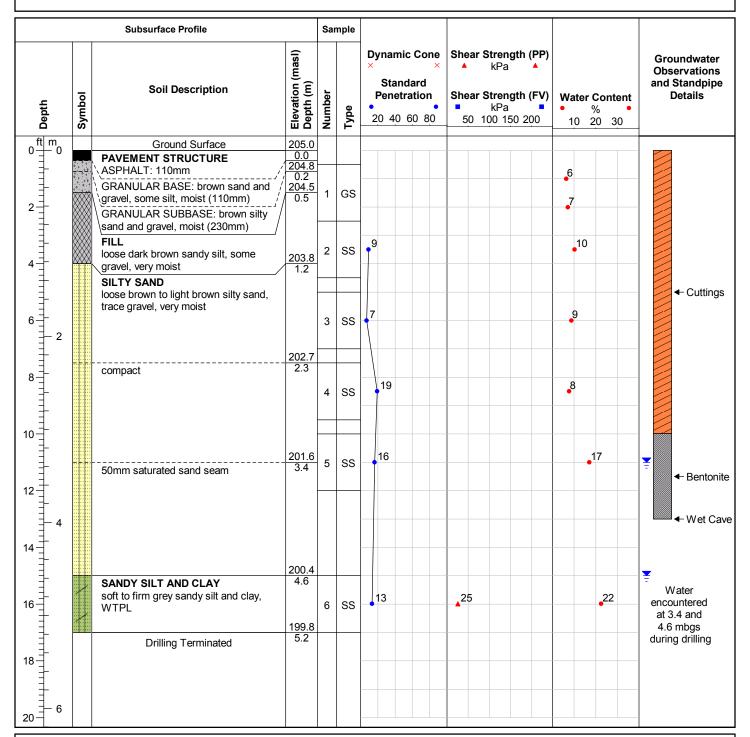
Date Completed: 5/11/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH126-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Clarence Street, Brantford, ON

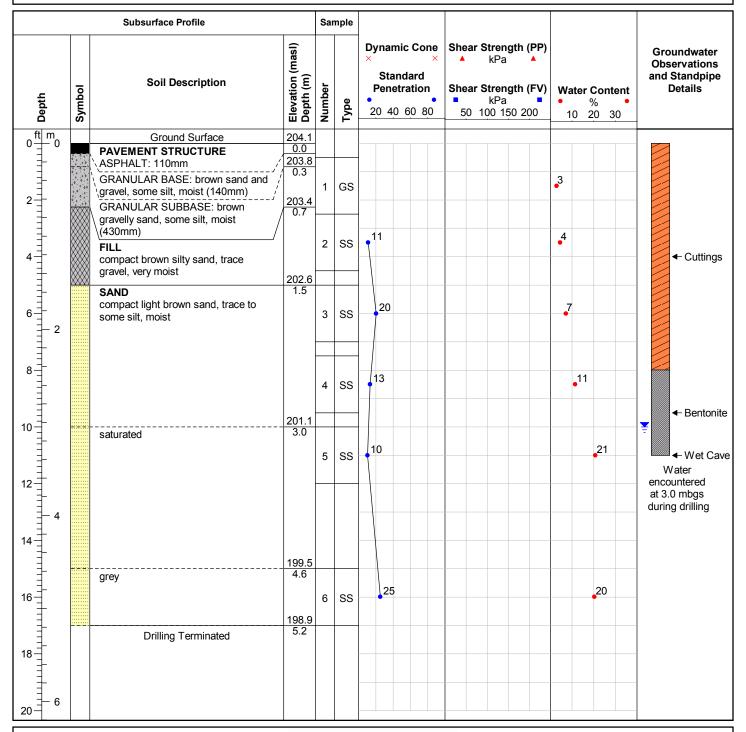
Date Completed: 5/11/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: MW127-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100 Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

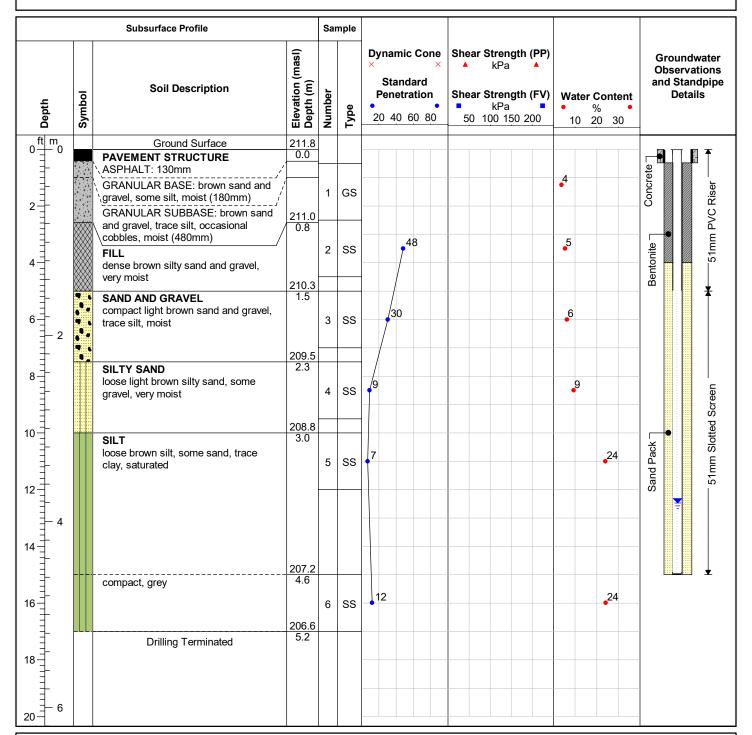
Date Completed: 5/12/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: Flush Mount



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



Water encountered at 3.0mbgs (Elevation 208.8masl) during drilling. Water measured at 3.8mbgs (Elevation

208.0masl) on July 6, 2021.

ID No.: BH128-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

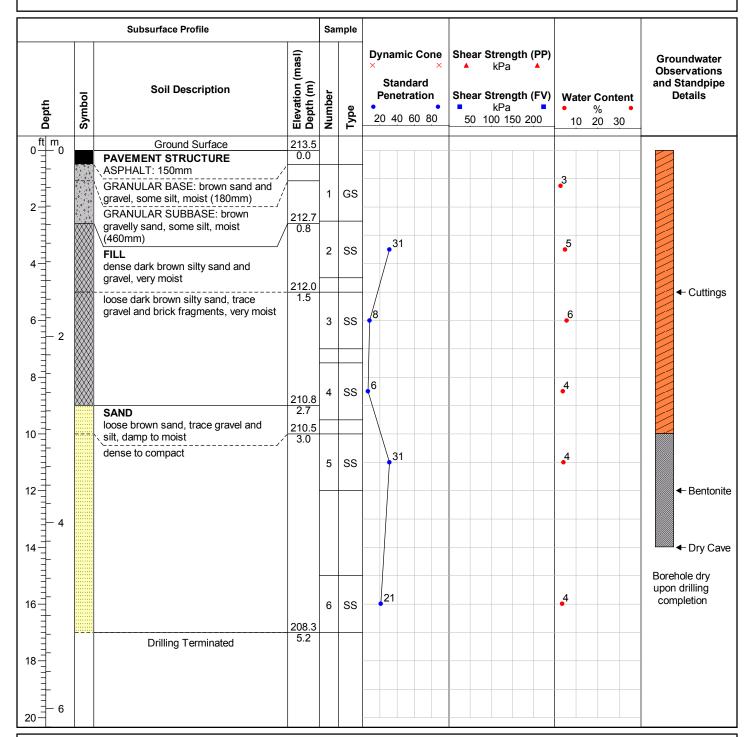
Date Completed: 5/12/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH129-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

Date Completed: 5/13/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A

		Subsurface Profile		Sa	mple			
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)		Type	Dynamic Cone × × Standard Penetration 20 40 60 80	Shear Strength (PP) kPa Shear Strength (FV) kPa 50 100 150 200	Groundwater Observations and Standpipe Details
10		Ground Surface PAVEMENT STRUCTURE ASPHALT: 150mm GRANULAR BASE: brown sand and gravel, some silt, moist (150mm) GRANULAR SUBBASE: brown gravelly sand, some silt, moist (150mm) Drilling Terminated	213.2		GS			← Cuttings ← Dry Cave Borehole dry upon drilling completion

Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH130-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

Date Completed: 5/13/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A

		Subsurface Profile		Sa	mple				
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Dynamic Cone × × Standard Penetration 20 40 60 80	Shear Strength (PP) kPa Shear Strength (FV) kPa 50 100 150 200		Groundwater Observations and Standpipe Details
0 ft m		Ground Surface	211.7	_					
1 1 1 1 1 1 1 1		PAVEMENT STRUCTURE ASPHALT: 150mm GRANULAR BASE: brown sand and gravel, some silt, moist (180mm) GRANULAR SUBBASE: brown	210.9	1	GS			2	← Cuttings
Ī		gravelly sand, some silt, moist (480mm)	210.9 0.8	2	SS	38		2	
4		FILL dense dark brown silty sand and gravel, damp Drilling Terminated	210.6						→ Dry Cave Borehole dry upon drilling completion

Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH131-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

Date Completed: 5/13/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A

		Subsurface Profile		Sai	mple				
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Dynamic Cone × Standard Penetration 20 40 60 80	Shear Strength (PP) kPa Shear Strength (FV) kPa 50 100 150 200	Water Content	Groundwater Observations and Standpipe Details
0 ft m		Ground Surface	207.8						
<u>+</u> - - - - -		PAVEMENT STRUCTURE ASPHALT: 80mm GRANULAR BASE: brown sand and / gravel, some silt, moist (100mm) GRANULAR SUBBASE: brown	207.1	1	GS			4	← Cuttings
2		gravelly sand, some silt, asphalt and wood fragments, occasional cobbles,	0.7 206.7	2	ss	15		6	◆ Dry Cave
4 — 2 8 — 2 8 — 4 10 — 4 14 — 4 16 — 4 18 — 1 — 4	XXXX	moist (530mm) FILL compact dark brown gravelly silt, some sand, moist Drilling Terminated	1.1						Borehole dry upon drilling completion
20 - 6									

Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: MW132-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100 Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

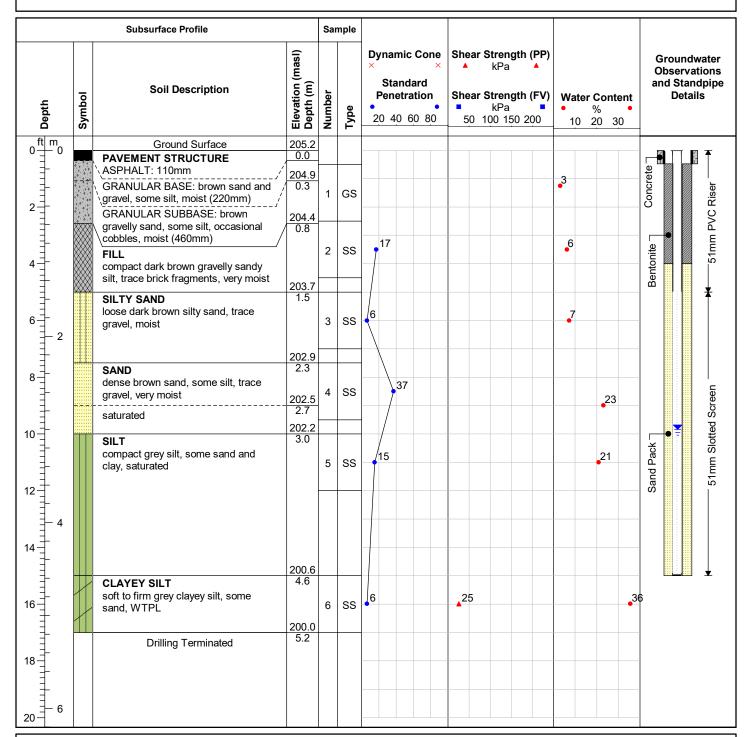
Date Completed: 5/13/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: Flush Mount



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



Water encountered at 2.7mbgs (Elevation 202.5masl) during drilling. Water measured at 3.0mbgs (Elevation

202.2masl) on July 6, 2021.

ID No.: BH133-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

Date Completed: 4/27/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A

			Subsurface Profile		Sar	nple				
Depth		Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Туре	Dynamic Cone × × Standard Penetration 20 40 60 80	Shear Strength (PP) kPa Shear Strength (FV) kPa 50 100 150 200	Water Content	Groundwater Observations and Standpipe Details
0 ft	m - 0		Ground Surface	204.2						
2-			PAVEMENT STRUCTURE ASPHALT: 100mm GRANULAR BASE: brown sand and gravel, some silt, moist (100mm) GRANULAR SUBBASE: brown	203.4	1	GS			3	
4-			gravelly sand, trace silt, occasional cobbles, moist (560mm) FILL compact dark brown silty sand, some gravel, very moist	0.8	2	ss	14		.7	← Cuttings
1 =			<u> </u>	202.7 1.5						
6-1	- 2		SILTY SAND compact light brown silty sand, moist		3	SS	23		4	
			CAND	201.9						
8			sand compact light brown sand, trace to some silt and gravel, moist		4	SS	24		<i>-</i> 7	◆ Bentonite
10 🛨			saturated	201.2 3.0						¥ Wet Cave
12		7.	SANDY SILT TILL compact brown sandy silt, some clay, trace gravel, very moist to wet	0.0	5	SS	21		.15	Water encountered at 3.0 and 4.6 mbgs during drilling
14-	- 4	• .								during drilling
'*		• •		199.6						· *
16-			grey, saturated	4.6 199.0	6	SS	12		24	=
18-			Drilling Terminated	5.2						
20	- 6									

Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH134-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

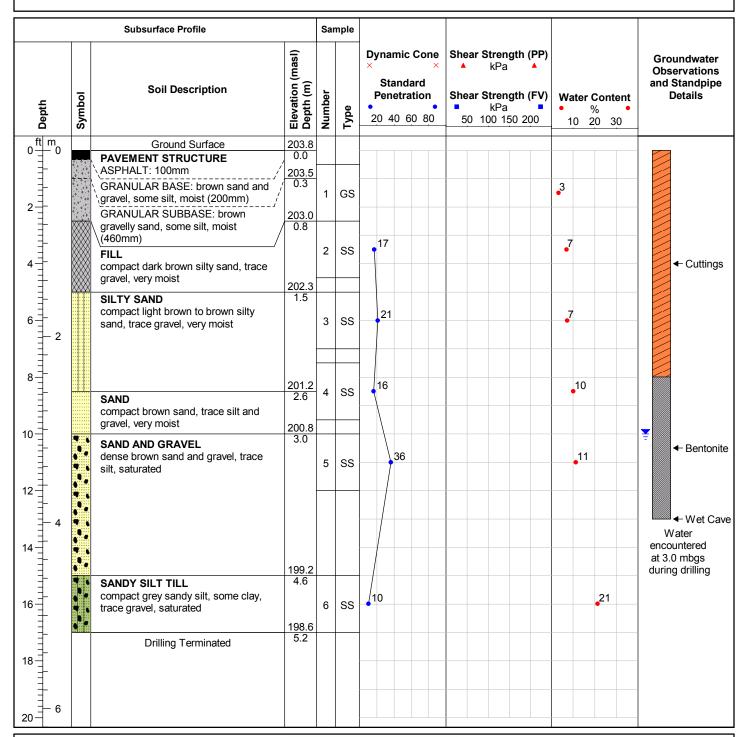
Date Completed: 4/27/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH135-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

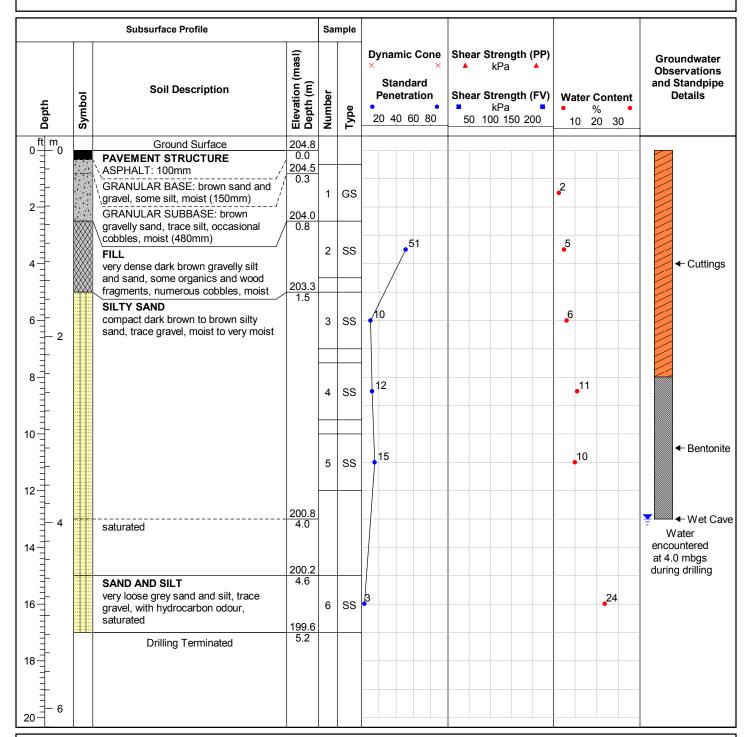
Date Completed: 4/27/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH136-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

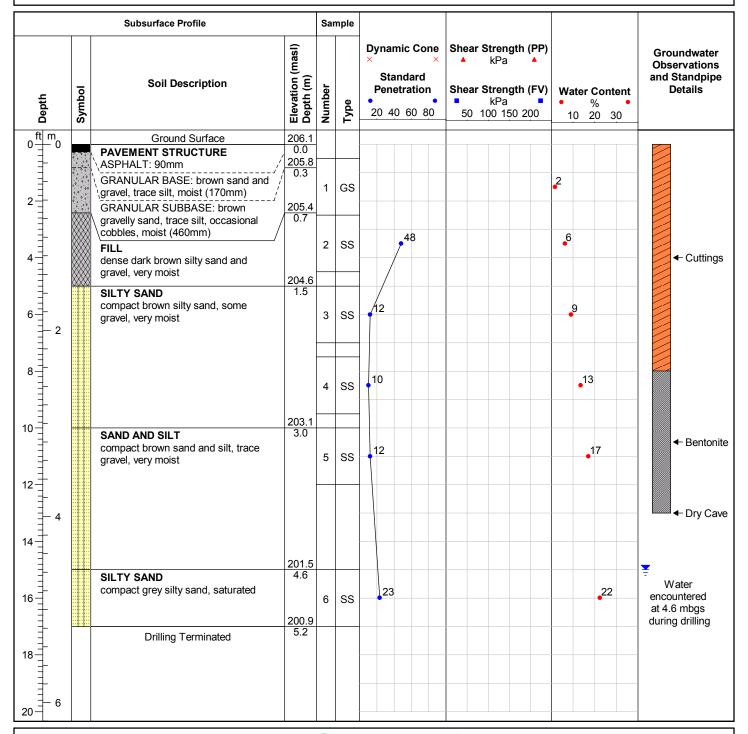
Date Completed: 4/27/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: MW137-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100 Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

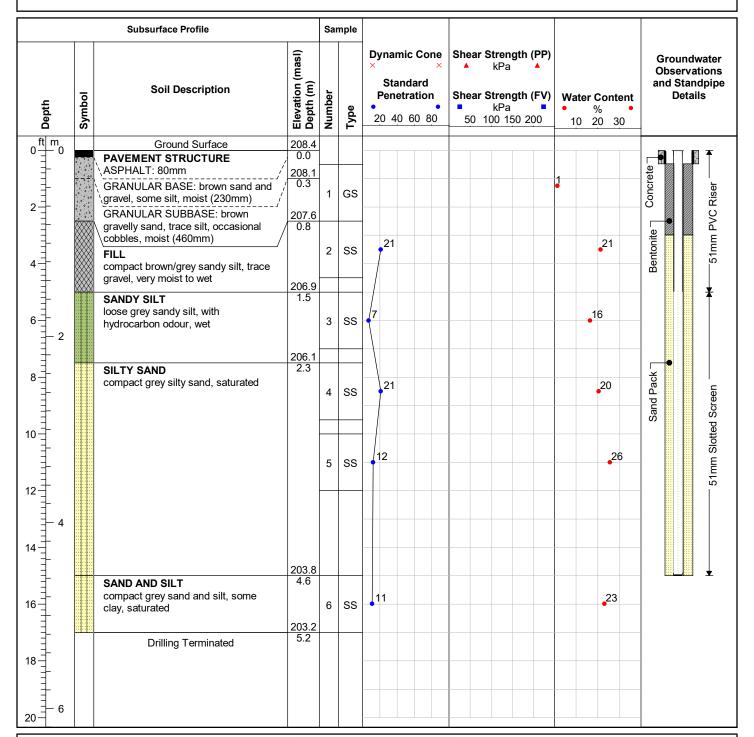
Date Completed: 4/27/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: Flush Mount



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



Sheet: 1 of 1

Water encountered at 2.3mbgs (Elevation 206.1masl) during drilling.

The water level was unable to be measured as the well casing was compromised.

ID No.: BH138-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

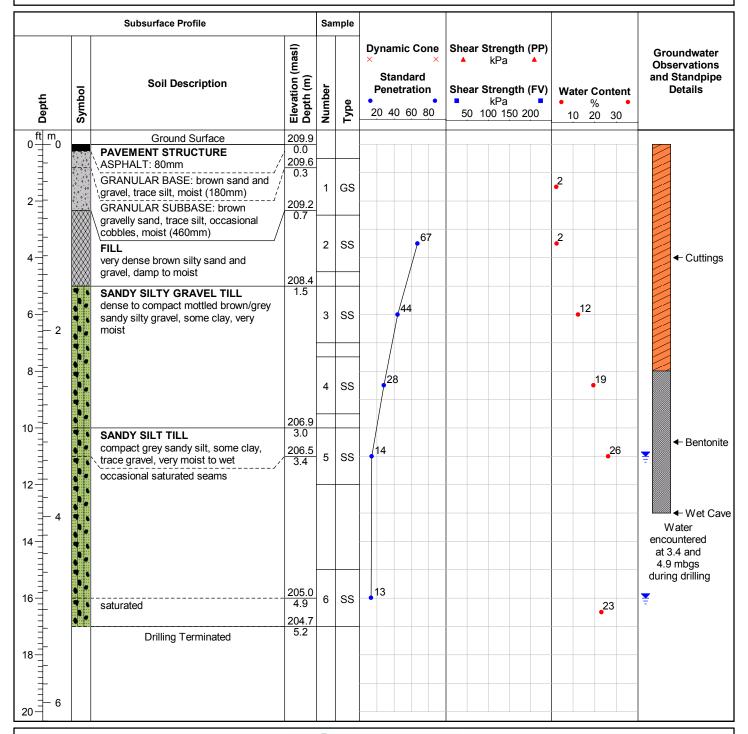
Date Completed: 4/27/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH139-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

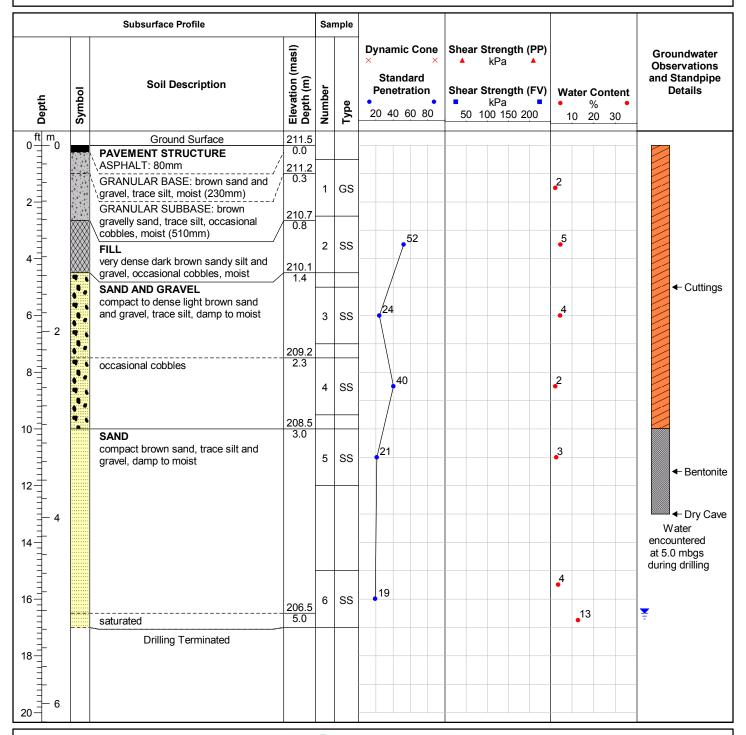
Date Completed: 4/28/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH140-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

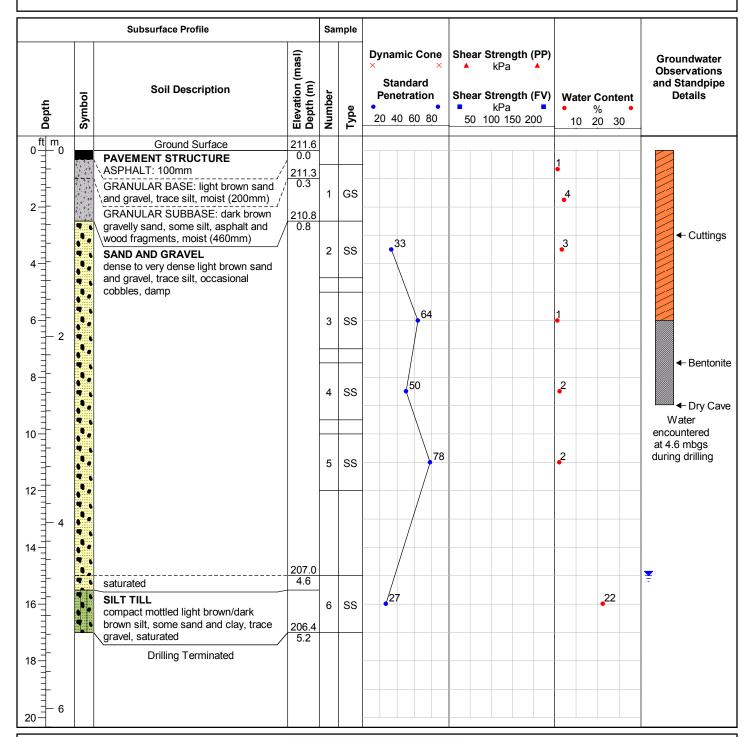
Date Completed: 4/28/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH141-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

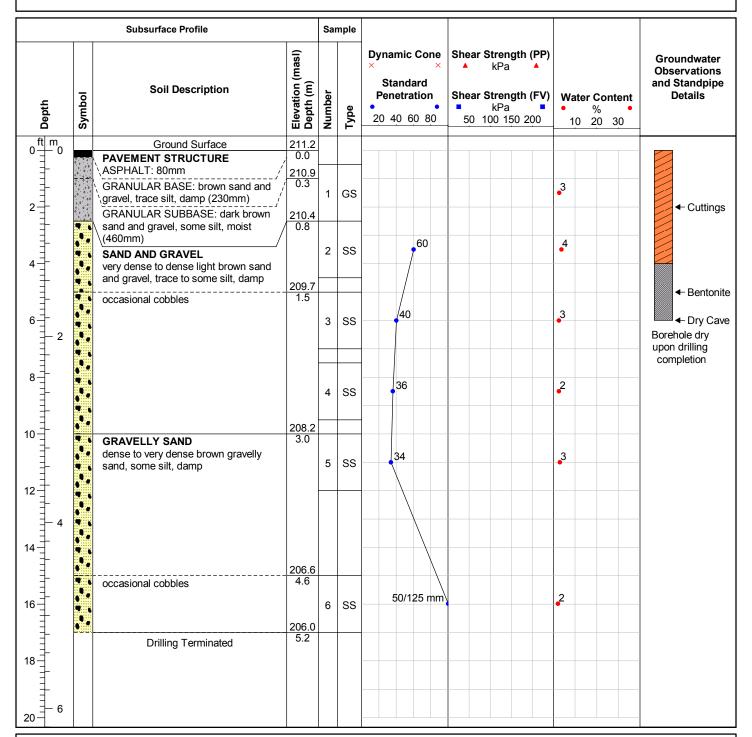
Date Completed: 4/28/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH142-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

Date Completed: 4/28/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A

		Subsurface Profile		Sar	nple				
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Dynamic Cone × Standard Penetration 20 40 60 80	Shear Strength (PP) kPa Shear Strength (FV) kPa 50 100 150 200	Water Content % 10 20 30	Groundwater Observations and Standpipe Details
0 ft m		Ground Surface PAVEMENT STRUCTURE	211.0						
2	·	\ASPHALT: 80mm \GRANULAR BASE: brown sand and /\gravel, some silt, moist (230mm) \GRANULAR SUBBASE: brown	210.7 0.3 210.4 0.6	1	GS			•3	← Cuttings
4		gravelly sand, some silt, occasional cobbles, moist (300mm) FILL compact dark brown gravelly silt, some sand, very moist	209.5	2	SS	18		.6	Culturings
62		GRAVELLY SAND compact light brown gravelly sand, trace silt, damp to moist	1.5	3	SS	25		3	← Bentonite ← Dry Cave
8	SAND AND GRAVEL compact to dense brown sand and gravel, trace silt, damp to moist	compact to dense brown sand and	2.3	4	SS	29		•3	Borehole dry upon drilling completion
10				5	SS	20		3	
14 - 4									
16	******		205.8	6	SS	35		.3	
18 - 6		Drilling Terminated	5.2						

Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH143-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

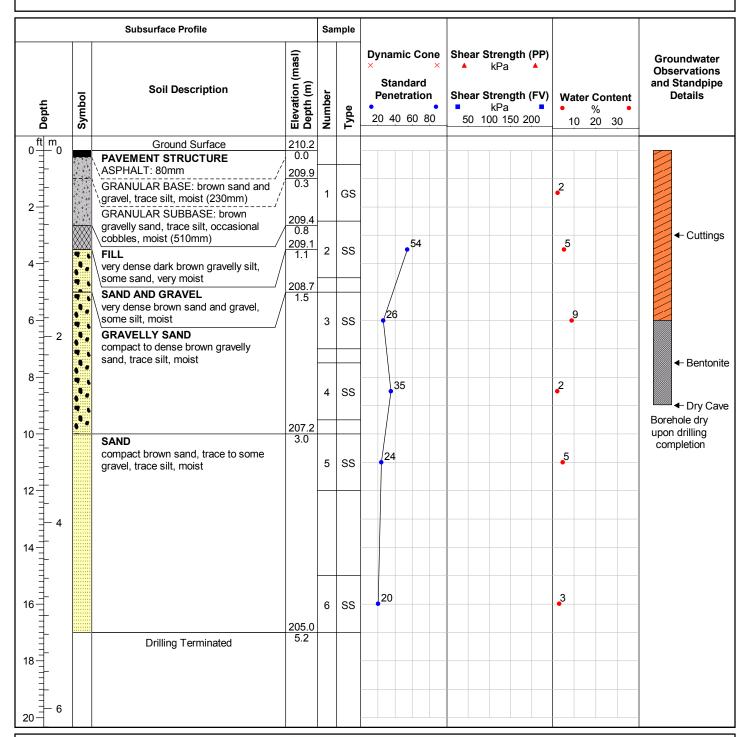
Date Completed: 4/28/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH144-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

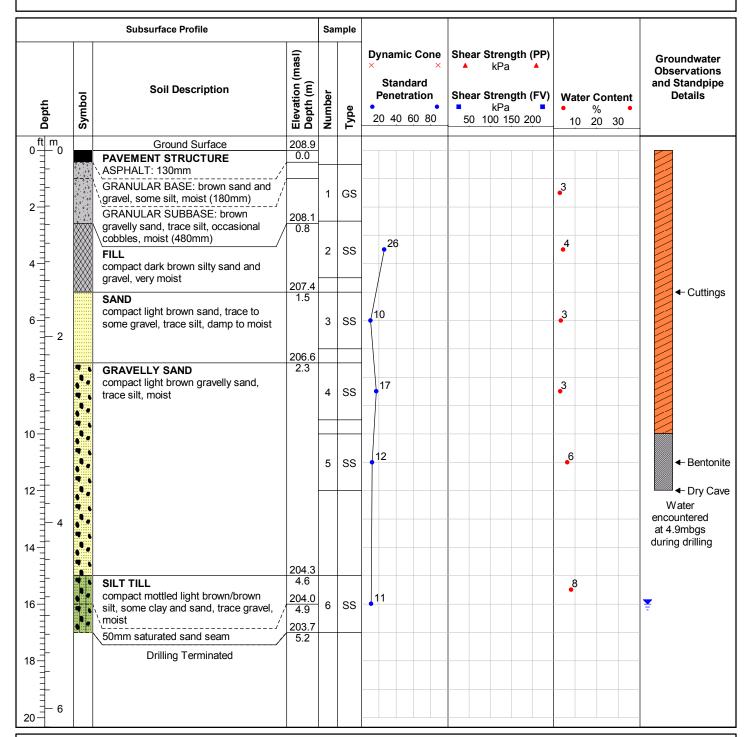
Date Completed: 5/4/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH145-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

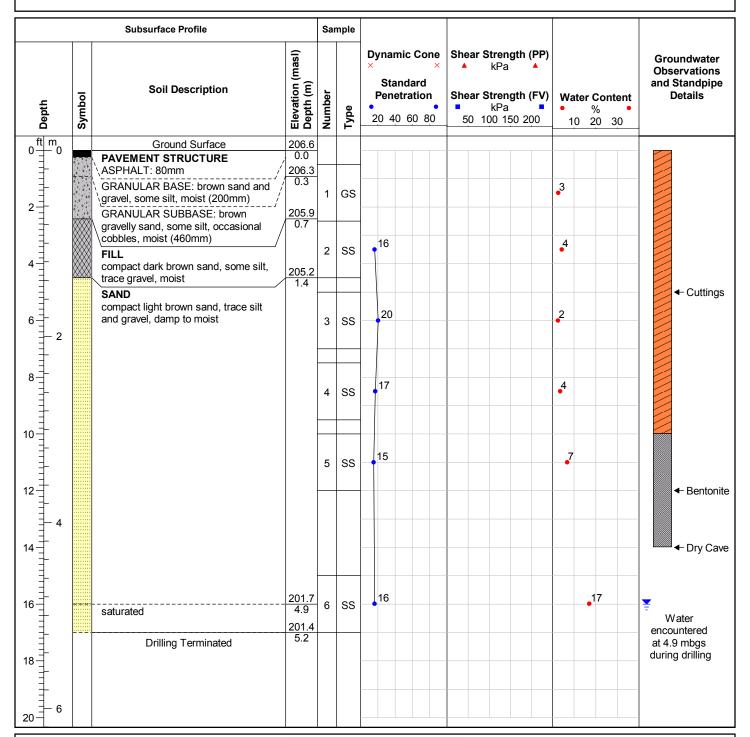
Date Completed: 5/4/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: MW146-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

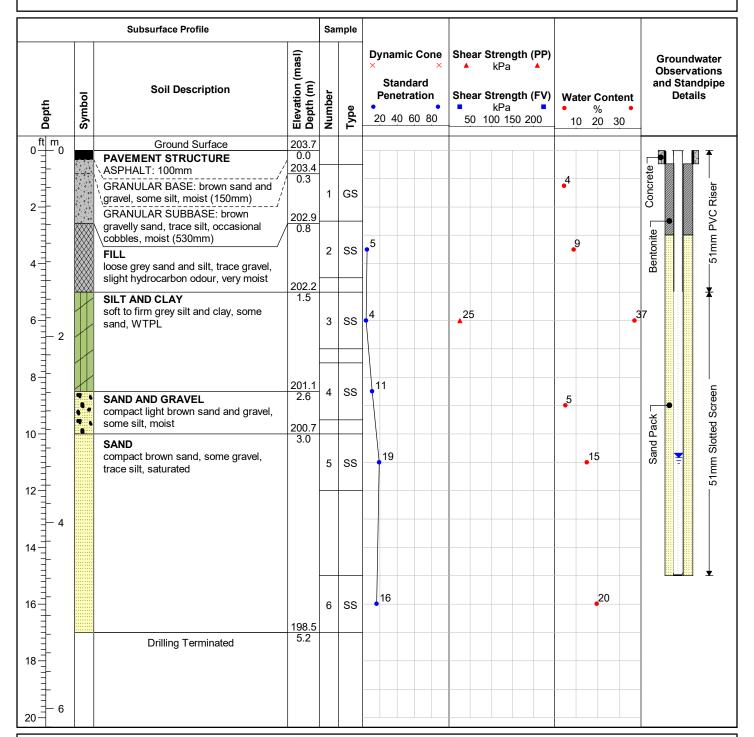
Date Completed: 5/4/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: Flush Mount



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



Notes:

Water encountered at 1.5 and 3.0mbgs (Elevation 202.2 and 200.7masl) during drilling.

Water measured at 3.3mbgs (Elevation 200.4masl) on July 6, 2021.

ID No.: BH147-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

Date Completed: 5/4/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A

		Subsurface Profile		Sai	mple				
Depth	Symbol	Soil Description	Elevation (masl) Depth (m)	Number	Type	Dynamic Cone × Standard Penetration 20 40 60 80	Shear Strength (PP) kPa Shear Strength (FV) kPa 50 100 150 200	Water Content	Groundwater Observations and Standpipe Details
0 ft m		Ground Surface	204.6						
2	÷	ASPHALT: 90mm GRANULAR BASE: brown sand and / gravel, some silt, moist (210mm) GRANULAR SUBBASE: brown	204.3 0.3 203.9 0.7	1	GS			3	
4		gravelly sand, some silt, moist (410mm) FILL loose light brown silt and sand, trace gravel, very moist	203.1	2	SS	7		. 15	
6		compact black sandy silt, some organics, slight organic odour, wet SILTY SAND compact light brown silty sand, trace	1.5 202.8 1.8	3	ss	10		. 22	Cuttings
8		gravel, very moist loose, wet	202.3	4	SS	8		. 18	
10		compact, saturated	3.0	5	SS	10		_22	▼ Bentonite
14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -			200.0						◆ Wet Cave Water encountered
16		SAND compact grey sand, some gravel, trace silt, saturated	4.6 199.4 5.2	6	ss	15		.15	at 3.0 mbgs during drilling
18-1		Drilling Terminated	5.2						

Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



ID No.: BH148-21

Project Name: Downtown Brantford Reconstruction

MTE File No.: 46995-100
Client: City of Brantford

Site Location: Colborne Street, Brantford, ON

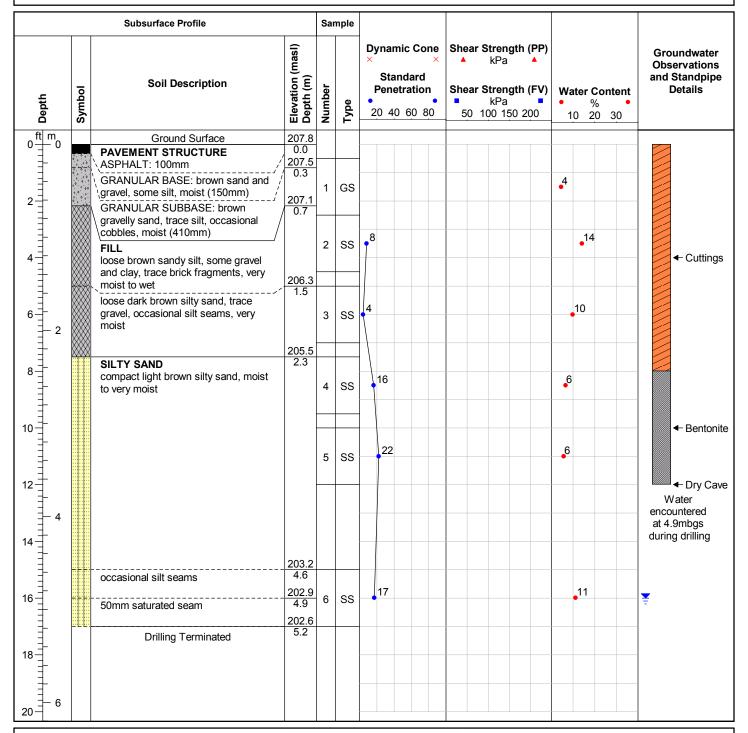
Date Completed: 4/30/2021

Drilling Contractor: London Soil Test Ltd.

Drill Rig: D50T Truck Mount

Drill Method: Hollow Stem Augers

Protective Cover: N/A



Field Technician: M. Dalgliesh

Drafted by: B. Ehgoetz

Reviewed by: D. Gonser



Appendix D

Geotechnical Tables



Particle Size Distribution Analysis Test Results

Project Name: Branford Downtown Reconstruction

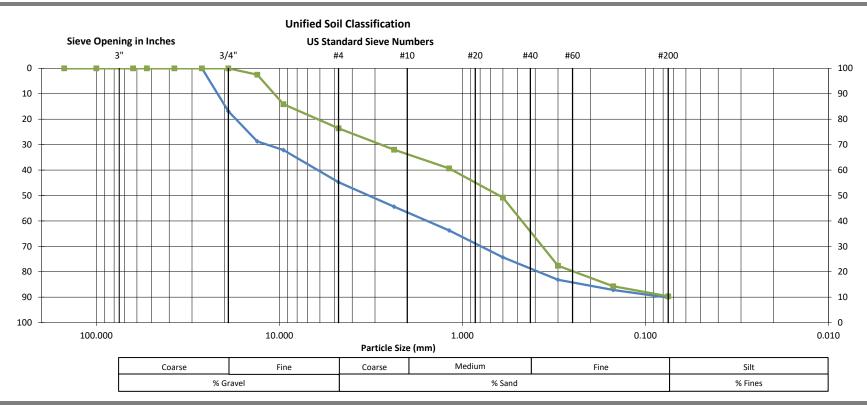
Date Sampled: Apr. 27 - May 13, 2021

MTE File No.: 46995-100

Location: Brantford, ON

Client: City of Brantford

Date Tested: May 26-28, 2021 Table No.: 101



Symbol	Borehole ID	Sample #	Sample Depth
\rightarrow	BH101-21	SS-3	1.5-2.1 mbgs
	BH113-21	SS-4	2 3-2 9 mbas

DescriptionSAND and GRAVEL, some Silt
Gravelly SAND, some Silt



% Retained by Weight

NOTES:



Particle Size Distribution Analysis Test Results

Project Name: Brantford Downtown Reconstruction

Date Sampled: Apr. 27 - May 13, 2021

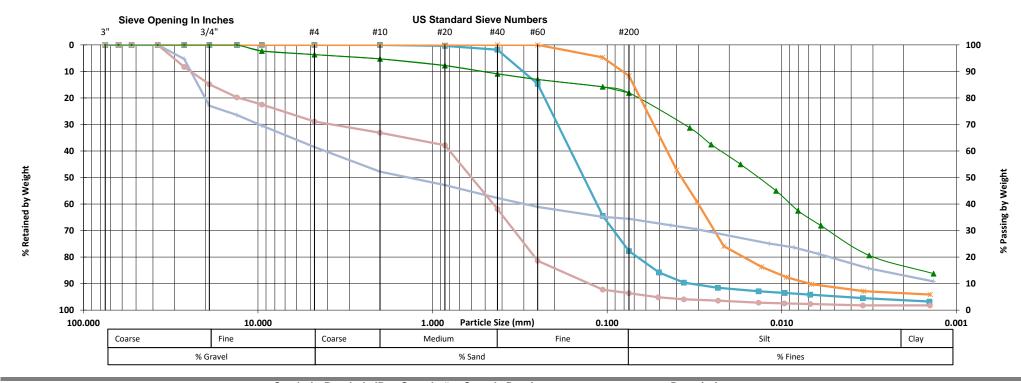
MTE File No.: 46995-100

Client: City of Brantford Project Location: Brantford, ON

Date Tested: May 27 - Apr. 4, 2021

Table No: 102

Unified Soil Classification



Symbol	Borehole ID	Sample #	Sample Depth	
_	BH107-21	SS-3	1.5-2.1 mbgs	
-	MW119-21	SS-4	2.3-2.9 mbgs	
	MW127-21	SS-5	3.0-3.7 mbgs	
\rightarrow	BH138-21	SS-3	1.5-2.1 mbgs	
-	BH144-21	SS-4	2.3-2.9 mbgs	

Description

SILT, some Clay and Sand, trace Gravel SAND, some Silt, trace Clay SILT, some Sand, trace Clay Sandy Silty GRAVEL, some Clay Gravelly SAND, trace Silt



NOTES:

Table 201 - Existing Pavement Structure Thicknesses

Borehole Number	Asphaltic Concrete (mm)	Base Thickness (mm)	Subbase Thickness (mm)		
	Dalhous	ie Street			
BH101-20	100	200	360		
BH102-20	80	200	480		
BH103-20	80	180	350		
BH104-20	100	200	350		
BH105-20	80	180	350		
BH106-20	100	150	350		
BH107-20	130	180	480		
BH108-20	90	210	360		
BH109-20	100	150	360		
BH110-21	100	160	360		
MW111-21	100	230	580		
BH112-21	90	130	460		
BH113-21	80	230	400		
BH114-21	100	230	130		
BH115-21	100	200	380		
BH116-21	90	230	150		
BH117-21	100	150	580		
BH118-21	80	200	530		
MW119-21	90	220	410		
BH120-21	100	210	500		
BH121-21	90	220	410		
	Brant A	venue	•		
BH122-21	130	180	480		
	King S	Street	•		
BH123-21	100	180	180		
	Queen	Street			
BH124-21	130	180	480		
	Charlott	e Street			
BH125-21	110	110	230		
	Clarence	e Street			
BH126-21	110	140	430		
	Colborn	e Street			

MW127-21	130	180	480
BH128-21	150	180	460
BH129-21	150	150	150
BH130-21	150	180	480
BH131-21	80	100	530
MW132-21	110	220	460
BH133-21	100	100	560
BH134-21	100	200	460
BH135-21	100	150	480
BH136-21	90	170	460
MW137-21	80	230	460
BH138-21	80	180	460
BH139-21	80	230	510
BH140-21	100	200	460
BH141-21	80	230	460
BH142-21	80	230	300
BH143-21	80	230	510
BH144-21	130	180	480
BH145-21	80	200	460
MW146-21	100	150	530
BH147-21	90	210	410
BH148-21	100	150	410

Table 301 - Saturated Soil Conditions at the time of Drilling

Borehole Number	Saturated Native Soil Type	Depth of Saturated Soil (mbgs)	Elevation of Saturated Soil (masl)								
	Dalhousie S	Street									
BH101-21	Sand and Gravel, Silt and Sand	3.0	209.7								
BH102-21	Sand and Gravel, Silt and Sand	3.2	209.7								
BH103-21	Sand and Gravel, Silty Sand	4.3	209.2								
BH104-21	Sand and Gravel, Sand	4.3	209.3								
BH105-21	Sand	4.6	208.8								
BH106-21	Saturated Sand Seams within Silt Deposit	3.0	210.0								
	Silty Sand	4.6	208.4								
BH107-21	Silty Sand, Silt and Sand	2.6	209.1								
BH108-21	Silt and Sand	2.3	208.0								
BH109-21	Silty Sand, Sand and Gravel	2.3	201.9								
	Silt Till	4.6	199.6								
BH110-21	Silty Sand, Sand and Gravel	1.8	202.1								
MW111-21	Sand and Silt, Sand	1.7	202.0								
BH112-21	Silt and Sand, Silty Sand	2.3	207.0								
BH113-21	Gravelly Sand and Silt	4.6	206.2								
BH114-21		Dry									
BH115-21		Dry									
BH116-21		Dry									
BH117-21	Sand	3.0	200.8								
BH118-21	Sand	3.0	200.7								
MW119-21	Sand, Silt and Sand	2.3	202.3								
BH120-21	Sand and Silt	4.6	202.4								
BH121-21	BH121-21 Dry										
	Brant Ave	nue									
BH122-21	Silt and Sand, Sandy Silt and Clay	2.3	209.1								
	King Stre	eet									
BH123-21	Sand and Silt	3.8	210.0								

	Queen Str	eet			
BH124-21	Gravelly Sand, Silt and Sand	4.3	N/A		
	Charlotte S	treet			
BH125-21	50 mm Saturated Seam within Silty Sand Deposit	3.4	201.6		
	Sandy Silt and Clay	4.6	200.4		
	Clarence S	treet			
BH126-21	Sand	3.0	201.1		
	Colborne S	treet			
MW127-21	Silt	3.0	208.8		
BH128-21		Dry			
BH129-21		Dry*			
BH130-21		Dry*			
BH131-21		Dry*			
MW132-21	Sand, Silt, Clayey Silt	2.7	202.5		
DI 1422 04	Sand	3.0	201.2		
BH133-21	Sandy Silt Till	4.6	199.6		
BH134-21	Sand and Gravel, Sandy Silt Till	3.0	200.8		
BH135-21	Silty Sand, Sand and Silt	4.0	200.8		
BH136-21	Silty Sand	4.6	201.5		
MW137-21	Silty Sand, Sand and Silt	2.3	206.1		
BH138-21	Saturated Seams within Sandy Silt Till Deposit	3.4	206.5		
	Sandy Silt Till	4.9	205.0		
BH139-21	Sand	5.0	206.5		
BH140-21	Sand and Gravel, Silt Till	4.6	207.0		
BH141-21		Dry	•		
BH142-21		Dry			
BH143-21		Dry			
BH144-21	50 mm Saturated Sand Seam within Silt Till Deposit	4.9	204.0		
BH145-21	Sand	4.9	201.7		
MM/4/4/6 04	Silt and Clay	1.5	202.2		
MW146-21	Sand	3.0	200.7		
BH147-21	Silty Sand, Sand	3.0	201.6		

I BH1/18-71 I	rated Seam Sand Deposit 4.9	202.9
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^{*}Note: Boreholes were advanced to depths ranging from about 0.5 to 1.1 m due to existing underground utilities.

Appendix E

Environmental Tables



				S	Sample Location	BH101-21	BH102-21	BH103-21	BH105-21	BH106-21	BH107-21	BH108-21	BH109-21	BH110-21	BH111-21	BH111-21	BH112-21	BH112-21
					Sample Name	BH101-21 SS3 5-		BH103-21 SS3 5-	BH105-21 SS4 7.5	BH106-21 SS2 2.5				BH110-21 SS3 5-	BH111-21 SS2 2.5	BH111-21 SS3 5-		
						7 FT	4.5 FT	7 FT	9.5 FT	4.5 FT	4.5FT	9.5FT	4.5FT	7FT	45FT	7FT	4.5FT	9.5FT
					Lab Job #	L2585298	L2585298	L2585298	L2585298	L2585298	L2584509	L2584509	L2584509	L2584509	L2584509	L2584509	L2584522	L2584522
Parameters	Unit	RDL	2011 Table 3 SCS (I/C/C,		Laboratory ID	L2585298-24	L2585298-19	L2585298-15	L2585298-8	L2585298-2	L2584509-18	L2584509-16	L2584509-10	L2584509-7	L2584509-2	L2584509-3	L2584522-18	L2584522-20
			Coarse)		Sampling Date	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	05-May-2021	05-May-2021	05-May-2021	05-May-2021	05-May-2021	05-May-2021	04-May-2021	04-May-2021
				Sam	nple Depth (m bgs)	1.5-2.1	0.8-1.4	1.5-2.1	2.3-2.9	0.8-1.4	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9
				Maxir	mum Concentration													
Metals and Inorganics																		
Antimony	μg/g	1	40		2.1	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	μg/g	1	18		10.1	3.1	8.3	-	2.5	5.3	3.7	2.4	1.8	<1.0	1.6	2.2	3	2.9
Barium	μg/g	1	670		382	19.3	9.3	-	20.2	52.5	40.3	24.6	17.8	9.8	24.6	15.6	19.5	43.4
Beryllium	μg/g	0.5	8		1.29	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Boron	μg/g	5	120		30.1	6.9	<5.0	-	5.8	9.3	6.1	5.4	<5.0	<5.0	<5.0	<5.0	6.5	7.6
Boron (Hot Water Soluble)	μg/g	0.1	2		0.21	-	0.18	-	-	-	-	-	-	-	0.21	-	-	-
Cadmium	μg/g	0.5	1.9	<	0.5	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50
Chromium	μg/g	1	160		39.3	7.3	6.8	-	12.6	26.3	13	8.6	7.4	5.2	7.8	6.7	12.4	12.6
Chromium VI	μg/g	0.2	8		0.22	-	<0.20	-	-	-	-	-	-	-	0.22	-	-	-
Cobalt	μg/g	1	80		14.8	3.3	1.9	-	2.9	5.6	4.9	3.9	2.1	1.6	2.8	2.8	3.4	5.4
Copper	μg/g	1	230		58	19.5	8.7	-	14.8	30.8	18.6	15.6	8.9	6.4	5	8.7	19.5	13.7
Lead	μg/g	1	120		672	8.1	4.4	-	10.8	44.5	14.5	6.6	10.6	4	3.1	4.2	17.8	6.4
Mercury	μg/g	0.005	3.9		0.144	-	< 0.0050	-	-	-	-	-	-	-	0.144	-	-	-
Molybdenum	μg/g	1	40		1.4	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1	<1.0
Nickel	μg/g	1	270		30.8	6.6	4.1	-	6.3	13.9	10.9	7.6	4.7	3.9	5.1	5.5	7.3	11
Selenium	μg/g	1	5.5		1.5	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	μg/g	0.2	40		0.21	<0.20	<0.20	-	<0.20	<0.20	< 0.20	<0.20	<0.20	<0.20	<0.20	<0.20	< 0.20	<0.20
Thallium	μg/g	0.5	3.3	<	0.5	< 0.50	< 0.50	-	< 0.50	<0.50	< 0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50
Uranium	μg/g	1	33		1.1	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	μg/g	1	86		53.3	13.9	16	-	17.5	32.5	24.3	17	13.9	11	16.9	13.7	18.2	24.6
Zinc	μg/g	5	340		194	88.9	35.9	-	76.5	155	71.2	48.5	39.1	22.5	15.9	27.8	80.4	29.2
Electrical Conductivity	mS/cm	0.004	1.4		5.56	0.739	-	1.32	1.95	-	1.04	0.69	-	-	-	0.649	0.264	-
Sodium Adsorption Ratio (SAR)	unitless	0.1	12		75.2	3.02	-	20.9	58	-	66.5	25.6	-	-	-	25.1	8.35	-
pH	pH units	0.1	NR		8.2	8.06	-	-	-	-	7.99	-	-	-	-	7.66	-	-

- Exceeds 2011 Table 3 SCS

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

Geotechnical Investigation Brantford Streetscape Project Page 1 of 4

				BH114-21	BH114-21	BH115-21	BH116-21	BH117-21	BH117-21	BH118-21	BH118-21	BH119-21	BH120-21	BH121-21	BH122-21	BH123-21	BH124-21	BH125-21
				BH114-21 SS2 2.5			BH116-21 SS4 7.5											
				4.0 FT	7 FT	2.5-4.5 FT	9.5 FT	4.5 FT	7 FT	4.5 FT	7 FT	9.5 FT	7 FT	4.5 FT	4.5FT	18"-2.5FT	7FT	4.5FT
				L2583155	L2583155	L2583155	L2583155	L2583126	L2586911	L2586911	L2586898	L2586911						
Doromotoro	Unit	BDI	2011 Table 3 SCS (I/C/C,	L2583155-12	L2583155-13	L2583155-7	L2583155-5	L2583126-22	L2583126-23	L2583126-18	L2583126-19	L2583126-16	L2583126-11	L2583126-6	L2586911-2	L2586911-12	L2586898-3	L2586911-19
Parameters	Unit	KDL	Coarse)	03-May-2021	03-May-2021	03-May-2021	03-May-2021	30-Apr-2021	11-May-2021	11-May-2021	12-May-2021	11-May-2021						
				0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4	1.5-2.1	2.3-2.9	1.5-2.1	0.8-1.4	0.8-1.4	0.5-0.8	1.5-2.1	0.8-1.4
				0.0 1.4	1.0 2.1	0.0 1.4	2.0 2.0	0.0 1.4	1.0 2.1	0.0 1.4	1.0 2.1	2.0 2.0	1.0 2.1	0.0 1.4	0.0 1.4	0.0 0.0	1.0 2.1	0.0 1.4
Martin and Haraman trans																		
Metals and Inorganics Antimony ug/g 1 40 <1.0														4.0				
Antimony	μg/g	1		<1.0	<1.0	<1.0	<1.0	<1.0	2	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0
Arsenic	μg/g	1	18	4.3	1.8	2.5	1.6	2.6	5	3	10.1	3.7	1.7	4.2	3.5	3.7	2.7	1.8
Barium	μg/g	1	670	23.8	10.5	13.5	10.4	77.8	382	34.6	86.4	12.2	13.3	54.7	35.5	38.9	12.5	25.1
Beryllium	μg/g	0.5	8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.76	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Boron	μg/g	5	120	6.3	6.1	6.6	<5.0	9.5	30.1	7.1	13.9	<5.0	<5.0	9.4	8.7	8.5	<5.0	<5.0
Boron (Hot Water Soluble)	μg/g	0.1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	μg/g	0.5	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium	μg/g	1	160	11.9	5.4	7.9	5.9	9.9	23.5	9	26.6	4.9	7.3	15.2	18	12.7	7.7	11.2
Chromium VI	μg/g	0.2	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	μg/g	1	80	3.8	1.7	2.7	2.2	2.8	4.4	3.7	11.9	1.9	2.6	5.9	3.8	4	2.8	3.4
Copper	μg/g	1	230	18.9	10.2	15	8.9	23.9	58	21.5	31	5.1	7.3	37.9	24.4	25.2	14.2	5
Lead	μg/g	1	120	9	7.3	6.8	4.1	117	672	26.1	14.3	3.1	4.6	49.5	39.5	66.5	7	6.8
Mercury	μg/g	0.005	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	μg/g	1	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0
Nickel	μg/g	1	270	9.3	3.7	6	4.2	6	10.2	7.8	26.2	3.7	5.6	12.8	9.7	8.2	6.3	6.7
Selenium	μg/g	1	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	μg/g	0.2	40	<0.20	<0.20	<0.20	<0.20	<0.20	0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	μg/g	0.5	3.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50
Uranium	μg/g	1	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	μg/g	1	86	22.7	10.7	17.8	14	12.7	17.8	16.6	38.1	9.8	17.1	24.2	18.2	24.9	14.5	27.7
Zinc	μg/g	5	340	50.7	36.5	61.2	21.1	123	194	146	76.1	17.7	24.5	95.3	98.8	145	49.6	40.1
Electrical Conductivity	mS/cm	0.004	1.4	-	-	-	5.56	-	-	-	1.36	1.17	-	-	1.22	-	0.502	-
Sodium Adsorption Ratio (SAR)	unitless	0.1	12	17.5	-	-	16	-		-	60.3	25.4	-	-	71.9	-	35.5	-
pH	pH units	0.1	NR	7.92	-	-	-	-	-	-	-	7.97	-	-	7.78	-	7.98	-

- Exceeds 2011 Table 3 SCS

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

Geotechnical Investigation Brantford Streetscape Project MTE File No.: 46995-100 Page 2 of 4 April 2022

				BH125-21	BH126-21	BH126-21	BH127-21	BH128-21	BH128-21	BH130-21	BH131-21	BH132-21	BH132-21	BH133-21	BH134-21	BH135-21	BH135-21	BH137-21
					BH126-21 SS2 2.5							BH132-21 SS2 2.5			BH 134-21 SS3 5-	BH 135-21 SS2	BH 135-21 SS4	BH 137-21 SS2
				7FT	4.5FT	7FT	7FT	4.5FT	7FT	3.5FT	3.5FT	4.5FT	9.5FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	2.5-4.5 FT
				L2586911	L2586911	L2586911	L2586898	L2586898	L2586898	L2587890	L2587890	L2587890	L2587890	L2581807	L2581807	L2581807	L2581807	L2581807
Parameters	Unit	RDI	2011 Table 3 SCS (I/C/C,	L2586911-20	L2586911-7	L2586911-8	L2586898-8	L2586898-13	L2586898-14	L2587890-3	L2587890-5	L2587890-7	L2587890-9	L2581807-2	L2581807-7	L2581807-10	L2581807-12	L2581807-18
Farameters	Oill	KDL	Coarse)	11-May-2021	11-May-2021	11-May-2021	12-May-2021	12-May-2021	12-May-2021	13-May-2021	13-May-2021	13-May-2021	13-May-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021
				1.5-2.1	0.8-1.4	1.5-2.1	1.5-2.1	0.8-1.4	1.5-2.1	0.8-1.1	0.8-1.1	0.8-1.4	2.3-2.9	0.8-1.4	1,5-2,1	0.8-1.4	2.3-2.9	0.8-1.4
					0.0			0.0		0.0	0.0		2.0 2.0	0.0		0.0		
																		i
Metals and Inorganics	,	1 4	10	1	1		1 1 2	1 10		1		<u> </u>					ı	
Antimony	μg/g	1	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	1	<1.0	<1.0	<1.0	<1.0	-	-
Arsenic	μg/g	1	18	3.7	1.9	2.6	2.4	2.4	2.5	-	2.7	2.1	1.4	2.3	2	3.7	-	-
Barium	μg/g	1	670	14.7	16.3	26.3	32.7	22	27.9	-	25.9	26.3	9	24	16.1	40.2	-	-
Beryllium	μg/g	0.5	8	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	-	<0.50	<0.50	<0.50	<0.50	<0.50	< 0.50	-	-
Boron	μg/g	5	120	<5.0	<5.0	5.2	5.3	<5.0	<5.0	-	8.5	<5.0	<5.0	<5.0	5.2	5	-	-
Boron (Hot Water Soluble)	μg/g	0.1	2	-	-	-	-	-	0.16	-	-	-	-	0.18	-	-	-	-
Cadmium	μg/g	0.5	1.9	<0.50	<0.50	<0.50	<0.50	< 0.50	< 0.50	-	<0.50	<0.50	<0.50	<0.50	< 0.50	<0.50	-	-
Chromium	μg/g	1	160	11.2	10.9	11.8	15.6	8	9	-	9.4	10.1	7.2	9.4	7.5	12	-	-
Chromium VI	μg/g	0.2	8	-	-	-	-	-	<0.20	-	-	-	-	<0.20	-	-	-	-
Cobalt	μg/g	1	80	3.1	3.4	3.3	3	2.9	3.2	-	3.3	3	1.8	2.7	2.7	4.3	-	-
Copper	μg/g	1	230	14.4	5.3	12.6	12.9	12.8	13.1	-	13	8.9	5	11.1	9.2	17.5	-	-
Lead	μg/g	1	120	6.8	7.5	6.3	20.4	28.8	19.8	-	29.4	32	4.4	26.7	5.8	49	-	-
Mercury	μg/g	0.005	3.9	-	-		-	-	0.126	-	-	-		0.125	-	•	-	-
Molybdenum	μg/g	1	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
Nickel	μg/g	1	270	7.2	5.4	7.4	6.6	5.8	6.6	-	7.1	6.1	3.8	5.4	5.5	8.2	-	-
Selenium	μg/g	1	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
Silver	μg/g	0.2	40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-
Thallium	μg/g	0.5	3.3	< 0.50	<0.50	<0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	<0.50	<0.50	< 0.50	< 0.50	<0.50	-	-
Uranium	μg/g	1	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-
Vanadium	μg/g	1	86	26.8	27.2	24.8	15.5	14.7	17.6	-	17.1	24	20.9	19.8	17.6	24.7	-	-
Zinc	μg/g	5	340	41.9	26.9	37.1	53.9	51.6	51.3	-	60.4	45.9	28.9	42.9	29.1	67.8	-	-
Electrical Conductivity	mS/cm	0.004	1.4	-	1.43	-	0.771	-	-	1.33	-	-	1.15	1.74	1.64	-	2.24	1.68
Sodium Adsorption Ratio (SAR)	unitless	0.1	12	-	58.6	-	36.2	-	-	57.5	-	-	47.8	68.4	49.7	-	66.8	75.2
pH	pH units	0.1	NR	-	-	-	-	-	-	-	8.2	-	-	-	7.96	-	-	-

- Exceeds 2011 Table 3 SCS

Bold
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Geotechnical Investigation Brantford Streetscape Project Page 3 of 4

				BH137-21	BH138-21	BH139-21	BH140-21	BH141-21	BH142-21	BH143.21	BH144-21	BH145-21	BH146-21	BH147-21	BH148-21
				BH 137-21 SS3 5-	BH 138-21 SS2	BH 139-21 SS2	BH 140-21 GS1B	BH 141-21 SS3 5-	BH 142-21 SS2	BH 143-21 SS2	BH144-21 SS2 2.5	BH145-21 SS2 2.5	BH146-21 SS3 5-	BH147-21 SS2 2.5	BH148-21 SS2 2.5
				7 FT	2.5-4.5 FT	2.5-4.5 FT	12"-2.5 FT	7 FT	2.5-4.5 FT	2.5-4.5 FT	4.5FT	4.5FT	7FT	4.5FT	4.5 FT
				L2581807	L2581807	L2581830	L2581830	L2581830	L2581830	L2581830	L2584522	L2584522	L2584522	L2584522	L2583126
Parameters	Unit	RDL	2011 Table 3 SCS (I/C/C,	L2581807-19	L2581807-22	L2581830-2	L2581830-9	L2581830-12	L2581830-15	L2581830-19	L2584522-6	L2584522-10	L2584522-15	L2584522-2	L2583126-2
T didiliotoio	0	\\D_	Coarse)	27-Apr-2021	27-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021	30-Apr-2021
				1.5-2.1	0.8-1.4	0.8-1.4	0.3-0.8	1.5-2.1	0.8-1.4	0.8-1.4	0.8-1.4	0.8-1.4	1.5-2.1	0.8-1.4	0.8-1.4
Metals and Inorganics											•	•			
Antimony	μg/g	1	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Arsenic	μg/g	1	18	3.5	3.4	6.6	3.8	6.7	3.9	2.9	-	1.9	2.8	1.4	2.1
Barium	μg/g	1	670	61	26.3	50.8	50.1	18.9	44.4	24	-	10	184	19.2	35.7
Beryllium	μg/g	0.5	8	< 0.50	< 0.50	0.66	< 0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	1.29	< 0.50	< 0.50
Boron	μg/g	5	120	9.5	8.4	10	5.9	12.1	7.6	6.3	-	<5.0	16.3	5.2	5.5
Boron (Hot Water Soluble)	μg/g	0.1	2	-	-	-	-	-	-	0.2	-	-	-	-	-
Cadmium	μg/g	0.5	1.9	< 0.50	<0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	-	< 0.50	< 0.50	<0.50	< 0.50
Chromium	μg/g	1	160	17.3	12.2	18.3	16	8.7	19.8	10.5	-	5.4	39.3	4.9	12
Chromium VI	μg/g	0.2	8	-	-	-	-	-	-	<0.20	-	-	-	-	-
Cobalt	μg/g	1	80	7.1	3.7	6	4.5	4.5	4.4	3	-	2	14.8	1.9	3.6
Copper	μg/g	1	230	18.8	23.6	45.3	20.6	28.7	30.4	13.9	-	8.6	18.3	6.7	7.7
Lead	μg/g	1	120	7.7	19.7	214	61.6	16.3	19.8	20.1	-	7.7	16.3	13.3	6.4
Mercury	μg/g	0.005	3.9	-	-	-	-	-	-	0.0565	-	-	-	-	-
Molybdenum	μg/g	1	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Nickel	μg/g	1	270	14.9	8.3	16.2	8.8	8.6	9.7	6.6	-	4.1	30.8	3.8	7.3
Selenium	μg/g	1	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Silver	μg/g	0.2	40	<0.20	<0.20	<0.20	<0.20	< 0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20
Thallium	μg/g	0.5	3.3	< 0.50	<0.50	< 0.50	<0.50	< 0.50	<0.50	< 0.50	-	< 0.50	<0.50	<0.50	<0.50
Uranium	μg/g	1	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Vanadium	μg/g	1	86	27.9	16	33.7	24.2	23.1	25	19.1	-	14.1	53.3	9.7	24.1
Zinc	μg/g	5	340	44.6	85.8	114	110	71.9	80.6	56.2	-	31.2	91	26.6	39.6
Electrical Conductivity	mS/cm	0.004	1.4	-	-	3.48	-	1.12	2.1	-	1.04	-	3.93	-	1.04
Sodium Adsorption Ratio (SAR)	unitless	0.1	12	-	-	64.1	-	31	63.5	-	11.4	-	47	-	37
pH	pH units	0.1	NR	-	8.19	-	-	-	8.01	-	-	-	7.97	-	7.79

- Exceeds 2011 Table 3 SCS

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Geotechnical Investigation Brantford Streetscape Project

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				;	Sample Location	BH103-21	BH130-21
					Sample Name	BH103-21 SS2 2.5-	BH130-21 SS2 2.5-
					Sample Name	4.5 FT	3.5FT
	Unit				Lab Job #	L2585298	L2587890
Parameters		RDL	2011 Table 3 SCS (I/C/C,		Laboratory ID	L2585298-14	L2587890-3
			Coarse)		Sampling Date	06-May-2021	13-May-2021
				Sai	mple Depth (m bgs)	0.8-1.4	0.8-1.1
					Maximum Concentration		
Polychlorinated Biphenyls (PCBs)	-			•			
Aroclor 1242	μg/g	0.01	NR	<	0.01	<0.010	<0.010
Aroclor 1248	μg/g	0.01	NR	<	0.01	<0.010	< 0.010
Aroclor 1254	μg/g	0.01	NR	<	0.01	<0.010	<0.010
Aroclor 1260	μg/g	0.01	NR	<	0.01	<0.010	< 0.010
Total Polychlorinated Biphenyls	μg/g	0.02	1.1	<	0.02	<0.020	< 0.020

- Exceeds 2011 Table 3 SCS

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Geotechnical Investigation Brantford Streetscape Project

MTE File No.: 46995-100 Page 1 of 1 April 2022

					Sample Location	BH101-21	BH102-21	BH103-21	BH103-21	BH104-21	BH106-21
					Sample Name	BH101-21 SS3 5-	BH102-21 SS2	BH103-21 SS2	BH103-21 SS3 5-	BH104-21 SS2	BH106-21 SS2
					Sample Name	7 FT	2.5-4.5 FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	2.5-4.5 FT
					Lab Job #	L2585298	L2585298	L2585298	L2585298	L2585298	L2585298
Parameters	Unit	RDL	2011 Table 3 SCS (I/C/C,		Laboratory ID	L2585298-24	L2585298-19	L2585298-14	L2585298-15	L2585298-10	L2585298-2
			Coarse)		Sampling Date	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021
				Sa	mple Depth (m bgs)	1.5-2.1	0.8-1.4	0.8-1.4	1.5-2.1	0.8-1.4	0.8-1.4
					Maximum						
					Concentration						
Polycyclic Aromatic Hydrocarbons (PAI	Hs)			< 0.05							
Acenaphthene	µg/g	0.05 - 0.4	96	<	0.05	<0.050	<0.050	< 0.050	<0.050	<0.050	<0.050
Acenaphthylene	µg/g	0.05 - 0.125	0.15		0.052	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Anthracene	μg/g	0.05 - 0.125	0.67	<	0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benz(a)anthracene	μg/g	0.05 - 0.125	0.96		0.412	< 0.050	< 0.050	0.227	0.346	0.412	0.134
Benzo(a)pyrene	μg/g	0.05 - 0.125	0.3		0.926	< 0.050	< 0.050	0.362	0.501	0.926	0.133
Benzo(b)fluoranthene	μg/g	0.05 - 0.125	0.96		0.361	< 0.050	< 0.050	0.159	0.221	0.361	0.17
Benzo(g,h,i)perylene	μg/g	0.05 - 0.15	9.6		0.861	< 0.050	< 0.050	0.255	0.375	0.861	0.102
Benzo(k)fluoranthene	μg/g	0.05 - 0.125	0.96		0.103	< 0.050	< 0.050	< 0.050	< 0.050	0.069	0.054
Chrysene	μg/g	0.05 - 0.125	9.6		0.57	< 0.050	< 0.050	0.268	0.418	0.57	0.13
Dibenz(a,h)anthracene	μg/g	0.05 - 0.125	0.1		0.494	< 0.050	< 0.050	0.171	0.237	0.494	< 0.050
Fluoranthene	μg/g	0.05 - 0.5	9.6		0.324	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.222
Fluorene	μg/g	0.05 - 0.125	62	<	0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Indeno(1,2,3-cd)pyrene	μg/g	0.05 - 0.125	0.76		0.365	< 0.050	< 0.050	0.124	0.164	0.365	0.091
1-Methylnaphthalene	μg/g	0.03 - 0.075	76	<	0.03	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
2-Methylnaphthalene	μg/g	0.03 - 0.075	76	<	0.03	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
1+2-Methylnaphthalene	μg/g	0.0424 - 0.106	76	< 0.03		< 0.042	< 0.042	<0.042	< 0.042	< 0.042	< 0.042
Naphthalene	μg/g	0.013 - 0.32	9.6	<	0.013	< 0.013	< 0.013	<0.013	< 0.013	< 0.013	< 0.013
Phenanthrene	μg/g	0.046 - 0.46	12		0.144	<0.046	< 0.046	<0.046	<0.046	< 0.046	0.144
Pyrene	μg/g	0.05 - 0.5	96		0.315	< 0.050	< 0.050	0.134	0.205	0.259	0.226

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 3 SCS

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Geotechnical Investigation Brantford Streetscape Project

MTE File No.: 46995-100 Page 1 of 2 April 2022

				BH111-21	BH111-21	BH123-21	BH137-21	BH143-21	BH143-21	BH146-21	BH148-21
				BH111-21 SS2	BH111-21 SS3 5-	BH123-21 GS1B	BH 137-21 SS3 5-	BH 143-21 SS2	BH 143-21 SS3 5-	BH146-21 SS2	BH148-21 SS2
				2.5-45FT	7FT	18"-2.5FT	7 FT	2.5-4.5 FT	7 FT	2.5-4.5FT	2.5-4.5 FT
				L2584509	L2584509	L2586911	L2581807	L2581830	L2581830	L2584522	L2583126
Parameters	Unit	RDL	2011 Table 3 SCS (I/C/C,	L2584509-2	L2584509-3	L2586911-12	L2581807-19	L2581830-19	L2581830-20	L2584522-14	L2583126-2
			Coarse)	05-May-2021	05-May-2021	11-May-2021	27-Apr-2021	28-Apr-2021	28-Apr-2021	04-May-2021	30-Apr-2021
				0.8-1.4	1.5-2.1	0.5-0.8	1.5-2.1	0.8-1.4	1.5-2.1	0.8-1.4	0.8-1.4
Polycyclic Aromatic Hydrocarbons (PAH	ls)	•									
Acenaphthene	μg/g	0.05 - 0.4	96	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Acenaphthylene	μg/g	0.05 - 0.125	0.15	< 0.050	< 0.050	0.052	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Anthracene	μg/g	0.05 - 0.125	0.67	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benz(a)anthracene	μg/g	0.05 - 0.125	0.96	< 0.050	< 0.050	0.249	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(a)pyrene	μg/g	0.05 - 0.125	0.3	< 0.050	< 0.050	0.244	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(b)fluoranthene	μg/g	0.05 - 0.125	0.96	< 0.050	< 0.050	0.315	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(g,h,i)perylene	μg/g	0.05 - 0.15	9.6	< 0.050	< 0.050	0.165	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Benzo(k)fluoranthene	μg/g	0.05 - 0.125	0.96	< 0.050	< 0.050	0.103	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Chrysene	μg/g	0.05 - 0.125	9.6	< 0.050	< 0.050	0.217	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Dibenz(a,h)anthracene	μg/g	0.05 - 0.125	0.1	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluoranthene	μg/g	0.05 - 0.5	9.6	< 0.050	< 0.050	0.324	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluorene	μg/g	0.05 - 0.125	62	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Indeno(1,2,3-cd)pyrene	μg/g	0.05 - 0.125	0.76	< 0.050	< 0.050	0.153	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1-Methylnaphthalene	μg/g	0.03 - 0.075	76	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
2-Methylnaphthalene	μg/g	0.03 - 0.075	76	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
1+2-Methylnaphthalene	μg/g	0.0424 - 0.106	76	< 0.042	<0.042	<0.042	< 0.042	<0.042	<0.042	< 0.042	< 0.042
Naphthalene	μg/g	0.013 - 0.32	9.6	< 0.013	<0.013	< 0.013	< 0.013	< 0.013	<0.013	< 0.013	< 0.013
Phenanthrene	μg/g	0.046 - 0.46	12	<0.046	<0.046	0.067	<0.046	<0.046	<0.046	<0.046	<0.046
Pyrene	ua/a	0.05 - 0.5	96	< 0.050	< 0.050	0.315	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

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 3 SCS "-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
NV- No Value
NA - Not App"

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

Geotechnical Investigation Brantford Streetscape Project

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				S	ample Location	BH101-21	BH102-21	BH103-21	BH103-21	BH104-21	BH105-21	BH106-21	BH107-21	BH107-21	BH108-21	BH109-21	BH110-21	BH111-21	BH111-21
					Sample Name	BH101-21 SS4	BH102-21 SS2	BH103-21 SS2	BH103-21 SS3 5-	BH104-21 SS2	BH105-21 SS4	BH106-21 SS2	BH107-21 SS2	BH107-21 SS4	BH108-21 SS4	BH109-21 SS2	BH110-21 SS3 5-	BH111-21 SS2	BH111-21 SS3 5-
					Sample Name	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5FT	7.5-9.5FT	7.5-9.5FT	2.5-4.5FT	7FT	2.5-45FT	7FT
			0044 T-11 - 0 000 (1/0/0		Lab Job #	L2585298	L2585298	L2585298	L2585298	L2585298	L2585298	L2585298	L2584509	L2584509	L2584509	L2584509	L2584509	L2584509	L2584509
Parameters	Unit	RDL	2011 Table 3 SCS (I/C/C,		Laboratory ID	L2585298-25	L2585298-19	L2585298-14	L2585298-15	L2585298-10	L2585298-8	L2585298-2	L2584509-18	L2584509-20	L2584509-16	L2584509-10	L2584509-7	L2584509-2	L2584509-3
			Coarse)	,	Sampling Date	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	05-May-2021	05-May-2021	05-May-2021	05-May-2021	05-May-2021	05-May-2021	05-May-2021
				Sam	ple Depth (m bgs)	2.3-2.9	0.8-1.4	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	0.8-1.4	2.3-2.9	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4	1.5-2.1
					Maximum														
					Concentration														
Petroleum Hydrocarbons (PHCs)																			
F1 (C6 to C10)	μg/g	5	55	<	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1 (C6 to C10) minus BTEX	μg/g	5	55	<	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	μg/g	10 - 50	230		22	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	μg/g	50 - 250	1700		89	<50	4720	442	100	444	89	124	<50	<50	<50	82	<50	<50	<50
F4 (C34 to C50)	μg/g	50 - 250	3300		168	<50	1900	181	<50	249	79	290	<50	<50	<50	284	<50	<50	<50
Reached Baseline at C50	unitless		NR		NA	YES	NO	NO	YES	NO	YES	NO	YES	YES	YES	NO	YES	YES	YES
F4G (Gravimetric)	μg/g	250	3300		730	-	5880	940	-	410	-	960	-	-	-	1470	-	-	-

- Exceeds 2011 Table 3 SCS

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RDL - Reported detection limit
NR - Not Relevant
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NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Geotechnical Investigation Brantford Streetscape Project Page 1 of 4

				BH112-21	BH114-21	BH114-21	BH115-21	BH116-21	BH117-21	BH118-21	BH118-21	BH119-21	BH121-21	BH122-21	BH122-21	BH123-21	BH124-21	BH125-21
				BH112-21 SS2	BH114-21 SS2	BH114-21 SS3 5-	BH115-21 SS2	BH116-21 SS4	BH117-21 SS2	BH118-21 SS2	BH118-21 SS3 5-	BH119-21 SS4	BH121-21 SS2	BH122-21 SS2	BH122-21 SS4	BH123-21 GS1B	BH124-21 SS3 5-	BH125-21 SS3 5-
				2.5-4.5FT	2.5-4.0 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5 FT	7 FT	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5FT	7.5-9.5FT	18"-2.5FT	7FT	7FT
			0044 Talla 0 000 (1/0/0	L2584522	L2583155	L2583155	L2583155	L2583155	L2583126	L2583126	L2583126	L2583126	L2583126	L2586911	L2586911	L2586911	L2586898	L2586911
Parameters	Unit	RDL	2011 Table 3 SCS (I/C/C,	L2584522-18	L2583155-12	L2583155-13	L2583155-7	L2583155-5	L2583126-22	L2583126-18	L2583126-19	L2583126-16	L2583126-6	L2586911-2	L2586911-4	L2586911-12	L2586898-3	L2586911-20
			Coarse)	04-May-2021	03-May-2021	03-May-2021	03-May-2021	03-May-2021	30-Apr-2021	30-Apr-2021	30-Apr-2021	30-Apr-2021	30-Apr-2021	11-May-2021	11-May-2021	11-May-2021	12-May-2021	11-May-2021
				0.8-1.4	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	0.8-1.4	1.5-2.1	2.3-2.9	0.8-1.4	0.8-1.4	2.3-2.9	0.5-0.8	1.5-2.1	1.5-2.1
Petroleum Hydrocarbons (PHCs)								<u> </u>		<u> </u>								
F1 (C6 to C10)	μg/g	5	55	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1 (C6 to C10) minus BTEX	μg/g	5	55	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	μg/g	10 - 50	230	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	μg/g	50 - 250	1700	<50	<50	<50	<50	<50	<50	<50	<50	<50	55	72	<50	50	<50	<50
F4 (C34 to C50)	μg/g	50 - 250	3300	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	60	<50	94	<50	<50
Reached Baseline at C50	unitless		NR	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
F4G (Gravimetric)	μg/g	250	3300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- Exceeds 2011 Table 3 SCS

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Geotechnical Investigation Brantford Streetscape Project

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				BH126-21	BH127-21	BH128-21	BH128-21	BH130-21	BH131-21	BH132-21	BH132-21	BH133-21	BH134-21	BH135-21	BH135-21	BH136-21	BH137-21
				BH126-21 SS2	H127-21 SS3 5-75	128-21 SS2 2.5-4.	RH128-21 SS3 5-7E	BH130-21 SS2	BH131-21 SS2	BH132-21 SS2	BH132-21 SS4	BH 133-21 SS2	BH 134-21 SS3 5-	BH 135-21 SS2	BH 135-21 SS4	BH 136-21 SS3 5-	BH 137-21 SS2
				2.5-4.5FT	111127-21 333 3-71	1120-21 332 2.3-4.	311120-21 333 3-71	2.5-3.5FT	2.5-3.5FT	2.5-4.5FT	7.5-9.5FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	7 FT	2.5-4.5 FT
			2044 Table 2 CCC (UC/C	L2586911	L2586898	L2586898	L2586898	L2587890	L2587890	L2587890	L2587890	L2581807	L2581807	L2581807	L2581807	L2581807	L2581807
Parameters	Unit	RDL	2011 Table 3 SCS (I/C/C,	L2586911-7	L2586898-8	L2586898-13	L2586898-14	L2587890-3	L2587890-5	L2587890-7	L2587890-9	L2581807-2	L2581807-7	L2581807-10	L2581807-12	L2581807-15	L2581807-18
			Coarse)	11-May-2021	5/12/2021 9:50	5/12/2021 11:20	5/12/2021 11:30	13-May-2021	13-May-2021	13-May-2021	13-May-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021
				0.8-1.4	1.5-2.1	0.8-1.4	1.5-2.1	0.8-1.1	0.8-1.1	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	1.5-2.1	0.8-1.4
Petroleum Hydrocarbons (PHCs)					1												
F1 (C6 to C10)	μg/g	5	55	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1 (C6 to C10) minus BTEX	μg/g	5	55	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	μg/g	10 - 50	230	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	22	<10	<10	<10
F3 (C16 to C34)	μg/g	50 - 250	1700	<50	79	<50	<50	<50	<50	<50	<50	<50	<50	89	<50	<50	<50
F4 (C34 to C50)	μg/g	50 - 250	3300	<50	168	<50	<50	<50	126	<50	<50	<50	<50	<50	<50	<50	<50
Reached Baseline at C50	unitless		NR	YES	NO	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES
F4G (Gravimetric)	μg/g	250	3300	-	700	-	-	=	670	-	-	-	-	-	-	-	-

- Exceeds 2011 Table 3 SCS

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Geotechnical Investigation Brantford Streetscape Project

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				BH137-21	BH139-21	BH139-21	BH141-21	BH142-21	BH143.21	BH144-21	BH145-21	BH146-21	BH147-21	BH147-21	BH148-21
				BH 137-21 SS3 5-	BH 139-21 SS2	BH 139-21 SS4	BH 141-21 SS3 5-	BH 142-21 SS2	BH 143-21 SS2	BH144-21 SS2	BH145-21 SS2	BH146-21 SS2	BH147-21 SS2	BH147-21 SS4	BH148-21 SS2
				7 FT	2.5-4.5 FT	7.5-9.5 FT	7 FT	2.5-4.5 FT	2.5-4.5 FT	2.5-4.5FT	2.5-4.5FT	2.5-4.5FT	2.5-4.5FT	7.5-9.5FT	2.5-4.5 FT
				L2581807	L2581830	L2581830	L2581830	L2581830	L2581830	L2584522	L2584522	L2584522	L2584522	L2584522	L2583126
Parameters	Unit	RDL	2011 Table 3 SCS (I/C/C,	L2581807-19	L2581830-2	L2581830-4	L2581830-12	L2581830-15	L2581830-19	L2584522-6	L2584522-10	L2584522-14	L2584522-2	L2584522-4	L2583126-2
			Coarse)	27-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021	30-Apr-2021
				1.5-2.1	0.8-1.4	2.3-2.9	1.5-2.1	0.8-1.4	0.8-1.4	0.8-1.4	0.8-1.4	0.8-1.4	0.8-1.4	2.3-2.9	0.8-1.4
Petroleum Hydrocarbons (PHCs)															
F1 (C6 to C10)	μg/g	5	55	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1 (C6 to C10) minus BTEX	μg/g	5	55	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	μg/g	10 - 50	230	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	μg/g	50 - 250	1700	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	μg/g	50 - 250	3300	<50	<50	<50	<50	67	78	<50	<50	<50	<50	<50	<50
Reached Baseline at C50	unitless		NR	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES
F4G (Gravimetric)	μg/g	250	3300	-	-	-	-	-	730	-	-	-	-	-	-

- Exceeds 2011 Table 3 SCS

"-" - parameter not analyzed
RDL - Reported detection limit
NR - Not Relevant
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NA - Not Applicable
"<" - Less than the Reporting Detection Limit

Geotechnical Investigation Brantford Streetscape Project

MTE File No.: 46995-100 Page 4 of 4

				Sample Location	BH101-21	BH102-21	BH103-21	BH103-21	BH104-21	BH105-21	BH106-21	BH107-21	BH107-21	BH108-21	BH109-21	BH110-21	BH111-21
					BH101-21 SS4	BH102-21 SS2	BH103-21 SS2	BH103-21 SS3 5-	BH104-21 SS2	BH105-21 SS4	BH106-21 SS2	BH107-21 SS2	BH107-21 SS4	BH108-21 SS4	BH109-21 SS2	BH110-21 SS3 5-	BH111-21 SS2
				Sample Name	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5FT	7.5-9.5FT	7.5-9.5FT	2.5-4.5FT	7FT	2.5-45FT
				Lab Job #	L2585298	L2585298	L2585298	L2585298	L2585298	L2585298	L2585298	L2584509	L2584509	L2584509	L2584509	L2584509	L2584509
Parameters	Unit	RDL	2011 Table 3 SCS (I/C/C,	Laboratory ID	L2585298-25	L2585298-19	L2585298-14	L2585298-15	L2585298-10	L2585298-8	L2585298-2	L2584509-18	L2584509-20	L2584509-16	L2584509-10	L2584509-7	L2584509-2
raiameters	Onic	KDL	Coarse)	Sampling Date	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	05-May-2021	05-May-2021	05-May-2021	05-May-2021	05-May-2021	05-May-2021
				Sample Depth (m bgs)	2.3-2.9	0.8-1.4	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	0.8-1.4	2.3-2.9	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4
				Maximum		****			***		0.0						
				Concentration													i
Volatile Organic Compounds (VOCs)	1																
Acetone	µg/g	0.5	16	< 0.5	_	_	_	_		<0.50	-	_	_	<0.50	_	_	
Benzene	µg/g	0.0068	0.32	0.0259	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	µg/g	0.05	18	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050	-	-	-
Bromoform	μg/g	0.05	0.61	< 0.05	_	_	_	_		<0.050	_	_	_	<0.050	_	_	_
Bromomethane	ug/g	0.05	0.05	< 0.05	-	-	-	-	_	<0.050	-	-	-	<0.050	-	-	-
Carbon Tetrachloride	µg/g	0.05	0.21	< 0.05	_	-	-	-	-	<0.050	_	_	_	<0.050	-	_	_
Chlorobenzene	μg/g	0.05	2.4	< 0.05	_	-	-	-	-	<0.050	_	_	_	<0.050	-	_	_
Chloroform	μg/g	0.05	0.47	< 0.05	_	-	-	-	-	<0.050	_	-	_	<0.050	-	-	
Dibromochloromethane	µg/g	0.05	13	< 0.05	_	-	-	-	-	<0.050	_	_	_	<0.050	-	_	
1,2-Dichlorobenzene	µg/g	0.05	6.8	< 0.05	_	-	-	-	-	<0.050	_	-	-	<0.050	-	-	_
1,3-Dichlorobenzene	µg/g	0.05	9.6	< 0.05	_	-		-	-	<0.050	_	_	_	<0.050	-	_	_
1,4-Dichlorobenzene	µg/g	0.05	0.2	< 0.05	_	_		_	-	<0.050	_	_	_	<0.050	_	_	_
Dichlorodifluoromethane	µg/g	0.05	16	< 0.05	_	-		-		<0.050	_	_	-	<0.050	-	_	_
1,1-Dichloroethane	µg/g	0.05	17	< 0.05	_	_		-	_	<0.050	_	_	_	<0.050	-	_	· -
1,2-Dichloroethane	ua/a	0.05	0.05	< 0.05	_	-	-	-	_	< 0.050	_	_	_	<0.050	-	_	_
1.1-Dichloroethylene	ug/g	0.05	0.064	< 0.05	_	-		-	-	< 0.050	_	_	_	<0.050	-	_	_
Ethylbenzene	µg/g	0.018	9.5	< 0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
cis-1.2-Dichloroethylene	μg/g	0.05	55	< 0.05	-	-	-	-	-	< 0.050	-	-	-	<0.050	-	-	-
trans-1.2-Dichloroethylene	ua/a	0.05	1.3	< 0.05	_	-	-	-	-	<0.050	_	_	-	<0.050	-	_	-
1,2-Dichloropropane	µg/g	0.05	0.16	< 0.05	_	-	_	-	_	<0.050	_	-	_	<0.050	-	-	_
cis-1,3-Dichloropropene	µg/g	0.03	NR	< 0.03	_	-	-	-	-	<0.030	_	_	-	<0.030	-	_	_
trans-1,3-Dichloropropene	µg/g	0.03	NR	< 0.03	-	-	_	-	-	<0.030	-	-	-	<0.030	-	-	-
1,3-Dichloropropene	μg/g	0.042	0.18	< 0.042	_	-	-	-	-	<0.042	_	_	-	<0.042	-	_	_
Ethylene Dibromide	µg/g	0.05	0.05	< 0.05	_	-	_	-	_	< 0.050	_	-	_	< 0.050	-	-	-
Hexane (n)	μg/g	0.05	46	0.052	_	-	-	-	-	<0.050	_	_	-	<0.050	-	_	_
Methyl Ethyl Ketone	µg/g	0.5	70	< 0.5	-	-	_	-	-	<0.50	-	-	-	<0.50	-	-	-
Methyl Isobutyl Ketone	µg/g	0.5	31	< 0.5	-	-	-	-	-	<0.50	-	-	-	<0.50	-	-	-
Methyl Tert-Butyl Ether	μg/g	0.05	11	< 0.05	-	-	_	-	-	<0.050	-	-	-	<0.050	-	-	-
Methylene Chloride	μg/g	0.05	1.6	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050	-	-	-
Styrene	µg/g	0.05	34	< 0.05	-	-	-	-	-	<0.050	-	-	-	< 0.050	-	-	-
1.1.1.2-Tetrachloroethane	µg/g	0.05	0.087	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050	-	-	-
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	< 0.05	_	-	_	-	_	<0.050	_	-	_	<0.050	-	-	_
Tetrachloroethylene	µg/g	0.05	4.5	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050	-	-	-
Toluene	µg/g	0.08	68	< 0.08	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	µg/g	0.05	6.1	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050	-	-	-
1,1,2-Trichloroethane	µg/g	0.05	0.05	< 0.05	-	-	=	-	-	<0.050	-	-	-	<0.050	-	-	-
Trichloroethylene	ua/a	0.01	0.91	< 0.01	_	-		-		<0.010	_	-	-	<0.010	-	-	-
Trichlorofluoromethane	µg/g	0.05	4	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050	-	-	-
Vinyl Chloride	μg/g	0.02	0.032	< 0.02	_	-	-	-	_	<0.020	_	_	_	<0.020	-	_	-
o-Xvlene	µg/g	0.02	NR	< 0.02	<0.020	<0.020	<0.020	<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	0.03	NR	< 0.02	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Xylene Mixture	µg/g	0.05	26	< 0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
7.9.0.10 MIXIGIO	M9/9	0.00	20	- 0.00	10.000	₹0.000	70.000	₹0.000	٦٥.000	₹0.000	٦٥.٥٥٥	30.000	٦٥.٥٥٥	70.000	30.000	30.000	٦٥.٥٥٥

- Exceeds 2011 Table 3 SCS

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

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				BH111-21	BH112-21	BH114-21	BH114-21	BH115-21	BH116-21	BH117-21	BH118-21	BH118-21	BH119-21	BH121-21	BH122-21	BH122-21	BH123-21
				BH111-21 SS3 5-	BH112-21 SS2	BH114-21 SS2	BH114-21 SS3 5-	BH115-21 SS2	BH116-21 SS4	BH117-21 SS2	BH118-21 SS2	BH118-21 SS3 5-	BH119-21 SS4	BH121-21 SS2	BH122-21 SS2	BH122-21 SS4	BH123-21 GS1B
				7FT	2.5-4.5FT	2.5-4.0 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5 FT	7 FT	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5FT	7.5-9.5FT	18"-2.5FT
				L2584509	L2584522	L2583155	L2583155	L2583155	L2583155	L2583126	L2583126	L2583126	L2583126	L2583126	L2586911	L2586911	L2586911
Parameters	Unit	RDL	2011 Table 3 SCS (I/C/C,	L2584509-3	L2584522-18	L2583155-12	L2583155-13	L2583155-7	L2583155-5	L2583126-22	L2583126-18	L2583126-19	L2583126-16	L2583126-6	L2586911-2	L2586911-4	L2586911-12
1 diameters	Oiiii	KDL	Coarse)	05-May-2021	04-May-2021	03-May-2021	03-May-2021	03-May-2021	03-May-2021	30-Apr-2021	30-Apr-2021	30-Apr-2021	30-Apr-2021	30-Apr-2021	11-May-2021	11-May-2021	11-May-2021
				1.5-2.1	0.8-1.4	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	0.8-1.4	1,5-2,1	2.3-2.9	0.8-1.4	0.8-1.4	2.3-2.9	0.5-0.8
Volatile Organic Compounds (VOCs)		<u> </u>															
Acetone	μg/g	0.5	16	_	-	-	-	-	-	-	-	-	<0.50	-	-	-	_
Benzene	µg/g	0.0068	0.32	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	hd/d	0.05	18	-	-	-	-	-	-	-	-	-	<0.050	-	-	-	-
Bromoform	ug/g	0.05	0.61	-	-	-	-	-	_	-	-	_	<0.050	_	_	-	-
Bromomethane	μg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	< 0.050	-	-	-	-
Carbon Tetrachloride	μg/g	0.05	0.21	-	-	-	-	-	-	-	-	-	< 0.050	-	-	-	-
Chlorobenzene	μg/g	0.05	2.4	-	-	-	-	-	-	-	-	-	<0.050	-	-	-	-
Chloroform	µg/g	0.05	0.47	-	-	-	-	-	-	-	-	-	< 0.050	-	-	-	-
Dibromochloromethane	μg/g	0.05	13	-	-	-	-	-	-	-	-	-	< 0.050	-	-	-	-
1,2-Dichlorobenzene	μg/g	0.05	6.8	-	-	-	-	-	-	-	-	-	< 0.050	٠	-	-	-
1,3-Dichlorobenzene	μg/g	0.05	9.6	-	-	-	-	-	-	-	-	-	< 0.050	-	-	-	-
1,4-Dichlorobenzene	μg/g	0.05	0.2	-	-	-	-	-	-	-	-	-	<0.050	-	-	-	-
Dichlorodifluoromethane	μg/g	0.05	16	-	-	-	-	-	-	-	-	-	< 0.050	-	-	-	-
1,1-Dichloroethane	μg/g	0.05	17	-	-	-	-	-	-	-	-	-	< 0.050	-	-	-	-
1,2-Dichloroethane	μg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	< 0.050		-	-	-
1,1-Dichloroethylene	μg/g	0.05	0.064	-	-	-	-	-	-	-	-	-	< 0.050	-	-	-	-
Ethylbenzene	μg/g	0.018	9.5	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
cis-1,2-Dichloroethylene	μg/g	0.05	55	-	-	-	-	-	-	-	-	-	< 0.050	-	-	-	-
trans-1,2-Dichloroethylene	μg/g	0.05	1.3	-	-	-	-	-	-	-	-	-	<0.050	-	-	-	-
1,2-Dichloropropane	μg/g	0.05	0.16	-	-	-	-	-	-	-	-	-	<0.050	-	-	-	-
cis-1,3-Dichloropropene	μg/g	0.03	NR	-	-	-	-	-	-	-	-	-	<0.030	-	-	-	-
trans-1,3-Dichloropropene	μg/g	0.03	NR	-	-	-	-	-	-	-	-	-	<0.030		-	-	-
1,3-Dichloropropene	μg/g	0.042	0.18	-	-	-	-	-	-	-	-	-	<0.042	-	-	-	-
Ethylene Dibromide	μg/g	0.05	0.05	-	-	-	-	-	-	-	-	-	<0.050	-	-	-	-
Hexane (n)	μg/g	0.05	46	-	-	-	-	-	-	-	-	-	<0.050	-	-	-	-
Methyl Ethyl Ketone	μg/g	0.5	70	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-
Methyl Isobutyl Ketone	μg/g	0.5	31	-	-	-	-	-	-	-	-	-	<0.50	-	-	-	-
Methyl Tert-Butyl Ether	μg/g	0.05	11	-	-	-	-	-	-	-	-	-	<0.050	-	-	-	-
Methylene Chloride	μg/g	0.05	1.6	-	-	-	-	-	-	-	-	-	<0.050	-	-	-	-
Styrene	μg/g	0.05	34	-	-	-	-	-	-	-	-	-	<0.050	-	-	-	-
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.087	-	-	-	-	-	-	-	-	-	<0.050	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	-				-	-		-		<0.050 <0.050			-	-
Tetrachloroethylene Toluene	μg/g	0.05	4.5 68	<0.080	-0.000	-0.000	-0.090		-0.000	-0.000	-0.000			-0.000	-0.000	-0.000	-0.000
	μg/g	0.08	6.1		<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080 <0.050	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane 1,1,2-Trichloroethane	µg/g µg/q	0.05	0.05	-	-	-	-	-	-	-	-	-	<0.050	-	-	-	-
Trichloroethylene	μg/g μg/q	0.05	0.05	-	-	-	-	-	-	-	-	-	<0.050	-	-		-
Trichlorofluoromethane	µg/g µg/q	0.01	0.91 4	-	-	-	-	-	-	-	-	-	<0.010	-	-	-	-
Vinyl Chloride	μg/g μg/g	0.05	0.032	-	-	-	-	-	-	-	-	-	<0.030	-	-	-	-
o-Xylene	ug/g	0.02	0.032 NR	<0.020	<0.020	<0.020	<0.020	<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	NR NR	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Xvlene Mixture	ug/g	0.05	26	<0.050	<0.030	<0.050	<0.050	<0.030	<0.030	<0.050	<0.050	<0.030	<0.050	<0.050	<0.050	<0.050	<0.050
Aylene Mixture	µg/g	0.03	20	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000

- Exceeds 2011 Table 3 SCS

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

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				BH124-21	BH125-21	BH126-21	BH127-21	BH128-21	BH128-21	BH130-21	BH131-21	BH132-21	BH132-21	BH133-21	BH134-21	BH135-21	BH135-21
				BH124-21 SS3 5-	BH125-21 SS3 5-	BH126-21 SS2	BH127-21 SS3 5-	BH128-21 SS2	BH128-21 SS3 5-	BH130-21 SS2	BH131-21 SS2	BH132-21 SS2	BH132-21 SS4	BH 133-21 SS2	BH 134-21 SS3 5-	BH 135-21 SS2	BH 135-21 SS4
				7FT	7FT	2.5-4.5FT	7FT	2.5-4.5FT	7FT	2.5-3.5FT	2.5-3.5FT	2.5-4.5FT	7.5-9.5FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT
				L2586898	L2586911	L2586911	L2586898	L2586898	L2586898	L2587890	L2587890	L2587890	L2587890	L2581807	L2581807	L2581807	L2581807
Parameters	Unit	RDL	2011 Table 3 SCS (I/C/C,	L2586898-3	L2586911-20	L2586911-7	L2586898-8	L2586898-13	L2586898-14	L2587890-3	L2587890-5	L2587890-7	L2587890-9	L2581807-2	L2581807-7	L2581807-10	L2581807-12
· a.ao.o.o	· · · · ·		Coarse)	12-May-2021	11-May-2021	11-May-2021	12-May-2021	12-May-2021	12-May-2021	13-May-2021	13-May-2021	13-May-2021	13-May-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021
				1.5-2.1	1.5-2.1	0.8-1.4	1.5-2.1	0.8-1.4	1.5-2.1	0.8-1.1	0.8-1.1	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9
Volatile Organic Compounds (VOCs)																	
Acetone	μg/g	0.5	16	-	<0.50	-	-	-	-	-	-	-	<0.50	-	-	-	-
Benzene	μg/g	0.0068	0.32	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	0.0237	<0.0068	<0.0068	0.0069	<0.0068	0.0259	<0.0068
Bromodichloromethane	μg/g	0.05	18	-	< 0.050	-	-	-	-	-	-	-	< 0.050	-	-	-	-
Bromoform	μg/g	0.05	0.61	-	< 0.050	-	-	-	-	-	-	-	< 0.050	-	-	-	-
Bromomethane	μg/g	0.05	0.05	-	< 0.050	-	-	-	-	-	-	-	< 0.050	-	-	-	-
Carbon Tetrachloride	μg/g	0.05	0.21	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	-	-
Chlorobenzene	μg/g	0.05	2.4	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	-	-
Chloroform	μg/g	0.05	0.47	-	< 0.050	-	-	-	-	-	-	-	< 0.050	-	-	-	-
Dibromochloromethane	μg/g	0.05	13	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	-	-
1,2-Dichlorobenzene	μg/g	0.05	6.8	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	-	-
1,3-Dichlorobenzene	μg/g	0.05	9.6	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	-	-
1,4-Dichlorobenzene	μg/g	0.05	0.2	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	-	-
Dichlorodifluoromethane 1.1-Dichloroethane	μg/g	0.05	16 17	-	<0.050 <0.050	-	-	-	-	-	-	-	<0.050 <0.050	-	-	-	-
1,1-Dichloroethane	μg/g μg/g	0.05	0.05	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	-	-
1,1-Dichloroethylene	μg/g μg/g	0.05	0.064	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	<u> </u>	-
Ethylbenzene	µg/g	0.03	9.5	<0.018	<0.030	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.030	<0.018	<0.018	<0.018	<0.018
cis-1.2-Dichloroethylene	ug/g	0.016	55		<0.050	-	-	-	-	-	-		<0.010	-		-	-
trans-1,2-Dichloroethylene	µg/g	0.05	1.3	_	<0.050	-	_	-	-	-	-	_	<0.050	_	_	-	_
1.2-Dichloropropane	µg/g	0.05	0.16	_	< 0.050	_	-	_	-	-	-	_	<0.050	-	_	-	-
cis-1.3-Dichloropropene	µg/g	0.03	NR	-	<0.030	-	-	-	-	-	-	-	<0.030	-	-	-	-
trans-1,3-Dichloropropene	µg/g	0.03	NR	-	< 0.030	-	-	-	-	-	-	-	< 0.030	-	-	-	-
1,3-Dichloropropene	μg/g	0.042	0.18	-	<0.042	-	-	-	-	-	-	-	< 0.042	-	-	-	-
Ethylene Dibromide	μg/g	0.05	0.05	-	< 0.050	-	-	-	-	-	-	-	< 0.050	-	-	-	-
Hexane (n)	μg/g	0.05	46	-	< 0.050	-	-	-	-	-	-	-	< 0.050	-	-	-	-
Methyl Ethyl Ketone	μg/g	0.5	70	-	<0.50	-	-	-	-	-	-	-	<0.50	-	-	-	-
Methyl Isobutyl Ketone	μg/g	0.5	31	-	< 0.50	-	-	-	-	-	-	-	<0.50	-	-	-	-
Methyl Tert-Butyl Ether	μg/g	0.05	11	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	-	-
Methylene Chloride	μg/g	0.05	1.6	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	-	-
Styrene	μg/g	0.05	34	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	-	-
1,1,1,2-Tetrachloroethane	μg/g	0.05	0.087	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	-	-
1,1,2,2-Tetrachloroethane	μg/g	0.05	0.05	-	<0.050	-	-	-	-	-	-	-	<0.050	-	-	-	-
Tetrachloroethylene	μg/g	0.05	4.5	-	<0.050	- 0.000	-	- 0.000	- 0.000	- 0.000	- 0.000	-	<0.050	-	-	- 0.000	-
Toluene	μg/g	0.08	68 6.1	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	μg/g	0.05	0.05	-	<0.050 <0.050	-	-	-	-	-	-	-	<0.050 <0.050	-	-	-	-
Trichloroethylene	μg/g μα/α	0.05	0.05	-	<0.050		-	-	-	-		-	<0.050	-	-	-	-
Trichlorofluoromethane	μg/g μg/q	0.01	0.91 	-	<0.010	<u> </u>	-	<u> </u>	-	-	<u> </u>	-	<0.010	-	-	<u> </u>	-
Vinyl Chloride	μg/g μg/g	0.03	0.032	-	<0.030		-		-	-	-	-	<0.030	-	-		-
o-Xvlene	μg/g μg/g	0.02	0.032 NR	<0.020	<0.020	<0.020	<0.020	<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	NR	<0.020	<0.030	<0.020	<0.020	<0.020	<0.020	<0.030	<0.030	<0.020	<0.020	<0.020	<0.030	<0.020	<0.020
Xylene Mixture	ug/g	0.05	26	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ayrono Mixturo	1 49/9	0.00	20	\0.000	\0.000	\0.000	\0.000	\0.000	\0.000	\0.000	\0.000	\0.000	\0.000	\0.000	₹0.000	\0.000	₹0.000

- Exceeds 2011 Table 3 SCS

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

Geotechnical Investigation Brantford Streetscape Project MTE File No.: 46995-100 Page 3 of 5 April 2022

				BH136-21	BH137-21	BH137-21	BH138-21	BH139-21	BH139-21	BH140-21	BH141-21	BH142-21	BH142-21	BH143-21	BH143-21	BH144-21	BH145-21
				BH 136-21 SS3 5-	BH 137-21 SS2	BH 137-21 SS3 5-	BH 138-21 SS4	BH 139-21 SS2	BH 139-21 SS4	BH 140-21 SS4	BH 141-21 SS3 5-	BH 142-21 SS2	BH 142-21 SS4	BH 143-21 SS2	BH 143-21 SS3 5-	BH144-21 SS2	BH145-21 SS2
				7 FT	2.5-4.5 FT	7 FT	7.5-9.5 FT	2.5-4.5 FT	7.5-9.5 FT	7.5-9.5 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	2.5-4.5 FT	7 FT	2.5-4.5FT	2.5-4.5FT
				L2581807	L2581807	L2581807	L2581807	L2581830	L2581830	L2581830	L2581830	L2581830	L2581830	L2581830	L2581830	L2584522	L2584522
Parameters	Unit	RDL	2011 Table 3 SCS (I/C/C,	L2581807-15	L2581807-18	L2581807-19	L2581807-24	L2581830-2	L2581830-4	L2581830-8	L2581830-12	L2581830-15	L2581830-17	L2581830-19	L2581830-20	L2584522-6	L2584522-10
raidileters	Oille	NDL	Coarse)	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	04-May-2021	04-May-2021
				1.5-2.1	0.8-1.4	1.5-2.1	2.3-2.9	0.8-1.4	2.3-2.9	2.3-2.9	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4	0.8-1.4
				1.0 2.1	0.0 1.4	1.0 2.1	2.0 2.0	0.0 1.4	2.0 2.0	2.0 2.0	1.0 2.1	0.0 1.4	2.0 2.0	0.0 1.4	1.0 2.1	0.0 1.4	0.0 1.4
Volatile Organic Compounds (VOCs)																	
Acetone	µg/g	0.5	16	-	-	<0.50	<0.50	-	-	<0.50	_	-	<0.50	_	<0.50	-	_
Benzene	μg/g μg/g	0.0068	0.32	0.01	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	ug/g	0.00	18	-	-	<0.050	<0.050	-	-	<0.050	-	-	<0.050	-	<0.050	-	-
Bromoform	µg/g µg/q	0.05	0.61	_	_	<0.050	<0.050	_		<0.050	_	_	<0.050		<0.050		_
Bromomethane	ug/g	0.05	0.05	_		<0.050	<0.050	_	-	<0.050	-	_	<0.050	-	<0.050		_
Carbon Tetrachloride	µg/g	0.05	0.21	-	-	<0.050	<0.050	-	-	<0.050	-	-	<0.050	-	<0.050	-	_
Chlorobenzene	µg/g	0.05	2.4		_	<0.050	<0.050	_	_	<0.050	_	_	<0.050		<0.050		_
Chloroform	µg/g	0.05	0.47	-	-	<0.050	<0.050	-	-	<0.050	-	-	<0.050	-	<0.050		-
Dibromochloromethane	μg/g μg/g	0.05	13	_		<0.050	<0.050			<0.050	_		<0.050		<0.050		_
1.2-Dichlorobenzene	µg/g	0.05	6.8		-	<0.050	<0.050	-	-	<0.050	-		<0.050	-	<0.050	<u>-</u>	-
1.3-Dichlorobenzene	µg/g	0.05	9.6	_	-	<0.050	<0.050	_	_	<0.050	_	_	<0.050	_	<0.050	_	_
1.4-Dichlorobenzene	µg/g	0.05	0.2	_	_	<0.050	<0.050	_	_	<0.050	_	_	<0.050	_	<0.050		_
Dichlorodifluoromethane	µg/g	0.05	16	-	-	<0.050	<0.050	_	_	<0.050	_	_	<0.050	-	<0.050	-	_
1,1-Dichloroethane	μg/g	0.05	17	-	-	<0.050	<0.050	_	-	<0.050	_	_	<0.050	-	<0.050	-	_
1,2-Dichloroethane	μg/g	0.05	0.05	_	-	<0.050	<0.050	_	_	<0.050	_	_	<0.050	_	<0.050	-	_
1,1-Dichloroethylene	μg/g	0.05	0.064	_	-	<0.050	< 0.050	_	_	<0.050	_	_	<0.050	-	<0.050	-	_
Ethylbenzene	µg/g	0.018	9.5	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
cis-1.2-Dichloroethylene	ua/a	0.05	55	-	-	<0.050	<0.050	-	-	< 0.050	-	-	<0.050	-	<0.050	-	-
trans-1.2-Dichloroethylene	ua/a	0.05	1.3	-	-	<0.050	<0.050	-	-	< 0.050	-	-	< 0.050	-	<0.050	-	-
1,2-Dichloropropane	µg/g	0.05	0.16	-	-	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-	-
cis-1.3-Dichloropropene	µg/g	0.03	NR	-	-	< 0.030	< 0.030	-	-	< 0.030	-	-	< 0.030	-	< 0.030	-	-
trans-1,3-Dichloropropene	µg/g	0.03	NR	-	-	< 0.030	<0.030	-	-	< 0.030	-	-	< 0.030	-	< 0.030	-	-
1,3-Dichloropropene	μg/g	0.042	0.18	-	-	< 0.042	< 0.042	-	-	< 0.042	-	-	< 0.042	-	<0.042	-	-
Ethylene Dibromide	μg/g	0.05	0.05	-	-	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-	-
Hexane (n)	μg/g	0.05	46	-	-	0.052	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-	-
Methyl Ethyl Ketone	μg/g	0.5	70	-	-	< 0.50	<0.50	-	-	<0.50	-	-	<0.50	-	<0.50	-	-
Methyl Isobutyl Ketone	μg/g	0.5	31	-	-	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	<0.50	-	-
Methyl Tert-Butyl Ether	μg/g	0.05	11	-	-	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-	-
Methylene Chloride	μg/g	0.05	1.6	-	-	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-	-
Styrene	μg/g	0.05	34	-	-	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-	-
1,1,1,2-Tetrachloroethane	μg/g	0.05	0.087	-	-	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-	-
1,1,2,2-Tetrachloroethane	μg/g	0.05	0.05	-	-	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	<0.050		-
Tetrachloroethylene	μg/g	0.05	4.5	-	-	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	<0.050	-	-
Toluene	μg/g	0.08	68	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	μg/g	0.05	6.1	-	-	< 0.050	<0.050	-	-	<0.050	-	-	<0.050	-	< 0.050	-	-
1,1,2-Trichloroethane	μg/g	0.05	0.05	-	-	<0.050	<0.050	-	-	<0.050	-	-	<0.050	-	< 0.050	-	-
Trichloroethylene	μg/g	0.01	0.91	-	-	<0.010	<0.010	-	-	<0.010	-	-	<0.010	-	<0.010	-	-
Trichlorofluoromethane	μg/g	0.05	4	-	-	<0.050	<0.050	-	-	<0.050	-	-	<0.050	-	< 0.050	-	-
Vinyl Chloride	μg/g	0.02	0.032	-	-	<0.020	<0.020	-	-	<0.020	-	-	<0.020	-	<0.020	-	-
o-Xylene	μg/g	0.02	NR	<0.020	<0.020	<0.020	<0.020	<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	0.03	NR	< 0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	< 0.030	<0.030	<0.030	< 0.030	< 0.030	<0.030	< 0.030
Xylene Mixture	μg/g	0.05	26	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

- Exceeds 2011 Table 3 SCS

"-" - parameter not analyzed
RDL - Reported detection limit
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				BH146-21 BH146-21 SS2	BH147-21 BH147-21 SS2	BH147-21 BH147-21 SS4	BH148-21 BH148-21 SS2
				2.5-4.5FT	2.5-4.5FT	7.5-9.5FT	2.5-4.5 FT
				L2584522	L2584522	L2584522	L2583126
			2011 Table 3 SCS (I/C/C,	L2584522-14	L2584522-2	L2584522-4	L2583126
Parameters	Unit	RDL	Coarse)	04-May-2021	04-May-2021	04-May-2021	30-Apr-2021
			•	0.8-1.4	0.8-1.4	2.3-2.9	0.8-1.4
				0.6-1.4	0.6-1.4	2.3-2.9	0.6-1.4
Volatile Organic Compounds (VOCs)	1 ,	1					
Acetone	μg/g	0.5	16	-	-	-	
Benzene	μg/g	0.0068	0.32	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	μg/g	0.05	18	-	-	-	-
Bromoform	μg/g	0.05	0.61	-	-	-	-
Bromomethane	μg/g	0.05	0.05	-	-	-	-
Carbon Tetrachloride	μg/g	0.05	0.21	-	-	-	-
Chlorobenzene	μg/g	0.05	2.4	-	-	-	-
Chloroform	μg/g	0.05	0.47	-	-	-	-
Dibromochloromethane	μg/g	0.05	13	-	-	-	-
1,2-Dichlorobenzene	μg/g	0.05	6.8	-	-	-	-
1,3-Dichlorobenzene	μg/g	0.05	9.6	-	-	-	-
1,4-Dichlorobenzene	μg/g	0.05	0.2	-	-	-	-
Dichlorodifluoromethane	μg/g	0.05	16	-	-	-	-
1,1-Dichloroethane	μg/g	0.05	17	-	-	-	-
1,2-Dichloroethane	μg/g	0.05	0.05	-	-	-	-
1,1-Dichloroethylene	µg/g	0.05	0.064	-	-	-	_
Ethylbenzene	µg/g	0.018	9.5	<0.018	<0.018	<0.018	<0.018
cis-1,2-Dichloroethylene	µg/g	0.05	55	-	-	-	-
trans-1,2-Dichloroethylene	µg/g	0.05	1.3	-	-	-	-
1,2-Dichloropropane	µg/g	0.05	0.16	-	-	-	-
cis-1,3-Dichloropropene	µg/g	0.03	NR	-	-	-	-
trans-1,3-Dichloropropene	µg/g	0.03	NR	-	-	-	-
1,3-Dichloropropene	µg/g	0.042	0.18	-	-	-	-
Ethylene Dibromide	µg/g	0.05	0.05	-	-	-	-
Hexane (n)	µg/g	0.05	46		-	-	
Methyl Ethyl Ketone	ha/a	0.5	70		-	-	-
Methyl Isobutyl Ketone	µg/g	0.5	31		-	-	-
Methyl Tert-Butyl Ether	hd/d	0.05	11	_	-	-	-
Methylene Chloride	µg/g	0.05	1.6	_	-	-	-
Styrene	μg/g	0.05	34	_	-	-	-
1.1.1.2-Tetrachloroethane	μg/g	0.05	0.087	_	_	_	-
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	_	_	_	_
Tetrachloroethylene	ug/g	0.05	4.5	-	_	-	-
Toluene	μg/g	0.03	68	<0.080	<0.080	<0.080	<0.080
1.1.1-Trichloroethane	μg/g	0.05	6.1	- <0.060	- <0.060		
1.1.2-Trichloroethane	μg/g μg/g	0.05	0.05	-	-	-	-
Trichloroethylene	μg/g μg/g	0.03	0.03	-	-	-	
Trichlorofluoromethane	µg/g µg/q	0.01	0.91 	-	-	-	-
Vinvl Chloride	μg/g μg/g	0.03	0.032	-	-	-	-
o-Xylene		0.02	0.032 NR	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	μg/g	0.02	NR NR				
	μg/g			<0.030	<0.030	<0.030	<0.030
Xylene Mixture	μg/g	0.05	26	<0.050	<0.050	<0.050	<0.050

- Exceeds 2011 Table 3 SCS

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

Geotechnical Investigation Brantford Streetscape Project

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						Sample Location	BH101-21	BH102-21	BH103-21	BH105-21	BH106-21	BH107-21	BH108-21	BH109-21	BH110-21	BH111-21
						Sample Name										BH111-21 SS2 2.5-
							7 FT	4.5 FT	7 FT	9.5 FT	4.5 FT	4.5FT	9.5FT	4.5FT	7FT	45FT
			Table 1 ESQS (R/P/I or			Lab Job #	L2585298	L2585298	L2585298	L2585298	L2585298	L2584509	L2584509	L2584509	L2584509	L2584509
Parameters	Unit	RDL	I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	Laboratory ID	L2585298-24	L2585298-19	L2585298-15	L2585298-8	L2585298-2	L2584509-18	L2584509-16	L2584509-10	L2584509-7	L2584509-2
			1/6/6)			Sampling Date	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	05-May-2021	05-May-2021	05-May-2021	05-May-2021	05-May-2021
						Sample Depth (m bgs)	1.5-2.1	0.8-1.4	1.5-2.1	2.3-2.9	0.8-1.4	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4
						Maximum Concentration										
Metals and Inorganics																
Antimony	μg/g	1	1.3	7.5	40	2.1	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	μg/g	1	18	18	18	10.1	3.1	8.3	-	2.5	5.3	3.7	2.4	1.8	<1.0	1.6
Barium	μg/g	1	220	390	670	382	19.3	9.3	-	20.2	52.5	40.3	24.6	17.8	9.8	24.6
Beryllium	μg/g	0.5	2.5	4	8	1.29	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Boron	μg/g	5	36	120	120	30.1	6.9	<5.0	-	5.8	9.3	6.1	5.4	<5.0	<5.0	<5.0
Boron (Hot Water Soluble)	μg/g	0.1	NA	1.5	2	0.21	-	0.18	-	-	-	-	-	-	-	0.21
Cadmium	μg/g	0.5	1.2	1.2	1.9	< 0.5	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chromium	μg/g	1	70	160	160	39.3	7.3	6.8	-	12.6	26.3	13	8.6	7.4	5.2	7.8
Chromium VI	μg/g	0.2	0.66	8	8	0.22	-	<0.20	-	-	-	-	-	-	•	0.22
Cobalt	μg/g	1	21	22	80	14.8	3.3	1.9	-	2.9	5.6	4.9	3.9	2.1	1.6	2.8
Copper	μg/g	1	92	140	230	58	19.5	8.7	-	14.8	30.8	18.6	15.6	8.9	6.4	5
Lead	μg/g	1	120	120	120	672	8.1	4.4	-	10.8	44.5	14.5	6.6	10.6	4	3.1
Mercury	μg/g	0.005	0.27	0.27	0.27	0.144	-	< 0.0050	-	-	-	-	-	-	•	0.144
Molybdenum	μg/g	1	2	6.9	40	1.4	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	μg/g	1	82	100	270	30.8	6.6	4.1	-	6.3	13.9	10.9	7.6	4.7	3.9	5.1
Selenium	μg/g	1	1.5	2.4	5.5	1.5	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	μg/g	0.2	0.5	20	40	0.21	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	μg/g	0.5	1	1	3.3	< 0.5	< 0.50	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50
Uranium	μg/g	1	2.5	23	33	1.1	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	μg/g	1	86	86	86	53.3	13.9	16	-	17.5	32.5	24.3	17	13.9	11	16.9
Zinc	μg/g	5	290	340	340	194	88.9	35.9	-	76.5	155	71.2	48.5	39.1	22.5	15.9
Electrical Conductivity	mS/cm	0.004	0.57	0.7	1.4	5.56	0.739	-	1.32	1.95	-	1.04	0.69	-	-	-
Sodium Adsorption Ratio (SAR)	unitless	0.1	2.4	5	12	75.2	3.02	-	20.9	58	-	66.5	25.6	-	-	-
pH	pH units	0.1	NR	NR	NR	8.2	8.06	-	-	-	-	7.99	-	-	-	-

Notes:

2020 Excess Soil Quality Standards (ESQS) - As identified in Appendix 1 of the Rules for Soil Management adopted by reference in O.Reg. 406/19 made under the Environmental Protection Act (December 8, 2020)

Bold
- Exceeds Table 1 ESQS (R/P/I or I/C/C)
- Exceeds Table 3.1 ESQS (R/P/I)
- Exceeds Table 3.1 ESQS (I/C/C)

"-" - parameter not analyzed
RDL - Reported detection limit
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NV- No Value
NA - Not Applicable
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						BH111-21	BH112-21	BH112-21	BH114-21	BH114-21	BH115-21	BH116-21	BH117-21	BH117-21	BH118-21	BH118-21	BH119-21
								BH112-21 SS4 7.5									BH119-21 SS4 7.5-
						7FT	4.5FT	9.5FT	4.0 FT	7 FT	2.5-4.5 FT	9.5 FT	4.5 FT	7 FT	4.5 FT	7 FT	9.5 FT
			T-11- 4 F000 (D/D/L			L2584509	L2584522	L2584522	L2583155	L2583155	L2583155	L2583155	L2583126	L2583126	L2583126	L2583126	L2583126
Parameters	Unit	RDL	Table 1 ESQS (R/P/I or	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	L2584509-3	L2584522-18	L2584522-20	L2583155-12	L2583155-13	L2583155-7	L2583155-5	L2583126-22	L2583126-23	L2583126-18	L2583126-19	L2583126-16
			I/C/C)	` ′	` ′	05-May-2021	04-May-2021	04-May-2021	03-May-2021	03-May-2021	03-May-2021	03-May-2021	30-Apr-2021	30-Apr-2021	30-Apr-2021	30-Apr-2021	30-Apr-2021
						1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4	1.5-2.1	2.3-2.9
Metals and Inorganics	_																
Antimony	μg/g	1	1.3	7.5	40	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2	<1.0	<1.0	<1.0
Arsenic	μg/g	1	18	18	18	2.2	3	2.9	4.3	1.8	2.5	1.6	2.6	5	3	10.1	3.7
Barium	μg/g	1	220	390	670	15.6	19.5	43.4	23.8	10.5	13.5	10.4	77.8	382	34.6	86.4	12.2
Beryllium	μg/g	0.5	2.5	4	8	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	0.76	<0.50
Boron	μg/g	5	36	120	120	<5.0	6.5	7.6	6.3	6.1	6.6	<5.0	9.5	30.1	7.1	13.9	<5.0
Boron (Hot Water Soluble)	μg/g	0.1	NA	1.5	2	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	μg/g	0.5	1.2	1.2	1.9	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	<0.50
Chromium	μg/g	1	70	160	160	6.7	12.4	12.6	11.9	5.4	7.9	5.9	9.9	23.5	9	26.6	4.9
Chromium VI	μg/g	0.2	0.66	8	8	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	μg/g	1	21	22	80	2.8	3.4	5.4	3.8	1.7	2.7	2.2	2.8	4.4	3.7	11.9	1.9
Copper	μg/g	1	92	140	230	8.7	19.5	13.7	18.9	10.2	15	8.9	23.9	58	21.5	31	5.1
Lead	μg/g	1	120	120	120	4.2	17.8	6.4	9	7.3	6.8	4.1	117	672	26.1	14.3	3.1
Mercury	μg/g	0.005	0.27	0.27	0.27	-	-	-	•	-	-	-	-	-	-	-	-
Molybdenum	μg/g	1	2	6.9	40	<1.0	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0
Nickel	μg/g	1	82	100	270	5.5	7.3	11	9.3	3.7	6	4.2	6	10.2	7.8	26.2	3.7
Selenium	μg/g	1	1.5	2.4	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0
Silver	μg/g	0.2	0.5	20	40	<0.20	<0.20	<0.20	< 0.20	<0.20	< 0.20	< 0.20	<0.20	0.21	<0.20	<0.20	<0.20
Thallium	μg/g	0.5	1	1	3.3	< 0.50	< 0.50	<0.50	<0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Uranium	μg/g	1	2.5	23	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0
Vanadium	μg/g	1	86	86	86	13.7	18.2	24.6	22.7	10.7	17.8	14	12.7	17.8	16.6	38.1	9.8
Zinc	μg/g	5	290	340	340	27.8	80.4	29.2	50.7	36.5	61.2	21.1	123	194	146	76.1	17.7
Electrical Conductivity	mS/cm	0.004	0.57	0.7	1.4	0.649	0.264	-	•	-	-	5.56	-	-	-	1.36	1.17
Sodium Adsorption Ratio (SAR)	unitless	0.1	2.4	5	12	25.1	8.35	-	17.5	-	-	16	-	-	-	60.3	25.4
рН	pH units	0.1	NR	NR	NR	7.66	-	-	7.92	-	-	-	-	-	-	-	7.97

Notes:

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Geotechnical Investigation Brantford Streetscape Project MTE File No.: 46995-100 Page 2 of 5 April 2022

						BH120-21	BH121-21	BH122-21	BH123-21	BH124-21	BH125-21	BH125-21	BH126-21	BH126-21	BH127-21	BH128-21	BH128-21
											BH125-21 SS2 2.5-					BH128-21 SS2 2.5	
						7 FT	4.5 FT	4.5FT	18"-2.5FT	7FT	4.5FT	7FT	4.5FT	7FT	7FT	4.5FT	7FT
			T-11- 4 F000 (D/D/I			L2583126	L2583126	L2586911	L2586911	L2586898	L2586911	L2586911	L2586911	L2586911	L2586898	L2586898	L2586898
Parameters	Unit	RDL	Table 1 ESQS (R/P/I or	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	L2583126-11	L2583126-6	L2586911-2	L2586911-12	L2586898-3	L2586911-19	L2586911-20	L2586911-7	L2586911-8	L2586898-8	L2586898-13	L2586898-14
			I/C/C)	` ′	` ′	30-Apr-2021	30-Apr-2021	11-May-2021	11-May-2021	12-May-2021	11-May-2021	11-May-2021	11-May-2021	11-May-2021	12-May-2021	12-May-2021	12-May-2021
						1.5-2.1	0.8-1.4	0.8-1.4	0.5-0.8	1.5-2.1	0.8-1.4	1.5-2.1	0.8-1.4	1.5-2.1	1.5-2.1	0.8-1.4	1.5-2.1
Metals and Inorganics	_																
Antimony	μg/g	1	1.3	7.5	40	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	μg/g	1	18	18	18	1.7	4.2	3.5	3.7	2.7	1.8	3.7	1.9	2.6	2.4	2.4	2.5
Barium	μg/g	1	220	390	670	13.3	54.7	35.5	38.9	12.5	25.1	14.7	16.3	26.3	32.7	22	27.9
Beryllium	μg/g	0.5	2.5	4	8	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50
Boron	μg/g	5	36	120	120	<5.0	9.4	8.7	8.5	<5.0	<5.0	<5.0	<5.0	5.2	5.3	<5.0	<5.0
Boron (Hot Water Soluble)	μg/g	0.1	NA	1.5	2	-	-	-	-	-	-	-	-	-	-	-	0.16
Cadmium	μg/g	0.5	1.2	1.2	1.9	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chromium	μg/g	1	70	160	160	7.3	15.2	18	12.7	7.7	11.2	11.2	10.9	11.8	15.6	8	9
Chromium VI	μg/g	0.2	0.66	8	8	-	-	-	-	-	-	-	-	-	-	-	<0.20
Cobalt	μg/g	1	21	22	80	2.6	5.9	3.8	4	2.8	3.4	3.1	3.4	3.3	3	2.9	3.2
Copper	μg/g	1	92	140	230	7.3	37.9	24.4	25.2	14.2	5	14.4	5.3	12.6	12.9	12.8	13.1
Lead	μg/g	1	120	120	120	4.6	49.5	39.5	66.5	7	6.8	6.8	7.5	6.3	20.4	28.8	19.8
Mercury	μg/g	0.005	0.27	0.27	0.27	-	-	-	-	-	-	-	-	-	-	-	0.126
Molybdenum	μg/g	1	2	6.9	40	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	μg/g	1	82	100	270	5.6	12.8	9.7	8.2	6.3	6.7	7.2	5.4	7.4	6.6	5.8	6.6
Selenium	μg/g	1	1.5	2.4	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	μg/g	0.2	0.5	20	40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium	μg/g	0.5	1	1	3.3	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Uranium	μg/g	1	2.5	23	33	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium	μg/g	1	86	86	86	17.1	24.2	18.2	24.9	14.5	27.7	26.8	27.2	24.8	15.5	14.7	17.6
Zinc	μg/g	5	290	340	340	24.5	95.3	98.8	145	49.6	40.1	41.9	26.9	37.1	53.9	51.6	51.3
Electrical Conductivity	mS/cm	0.004	0.57	0.7	1.4	-	-	1.22	-	0.502	-	-	1.43	-	0.771	-	-
Sodium Adsorption Ratio (SAR)	unitless	0.1	2.4	5	12	-	-	71.9	-	35.5		-	58.6		36.2	-	-
рН	pH units	0.1	NR	NR	NR	-	-	7.78	-	7.98	-	-	-	-	-	-	-

Notes:

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Bold
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Geotechnical Investigation Brantford Streetscape Project

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						BH130-21	BH131-21	BH132-21	BH132-21	BH133-21	BH134-21	BH135-21	BH135-21	BH137-21	BH137-21	BH138-21	BH139-21
						BH130-21 SS2 2.5	BH131-21 SS2 2.5	BH132-21 SS2 2.5	BH132-21 SS4 7.5	BH 133-21 SS2	BH 134-21 SS3 5-	BH 135-21 SS2	BH 135-21 SS4	BH 137-21 SS2	BH 137-21 SS3 5-	BH 138-21 SS2	BH 139-21 SS2
						3.5FT	3.5FT	4.5FT	9.5FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	2.5-4.5 FT
			/-/-			L2587890	L2587890	L2587890	L2587890	L2581807	L2581807	L2581807	L2581807	L2581807	L2581807	L2581807	L2581830
Parameters	Unit	RDL	Table 1 ESQS (R/P/I or	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	L2587890-3	L2587890-5	L2587890-7	L2587890-9	L2581807-2	L2581807-7	L2581807-10	L2581807-12	L2581807-18	L2581807-19	L2581807-22	L2581830-2
			I/C/C)	,		13-May-2021	13-May-2021	13-May-2021	13-May-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	28-Apr-2021
						0.8-1.1	0.8-1.1	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4	0.8-1.4
Metals and Inorganics																	
Antimony	μg/g	1	1.3	7.5	40	-	<1.0	1	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0
Arsenic	μg/g	1	18	18	18	-	2.7	2.1	1.4	2.3	2	3.7	-	-	3.5	3.4	6.6
Barium	μg/g	1	220	390	670	-	25.9	26.3	9	24	16.1	40.2	-	-	61	26.3	50.8
Beryllium	μg/g	0.5	2.5	4	8	-	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	< 0.50	< 0.50	0.66
Boron	μg/g	5	36	120	120	-	8.5	<5.0	<5.0	<5.0	5.2	5	-	-	9.5	8.4	10
Boron (Hot Water Soluble)	μg/g	0.1	NA	1.5	2	-	-	-	-	0.18	-	-	-	-	-	-	-
Cadmium	μg/g	0.5	1.2	1.2	1.9	-	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	-	-	< 0.50	< 0.50	< 0.50
Chromium	μg/g	1	70	160	160	-	9.4	10.1	7.2	9.4	7.5	12	-	-	17.3	12.2	18.3
Chromium VI	μg/g	0.2	0.66	8	8	-	-	-		<0.20	-		-	-	-	-	-
Cobalt	μg/g	1	21	22	80	-	3.3	3	1.8	2.7	2.7	4.3	-	-	7.1	3.7	6
Copper	μg/g	1	92	140	230	-	13	8.9	5	11.1	9.2	17.5	-	-	18.8	23.6	45.3
Lead	μg/g	1	120	120	120	-	29.4	32	4.4	26.7	5.8	49	-	-	7.7	19.7	214
Mercury	μg/g	0.005	0.27	0.27	0.27	-	-	-	-	0.125	-	-	-	-	-	-	-
Molybdenum	μg/g	1	2	6.9	40	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0
Nickel	μg/g	1	82	100	270	-	7.1	6.1	3.8	5.4	5.5	8.2	-	-	14.9	8.3	16.2
Selenium	μg/g	1	1.5	2.4	5.5	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0
Silver	μg/g	0.2	0.5	20	40	-	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	-	-	<0.20	<0.20	<0.20
Thallium	μg/g	0.5	1	1	3.3	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	-	<0.50	<0.50	<0.50
Uranium	μg/g	1	2.5	23	33	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0
Vanadium	μg/g	1	86	86	86	-	17.1	24	20.9	19.8	17.6	24.7	-	-	27.9	16	33.7
Zinc	μg/g	5	290	340	340	-	60.4	45.9	28.9	42.9	29.1	67.8	-	-	44.6	85.8	114
Electrical Conductivity	mS/cm	0.004	0.57	0.7	1.4	1.33	-	-	1.15	1.74	1.64	-	2.24	1.68	-	-	3.48
Sodium Adsorption Ratio (SAR)	unitless	0.1	2.4	5	12	57.5	-	-	47.8	68.4	49.7	-	66.8	75.2	-	-	64.1
рН	pH units	0.1	NR	NR	NR	-	8.2	-	•	-	7.96	-	-	-	-	8.19	-

Notes:

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Geotechnical Investigation Brantford Streetscape Project

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Parameters	Unit	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	BH140-21 BH 140-21 GS1B 12"-2.5 FT L2581830 L2581830-9 28-Apr-2021 0.3-0.8	BH141-21 BH 141-21 SS3 5- 7 FT L2581830 L2581830-12 28-Apr-2021 1.5-2.1	BH142-21 BH 142-21 SS2 2.5-4.5 FT L2581830 L2581830-15 28-Apr-2021 0.8-1.4	BH143.21 BH 143-21 SS2 2.5-4.5 FT L2581830 L2581830-19 28-Apr-2021 0.8-1.4	BH144-21 BH144-21 SS2 2.5 4.5FT L2584522 L2584522-6 04-May-2021 0.8-1.4	BH145-21 BH145-21 SS2 2.5 4.5FT L2584522 L2584522-10 04-May-2021 0.8-1.4	BH146-21 BH146-21 SS3 5- 7FT L2584522 L2584522-15 04-May-2021 1.5-2.1	BH147-21 BH147-21 SS2 2.5 4.5FT L2584522 L2584522-2 04-May-2021 0.8-1.4	BH148-21 BH148-21 SS2 2.5 4.5 FT L2583126 L2583126-2 30-Apr-2021 0.8-1.4
Metals and Inorganics													<u> </u>	
Antimony	μg/g	1 1	1.3	7.5	40	<1.0	<1.0	<1.0	<1.0	T .	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/g	1	18	18	18	3.8	6.7	3.9	2.9	-	1.9	2.8	1.4	2.1
Barium	µg/g	1	220	390	670	50.1	18.9	44.4	24	-	1.9	184	19.2	35.7
Beryllium	µg/g	0.5	2.5	A	8	<0.50	<0.50	<0.50	<0.50		<0.50	1.29	<0.50	<0.50
Boron	µg/g	5	36	120	120	5.9	12.1	7.6	6.3	_	<5.0	16.3	5.2	5.5
Boron (Hot Water Soluble)	µg/g	0.1	NA	1.5	2	- 0.0	-	-	0.2	_	-	-	-	-
Cadmium	µg/g	0.5	1.2	1.2	1.9	<0.50	<0.50	<0.50	<0.50	_	<0.50	<0.50	<0.50	<0.50
Chromium	µg/g	1	70	160	160	16	8.7	19.8	10.5	_	5.4	39.3	4.9	12
Chromium VI	µg/g	0.2	0.66	8	8	-	-	-	<0.20	_	-	-	-	
Cobalt	µg/g	1	21	22	80	4.5	4.5	4.4	3	_	2	14.8	1.9	3.6
Copper	μg/g	1	92	140	230	20.6	28.7	30.4	13.9	_	8.6	18.3	6.7	7.7
Lead	µg/g	1	120	120	120	61.6	16.3	19.8	20.1	_	7.7	16.3	13.3	6.4
Mercury	µg/g	0.005	0.27	0.27	0.27	-	-	-	0.0565	-	-	-	-	-
Molybdenum	μg/g	1	2	6.9	40	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Nickel	μg/g	1	82	100	270	8.8	8.6	9.7	6.6	-	4.1	30.8	3.8	7.3
Selenium	μg/g	1	1.5	2.4	5.5	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Silver	hd/d	0.2	0.5	20	40	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	<0.20
Thallium	hd/d	0.5	1	1	3.3	<0.50	<0.50	<0.50	<0.50	-	<0.50	<0.50	<0.50	<0.50
Uranium	µg/g	1	2.5	23	33	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Vanadium	µg/g	1	86	86	86	24.2	23.1	25	19.1	-	14.1	53.3	9.7	24.1
Zinc	µg/g	5	290	340	340	110	71.9	80.6	56.2	-	31.2	91	26.6	39.6
Electrical Conductivity	mS/cm	0.004	0.57	0.7	1.4	-	1.12	2.1	-	1.04	-	3.93	-	1.04
Sodium Adsorption Ratio (SAR)	unitless	0.1	2.4	5	12	_	31	63.5	-	11.4	-	47	-	37
pH	pH units	0.1	NR	NR	NR	-	-	8.01	-	-	-	7.97	-	7.79

Notes:

2020 Excess Soil Quality Standards (ESQS) - As identified in Appendix 1 of the Rules for Soil Management adopted by reference in O.Reg. 406/19 made under the Environmental Protection Act (December 8, 2020)

Bold
- Exceeds Table 1 ESQS (R/P/I or I/C/C)

Bold
- Exceeds Table 3.1 ESQS (R/P/I)
- Exceeds Table 3.1 ESQS (I/C/C)

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

Geotechnical Investigation Brantford Streetscape Project

MTE File No.: 46995-100 Page 5 of 5

							Sample Location	BH103-21	BH130-21
							Sample Name	BH103-21 SS2 2.5-	BH130-21 SS2 2.5-
							Sample Name	4.5 FT	3.5FT
							Lab Job #	L2585298	L2587890
Parameters	Unit	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)		Laboratory ID	L2585298-14	L2587890-3
			1 2 4 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	140.001 2040 (1417.)	1 4 5 1 1 2 4 5 (4 6 7 5 7		Sampling Date	06-May-2021	13-May-2021
						San	nple Depth (m bgs)	0.8-1.4	0.8-1.1
							Maximum		
							Concentration		
Polychlorinated Biphenyls (PCBs)	ļ								
Aroclor 1242	μg/g	0.01	NR	NV	NV	<	0.01	< 0.010	<0.010
Aroclor 1248	μg/g	0.01	NR	NV	NV	<	0.01	<0.010	<0.010
Aroclor 1254	μg/g	0.01	NR	NV	NV	<	0.01	<0.010	<0.010
Aroclor 1260	μg/g	0.01	NR	NV	NV	<	0.01	<0.010	<0.010
Total Polychlorinated Biphenyls	μg/g	0.02	0.3	0.35	0.78	<	0.02	<0.020	<0.020

Notes:
2020 Excess Soil Quality Standards (ESQS) - As identified in Appendix 1 of the Rules for Soil Management adopted by reference in O.Reg. 406/19 made under the Environmental Protection Act (December 8, 2020)

Bold	- Exceeds Table 1 ESQS (R/P/I or I/C/C)
Bold	- Exceeds Table 3.1 ESQS (R/P/I)
Bold	- Exceeds Table 3.1 ESQS (I/C/C)

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NA - Not Applicable

"<" - Less than the Reporting Detection Limit

Geotechnical Investigation Brantford Streetscape Project

MTE File No.: 46995-100 Page 1 of 1 April 2022

						Sample I	Location	BH101-21	BH102-21	BH103-21	BH103-21	BH104-21	BH106-21
								BH101-21 SS3 5-	BH102-21 SS2	BH103-21 SS2	BH103-21 SS3 5-	BH104-21 SS2	BH106-21 SS2
						Sample	e Name	7 FT	2.5-4.5 FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	2.5-4.5 FT
						Lab J	Job #	L2585298	L2585298	L2585298	L2585298	L2585298	L2585298
Parameters	Unit	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	Labora	tory ID	L2585298-24	L2585298-19	L2585298-14	L2585298-15	L2585298-10	L2585298-2
r drameters	01	INDE	Table 1 Logo (IVI /I of I/o/o/	Table 3.1 Logo (IVI 7I)	Table 3.1 Logo (I/O/O)	Samplin	ng Date	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021
						Sample Dep	pth (m bgs)	1.5-2.1	0.8-1.4	0.8-1.4	1.5-2.1	0.8-1.4	0.8-1.4
						Maxii	mum	-			-		
						Concen							
Dalamatic According to the control (DAI	1->	1				Ooncen	itiation						
Polycyclic Aromatic Hydrocarbons (PAF		0.05.04	0.070		1 45	1 1	0.05	0.050	0.050	0.050	0.050	0.050	0.050
Acenaphthene	μg/g	0.05 - 0.4	0.072	14	15		0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acenaphthylene	μg/g	0.05 - 0.125	0.093	0.093	0.093		0.052	<0.050	<0.050	<0.050	< 0.050	<0.050	< 0.050
Anthracene	μg/g	0.05 - 0.125	0.16	0.16	0.16		0.05	<0.050	<0.050	<0.050	< 0.050	<0.050	<0.050
Benz(a)anthracene	μg/g	0.05 - 0.125	0.36	0.5	1		0.412	<0.050	<0.050	0.227	0.346	0.412	0.134
Benzo(a)pyrene	μg/g	0.05 - 0.125	0.3	0.57	0.7	(0.926	<0.050	<0.050	0.362	0.501	0.926	0.133
Benzo(b)fluoranthene	μg/g	0.05 - 0.125	0.47	5.7	7	(0.361	< 0.050	< 0.050	0.159	0.221	0.361	0.17
Benzo(g,h,i)perylene	μg/g	0.05 - 0.15	0.68	6.6	13		0.861	< 0.050	< 0.050	0.255	0.375	0.861	0.102
Benzo(k)fluoranthene	μg/g	0.05 - 0.125	0.48	5.7	7		0.103	< 0.050	< 0.050	< 0.050	< 0.050	0.069	0.054
Chrysene	μg/g	0.05 - 0.125	2.8	7	14		0.57	< 0.050	< 0.050	0.268	0.418	0.57	0.13
Dibenz(a,h)anthracene	μg/g	0.05 - 0.125	0.1	0.57	0.7	(0.494	< 0.050	<0.050	0.171	0.237	0.494	< 0.050
Fluoranthene	μg/g	0.05 - 0.5	0.56	0.69	70	(0.324	< 0.050	<0.050	< 0.050	< 0.050	< 0.050	0.222
Fluorene	µg/g	0.05 - 0.125	0.12	6.8	6.8	<	0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Indeno(1,2,3-cd)pyrene	µg/g	0.05 - 0.125	0.23	0.38	0.76	(0.365	< 0.050	< 0.050	0.124	0.164	0.365	0.091
1-Methylnaphthalene	µg/g	0.03 - 0.075	0.59	NV	NV	<	0.03	< 0.030	< 0.030	< 0.030	< 0.030	<0.030	<0.030
2-Methylnaphthalene	µg/g	0.03 - 0.075	0.59	NV	NV	<	0.03	< 0.030	<0.030	< 0.030	< 0.030	< 0.030	< 0.030
1+2-Methylnaphthalene	µg/g	0.0424 - 0.106	0.59	0.92	8.7	< (0.042	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042
Naphthalene	μg/g	0.013 - 0.32	0.09	0.59	1.8	< 0	0.013	< 0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Phenanthrene	µg/g	0.046 - 0.46	0.69	6.2	12		0.144	<0.046	<0.046	<0.046	<0.046	<0.046	0.144
Pyrene	ug/g	0.05 - 0.5	1	70	70		0.315	<0.050	<0.050	0.134	0.205	0.259	0.226

Notes:
2020 Excess Soil Quality Standards (ESQS) - As identified in Appendix 1 of the Rules for Soil Management adopted by reference in O.Reg. 406/19 made under the Environmental Protection Act (December 8, 2020)

- marginary and an area and a second a second and a second a second and a second a second and a second and a second and a	
Bold	- Exceeds Table 1 ESQS (R/P/I or I/C/0
Bold	- Exceeds Table 3.1 ESQS (R/P/I)
Bold	- Exceeds Table 3.1 ESQS (I/C/C)

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NR - Not Relevant

NV- No Value

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Geotechnical Investigation Brantford Streetscape Project

MTE File No.: 46995-100 Page 1 of 2 April 2022

Parameters	Unit	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	BH111-21 BH111-21 SS2 2.5-45FT L2584509 L2584509-2 05-May-2021 0.8-1.4	BH111-21 BH111-21 SS3 5- 7FT L2584509 L2584509-3 05-May-2021 1.5-2.1	BH123-21 BH123-21 GS1B 18"-2.5FT L2586911 L2586911-12 11-May-2021 0.5-0.8	BH137-21 BH 137-21 SS3 5- 7 FT L2581807 L2581807-19 27-Apr-2021 1.5-2.1	BH143-21 BH 143-21 SS2 2.5-4.5 FT L2581830 L2581830-19 28-Apr-2021 0.8-1.4	BH143-21 BH 143-21 SS3 5- 7 FT L2581830 L2581830-20 28-Apr-2021 1.5-2.1	BH146-21 BH146-21 SS2 2.5-4.5FT L2584522 L2584522-14 04-May-2021 0.8-1.4	BH148-21 BH148-21 SS2 2.5-4.5 FT L2583126 L2583126-2 30-Apr-2021 0.8-1.4
Polycyclic Aromatic Hydrocarbons (PAI		1	1 0000			2.252	2.252	0.050	2.252	2.250	0.050	2.252	2.252
Acenaphthene	μg/g	0.05 - 0.4	0.072	14	15	<0.050	<0.050	<0.050	< 0.050	< 0.050	<0.050	<0.050	<0.050
Acenaphthylene	μg/g	0.05 - 0.125	0.093	0.093	0.093	< 0.050	<0.050	0.052	<0.050	<0.050	< 0.050	<0.050	<0.050
Anthracene	μg/g	0.05 - 0.125	0.16	0.16	0.16	<0.050	<0.050	< 0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benz(a)anthracene	μg/g	0.05 - 0.125	0.36	0.5	1	<0.050	<0.050	0.249	<0.050	< 0.050	<0.050	< 0.050	<0.050
Benzo(a)pyrene	μg/g	0.05 - 0.125	0.3	0.57	0.7	< 0.050	<0.050	0.244	<0.050	<0.050	< 0.050	< 0.050	<0.050
Benzo(b)fluoranthene	μg/g	0.05 - 0.125	0.47	5.7	7	<0.050	<0.050	0.315	<0.050	<0.050	<0.050	< 0.050	<0.050
Benzo(g,h,i)perylene	μg/g	0.05 - 0.15	0.68	6.6	13	< 0.050	< 0.050	0.165	< 0.050	< 0.050	<0.050	<0.050	< 0.050
Benzo(k)fluoranthene	μg/g	0.05 - 0.125	0.48	5.7	7	< 0.050	< 0.050	0.103	< 0.050	< 0.050	<0.050	<0.050	< 0.050
Chrysene	μg/g	0.05 - 0.125	2.8	7	14	< 0.050	< 0.050	0.217	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Dibenz(a,h)anthracene	μg/g	0.05 - 0.125	0.1	0.57	0.7	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluoranthene	μg/g	0.05 - 0.5	0.56	0.69	70	< 0.050	< 0.050	0.324	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Fluorene	μg/g	0.05 - 0.125	0.12	6.8	6.8	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Indeno(1,2,3-cd)pyrene	μg/g	0.05 - 0.125	0.23	0.38	0.76	< 0.050	<0.050	0.153	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
1-Methylnaphthalene	μg/g	0.03 - 0.075	0.59	NV	NV	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
2-Methylnaphthalene	μg/g	0.03 - 0.075	0.59	NV	NV	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030
1+2-Methylnaphthalene	μg/g	0.0424 - 0.106	0.59	0.92	8.7	< 0.042	< 0.042	<0.042	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042
Naphthalene	μg/g	0.013 - 0.32	0.09	0.59	1.8	< 0.013	<0.013	<0.013	< 0.013	< 0.013	<0.013	< 0.013	< 0.013
Phenanthrene	μg/g	0.046 - 0.46	0.69	6.2	12	<0.046	<0.046	0.067	<0.046	<0.046	<0.046	<0.046	<0.046
Pyrene	μg/g	0.05 - 0.5	1	70	70	< 0.050	< 0.050	0.315	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

Notes:

2020 Excess Soil Quality Standards (ESQS) - As identified in Appendix 1 of the Rules for Soil Management adopted by reference in O.Reg. 406/19 made under the Environmental Protection Act (December 8, 2020)

Bold
- Exceeds Table 1 ESQS (R/P/I or I/C/C)
- Exceeds Table 3.1 ESQS (R/P/I)
- Exceeds Table 3.1 ESQS (I/C/C)

"-" - parameter not analyzed

RDL - Reported detection limit

NR - Not Relevant

NR - Not Relevant

NV- No Value

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

Geotechnical Investigation Brantford Streetscape Project Page 2 of 2 MTE File No.: 46995-100 April 2022

						Sam	ple Location	BH101-21	BH102-21	BH103-21	BH103-21	BH104-21	BH105-21	BH106-21	BH107-21	BH107-21	BH108-21
						Sai	mple Name	BH101-21 SS4	BH102-21 SS2	BH103-21 SS2	BH103-21 SS3 5-	BH104-21 SS2	BH105-21 SS4	BH106-21 SS2	BH107-21 SS2	BH107-21 SS4	BH108-21 SS4
						Sai	imple Name	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5FT	7.5-9.5FT	7.5-9.5FT
						L	Lab Job #	L2585298	L2585298	L2585298	L2585298	L2585298	L2585298	L2585298	L2584509	L2584509	L2584509
Parameters Unit Petroleum Hydrocarbons (PHCs) F1 (C6 to C10) μg/g F1 (C6 to C10) minus BTEX μg/g	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)		boratory ID	L2585298-25	L2585298-19	L2585298-14	L2585298-15	L2585298-10	L2585298-8	L2585298-2	L2584509-18	L2584509-20	L2584509-16	
			` 1	` ,	` ′	Sar	mpling Date	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	05-May-2021	05-May-2021	05-May-2021
						Sample	e Depth (m bgs)	2.3-2.9	0.8-1.4	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	0.8-1.4	2.3-2.9	2.3-2.9
						N	Maximum										
						Concentration											
Petroleum Hydrocarbons (PHCs)						<u> </u>											
F1 (C6 to C10)	μg/g	5	25	NV	NV	<	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1 (C6 to C10) minus BTEX	μg/g	5	25	25	25	<	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	μg/g	10 - 50	10	10	26		22	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	μg/g	50 - 250	240	300	1700		89	<50	4720	442	100	444	89	124	<50	<50	<50
F4 (C34 to C50)	μg/g	50 - 250	120	2800	3300		168	<50	1900	181	<50	249	79	290	<50	<50	<50
Reached Baseline at C50	unitless		NR	NR	NR		NA	YES	NO	NO	YES	NO	YES	NO	YES	YES	YES
F4G (Gravimetric)	μg/g	250	120	2800	3300		730	-	5880	940	-	410	-	960	-	-	-

Notes:

2020 Excess Soil Quality Standards (ESQS) - As identified in Appendix 1 of the Rules for Soil Management adopted by reference in O.Reg. 406/19 made under the Environmental Protection Act (December 8, 2020)

Bold

- Exceeds Table 1 ESQS (R/P/I or I/C/C)

 Exceeds Table 1 ESQS (R/P/I or I/I
- Exceeds Table 3.1 ESQS (R/P/I)
- Exceeds Table 3.1 ESQS (I/C/C)

Bold
Bold
"-" - parameter not analyzed
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NR - Not Relevant
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NA - Not Applicable
"<" - Less than the Reporting Detection Limit - Detection limit exceeds at least one of Table 1 ESQS (R/P/I or I/C/C), Table 3.1 ESQS (R/P/I), Table 3.1 ESQS (I/C/C)

Geotechnical Investigation Brantford Streetscape Project

MTE File No.: 46995-100 Page 1 of 5

						BH109-21	BH110-21	BH111-21	BH111-21	BH112-21	BH114-21	BH114-21	BH115-21	BH116-21	BH117-21	BH118-21	BH118-21
						BH109-21 SS2	BH110-21 SS3 5-	BH111-21 SS2	BH111-21 SS3 5-	BH112-21 SS2	BH114-21 SS2	BH114-21 SS3 5-	BH115-21 SS2	BH116-21 SS4	BH117-21 SS2	BH118-21 SS2	BH118-21 SS3 5-
						2.5-4.5FT	7FT	2.5-45FT	7FT	2.5-4.5FT	2.5-4.0 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5 FT	7 FT
						L2584509	L2584509	L2584509	L2584509	L2584522	L2583155	L2583155	L2583155	L2583155	L2583126	L2583126	L2583126
Parameters	Unit	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	L2584509-10	L2584509-7	L2584509-2	L2584509-3	L2584522-18	L2583155-12	L2583155-13	L2583155-7	L2583155-5	L2583126-22	L2583126-18	L2583126-19
			,	, ,	, ,	05-May-2021	05-May-2021	05-May-2021	05-May-2021	04-May-2021	03-May-2021	03-May-2021	03-May-2021	03-May-2021	30-Apr-2021	30-Apr-2021	30-Apr-2021
						0.8-1.4	1.5-2.1	0.8-1.4	1.5-2.1	0.8-1.4	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	0.8-1.4	1.5-2.1
Petroleum Hydrocarbons (PHCs)																	
F1 (C6 to C10)	μg/g	5	25	NV	NV	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1 (C6 to C10) minus BTEX	μg/g	5	25	25	25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	μg/g	10 - 50	10	10	26	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	μg/g	50 - 250	240	300	1700	82	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	μg/g	50 - 250	120	2800	3300	284	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Reached Baseline at C50	unitless		NR	NR	NR	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
F4G (Gravimetric)	μg/g	250	120	2800	3300	1470	-	-	-	-	-	-	-	-	-	-	-

Notes:

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Bold

- Exceeds Table 1 ESQS (R/P/I or I/C/C)

Bold	- Exceeds Table 1 ESQS (R/P/I or I/C/C)
Bold	- Exceeds Table 3.1 ESQS (R/P/I)
Bold	- Exceeds Table 3.1 ESQS (I/C/C)
Bold	- Detection limit exceeds at least one of Table 1 ESQS (R/P/I or I/C/C), Table 3.1 ESQS (R/P/I), Table 3.1 ESQS (I/C/

Bold
Bold
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"<" - Less than the Reporting Detection Limit

Geotechnical Investigation Brantford Streetscape Project

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						BH119-21	BH121-21	BH122-21	BH122-21	BH123-21	BH124-21	BH125-21	BH126-21	BH127-21	BH128-21	BH128-21	BH130-21
						BH119-21 SS4	BH121-21 SS2	BH122-21 SS2	BH122-21 SS4	BH123-21 GS1B	BH124-21 SS3 5-	BH125-21 SS3 5-	BH126-21 SS2	H127-21 SS3 5-7F128-21 SS2 2.5-4		U120 21 CC2 E 7E	BH130-21 SS2
						7.5-9.5 FT	2.5-4.5 FT	2.5-4.5FT	7.5-9.5FT	18"-2.5FT	7FT	7FT	2.5-4.5FT	П121-21 333 3-1F		n120-21 333 3-7F	2.5-3.5FT
						L2583126	L2583126	L2586911	L2586911	L2586911	L2586898	L2586911	L2586911	L2586898	L2586898	L2586898	L2587890
Parameters	Unit	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	L2583126-16	L2583126-6	L2586911-2	L2586911-4	L2586911-12	L2586898-3	L2586911-20	L2586911-7	L2586898-8	L2586898-13	L2586898-14	L2587890-3
			, í	` ,	` ,	30-Apr-2021	30-Apr-2021	11-May-2021	11-May-2021	11-May-2021	12-May-2021	11-May-2021	11-May-2021	5/12/2021 9:50	5/12/2021 11:20	5/12/2021 11:30	13-May-2021
						2.3-2.9	0.8-1.4	0.8-1.4	2.3-2.9	0.5-0.8	1.5-2.1	1.5-2.1	0.8-1.4	1.5-2.1	0.8-1.4	1.5-2.1	0.8-1.1
																	i
																	i
Petroleum Hydrocarbons (PHCs)																	
F1 (C6 to C10)	μg/g	5	25	NV	NV	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1 (C6 to C10) minus BTEX	μg/g	5	25	25	25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	μg/g	10 - 50	10	10	26	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	μg/g	50 - 250	240	300	1700	<50	55	72	<50	50	<50	<50	<50	79	<50	<50	<50
F4 (C34 to C50)	μg/g	50 - 250	120	2800	3300	<50	<50	60	<50	94	<50	<50	<50	168	<50	<50	<50
Reached Baseline at C50	unitless		NR	NR	NR	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES
F4G (Gravimetric)	μg/g	250	120	2800	3300	-	-	-	-	-	-	-	-	700	-	-	-

Notes:
2020 Excess Soil Quality Standards (ESQS) - As identified in Appendix 1 of the Rules for Soil Management adopted by reference in O.Reg. 406/19 made under the Environmental Protection Act (December 8, 2020)

I/C/C)

Bold	- Exceeds Table 1 ESQS (R/P/I or I/C/C)
Bold	- Exceeds Table 3.1 ESQS (R/P/I)
Bold	- Exceeds Table 3.1 ESQS (I/C/C)
Bold	- Detection limit exceeds at least one of Table 1 ESQS (R/P/I or I/C/C), Table 3.1 ESQS (R/P/I), Table 3.1 ESQS (I/C/

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

Geotechnical Investigation Brantford Streetscape Project

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						BH131-21	BH132-21	BH132-21	BH133-21	BH134-21	BH135-21	BH135-21	BH136-21	BH137-21
						BH131-21 SS2	BH132-21 SS2	BH132-21 SS4	BH 133-21 SS2	BH 134-21 SS3 5-	BH 135-21 SS2	BH 135-21 SS4	BH 136-21 SS3 5-	BH 137-21 SS2
						2.5-3.5FT	2.5-4.5FT	7.5-9.5FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	7 FT	2.5-4.5 FT
						L2587890	L2587890	L2587890	L2581807	L2581807	L2581807	L2581807	L2581807	L2581807
Parameters	Unit	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	L2587890-5	L2587890-7	L2587890-9	L2581807-2	L2581807-7	L2581807-10	L2581807-12	L2581807-15	L2581807-18
			, , ,		,	13-May-2021	13-May-2021	13-May-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021
						0.8-1.1	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	1.5-2.1	0.8-1.4
Petroleum Hydrocarbons (PHCs)														
F1 (C6 to C10)	μg/g	5	25	NV	NV	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1 (C6 to C10) minus BTEX	μg/g	5	25	25	25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	μg/g	10 - 50	10	10	26	<10	<10	<10	<10	<10	22	<10	<10	<10
F3 (C16 to C34)	μg/g	50 - 250	240	300	1700	<50	<50	<50	<50	<50	89	<50	<50	<50
F4 (C34 to C50)	μg/g	50 - 250	120	2800	3300	126	<50	<50	<50	<50	<50	<50	<50	<50
Reached Baseline at C50	unitless		NR	NR	NR	NO	YES	YES	YES	YES	YES	YES	YES	YES
F4G (Gravimetric)	μg/g	250	120	2800	3300	670	-	-	-	-	-	-	-	-

Notes:

2020 Excess Soil Quality Standards (ESQS) - As identified in Appendix 1 of the Rules for Soil Management adopted by reference in O.Reg. 406/19 made under the Environmental Protection Act (December 8, 2020)

Bold

- Exceeds Table 1 ESQS (R/P/I or I/C/C)

Bola	- Exceeds Table T ESQS (R/P/I of I/
Bold	- Exceeds Table 3.1 ESQS (R/P/I)
Bold	- Exceeds Table 3.1 ESQS (I/C/C)
Bold	- Detection limit exceeds at least one
"-" - parameter not analyzed	•
RDL - Reported detection limit	
NR - Not Relevant	
NV- No Value	
NA - Not Applicable	
"<" - Less than the Reporting Detection Limit	t
, •	

- Detection limit exceeds at least one of Table 1 ESQS (R/P/I or I/C/C), Table 3.1 ESQS (R/P/I), Table 3.1 ESQS (I/C/

Geotechnical Investigation Brantford Streetscape Project

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						BH137-21	BH139-21	BH139-21	BH141-21	BH142-21	BH143.21	BH144-21	BH145-21	BH146-21	BH147-21	BH147-21	BH148-21
						BH 137-21 SS3 5-	BH 139-21 SS2	BH 139-21 SS4	BH 141-21 SS3 5-	BH 142-21 SS2	BH 143-21 SS2	BH144-21 SS2	BH145-21 SS2	BH146-21 SS2	BH147-21 SS2	BH147-21 SS4	BH148-21 SS2
						7 FT	2.5-4.5 FT	7.5-9.5 FT	7 FT	2.5-4.5 FT	2.5-4.5 FT	2.5-4.5FT	2.5-4.5FT	2.5-4.5FT	2.5-4.5FT	7.5-9.5FT	2.5-4.5 FT
						L2581807	L2581830	L2581830	L2581830	L2581830	L2581830	L2584522	L2584522	L2584522	L2584522	L2584522	L2583126
Parameters	Unit	RDL 1	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	L2581807-19	L2581830-2	L2581830-4	L2581830-12	L2581830-15	L2581830-19	L2584522-6	L2584522-10	L2584522-14	L2584522-2	L2584522-4	L2583126-2
			` ′	` ,	` ,	27-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021	04-May-2021	30-Apr-2021
						1.5-2.1	0.8-1.4	2.3-2.9	1.5-2.1	0.8-1.4	0.8-1.4	0.8-1.4	0.8-1.4	0.8-1.4	0.8-1.4	2.3-2.9	0.8-1.4
Petroleum Hydrocarbons (PHCs)			<u> </u>														
F1 (C6 to C10)	μg/g	5	25	NV	NV	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F1 (C6 to C10) minus BTEX	μg/g	5	25	25	25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
F2 (C10 to C16)	μg/g	10 - 50	10	10	26	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
F3 (C16 to C34)	μg/g	50 - 250	240	300	1700	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
F4 (C34 to C50)	μg/g	50 - 250	120	2800	3300	<50	<50	<50	<50	67	78	<50	<50	<50	<50	<50	<50
Reached Baseline at C50	unitless		NR	NR	NR	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES
F4G (Gravimetric)	μg/g	250	120	2800	3300	-	-	-	-	-	730	-	-	-	-	-	-

Notes:

2020 Excess Soil Quality Standards (ESQS) - As identified in Appendix 1 of the Rules for Soil Management adopted by reference in O.Reg. 406/19 made under the Environmental Protection Act (December 8, 2020)

Bold

- Exceeds Table 1 ESQS (R/P/I or I/C/C)

Bold	- Exceeds Table 1 ESQS (R/P/I or I/C/C)
Bold	- Exceeds Table 3.1 ESQS (R/P/I)
Bold	- Exceeds Table 3.1 ESQS (I/C/C)
Bold	- Detection limit exceeds at least one of Table 1 ESQS (R/P/I or I/C/C), Table 3.1 ESQS (R/P/I), Table 3.1 ESQS (I/C/

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Geotechnical Investigation Brantford Streetscape Project

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						Sample Location	BH101-21	BH102-21	BH103-21	BH103-21	BH104-21	BH105-21	BH106-21	BH107-21	BH107-21	BH108-21
							BH101-21 SS4	BH102-21 SS2	BH103-21 SS2	BH103-21 SS3 5-	BH104-21 SS2	BH105-21 SS4	BH106-21 SS2	BH107-21 SS2	BH107-21 SS4	BH108-21 SS4
						Sample Name	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5FT	7.5-9.5FT	7.5-9.5FT
						Lab Job #	L2585298	L2585298	L2585298	L2585298	L2585298	L2585298	L2585298	L2584509	L2584509	L2584509
						Laboratory ID										
Parameters	Unit	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)		L2585298-25	L2585298-19	L2585298-14	L2585298-15	L2585298-10	L2585298-8	L2585298-2	L2584509-18	L2584509-20	L2584509-16
						Sampling Date	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	06-May-2021	05-May-2021	05-May-2021	05-May-2021
						Sample Depth (m bgs)	2.3-2.9	0.8-1.4	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	0.8-1.4	2.3-2.9	2.3-2.9
						Maximum										
						Concentration										
Volatile Organic Compounds (VOCs)	1															
Acetone	μg/g	0.5	0.5	1.8	1.8	< 0.5	-	-	-	-	-	<0.50	-	-	-	<0.50
Benzene	µg/g	0.0068		0.02	0.034	0.0259	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	μg/g	0.05		5.8	5.8	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050
Bromoform	μg/g	0.05		2.5	2.5	< 0.05		_	_	_	_	<0.050	-	_	_	<0.050
Bromomethane	μg/g	0.05		0.05	0.05	< 0.05	_	_	-	-	_	<0.050	-	-	-	<0.050
Carbon Tetrachloride	μg/g μg/g	0.05		0.05	0.05	< 0.05	_		-	-		<0.050	-	-	-	<0.050
Chlorobenzene	μg/g μg/g	0.05		0.03	0.28	< 0.05		-	-			<0.050		-	-	<0.050
Chloroform		0.05		0.28	0.26	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050
	μg/g	0.05		5.5	5.5	< 0.05		-	-	-			-	-		_
Dibromochloromethane	μg/g	_					-				-	<0.050			-	<0.050
1,2-Dichlorobenzene	µg/g	0.05		3.4 4.8	6.8	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050
1,3-Dichlorobenzene	μg/g	0.05		_	6.8	< 0.05		-	-	-	-	<0.050		-	-	<0.050
1,4-Dichlorobenzene	μg/g	0.05		0.05	0.05	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050
Dichlorodifluoromethane	μg/g	0.05		1.8	1.8	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050
1,1-Dichloroethane	μg/g	0.05		0.14	0.57	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050
1,2-Dichloroethane	μg/g	0.05		0.05	0.05	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050
1,1-Dichloroethylene	μg/g	0.05		0.05	0.05	< 0.05	-	-	-	-		< 0.050	-	-	-	< 0.050
Ethylbenzene	μg/g	0.018		1.9	1.9	< 0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
cis-1,2-Dichloroethylene	μg/g	0.05		0.05	0.05	< 0.05		-	-	-	-	<0.050	-	-	-	< 0.050
trans-1,2-Dichloroethylene	μg/g	0.05		0.05	0.05	< 0.05	-	-	-	-	-	< 0.050	-	-	-	< 0.050
1,2-Dichloropropane	μg/g	0.05		0.05	0.05	< 0.05	-	-	-	-	-	< 0.050	-	-	-	< 0.050
cis-1,3-Dichloropropene	μg/g	0.03		NV	NV	< 0.03	-	-	-	-	-	<0.030	-	-	-	< 0.030
trans-1,3-Dichloropropene	μg/g	0.03		NV	NV	< 0.03	-	-	-	-	-	< 0.030	-	-	-	< 0.030
1,3-Dichloropropene	μg/g	0.042	0.05	0.05	0.05	< 0.042	-	-	-	-	-	< 0.042	-	-	-	< 0.042
Ethylene Dibromide	μg/g	0.05	0.05	0.05	0.05	< 0.05		-	-	-	-	< 0.050	-	-	-	< 0.050
Hexane (n)	μg/g	0.05	0.05	2.5	2.5	0.052	•	=	-	=	=	< 0.050	=	-	=	< 0.050
Methyl Ethyl Ketone	μg/g	0.5	0.5	14	26	< 0.5	-	-	-	-	-	< 0.50	-	-	-	< 0.50
Methyl Isobutyl Ketone	μg/g	0.5	0.5	0.89	17	< 0.5	-	-	-	-	-	< 0.50	-	-	-	<0.50
Methyl Tert-Butyl Ether	μg/g	0.05	0.05	0.05	0.05	< 0.05		-	-	-	-	< 0.050	-	-	-	< 0.050
Methylene Chloride	μg/g	0.05	0.05	0.06	0.2	< 0.05	1	-	-	-	-	< 0.050	-	-	-	< 0.050
Styrene	μg/g	0.05	0.05	0.5	6.8	< 0.05	•	-	-	-	-	< 0.050	-	-	-	< 0.050
1,1,1,2-Tetrachloroethane	μg/g	0.05	0.05	0.05	0.05	< 0.05	=	-	-	-	-	< 0.050	-	-	-	< 0.050
1,1,2,2-Tetrachloroethane	μg/g	0.05	0.05	0.05	0.05	< 0.05	-	-	-	-	-	< 0.050	-	-	-	< 0.050
Tetrachloroethylene	μg/g	0.05	0.05	0.05	0.05	< 0.05		-	-	-	-	< 0.050	-	-	-	< 0.050
Toluene	µg/g	0.08		0.99	7.8	< 0.08	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	μg/g	0.05		0.11	0.4	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050
1,1,2-Trichloroethane	μg/g	0.05	0.05	0.05	0.05	< 0.05	-	-	-	-	-	<0.050	-	-	-	<0.050
Trichloroethylene	µg/g	0.01	0.05	0.05	0.05	< 0.01	-	-	-	-	-	<0.010	-	-	-	<0.010
Trichlorofluoromethane	μg/g	0.05		0.46	0.46	< 0.05	-	_	-	_	_	<0.050	_	-	_	<0.050
Vinvl Chloride	μg/g	0.02		0.02	0.02	< 0.02	-	_	-	_	_	<0.020	-	-	_	<0.020
o-Xvlene	µg/g	0.02		NV	NV	< 0.02	<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	l .	NV NV	NV	< 0.02	<0.030	<0.030	<0.020	<0.030	<0.030	<0.030	<0.030	<0.020	<0.030	<0.030
Xvlene Mixture	μg/g μg/g	0.05		0.9	3	< 0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Aylene wikture	μg/g	0.05	0.00	0.9	<u> </u>	V.05	<0.000	<0.000	<0.000	<0.000	<0.000	<0.000	<0.050	<0.000	<0.000	<0.000

Bold
Bold
Bold

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

Geotechnical Investigation Brantford Streetscape Project MTE File No.: 46995-100 Page 1 of 6 April 2022

						BH109-21	BH110-21	BH111-21	BH111-21	BH112-21	BH114-21	BH114-21	BH115-21	BH116-21	BH117-21	BH118-21
						BH109-21 SS2	BH110-21 SS3 5-	BH111-21 SS2	BH111-21 SS3 5-	BH112-21 SS2	BH114-21 SS2	BH114-21 SS3 5-	BH115-21 SS2	BH116-21 SS4	BH117-21 SS2	BH118-21 SS2
						2.5-4.5FT	7FT	2.5-45FT	7FT	2.5-4.5FT	2.5-4.0 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5 FT
						L2584509	L2584509	L2584509	L2584509	L2584522	L2583155	L2583155	L2583155	L2583155	L2583126	L2583126
Parameters	Unit	RDI	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	L2584509-10	L2584509-7	L2584509-2	L2584509-3	L2584522-18	L2583155-12	L2583155-13	L2583155-7	L2583155-5	L2583126-22	L2583126-18
T dramotors	0		14516 1 2040 (10171 01 11070)	14510 011 2040 (1417)	145.0 0.1 2040 (80,0)	05-May-2021	05-May-2021	05-May-2021	05-May-2021	04-May-2021	03-May-2021	03-May-2021	03-May-2021	03-May-2021	30-Apr-2021	30-Apr-2021
						0.8-1.4	1.5-2.1	0.8-1.4	1.5-2.1	0.8-1.4	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	0.8-1.4
						0.0 1.4	1.0 2.1	0.0 1.4	1.0 2.1	0.0 1.4	0.0 1.4	1.0 2.1	0.0 1.4	2.0 2.0	0.0 1.4	0.0 1.4
Volatile Organic Compounds (VOCs)	<u> </u>	1														
Acetone	μg/g	0.5	0.5	1.8	1.8		-		-	-		-		-	-	-
Benzene	μg/g	0.0068	0.02	0.02	0.034	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	μg/g	0.05	0.05	5.8	5.8	-	-	-	-	-	-	-	-	-	-	-
Bromoform	μg/g	0.05	0.05	2.5	2.5	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	μg/g	0.05	0.05	0.28	0.28	-	-	-	-	-	-	-	-	-	-	-
Chloroform	μg/g	0.05	0.05	0.08	0.26	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	μg/g	0.05	0.05	5.5	5.5	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	μg/g	0.05	0.05	3.4	6.8	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	μg/g	0.05	0.05	4.8	6.8	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	μg/g	0.05	0.05	0.05	0.05	-	-	-	=	-	-	-	•	-	-	-
Dichlorodifluoromethane	μg/g	0.05	0.05	1.8	1.8	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	μg/g	0.05	0.05	0.14	0.57	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	μg/g	0.018	0.05	1.9	1.9	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
cis-1,2-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	μg/g	0.03	NR	NV	NV	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	μg/g	0.03	NR	NV	NV	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	μg/g	0.042	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Hexane (n)	μg/g	0.05	0.05	2.5	2.5	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone	μg/g	0.5	0.5	14	26	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone	μg/g	0.5	0.5	0.89	17	-	-	-	-	-	-	-	•	-	-	-
Methyl Tert-Butyl Ether	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	μg/g	0.05	0.05	0.06	0.2	-	-	-	-	-	-	-		-	-	-
Styrene	μg/g	0.05	0.05	0.5	6.8	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-		-	-	-
1,1,2,2-Tetrachloroethane	μg/g	0.05	0.05	0.05	0.05	-	-	ē	-	-	-	-		-	-	-
Tetrachloroethylene	μg/g	0.05	0.05	0.05	0.05	-	-	ē	-	-	-	-		-	-	-
Toluene	μg/g	0.08	0.2	0.99	7.8	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	μg/g	0.05	0.05	0.11	0.4	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	=	-	-	-
Trichloroethylene	μg/g	0.01	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	µg/g	0.05	0.25	0.46	0.46	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	μg/g	0.02	0.02	0.02	0.02	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	μg/g	0.02	NR	NV	NV	<0.020	<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	0.03	NR	NV	NV	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Xylene Mixture	µg/g	0.05	0.05	0.9	3	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
	۳ <i>9</i> ′ 9	0.00	0.00	0.0	•	10.000	10.000	10.000	10.000	10.000	-0.000	10.000	10.000	10.000	10.000	10.000

Bold	
Bold	
Bold	

"-" - parameter not analyzed RDL - Reported detection limit

NR - Not Relevant NV- No Value

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

Geotechnical Investigation Brantford Streetscape Project MTE File No.: 46995-100 Page 2 of 6 April 2022

						BH118-21	BH119-21	BH121-21	BH122-21	BH122-21	BH123-21	BH124-21	BH125-21	BH126-21	BH127-21	BH128-21
						BH118-21 SS3 5-	BH119-21 SS4	BH121-21 SS2	BH122-21 SS2	BH122-21 SS4	BH123-21 GS1B	BH124-21 SS3 5-	BH125-21 SS3 5-	BH126-21 SS2	BH127-21 SS3 5-	BH128-21 SS2
						7 FT	7.5-9.5 FT	2.5-4.5 FT	2.5-4.5FT	7.5-9.5FT	18"-2.5FT	7FT	7FT	2.5-4.5FT	7FT	2.5-4.5FT
						L2583126	L2583126	L2583126	L2586911	L2586911	L2586911	L2586898	L2586911	L2586911	L2586898	L2586898
Parameters	Unit	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	L2583126-19	L2583126-16	L2583126-6	L2586911-2	L2586911-4	L2586911-12	L2586898-3	L2586911-20	L2586911-7	L2586898-8	L2586898-13
			`	` ,	` ,	30-Apr-2021	30-Apr-2021	30-Apr-2021	11-May-2021	11-May-2021	11-May-2021	12-May-2021	11-May-2021	11-May-2021	12-May-2021	12-May-2021
						1.5-2.1	2.3-2.9	0.8-1.4	0.8-1.4	2.3-2.9	0.5-0.8	1.5-2.1	1.5-2.1	0.8-1.4	1.5-2.1	0.8-1.4
																i l
																i l
Volatile Organic Compounds (VOCs)		<u> </u>														
Acetone	μg/g	0.5	0.5	1.8	1.8	-	< 0.50	-	-	-	-	-	< 0.50	-	-	-
Benzene	μg/g	0.0068	0.02	0.02	0.034	<0.0068	<0.0068	< 0.0068	< 0.0068	< 0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	μg/g	0.05	0.05	5.8	5.8	-	< 0.050	-	-	-	-	-	< 0.050	-	-	-
Bromoform	μg/g	0.05	0.05	2.5	2.5	-	< 0.050	-	-	-	-	-	< 0.050	-	-	-
Bromomethane	μg/g	0.05	0.05	0.05	0.05	-	< 0.050	-	-	-	-	-	< 0.050	-	-	-
Carbon Tetrachloride	μg/g	0.05	0.05	0.05	0.05	-	<0.050	-	-	-	-	-	< 0.050	-	-	-
Chlorobenzene	μg/g	0.05	0.05	0.28	0.28	-	<0.050	-	-	-	-	-	< 0.050	-	-	-
Chloroform	μg/g	0.05	0.05	0.08	0.26	-	<0.050	-	-	-	-	-	< 0.050	-	-	-
Dibromochloromethane	μg/g	0.05	0.05	5.5	5.5	-	<0.050	-	-	-	-	-	< 0.050	-	-	-
1,2-Dichlorobenzene	μg/g	0.05	0.05	3.4	6.8	-	<0.050	-	-	-	-	-	< 0.050	-	-	-
1,3-Dichlorobenzene	μg/g	0.05	0.05	4.8	6.8	-	<0.050	-	-	-	-	-	<0.050	-	-	-
1,4-Dichlorobenzene	μg/g	0.05	0.05	0.05	0.05	-	<0.050	-	-	-	-	-	< 0.050	-	-	-
Dichlorodifluoromethane	μg/g	0.05	0.05	1.8	1.8	-	<0.050	-	-	-	-	-	<0.050	-	-	-
1,1-Dichloroethane	μg/g	0.05	0.05	0.14	0.57	-	<0.050	-	-	-	-	-	< 0.050	-	-	-
1,2-Dichloroethane	μg/g	0.05	0.05	0.05	0.05	-	<0.050	-	-	-	-	-	< 0.050	-	-	-
1,1-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	-	<0.050	-	-	-	-	-	<0.050	-	-	-
Ethylbenzene	μg/g	0.018	0.05	1.9	1.9	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
cis-1,2-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	-	<0.050	-	-	-	-	-	<0.050	-	-	-
trans-1,2-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	-	<0.050	-	-	-	-	-	< 0.050	-	-	-
1,2-Dichloropropane	μg/g	0.05	0.05	0.05	0.05	-	<0.050	-	-	-	-	-	< 0.050	-	-	-
cis-1,3-Dichloropropene	μg/g	0.03	NR	NV	NV	-	<0.030	-	-	-	-	-	<0.030	-	-	-
trans-1,3-Dichloropropene	μg/g	0.03	NR	NV	NV 0.05	-	<0.030	-	-	-	-	-	<0.030	-	-	-
1,3-Dichloropropene	μg/g	0.042	0.05	0.05	0.05	-	<0.042	-	-	-	-	-	<0.042	-	-	-
Ethylene Dibromide	μg/g	0.05	0.05	0.05	0.05	-	<0.050	-	-	-	-	-	<0.050	-	-	-
Hexane (n)	μg/g	0.05	0.05	2.5	2.5	-	<0.050	-	-	-	-	-	<0.050	-	-	-
Methyl Ethyl Ketone	μg/g	0.5	0.5	14	26	-	<0.50	-	-	-	-	-	<0.50	-	-	-
Methyl Isobutyl Ketone	μg/g	0.5	0.5	0.89	17	-	<0.50	-	-	-	-	-	<0.50	-	-	-
Methylana Chlorida	μg/g	0.05	0.05	0.05 0.06	0.05 0.2	-	<0.050 <0.050	-	-	-	-	-	<0.050	-	-	-
Methylene Chloride	μg/g	0.05	0.05			-		-	-	-	-	-	<0.050	-	-	-
Styrene	μg/g	0.05	0.05 0.05	0.5 0.05	6.8 0.05	-	<0.050 <0.050	-	-	-	-	-	<0.050 <0.050	-	-	-
1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane	µg/g µg/q	0.05	0.05	0.05	0.05	-	<0.050	-	-	-			<0.050		-	
Tetrachloroethylene	μg/g μg/g	0.05	0.05	0.05	0.05	-	<0.050		-	-	-	-	<0.050	-	-	-
Toluene		0.03	0.03	0.99	7.8	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080
1.1.1-Trichloroethane	µg/g µg/a	0.05	0.05	0.99	0.4	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080 -	<0.000	<0.080
1.1.2-Trichloroethane	μg/g μg/q	0.05	0.05	0.11	0.05	-	<0.050	-	-	-	-	-	<0.050	<u> </u>	-	-
Trichloroethylene	μg/g μα/α	0.05	0.05	0.05	0.05	-	<0.050	-	-	-	-	-	<0.050		<u>-</u>	-
Trichlorofluoromethane	μg/g μg/q	0.01	0.05	0.46	0.05		<0.010	-	-		-	-	<0.010		-	-
Vinvl Chloride	μg/g μg/g	0.03	0.25	0.46	0.46	-	<0.050	-	-		-	-	<0.030		<u>-</u>	-
o-Xvlene	μg/g μg/g	0.02	NR	0.02 NV	NV	<0.020	<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 μg/g	0.02	NR NR	NV NV	NV NV	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Xylene Mixture	μg/g μg/g	0.05	0.05	0.9	3	<0.030	<0.050	<0.050	<0.050	<0.030	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ayrene mixture	μg/g	0.05	0.05	0.9	J	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.000	<0.050	<0.050	<0.050

"-" - parameter not analyzed RDL - Reported detection limit

NR - Not Relevant NV- No Value

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

Geotechnical Investigation Brantford Streetscape Project MTE File No.: 46995-100 Page 3 of 6 April 2022

						BH128-21	BH130-21	BH131-21	BH132-21	BH132-21	BH133-21	BH134-21	BH135-21	BH135-21	BH136-21	BH137-21
						BH128-21 SS3 5-	BH130-21 SS2	BH131-21 SS2	BH132-21 SS2	BH132-21 SS4	BH 133-21 SS2	BH 134-21 SS3 5-	BH 135-21 SS2	BH 135-21 SS4	BH 136-21 SS3 5-	BH 137-21 SS2
						7FT	2.5-3.5FT	2.5-3.5FT	2.5-4.5FT	7.5-9.5FT	2.5-4.5 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	7 FT	2.5-4.5 FT
						L2586898	L2587890	L2587890	L2587890	L2587890	L2581807	L2581807	L2581807	L2581807	L2581807	L2581807
Parameters	Unit	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	L2586898-14	L2587890-3	L2587890-5	L2587890-7	L2587890-9	L2581807-2	L2581807-7	L2581807-10	L2581807-12	L2581807-15	L2581807-18
			,			12-May-2021	13-May-2021	13-May-2021	13-May-2021	13-May-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021	27-Apr-2021
						1.5-2.1	0.8-1.1	0.8-1.1	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4	2.3-2.9	1.5-2.1	0.8-1.4
Volatile Organic Compounds (VOCs)																
Acetone	µg/g	0.5	0.5	1.8	1.8	-	-	-	-	<0.50	-	-	-	-	-	-
Benzene	µg/g	0.0068	0.02	0.02	0.034	<0.0068	<0.0068	0.0237	<0.0068	<0.0068	0.0069	<0.0068	0.0259	<0.0068	0.01	<0.0068
Bromodichloromethane	µg/g	0.05	0.05	5.8	5.8	-	-	-	-	< 0.050	-	-	-	-	-	-
Bromoform	μg/g	0.05	0.05	2.5	2.5	-			-	< 0.050	-	-	-	-	-	-
Bromomethane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	< 0.050	-	-	-	-	-	-
Carbon Tetrachloride	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	< 0.050	-	-	-	-	-	-
Chlorobenzene	μg/g	0.05	0.05	0.28	0.28	-	-	-	-	< 0.050	-	-	-	-	-	-
Chloroform	μg/g	0.05	0.05	0.08	0.26	-	-	•	-	< 0.050	-	-	-	-	-	-
Dibromochloromethane	μg/g	0.05	0.05	5.5	5.5	-	•	•	-	< 0.050	-	-	-	-	-	-
1,2-Dichlorobenzene	μg/g	0.05	0.05	3.4	6.8	-	-	•	-	< 0.050	-	-		-	-	-
1,3-Dichlorobenzene	μg/g	0.05	0.05	4.8	6.8	-	-	-	-	<0.050	-	-	-	-	-	-
1,4-Dichlorobenzene	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	<0.050	-	-	-	-	-	-
Dichlorodifluoromethane	μg/g	0.05	0.05	1.8	1.8	-	-	-	-	<0.050	-	-	-	-	-	-
1,1-Dichloroethane	μg/g	0.05	0.05	0.14	0.57	-	-	-	-	< 0.050	-	-	-	-	-	-
1,2-Dichloroethane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	< 0.050	-	-	-	-	-	-
1,1-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	< 0.050	-	-	-	-	-	-
Ethylbenzene	μg/g	0.018	0.05	1.9	1.9	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
cis-1,2-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	<0.050	-	-	-	-	-	-
trans-1,2-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	<0.050	-	-	-	-	-	-
1,2-Dichloropropane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	<0.050	-	-	-	-	-	-
cis-1,3-Dichloropropene	μg/g	0.03	NR NR	NV	NV	-	-	-	-	<0.030	-	-	-	-	-	-
trans-1,3-Dichloropropene	μg/g	0.03	0.05	NV 0.05	NV 0.05	-	-	=	-	<0.030 <0.042	-	-	-	=	-	-
1,3-Dichloropropene Ethylene Dibromide	µg/g µg/q	0.042	0.05	0.05	0.05	-	-	-	-	<0.042	-	-	-	-	-	-
Hexane (n)	μg/g μg/g	0.05	0.05	2.5	2.5	-		-	-	<0.050	-		-		-	-
Methyl Ethyl Ketone	µg/g	0.05	0.5	14	26	-	-	-	-	<0.50	-	-	-		-	-
Methyl Isobutyl Ketone	µg/g µg/q	0.5	0.5	0.89	17				_	<0.50	-	_	-			-
Methyl Tert-Butyl Ether	μg/g	0.05	0.05	0.05	0.05	-	_	-	_	<0.050	_	_	-	-	_	-
Methylene Chloride	μg/g	0.05	0.05	0.06	0.2	-	-	-	-	<0.050	-	-	-	_	-	-
Styrene	µg/g	0.05	0.05	0.5	6.8	-	-	-	-	<0.050	-	-	-	-	_	_
1,1,1,2-Tetrachloroethane	μg/g	0.05	0.05	0.05	0.05	-	-	=	-	< 0.050	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	< 0.050	-	-	-	-	-	-
Tetrachloroethylene	μg/g	0.05	0.05	0.05	0.05	-	-		-	< 0.050	-	-	-	-	-	-
Toluene	μg/g	0.08	0.2	0.99	7.8	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	<0.080	< 0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	μg/g	0.05	0.05	0.11	0.4	-	-	-	-	< 0.050	-	-	-	-	-	-
1,1,2-Trichloroethane	μg/g	0.05	0.05	0.05	0.05	-	-	•	-	< 0.050	-	-	-	-	-	-
Trichloroethylene	μg/g	0.01	0.05	0.05	0.05	=	-		-	<0.010	-	-	-	ē	-	-
Trichlorofluoromethane	μg/g	0.05	0.25	0.46	0.46	-	-	-	-	< 0.050	-	-	-	-	-	-
Vinyl Chloride	μg/g	0.02	0.02	0.02	0.02	=	-		-	<0.020	-	-	-	ē	-	-
o-Xylene	μg/g	0.02	NR	NV	NV	<0.020	<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	0.03	NR	NV	NV	< 0.030	<0.030	< 0.030	<0.030	<0.030	< 0.030	< 0.030	< 0.030	< 0.030	<0.030	< 0.030
Xylene Mixture	μg/g	0.05	0.05	0.9	3	< 0.050	< 0.050	< 0.050	<0.050	< 0.050	< 0.050	< 0.050	<0.050	<0.050	< 0.050	< 0.050

Bold
Bold
Bold

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

Geotechnical Investigation Brantford Streetscape Project Page 4 of 6

						BH137-21	BH138-21	BH139-21	BH139-21	BH140-21	BH141-21	BH142-21	BH142-21	BH143-21	BH143-21	BH144-21
						BH 137-21 SS3 5-	BH 138-21 SS4	BH 139-21 SS2	BH 139-21 SS4	BH 140-21 SS4	BH 141-21 SS3 5-	BH 142-21 SS2	BH 142-21 SS4	BH 143-21 SS2	BH 143-21 SS3 5-	BH144-21 SS2
						7 FT	7.5-9.5 FT	2.5-4.5 FT	7.5-9.5 FT	7.5-9.5 FT	7 FT	2.5-4.5 FT	7.5-9.5 FT	2.5-4.5 FT	7 FT	2.5-4.5FT
						L2581807	L2581807	L2581830	L2581830	L2581830	L2581830	L2581830	L2581830	L2581830	L2581830	L2584522
Parameters	Unit	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	L2581807-19	L2581807-24	L2581830-2	L2581830-4	L2581830-8	L2581830-12	L2581830-15	L2581830-17	L2581830-19	L2581830-20	L2584522-6
i aramotoro	0		1 1 2 2 2 (1 2 7 2 1 2 7 2 7 2 7 2 7 2 7 2 7 2 7 2	145.5 511 25 25 (1417)	1 2 2 2 (2 2, 2)	27-Apr-2021	27-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	28-Apr-2021	04-May-2021
						1.5-2.1	2.3-2.9	0.8-1.4	2.3-2.9	2.3-2.9	1.5-2.1	0.8-1.4	2.3-2.9	0.8-1.4	1.5-2.1	0.8-1.4
Volatile Organic Compounds (VOCs)	_	_														
Acetone	µg/g	0.5	0.5	1.8	1.8	<0.50	<0.50	-	-	< 0.50	-	-	<0.50	-	<0.50	-
Benzene	µg/g	0.0068	0.02	0.02	0.034	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	hd/d	0.05	0.05	5.8	5.8	< 0.050	<0.050	-	-	<0.050	-	-	<0.050	-	< 0.050	-
Bromoform	μg/g	0.05	0.05	2.5	2.5	<0.050	<0.050	-	-	<0.050	-	-	<0.050	-	<0.050	-
Bromomethane	hd/d	0.05	0.05	0.05	0.05	< 0.050	<0.050	-	-	<0.050	-	-	<0.050	-	<0.050	-
Carbon Tetrachloride	hd/d	0.05	0.05	0.05	0.05	< 0.050	< 0.050		-	< 0.050	-	-	< 0.050	-	< 0.050	-
Chlorobenzene	µg/g	0.05	0.05	0.28	0.28	< 0.050	< 0.050		-	< 0.050	-	-	< 0.050	-	< 0.050	-
Chloroform	hd/d	0.05	0.05	0.08	0.26	< 0.050	< 0.050		-	< 0.050	-	-	< 0.050	-	< 0.050	-
Dibromochloromethane	μg/g	0.05	0.05	5.5	5.5	< 0.050	< 0.050		-	< 0.050	-	-	< 0.050	-	< 0.050	-
1,2-Dichlorobenzene	μg/g	0.05	0.05	3.4	6.8	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-
1,3-Dichlorobenzene	μg/g	0.05	0.05	4.8	6.8	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-
1,4-Dichlorobenzene	μg/g	0.05	0.05	0.05	0.05	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-
Dichlorodifluoromethane	μg/g	0.05	0.05	1.8	1.8	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-
1,1-Dichloroethane	μg/g	0.05	0.05	0.14	0.57	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-
1,2-Dichloroethane	μg/g	0.05	0.05	0.05	0.05	< 0.050	< 0.050	•	-	< 0.050	-	-	< 0.050	-	< 0.050	-
1,1-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	< 0.050	< 0.050	•	-	< 0.050	-	-	< 0.050	-	< 0.050	-
Ethylbenzene	μg/g	0.018	0.05	1.9	1.9	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
cis-1,2-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-
trans-1,2-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-
1,2-Dichloropropane	μg/g	0.05	0.05	0.05	0.05	< 0.050	< 0.050	-	-	< 0.050	-	-	< 0.050	-	< 0.050	-
cis-1,3-Dichloropropene	μg/g	0.03	NR	NV	NV	< 0.030	< 0.030	-	-	< 0.030	-	-	< 0.030	-	< 0.030	-
trans-1,3-Dichloropropene	μg/g	0.03	NR	NV	NV	< 0.030	< 0.030	-	-	<0.030	-	-	<0.030	-	< 0.030	-
1,3-Dichloropropene	μg/g	0.042	0.05	0.05	0.05	<0.042	<0.042		-	<0.042	-	-	<0.042	-	<0.042	-
Ethylene Dibromide	μg/g	0.05	0.05	0.05	0.05	<0.050	<0.050		-	< 0.050	-	-	<0.050	-	<0.050	-
Hexane (n)	μg/g	0.05	0.05	2.5	2.5	0.052	<0.050	-	-	< 0.050	-	-	<0.050	-	< 0.050	-
Methyl Ethyl Ketone	μg/g	0.5	0.5	14	26	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	<0.50	-
Methyl Isobutyl Ketone	μg/g	0.5	0.5	0.89	17	<0.50	<0.50	-	-	<0.50	-	-	<0.50	-	<0.50	-
Methyl Tert-Butyl Ether	μg/g	0.05	0.05	0.05	0.05	<0.050	<0.050	-	-	<0.050	-	-	<0.050	-	<0.050	-
Methylene Chloride	μg/g	0.05	0.05	0.06	0.2	<0.050	<0.050	-	-	<0.050	-	-	<0.050	-	<0.050	-
Styrene	μg/g	0.05	0.05	0.5	6.8	<0.050	<0.050	-	-	<0.050	-	-	<0.050	-	<0.050	-
1,1,1,2-Tetrachloroethane	μg/g	0.05	0.05	0.05	0.05	<0.050	<0.050	=	-	<0.050	-	-	<0.050	=	<0.050	-
1,1,2,2-Tetrachloroethane	μg/g	0.05	0.05 0.05	0.05 0.05	0.05 0.05	<0.050 <0.050	<0.050 <0.050	-	-	<0.050 <0.050	-	-	<0.050 <0.050	-	<0.050 <0.050	-
Tetrachloroethylene	μg/g	0.05	0.05	0.05	7.8											
Toluene	μg/g	0.08	0.2	0.99	0.4	<0.080 <0.050	<0.080 <0.050	<0.080	<0.080	<0.080 <0.050	<0.080	<0.080	<0.080 <0.050	<0.080	<0.080 <0.050	<0.080
1,1,1-Trichloroethane 1,1,2-Trichloroethane	μg/g	0.05	0.05	0.11	0.4	<0.050	<0.050 <0.050	-	-	<0.050 <0.050	-	-	<0.050 <0.050	-	<0.050 <0.050	-
	μg/g	0.05	0.05	0.05	0.05	<0.050	<0.050		-	<0.050	+		<0.050		<0.050	-
Trichloroethylene Trichlorofluoromethane	μg/g μg/q	0.01	0.05	0.05	0.05	<0.010	<0.010	-	-	<0.010	-	-	<0.010	-	<0.010	-
Vinyl Chloride	μg/g μg/q	0.05	0.25	0.46	0.46	<0.050	<0.050	-	-	<0.050	-	-	<0.050	-	<0.050	-
o-Xvlene	μg/g μα/α	0.02	NR	0.02 NV	0.02 NV	<0.020	<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 μg/q	0.02	NR NR	NV NV	NV NV	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Xylene Mixture	μg/g μα/α	0.05	0.05	0.9	3	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030
Aylene Mixture	μg/g	0.00	0.05	0.9	ر ا	<0.000	<0.00U	VCU.U2	<0.000	<0.050	VCU.U2	VCU.U2U	VCU.U2U	<0.000	<0.050	VCU.U2

"-" - parameter not analyzed RDL - Reported detection limit

NR - Not Relevant NV- No Value

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

Geotechnical Investigation Brantford Streetscape Project MTE File No.: 46995-100 Page 5 of 6

Parameters	Unit	RDL	Table 1 ESQS (R/P/I or I/C/C)	Table 3.1 ESQS (R/P/I)	Table 3.1 ESQS (I/C/C)	BH145-21 BH145-21 SS2 2.5-4.5FT L2584522 L2584522-10 04-May-2021 0.8-1.4	BH146-21 BH146-21 SS2 2.5-4.5FT L2584522 L2584522-14 04-May-2021 0.8-1.4	BH147-21 BH147-21 SS2 2.5-4.5FT L2584522 L2584522-2 04-May-2021 0.8-1.4	BH147-21 BH147-21 SS4 7.5-9.5FT L2584522 L2584522-4 04-May-2021 2.3-2.9	BH148-21 BH148-21 SS2 2.5-4.5 FT L2583126 L2583126-2 30-Apr-2021 0.8-1.4
Volatile Organic Compounds (VOCs)	,	1 0 =			1					
Acetone	μg/g	0.5	0.5	1.8	1.8	-	-	-	-	-
Benzene	μg/g	0.0068	0.02	0.02	0.034	<0.0068	<0.0068	<0.0068	<0.0068	<0.0068
Bromodichloromethane	μg/g	0.05	0.05	5.8	5.8	-	-	-	-	-
Bromoform	μg/g	0.05	0.05	2.5	2.5	-	-	-	-	-
Bromomethane	μg/g	0.05	0.05	0.05	0.05	-	-	-	•	-
Carbon Tetrachloride	μg/g	0.05	0.05	0.05	0.05	-	-	-	i	-
Chlorobenzene	μg/g	0.05	0.05	0.28	0.28	-	-	-	-	-
Chloroform	μg/g	0.05	0.05	0.08	0.26	-	-	-	-	-
Dibromochloromethane	μg/g	0.05	0.05	5.5	5.5	-	-	-	-	-
1,2-Dichlorobenzene	μg/g	0.05	0.05	3.4	6.8	-	-	-	-	-
1,3-Dichlorobenzene	μg/g	0.05	0.05	4.8	6.8	-	-	-	-	-
1,4-Dichlorobenzene	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-
Dichlorodifluoromethane	μg/g	0.05	0.05	1.8	1.8	-	-	-	-	-
1,1-Dichloroethane	μg/g	0.05	0.05	0.14	0.57	-	-	-	-	-
1,2-Dichloroethane	μg/g	0.05	0.05	0.05	0.05	-			ū	-
1,1-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	-	i	•	i	-
Ethylbenzene	μg/g	0.018	0.05	1.9	1.9	<0.018	<0.018	<0.018	< 0.018	<0.018
cis-1,2-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-
trans-1,2-Dichloroethylene	μg/g	0.05	0.05	0.05	0.05	-			ū	-
1,2-Dichloropropane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-
cis-1,3-Dichloropropene	μg/g	0.03	NR	NV	NV	-	-	-	-	-
trans-1,3-Dichloropropene	μg/g	0.03	NR	NV	NV	-	-	-	-	-
1,3-Dichloropropene	μg/g	0.042	0.05	0.05	0.05	-	-	-	-	-
Ethylene Dibromide	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-
Hexane (n)	μg/g	0.05	0.05	2.5	2.5	-	-	-	-	-
Methyl Ethyl Ketone	μg/g	0.5	0.5	14	26	-	-	-	-	-
Methyl Isobutyl Ketone	μg/g	0.5	0.5	0.89	17	-	-	-	-	-
Methyl Tert-Butyl Ether	μg/g	0.05	0.05	0.05	0.05	-	-	-	٠	-
Methylene Chloride	μg/g	0.05	0.05	0.06	0.2	-	-	-	=	-
Styrene	μg/g	0.05	0.05	0.5	6.8	-	-	-	٠	-
1,1,1,2-Tetrachloroethane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-
1,1,2,2-Tetrachloroethane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-
Tetrachloroethylene	μg/g	0.05	0.05	0.05	0.05	-	-	-	i	-
Toluene	μg/g	0.08	0.2	0.99	7.8	<0.080	<0.080	<0.080	<0.080	<0.080
1,1,1-Trichloroethane	μg/g	0.05	0.05	0.11	0.4	-	-	-	-	-
1,1,2-Trichloroethane	μg/g	0.05	0.05	0.05	0.05	-	-	-	-	-
Trichloroethylene	μg/g	0.01	0.05	0.05	0.05	-	-	-	-	-
Trichlorofluoromethane	µg/g	0.05	0.25	0.46	0.46	-	-	-	-	-
Vinyl Chloride	μg/g	0.02	0.02	0.02	0.02	-	-	-	-	-
o-Xylene	μg/g	0.02	NR	NV	NV	<0.020	<0.020	<0.020	<0.020	<0.020
m+p-Xylene	μg/g	0.03	NR	NV	NV	<0.030	<0.030	<0.030	<0.030	<0.030
Xylene Mixture	µg/g	0.05	0.05	0.9	3	<0.050	<0.050	<0.050	<0.050	<0.050

"-" - parameter not analyzed RDL - Reported detection limit

NR - Not Relevant NV- No Value

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

Geotechnical Investigation Brantford Streetscape Project MTE File No.: 46995-100 Page 6 of 6 April 2022

Appendix F

Laboratory Certificates of Analysis





MTE CONSULTANTS INC. (Kitchener)

ATTN: JEN LAMBKE

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Date Received: 29-APR-21

Report Date: 05-MAY-21 14:06 (MT)

Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2581830

Project P.O. #: NOT SUBMITTED

Job Reference: 46995-100

C of C Numbers: Legal Site Desc:

Comments: ADDITIONAL 29-APR-21 15:23

ADDITIONAL 29-APR-21 12:25

Emily Hansen Account Manager

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ADDRESS: 60 Northland Road, Unit 1, Waterloo, ON N2V 2B8 Canada | Phone: +1 519 886 6910 | Fax: +1 519 886 9047

ALS CANADA LTD Part of the ALS Group An ALS Limited Company





ANALYTICAL GUIDELINE REPORT

L2581830 CONTD....

Page 2 of 14 05-MAY-21 14:06 (MT)

Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits
.2581830-2 BH 139-21 SS2 2.5-4.5 FT								
Sampled By: MATT D on 28-APR-21 @ 08:45	;							
Matrix: SOIL						#1	#2	
Physical Tests	0.40		0.0040	0,	00.1411/.04	**	***	
Conductivity	3.48		0.0040	mS/cm	03-MAY-21	*0.57	*1.4	
% Moisture Saturated Paste Extractables	4.85		0.25	%	30-APR-21			
			0.40	0.4.5	00.1411/.04	***	***	
SAR	64.1		0.10	SAR	03-MAY-21	*2.4	*12	
Calcium (Ca)	8.27 0.88		0.50 0.50	mg/L	03-MAY-21			
Magnesium (Mg) Sodium (Na)	726		0.50	mg/L	03-MAY-21 03-MAY-21			
Metals	720		0.50	mg/L	03-IVIA 1-21			
	-1.0		1.0	/~	02 MAY 24	4.0	40	
Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-21 03-MAY-21	1.3	40	
Arsenic (As)	6.6		1.0	ug/g		18	18	
Barium (Ba)	50.8		1.0	ug/g	03-MAY-21	220	670	
Beryllium (Be)	0.66 10.0		0.50	ug/g	03-MAY-21 03-MAY-21	2.5	8	
Boron (B)			5.0	ug/g		36	120	
Cadmium (Cd)	<0.50 18.3		0.50 1.0	ug/g	03-MAY-21 03-MAY-21	1.2	1.9	
Chromium (Cr)				ug/g		70	160	
Cobalt (Co)	6.0		1.0	ug/g	03-MAY-21	21	80	
Copper (Cu)	45.3		1.0	ug/g	03-MAY-21	92	230	
Lead (Pb)	214		1.0	ug/g	03-MAY-21	*120	*120	
Molybdenum (Mo)	<1.0		1.0	ug/g	03-MAY-21	2	40	
Nickel (Ni)	16.2		1.0	ug/g	03-MAY-21	82	270	
Selenium (Se)	<1.0		1.0	ug/g	03-MAY-21	1.5	5.5	
Silver (Ag)	<0.20		0.20	ug/g	03-MAY-21	0.5	40	
Thallium (TI)	<0.50		0.50	ug/g	03-MAY-21	1	3.3	
Uranium (U)	<1.0		1.0	ug/g	03-MAY-21	2.5	33	
Vanadium (V)	33.7		1.0	ug/g	03-MAY-21	86	86	
Zinc (Zn)	114		5.0	ug/g	03-MAY-21	290	340	
Volatile Organic Compounds				,				
Benzene	<0.0068		0.0068	ug/g	03-MAY-21	0.02	0.034	
Ethylbenzene	<0.018		0.018	ug/g	03-MAY-21	0.05	1.9	
Toluene	<0.080		0.080	ug/g	03-MAY-21	0.2	7.8	
o-Xylene	<0.020		0.020	ug/g	03-MAY-21			
m+p-Xylenes	<0.030		0.030	ug/g	03-MAY-21	0.05	_	
Xylenes (Total)	<0.050		0.050	ug/g	03-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene Surrogate: 1,4-Difluorobenzene	109.7		50-140 50-140	%	03-MAY-21 03-MAY-21			
Surrogate: 1,4-Difluoropenzene Hydrocarbons	109.8		50-140	%	US-IVIA 1-21			
	.5.0		F 0		02 MAY 24	05	0.5	
F1 (C6-C10) F1-BTEX	<5.0		5.0	ug/g	03-MAY-21	25	25	
	<5.0		5.0	ug/g	03-MAY-21	25	25	
F2 (C16 C24)	<10		10	ug/g	03-MAY-21	10	26	
F3 (C16-C34)	<50		50	ug/g	03-MAY-21	240	1700	
F4 (C34-C50)	<50		50	ug/g	03-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	03-MAY-21			
Chrom. to baseline at nC50	YES		60 140	No Unit	03-MAY-21			
Surrogate: 2-Bromobenzotrifluoride	94.6 97.8		60-140	% %	03-MAY-21 03-MAY-21			

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

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



ANALYTICAL GUIDELINE REPORT

L2581830 CONTD....

Page 3 of 14 05-MAY-21 14:06 (MT)

6995-100 Sample Details							0	5-MAY-21 1	4:06 (M
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2581830-4 BH 139-21 SS4 7.5-9.5 FT									
Sampled By: MATT D on 28-APR-21 @ 09:00									
Matrix: SOIL						#1	#2		
Physical Tests									
% Moisture	2.58		0.25	%	30-APR-21				
Volatile Organic Compounds	2.00		0.20	/0	00 / 11 17 21				
Benzene	<0.0068		0.0068	ug/g	03-MAY-21	0.02	0.034		
Ethylbenzene	<0.018		0.018	ug/g	03-MAY-21	0.05	1.9		
Toluene	<0.080		0.080	ug/g	03-MAY-21	0.2	7.8		
o-Xylene	<0.020		0.020	ug/g	03-MAY-21	0.2	7.0		
m+p-Xylenes	<0.020		0.030	ug/g	03-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	03-MAY-21	0.05	3		
Surrogate: 4-Bromofluorobenzene	126.4		50-140	%	03-MAY-21	0.03	3		
Surrogate: 1,4-Difluorobenzene	126.4		50-140	%	03-MAY-21				
Hydrocarbons	120.4		JU-140	/0	00-WIA 1-21				
F1 (C6-C10)	<5.0		5.0	ug/g	03-MAY-21	25	25		
F1-BTEX	<5.0		5.0	ug/g	03-MAY-21	25	25		
F2 (C10-C16)	<10		10	ug/g	03-MAY-21	10	26		
F3 (C16-C34)	<50		50	ug/g	03-MAY-21	240	1700		
F4 (C34-C50)	<50		50	ug/g	03-MAY-21	120	3300		
Total Hydrocarbons (C6-C50)	<72		72	ug/g	03-MAY-21	120	0000		
Chrom. to baseline at nC50	YES		12	No Unit	03-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	90.9		60-140	%	03-MAY-21				
Surrogate: 3,4-Dichlorotoluene	107.2		60-140	%	03-MAY-21				
.2581830-8 BH 140-21 SS4 7.5-9.5 FT									
Sampled By: MATT D on 28-APR-21 @ 10:20									
						#1	#2		
Matrix: SOIL									
Physical Tests									
% Moisture	2.40		0.25	%	30-APR-21				
Volatile Organic Compounds									
Acetone	< 0.50		0.50	ug/g	05-MAY-21	0.5	1.8		
Benzene	<0.0068		0.0068	ug/g	05-MAY-21	0.02	0.034		
Bromodichloromethane	< 0.050		0.050	ug/g	05-MAY-21	0.05	5.8		
Bromoform	< 0.050		0.050	ug/g	05-MAY-21	0.05	2.5		
Bromomethane	< 0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
Carbon tetrachloride	< 0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
Chlorobenzene	< 0.050		0.050	ug/g	05-MAY-21	0.05	0.28		
Dibromochloromethane	< 0.050		0.050	ug/g	05-MAY-21	0.05	5.5		
Chloroform	< 0.050		0.050	ug/g	05-MAY-21	0.05	0.26		
1,2-Dibromoethane	< 0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
1,2-Dichlorobenzene	< 0.050		0.050	ug/g	05-MAY-21	0.05	6.8		
1,3-Dichlorobenzene	< 0.050		0.050	ug/g	05-MAY-21	0.05	6.8		
1,4-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
Dichlorodifluoromethane	<0.050		0.050	ug/g ug/g	05-MAY-21	0.05	1.8		
1,1-Dichloroethane	<0.050		0.050	ug/g ug/g	05-MAY-21	0.05	0.57		
1,2-Dichloroethane	<0.050		0.050	ug/g ug/g	05-MAY-21	0.05	0.05		
1,1-Dichloroethylene	<0.050		0.050		05-MAY-21	0.05	0.05		
				ug/g					
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		

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

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



ANALYTICAL GUIDELINE REPORT

L2581830 CONTD....

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Sample Details								15-IVIAY-21 1	4.UU (IVI I)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2581830-8 BH 140-21 SS4 7.5-9.5 FT									
Sampled By: MATT D on 28-APR-21 @ 10:20									
Matrix: SOIL						#1	#2		
Volatile Organic Compounds				,					
Methylene Chloride	<0.050		0.050	ug/g	05-MAY-21	0.05	0.2		
1,2-Dichloropropane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-21				
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-21				
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	05-MAY-21	0.05	0.05		
Ethylbenzene	<0.018		0.018	ug/g	05-MAY-21	0.05	1.9		
n-Hexane	<0.050		0.050	ug/g	05-MAY-21	0.05	2.5		
Methyl Ethyl Ketone	<0.50		0.50	ug/g	05-MAY-21	0.5	26		
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	05-MAY-21	0.5	17		
MTBE	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
Styrene	<0.050		0.050	ug/g	05-MAY-21	0.05	6.8		
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
Tetrachloroethylene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
Toluene	<0.080		0.080	ug/g	05-MAY-21	0.2	7.8		
1,1,1-Trichloroethane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.4		
1,1,2-Trichloroethane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
Trichloroethylene	<0.010		0.010	ug/g	05-MAY-21	0.05	0.05		
Trichlorofluoromethane	<0.050		0.050	ug/g	05-MAY-21	0.25	0.46		
Vinyl chloride	<0.020		0.020	ug/g	05-MAY-21	0.02	0.02		
o-Xylene	<0.020		0.020	ug/g	05-MAY-21				
m+p-Xylenes	<0.030		0.030	ug/g	05-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	05-MAY-21	0.05	3		
Surrogate: 4-Bromofluorobenzene	115.7		50-140	%	05-MAY-21				
Surrogate: 1,4-Difluorobenzene	148.4	SURR- ND	50-140	%	05-MAY-21				
		IND							
L2581830-9 BH 140-21 GS1B 12"-2.5 FT									
Sampled By: MATT D on 28-APR-21 @ 09:50						11.4	"0		
Matrix: SOIL						#1	#2		
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-21	1.3	40		
Arsenic (As)	3.8		1.0	ug/g	03-MAY-21	1.3	18		
Barium (Ba)	50.1		1.0	ug/g	03-MAY-21	220	670		
Beryllium (Be)	<0.50		0.50	ug/g	03-MAY-21	2.5	8		
Boron (B)	5.9		5.0	ug/g	03-MAY-21	36	120		
Cadmium (Cd)	<0.50		0.50	ug/g	03-MAY-21	1.2	1.9		
Chromium (Cr)	16.0		1.0	ug/g	03-MAY-21				
Cobalt (Co)	4.5		1.0	ug/g ug/g	03-MAY-21				
Copper (Cu)	20.6		1.0	ug/g ug/g	03-MAY-21				
Lead (Pb)	61.6		1.0	ug/g ug/g	03-MAY-21				
Molybdenum (Mo)	<1.0		1.0		03-MAY-21				
Nickel (Ni)	8.8		1.0	ug/g	03-MAY-21				
Selenium (Se)	<1.0		1.0	ug/g	03-MAY-21	82 1.5	270 5.5		
Silver (Ag)	<0.20		0.20	ug/g	03-MAY-21	1.5 0.5	5.5 40		
Thallium (TI)	<0.20		0.20	ug/g	03-MAY-21				
THAIIIUH (11)	<0.50		0.50	ug/g	03-IVIA 1-21	1	3.3		

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

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



ANALYTICAL GUIDELINE REPORT

L2581830 CONTD.... Page 5 of 14

46995-100							()5-MAY-21 1	4:06 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2581830-9 BH 140-21 GS1B 12"-2.5 FT									
Sampled By: MATT D on 28-APR-21 @ 09:50									
Matrix: SOIL						#1	#2		
Metals									
Uranium (U)	<1.0		1.0	ug/g	03-MAY-21	2.5	33		
Vanadium (V)	24.2		1.0	ug/g	03-MAY-21	2.5 86	86		
Zinc (Zn)	110		5.0	ug/g	03-MAY-21	290	340		
	110		0.0	ug/g	00 W/(1 21	230	340		
L2581830-12 BH 141-21 SS3 5-7 FT									
Sampled By: MATT D on 28-APR-21 @ 11:15						#1	#2		
Matrix: SOIL						# I	#2		
Physical Tests									
Conductivity	1.12		0.0040	mS/cm	03-MAY-21	*0.57	1.4		
% Moisture	3.22		0.25	%	30-APR-21				
Saturated Paste Extractables									
SAR	31.0		0.10	SAR	03-MAY-21	*2.4	*12		
Calcium (Ca)	2.41		0.50	mg/L	03-MAY-21				
Magnesium (Mg)	0.74		0.50	mg/L	03-MAY-21				
Sodium (Na)	214		0.50	mg/L	03-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-21	1.3	40		
Arsenic (As)	6.7		1.0	ug/g	03-MAY-21	18	18		
Barium (Ba)	18.9		1.0	ug/g	03-MAY-21	220	670		
Beryllium (Be)	< 0.50		0.50	ug/g	03-MAY-21	2.5	8		
Boron (B)	12.1		5.0	ug/g	03-MAY-21	36	120		
Cadmium (Cd)	< 0.50		0.50	ug/g	03-MAY-21	1.2	1.9		
Chromium (Cr)	8.7		1.0	ug/g	03-MAY-21	70	160		
Cobalt (Co)	4.5		1.0	ug/g	03-MAY-21	21	80		
Copper (Cu)	28.7		1.0	ug/g	03-MAY-21	92	230		
Lead (Pb)	16.3		1.0	ug/g	03-MAY-21	120	120		
Molybdenum (Mo)	<1.0		1.0	ug/g	03-MAY-21	2	40		
Nickel (Ni)	8.6		1.0	ug/g	03-MAY-21	82	270		
Selenium (Se)	<1.0		1.0	ug/g	03-MAY-21	1.5	5.5		
Silver (Ag)	<0.20		0.20	ug/g	03-MAY-21	0.5	40		
Thallium (TI)	<0.50		0.50	ug/g	03-MAY-21	1	3.3		
Uranium (U)	<1.0		1.0	ug/g	03-MAY-21	2.5	33		
Vanadium (V)	23.1		1.0	ug/g	03-MAY-21	86	86		
Zinc (Zn) Volatile Organic Compounds	71.9		5.0	ug/g	03-MAY-21	290	340		
_	0.0000		0.0000		00 14437 04	0.00	0.004		
Benzene	<0.0068		0.0068	ug/g	03-MAY-21	0.02	0.034		
Ethylbenzene	<0.018		0.018	ug/g	03-MAY-21	0.05	1.9		
Toluene o-Xylene	<0.080 <0.020		0.080 0.020	ug/g	03-MAY-21 03-MAY-21	0.2	7.8		
m+p-Xylenes	<0.020		0.020	ug/g ug/g	03-MAY-21				
Xylenes (Total)	< 0.050		0.050	ug/g ug/g	03-MAY-21	0.05	3		
Surrogate: 4-Bromofluorobenzene	124.0		50-140	%	03-MAY-21	0.00			
Surrogate: 1,4-Difluorobenzene	122.6		50-140	%	03-MAY-21				
Hydrocarbons	-								
F1 (C6-C10)	<5.0		5.0	ug/g	03-MAY-21	25	25		
· '	-		1	55	1				

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

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



ANALYTICAL GUIDELINE REPORT

L2581830 CONTD....

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46995-100							0	5-MAY-21 14:06 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelin	ne Limits
L2581830-12 BH 141-21 SS3 5-7 FT								
Sampled By: MATT D on 28-APR-21 @ 11:15								
Matrix: SOIL						#1	#2	
Hydrocarbons								
F1-BTEX	<5.0		5.0	ug/g	03-MAY-21	25	25	
F2 (C10-C16)	<10		10	ug/g	03-MAY-21	10	26	
F3 (C16-C34)	<50		50	ug/g	03-MAY-21	240	1700	
F4 (C34-C50)	<50		50	ug/g	03-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	03-MAY-21			
Chrom. to baseline at nC50	YES			No Unit	03-MAY-21			
Surrogate: 2-Bromobenzotrifluoride	93.7		60-140	%	03-MAY-21			
Surrogate: 3,4-Dichlorotoluene	105.4		60-140	%	03-MAY-21			
L2581830-15 BH 142-21 SS2 2.5-4.5 FT								
Sampled By: MATT D on 28-APR-21 @ 12:15								
Matrix: SOIL						#1	#2	
Physical Tests								
Conductivity	2.10		0.0040	mS/cm	03-MAY-21	*0.57	*1.4	
% Moisture	8.30		0.0040	%	30-APR-21	0.57	1.4	
pH	8.01		0.23	pH units	03-MAY-21			
Saturated Paste Extractables	0.01		0.10	priumo	03-WA1-21			
SAR	63.5	SAR:M	0.10	SAR	03-MAY-21	*2.4	*12	
	3.32	SAK.W	0.10		03-MAY-21	~2.4	"12	
Calcium (Ca) Magnesium (Mg)	3.32 <0.50		0.50	mg/L	03-MAY-21			
Sodium (Na)	420		0.50	mg/L mg/L	03-MAY-21			
Metals	420		0.50	IIIg/L	03-WA 1-21			
Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-21	1.3	40	
Arsenic (As)	3.9		1.0	ug/g ug/g	03-MAY-21	1.3	18	
Barium (Ba)	44.4		1.0	ug/g	03-MAY-21	220	670	
Beryllium (Be)	<0.50		0.50	ug/g ug/g	03-MAY-21	2.5	8	
Boron (B)	7.6		5.0	ug/g ug/g	03-MAY-21	36	120	
Cadmium (Cd)	<0.50		0.50	ug/g	03-MAY-21	1.2	1.9	
Chromium (Cr)	19.8		1.0	ug/g	03-MAY-21	70	160	
Cobalt (Co)	4.4		1.0	ug/g ug/g	03-MAY-21	21	80	
Copper (Cu)	30.4		1.0	ug/g ug/g	03-MAY-21	92	230	
Lead (Pb)	19.8		1.0	ug/g ug/g	03-MAY-21	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g ug/g	03-MAY-21	2	40	
Nickel (Ni)	9.7		1.0	ug/g ug/g	03-MAY-21	82	270	
Selenium (Se)	<1.0		1.0	ug/g ug/g	03-MAY-21	1.5	5.5	
Silver (Ag)	<0.20		0.20	ug/g ug/g	03-MAY-21	0.5	5.5 40	
Thallium (TI)	<0.50		0.50	ug/g ug/g	03-MAY-21	0.5	3.3	
Uranium (U)	<1.0		1.0	ug/g ug/g	03-MAY-21	2.5	3.3 33	
Vanadium (V)	25.0		1.0		03-MAY-21	2.5 86	33 86	
Zinc (Zn)	80.6		5.0	ug/g ug/g	03-MAY-21	290	340	
Volatile Organic Compounds	50.0		5.0	ug/g	00-WIA 1-21	290	340	
Benzene	<0.0068		0.0068	ug/g	03-MAY-21	0.02	0.034	
Ethylbenzene	<0.018		0.018	ug/g	03-MAY-21	0.02	1.9	
Toluene	<0.080		0.080	ug/g	03-MAY-21	0.2	7.8	
o-Xylene	<0.020		0.020	ug/g	03-MAY-21	٠.ــ		
m+p-Xylenes	< 0.030		0.030	ug/g	03-MAY-21			
		1		_ ~a a				<u> </u>

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

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



ANALYTICAL GUIDELINE REPORT

L2581830 CONTD.... Page 7 of 14

46995-100	~!!/ ~ E!!	IOAL	COID		KEPUK	\ I	O	Page 7 of 14 5-MAY-21 14:06 (M1)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed			ne Limits
7		Qualifor			/ trialyzou		Guidelli	io Elimio
L2581830-15 BH 142-21 SS2 2.5-4.5 FT Sampled By: MATT D on 28-APR-21 @ 12:15								
Matrix: SOIL						#1	#2	
Volatile Organic Compounds								
Xylenes (Total)	<0.050		0.050	ug/g	03-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene	125.2		50-140	%	03-MAY-21			
Surrogate: 1,4-Difluorobenzene Hydrocarbons	126.2		50-140	%	03-MAY-21			
•	.5.0		F 0		00 MAN 04	05	05	
F1 (C6-C10) F1-BTEX	<5.0		5.0 5.0	ug/g	03-MAY-21 03-MAY-21	25	25	
	<5.0 <10		10	ug/g	03-MAY-21	25	25	
F2 (C10-C16)	< 10 < 50		50	ug/g	03-MAY-21	10	26	
F3 (C16-C34)				ug/g		240	1700	
F4 (C34-C50)	67		50	ug/g	03-MAY-21	120	3300	
Total Hydrocarbons (C6-C50) Chrom. to baseline at nC50	<72 YES		72	ug/g No Unit	03-MAY-21 03-MAY-21			
	90.3		60-140	NO Unit	03-MAY-21			
Surrogate: 2-Bromobenzotrifluoride Surrogate: 3,4-Dichlorotoluene	101.6		60-140	% %	03-MAY-21			
<u>`</u>	101.0		00-140	/0	03-WA 1-21			
L2581830-17 BH 142-21 SS4 7.5-9.5 FT								
Sampled By: MATT D on 28-APR-21 @ 12:30						4	"0	
Matrix: SOIL						#1	#2	
Physical Tests								
% Moisture	3.68		0.25	%	30-APR-21			
Volatile Organic Compounds	0.00		0.20	,,,	00 / 1 (2)			
Acetone	<0.50		0.50	ug/g	05-MAY-21	0.5	1.8	
Benzene	<0.0068		0.0068	ug/g	05-MAY-21	0.02	0.034	
Bromodichloromethane	<0.050		0.050	ug/g	05-MAY-21	0.05	5.8	
Bromoform	<0.050		0.050	ug/g	05-MAY-21	0.05	2.5	
Bromomethane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
Carbon tetrachloride	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
Chlorobenzene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.28	
Dibromochloromethane	<0.050		0.050	ug/g	05-MAY-21	0.05	5.5	
Chloroform	<0.050		0.050	ug/g	05-MAY-21	0.05	0.26	
1,2-Dibromoethane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
1,2-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-21	0.05	6.8	
1,3-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-21	0.05	6.8	
1,4-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
Dichlorodifluoromethane	<0.050		0.050	ug/g	05-MAY-21	0.05	1.8	
1,1-Dichloroethane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.57	
1,2-Dichloroethane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
1,1-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
Methylene Chloride	<0.050		0.050	ug/g	05-MAY-21	0.05	0.2	
1,2-Dichloropropane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-21			
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-21			
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	05-MAY-21	0.05	0.05	
Ethylbenzene	<0.018		0.018	ug/g	05-MAY-21	0.05	1.9	
n-Hexane	<0.050		0.050	ug/g	05-MAY-21	0.05	2.5	

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

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



ANALYTICAL GUIDELINE REPORT

L2581830 CONTD....

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46995-100 Sample Details							0	5-MAY-21 1	4:06 (MT)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2581830-17 BH 142-21 SS4 7.5-9.5 FT									
Sampled By: MATT D on 28-APR-21 @ 12:30									
Matrix: SOIL						#1	#2		
Volatile Organic Compounds									
-	0.50		0.50		05 MAN 04	0.5	00		
Methyl Ethyl Ketone	<0.50		0.50	ug/g	05-MAY-21	0.5	26		
Methyl Isobutyl Ketone	< 0.50		0.50	ug/g	05-MAY-21	0.5	17		
MTBE	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
Styrene	<0.050 <0.050		0.050	ug/g	05-MAY-21	0.05	6.8		
1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane	<0.050		0.050 0.050	ug/g	05-MAY-21 05-MAY-21	0.05	0.05		
Tetrachloroethylene	<0.050		0.050	ug/g	05-IVIA 1 -21 05-MAY-21	0.05	0.05		
Toluene	<0.030		0.030	ug/g	05-MAY-21	0.05 0.2	0.05 7.8		
1,1,1-Trichloroethane	<0.050		0.050	ug/g	05-MAY-21	0.2	7.8 0.4		
	<0.050		0.050	ug/g	05-MAY-21				
1,1,2-Trichloroethane	<0.050 <0.010		0.050	ug/g	05-MAY-21 05-MAY-21	0.05	0.05		
Trichloroethylene Trichlorofluoromethane				ug/g	05-MAY-21 05-MAY-21	0.05	0.05		
Vinyl chloride	<0.050 <0.020		0.050 0.020	ug/g	05-MAY-21	0.25	0.46 0.02		
·	<0.020		0.020	ug/g	05-IVIA 1 -21 05-MAY-21	0.02	0.02		
o-Xylene m+p-Xylenes	<0.020		0.020	ug/g	05-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g ug/g	05-MAY-21	0.05	3		
Surrogate: 4-Bromofluorobenzene	92.0		50-140	ug/g %	05-MAY-21	0.03	3		
Surrogate: 1,4-Difluorobenzene	115.0		50-140	% %	05-MAY-21				
•	110.0		00 110	/0	00 1111 21				
L2581830-19 BH 143-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 28-APR-21 @ 13:20						#1	#2		
Matrix: SOIL						#1	#2		
Physical Tests									
% Moisture	7.25		0.25	%	30-APR-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-21	1.3	40		
Arsenic (As)	2.9		1.0	ug/g	03-MAY-21	18	18		
Barium (Ba)	24.0		1.0	ug/g	03-MAY-21	220	670		
Beryllium (Be)	< 0.50		0.50	ug/g	03-MAY-21	2.5	8		
Boron (B)	6.3		5.0	ug/g	03-MAY-21	36	120		
Boron (B), Hot Water Ext.	0.20		0.10	ug/g	03-MAY-21	36	2		
Cadmium (Cd)	<0.50		0.50	ug/g	03-MAY-21	1.2	1.9		
Chromium (Cr)	10.5		1.0	ug/g	03-MAY-21	70	160		
Cobalt (Co)	3.0		1.0	ug/g	03-MAY-21	21	80		
Copper (Cu)	13.9		1.0	ug/g	03-MAY-21	92	230		
Lead (Pb)	20.1		1.0	ug/g	03-MAY-21	120	120		
Mercury (Hg)	0.0565		0.0050	ug/g	03-MAY-21	0.27	0.27		
Molybdenum (Mo)	<1.0		1.0	ug/g	03-MAY-21	2	40		
Nickel (Ni)	6.6		1.0	ug/g	03-MAY-21	82	270		
Selenium (Se)	<1.0		1.0	ug/g	03-MAY-21	1.5	5.5		
Silver (Ag)	<0.20		0.20	ug/g	03-MAY-21	0.5	40		
Thallium (TI)	<0.50		0.50	ug/g	03-MAY-21	1	3.3		
Uranium (U)	<1.0		1.0	ug/g	03-MAY-21	2.5	33		
Vanadium (V)	19.1		1.0	ug/g	03-MAY-21	86	86		
Zinc (Zn)	56.2		5.0	ug/g	03-MAY-21				
Speciated Metals				3.3					
-		1			1		l .	I.	

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

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



ANALYTICAL GUIDELINE REPORT

L2581830 CONTD....

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995-100	ANALII	IOAL	GOID		KEPUR	. 1	O	Page 9 05-MAY-21 1	
Sample Details Grouping Analyte	Result Qualifier D.L. Units Analyzed						Guideline Limits		
,		Qualifier			/ Indiy20d		Guidelli	io Limito	
.2581830-19 BH 143-21 SS2 2.5-4.5 FT Sampled By: MATT D on 28-APR-21 @ 13:20									
' '	'					#1	#2		
Matrix: SOIL									
Speciated Metals									
Chromium, Hexavalent	<0.20		0.20	ug/g	04-MAY-21	0.66	8		
Volatile Organic Compounds									
Benzene	<0.0068		0.0068	ug/g	03-MAY-21	0.02	0.034		
Ethylbenzene	<0.018		0.018	ug/g	03-MAY-21	0.05	1.9		
Toluene	<0.080		0.080	ug/g	03-MAY-21	0.2	7.8		
o-Xylene	<0.020		0.020	ug/g	03-MAY-21				
m+p-Xylenes	<0.030		0.030	ug/g	03-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	03-MAY-21	0.05	3		
Surrogate: 4-Bromofluorobenzene	121.3		50-140	%	03-MAY-21				
Surrogate: 1,4-Difluorobenzene	121.9		50-140	%	03-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	03-MAY-21	25	25		
F1-BTEX	<5.0		5.0	ug/g	03-MAY-21	25	25		
F2 (C10-C16)	<10		10	ug/g	03-MAY-21	10	26		
F2-Naphth	<10		10	ug/g	03-MAY-21				
F3 (C16-C34)	<50		50	ug/g	03-MAY-21	240	1700		
F3-PAH	<50		50	ug/g	03-MAY-21				
F4 (C34-C50)	78		50	ug/g	03-MAY-21	120	3300		
F4G-SG (GHH-Silica)	730		250	ug/g	30-APR-21	*120	3300		
Total Hydrocarbons (C6-C50)	78		72	ug/g	03-MAY-21				
Chrom. to baseline at nC50	NO			No Unit	03-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	91.7		60-140	%	03-MAY-21				
Surrogate: 3,4-Dichlorotoluene	84.7		60-140	%	03-MAY-21				
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	<0.050		0.050	ug/g	03-MAY-21	0.072	15		
Acenaphthylene	<0.050		0.050	ug/g	03-MAY-21	0.093	0.093		
Anthracene	<0.050		0.050	ug/g	03-MAY-21	0.16	0.16		
Benzo(a)anthracene	<0.050		0.050	ug/g	03-MAY-21	0.36	1		
Benzo(a)pyrene	<0.050		0.050	ug/g	03-MAY-21	0.3	0.7		
Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	03-MAY-21	0.47	7		
Benzo(g,h,i)perylene	<0.050		0.050	ug/g	03-MAY-21	0.68	13		
Benzo(k)fluoranthene	<0.050		0.050	ug/g	03-MAY-21	0.48	7		
Chrysene	<0.050		0.050	ug/g	03-MAY-21	2.8	14		
Dibenz(a,h)anthracene	<0.050		0.050	ug/g	03-MAY-21	0.1	0.7		
Fluoranthene	<0.050		0.050	ug/g	03-MAY-21	0.56	70		
Fluorene	<0.050		0.050	ug/g	03-MAY-21	0.12	6.8		
Indeno(1,2,3-cd)pyrene	<0.050		0.050	ug/g	03-MAY-21	0.23	0.76		
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	03-MAY-21	0.59	8.7		
1-Methylnaphthalene	<0.030		0.030	ug/g	03-MAY-21	0.59	8.7		
2-Methylnaphthalene	<0.030		0.030	ug/g	03-MAY-21	0.59	8.7		
Naphthalene	<0.013		0.013	ug/g	03-MAY-21	0.09	1.8		
Phenanthrene	<0.046		0.046	ug/g	03-MAY-21	0.69	12		
Pyrene	<0.050		0.050	ug/g	03-MAY-21	1	70		
Surrogate: 2-Fluorobiphenyl	92.6		50-140	% %	03-MAY-21	·	. ,		
Surrogate: d14-Terphenyl	93.0		50-140	%	03-MAY-21				
- 3	1	+			 				

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

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



ANALYTICAL GUIDELINE REPORT

L2581830 CONTD.... Page 10 of 14 05-MAY-21 14:06 (MT)

Sample Details Units Grouping Analyte Result Qualifier D.L. Analyzed **Guideline Limits** L2581830-20 BH 143-21 SS3 5-7 FT Sampled By: MATT D on 28-APR-21 @ 13:30 #1 #2 Matrix: SOIL **Physical Tests** 0.25 30-APR-21 % Moisture 8.47 % **Volatile Organic Compounds** 05-MAY-21 Acetone < 0.50 0.50 0.5 ug/g 1.8 Benzene <0.0068 0.0068 05-MAY-21 0.02 0.034 ug/g Bromodichloromethane < 0.050 0.050 05-MAY-21 5.8 ug/g 0.05 05-MAY-21 0.050 Bromoform < 0.050 ug/g 0.05 2.5 **Bromomethane** < 0.050 0.050 ug/g 05-MAY-21 0.05 0.05 Carbon tetrachloride < 0.050 0.050 05-MAY-21 ug/g 0.05 0.05 Chlorobenzene < 0.050 0.050 ug/g 05-MAY-21 0.05 0.28 Dibromochloromethane < 0.050 0.050 05-MAY-21 0.05 5.5 ug/g Chloroform < 0.050 0.050 ug/g 05-MAY-21 0.05 0.26 1,2-Dibromoethane < 0.050 0.050 ug/g 05-MAY-21 0.05 0.05 0.050 05-MAY-21 1,2-Dichlorobenzene < 0.050 0.05 6.8 ug/g 1.3-Dichlorobenzene < 0.050 0.050 05-MAY-21 ug/g 0.05 6.8 < 0.050 0.050 05-MAY-21 0.05 1 4-Dichlorobenzene ug/g 0.05 Dichlorodifluoromethane < 0.050 0.050 ug/g 05-MAY-21 0.05 1.8 1,1-Dichloroethane < 0.050 0.050 ug/g 05-MAY-21 0.05 0.57 0.050 05-MAY-21 1,2-Dichloroethane < 0.050 ug/g 0.05 0.05 1,1-Dichloroethylene < 0.050 0.050 ug/g 05-MAY-21 0.05 0.05 cis-1,2-Dichloroethylene < 0.050 0.050 05-MAY-21 0.05 ug/g 0.05 trans-1,2-Dichloroethylene < 0.050 0.050 05-MAY-21 0.05 0.05 ug/g Methylene Chloride < 0.050 0.050 ug/g 05-MAY-21 0.05 0.2 05-MAY-21 1,2-Dichloropropane < 0.050 0.050 0.05 0.05 ug/g cis-1,3-Dichloropropene < 0.030 0.030 ug/g 05-MAY-21 trans-1,3-Dichloropropene < 0.030 0.030 ug/g 05-MAY-21 1,3-Dichloropropene (cis & trans) < 0.042 0.042 05-MAY-21 0.05 0.05 ug/g Ethylbenzene < 0.018 0.018 05-MAY-21 0.05 ug/g 1.9 n-Hexane < 0.050 0.050 05-MAY-21 ug/g 0.05 25 05-MAY-21 Methyl Ethyl Ketone < 0.50 0.50 ug/g 0.5 26 Methyl Isobutyl Ketone < 0.50 0.50 ug/g 05-MAY-21 0.5 17 MTBE < 0.050 0.050 05-MAY-21 0.05 0.05 ug/g Styrene < 0.050 0.050 05-MAY-21 ug/g 0.05 6.8 < 0.050 0.050 05-MAY-21 0.05 1,1,1,2-Tetrachloroethane 0.05 ug/g 05-MAY-21 1,1,2,2-Tetrachloroethane < 0.050 0.050 ug/g 0.05 0.05 Tetrachloroethylene < 0.050 0.050 ug/g 05-MAY-21 0.05 0.05 <0.080 0.080 05-MAY-21 Toluene ug/g 0.2 7.8 1,1,1-Trichloroethane < 0.050 0.050 05-MAY-21 ug/g 0.05 0.4 1,1,2-Trichloroethane < 0.050 0.050 05-MAY-21 ug/g 0.05 0.05 Trichloroethylene < 0.010 0.010 ug/g 05-MAY-21 0.05 0.05 Trichlorofluoromethane < 0.050 0.050 ug/g 05-MAY-21 0.25 0.46 Vinyl chloride < 0.020 0.020 05-MAY-21 0.02 0.02 ug/g o-Xylene < 0.020 0.020 05-MAY-21 ug/g m+p-Xylenes < 0.030 0.030 ug/g 05-MAY-21 Xylenes (Total) < 0.050 0.050 ug/g 05-MAY-21 0.05 3 Surrogate: 4-Bromofluorobenzene 94.2 50-140 % 05-MAY-21 Surrogate: 1,4-Difluorobenzene 119.7 50-140 % 05-MAY-21

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

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



ANALYTICAL GUIDELINE REPORT

L2581830 CONTD.... Page 11 of 14

05-MAY-21 14:06 (MT) Sample Details Result Qualifier D.L. Units Grouping Analyte Analyzed **Guideline Limits** L2581830-20 BH 143-21 SS3 5-7 FT Sampled By: MATT D on 28-APR-21 @ 13:30 #1 #2 Matrix: SOIL **Polycyclic Aromatic Hydrocarbons** Acenaphthene < 0.050 0.050 03-MAY-21 0.072 ug/g 15 Acenaphthylene < 0.050 0.050 ug/g 03-MAY-21 0.093 0.093 Anthracene < 0.050 0.050 ug/g 03-MAY-21 0.16 0.16 < 0.050 0.050 03-MAY-21 Benzo(a)anthracene ug/g 0.36 Benzo(a)pyrene < 0.050 0.050 03-MAY-21 0.7 ug/g 0.3 Benzo(b&j)fluoranthene < 0.050 0.050 03-MAY-21 ug/g 0.47 03-MAY-21 Benzo(g,h,i)perylene < 0.050 0.050 ug/g 0.68 13 03-MAY-21 Benzo(k)fluoranthene < 0.050 0.050 ug/g 0.48 7 Chrysene < 0.050 0.050 03-MAY-21 2.8 14 ug/g Dibenz(a,h)anthracene < 0.050 0.050 03-MAY-21 0.7 ug/g 0.1 Fluoranthene < 0.050 03-MAY-21 70 0.050 ug/g 0.56 Fluorene < 0.050 0.050 ug/g 03-MAY-21 0.12 6.8 Indeno(1,2,3-cd)pyrene < 0.050 0.050 03-MAY-21 0.23 0.76 ug/g 03-MAY-21 1+2-Methylnaphthalenes < 0.042 0.042 ug/g 0.59 8.7 1-Methylnaphthalene < 0.030 0.030 03-MAY-21 0.59 ug/g 8.7 < 0.030 0.030 03-MAY-21 2-Methylnaphthalene 8.7 ug/g 0.59 Naphthalene < 0.013 0.013 ug/g 03-MAY-21 0.09 1.8 Phenanthrene < 0.046 0.046 ug/g 03-MAY-21 0.69 12 < 0.050 0.050 03-MAY-21 Pyrene ug/g 70 82.8 50-140 03-MAY-21 Surrogate: 2-Fluorobiphenyl % Surrogate: d14-Terphenyl 80.2 50-140 % 03-MAY-21

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

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

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description		
SURR-ND	Surrogate recovery munaffected.	narginally exceeded ALS DQO.	Reported non-detect results for associated samples were deemed to be
SAR:M	Reported SAR repres	sents a maximum value. Actual	SAR may be lower if both Ca and Mg were detectable.
Methods List	ed (if applicable):		
ALS Test Cod	le Matrix	Test Description	Method Reference***
B-HWS-R511	-WT Soil	Boron-HWE-O.Reg 153/04 2011)	4 (July HW EXTR, EPA 6010B

A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

BTX-511-HS-WT Soil BTEX-O.Reg 153/04 (July 2011) SW846 8260

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-WT Soil Hexavalent Chromium in Soil SW846 3060A/7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-WT Soil Conductivity (EC) MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

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

Parameters

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

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
- 3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
- 4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT Soil F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

F2-F4-511-WT

Soil

F2-F4-O.Reg 153/04 (July 2011) CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:

- 1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- 2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- 3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
- 4. F4G: Gravimetric Heavy Hydrocarbons
- 5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
- 6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME quideline for F4.
- 7. F4G-sq cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
- 8. This method is validated for use.
- 9. Data from analysis of validation and quality control samples is available upon request.
- 10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F4G-ADD-511-WT

Soil

F4G SG-O.Reg 153/04 (July

MOE DECPH-E3398/CCME TIER 1

2011)
F4G, gravimetric analysis, is determined if the chromatogram does not return to baseline at or before C50. A soil sample is extracted with a solvent mix, the solvent is evaporated and the weight of the residue is determined.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-200.2-CVAA-WT

Soil

Mercury in Soil by CVAAS

EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-200.2-CCMS-WT

Soil

Metals in Soil by CRC ICPMS

EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Soil

ABN-Calculated Parameters

SW846 8270

MOISTURE-WT Soil

oil % Moisture

CCME PHC in Soil - Tier 1 (mod)

PAH-511-WT

Soil

PAH-O.Reg 153/04 (July 2011)

SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking techniqueis used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT

Soil

MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Reference Information

SAR-R511-WT Soil SAR-O.Reg 153/04 (July 2011) SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental

Protection Act (July 1, 2011).

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

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

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG

must be reported).

XYLENES-SUM-CALC-

Soil

Sum of Xylene Isomer

CALCULATION

WT Concentrations

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

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

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

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



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MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT	Soil							
Batch R54458	79							
WG3527727-4 DUI Boron (B), Hot Water		L2580237-1 <0.10	<0.10	RPD-NA	ug/g	N/A	30	03-MAY-21
WG3527727-2 IRN Boron (B), Hot Water		WT SAR4	100.3		%		70-130	03-MAY-21
WG3527727-3 LCS Boron (B), Hot Water			105.0		%		70-130	03-MAY-21
WG3527727-1 MB Boron (B), Hot Water			<0.10		ug/g		0.1	03-MAY-21
BTX-511-HS-WT	Soil							
Batch R54444	10							
WG3526849-4 DUI Benzene	P	WG3526849-3 < 0.0068	<0.0068	RPD-NA	ug/g	N/A	40	03-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	03-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	03-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	03-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	03-MAY-21
WG3526849-2 LC	5							
Benzene			97.3		%		70-130	03-MAY-21
Ethylbenzene			86.7		%		70-130	03-MAY-21
m+p-Xylenes			89.4		%		70-130	03-MAY-21
o-Xylene			88.5		%		70-130	03-MAY-21
Toluene			88.2		%		70-130	03-MAY-21
WG3526849-1 MB Benzene			<0.0068		ug/g		0.0068	03-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	03-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	03-MAY-21
o-Xylene			<0.020		ug/g		0.02	03-MAY-21
Toluene			<0.080		ug/g		0.08	03-MAY-21
Surrogate: 1,4-Difluo	robenzene		127.9		%		50-140	03-MAY-21
Surrogate: 4-Bromofl			126.4		%		50-140	03-MAY-21
WG3526849-5 MS Benzene		WG3526849-3	93.3		%		60-140	03-MAY-21
Ethylbenzene			80.8		%		60-140	03-MAY-21
m+p-Xylenes			85.5		%		60-140	03-MAY-21
o-Xylene			83.1		%		60-140	03-MAY-21
Toluene			83.4		%		60-140	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Ma	atrix Re	eference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-IC-WT	So	oil							
	17879 CRM valent	w	/T-SQC012	100.5		%		70-130	04-MAY-21
WG3527738-3 I Chromium, Hexav	DUP /alent		2581807-2 0.20	<0.20	RPD-NA	ug/g	N/A	35	04-MAY-21
WG3527738-2 I Chromium, Hexav	LCS /alent			95.5		%		80-120	04-MAY-21
WG3527738-1 Chromium, Hexav	MB /alent			<0.20		ug/g		0.2	04-MAY-21
EC-WT	So	oil							
	15497								
Conductivity	DUP	0.	/G3527714-3 .491	0.449		mS/cm	8.9	20	03-MAY-21
WG3527714-2 I Conductivity	IRM	W	/T SAR4	104.0		%		70-130	03-MAY-21
Conductivity	LCS			96.7		%		90-110	03-MAY-21
WG3527714-1 I Conductivity	MB			<0.0040		mS/cm		0.004	03-MAY-21
	15883								
WG3527729-4 I Conductivity	DUP		/G3527729-3 .68	1.70		mS/cm	1.4	20	03-MAY-21
WG3527729-2 I Conductivity	IRM	W	/T SAR4	100.8		%		70-130	03-MAY-21
WG3527893-1 I Conductivity	LCS			96.5		%		90-110	03-MAY-21
WG3527729-1 Conductivity	MB			<0.0040		mS/cm		0.004	03-MAY-21
F1-HS-511-WT	So	oil							
Batch R544	14410								
WG3526849-4 F1 (C6-C10)	DUP		/G3526849-3 5.0	<5.0	RPD-NA	ug/g	N/A	30	03-MAY-21
WG3526849-2 I F1 (C6-C10)	LCS			97.0		%		80-120	03-MAY-21
WG3526849-1 I F1 (C6-C10)	МВ			<5.0		ug/g		5	03-MAY-21
Surrogate: 3,4-Dic	chlorotoluer	ne		107.1		%		60-140	03-MAY-21
WG3526849-5	MS	W	/G3526849-3						



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	Soil							
Batch R5444410 WG3526849-5 MS F1 (C6-C10)		WG3526849-3	87.1		%		60-140	03-MAY-21
F2-F4-511-WT	Soil							
Batch R5445396								
WG3526745-8 DUP F2 (C10-C16)		WG3526745-1 0 <10	0 <10	RPD-NA	ug/g	N/A	30	03-MAY-21
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	03-MAY-21
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	03-MAY-21
WG3526745-7 LCS F2 (C10-C16)			98.8		%		80-120	03-MAY-21
F3 (C16-C34)			98.4		%		80-120	03-MAY-21
F4 (C34-C50)			94.0		%		80-120	03-MAY-21
WG3526745-6 MB F2 (C10-C16)			<10		ug/g		10	03-MAY-21
F3 (C16-C34)			<50		ug/g		50	03-MAY-21
F4 (C34-C50)			<50		ug/g		50	03-MAY-21
Surrogate: 2-Bromobenz	zotrifluoride		97.3		%		60-140	03-MAY-21
WG3526745-9 MS		WG3526745-10	0					
F2 (C10-C16)			93.3		%		60-140	03-MAY-21
F3 (C16-C34)			96.4		%		60-140	03-MAY-21
F4 (C34-C50)			91.8		%		60-140	03-MAY-21
F4G-ADD-511-WT	Soil							
Batch R5445957 WG3528184-2 LCS								
F4G-SG (GHH-Silica)			79.3		%		60-140	30-APR-21
WG3528184-1 MB F4G-SG (GHH-Silica)			<250		ug/g		250	30-APR-21
HG-200.2-CVAA-WT	Soil							
Batch R5444839								
WG3527724-2 CRM Mercury (Hg)		WT-SS-2	123.6		%		70-130	03-MAY-21
WG3527724-6 DUP Mercury (Hg)		WG3527724-5 0.0299	0.0330		ug/g	9.8	40	03-MAY-21
WG3527724-3 LCS Mercury (Hg)			98.5		%		80-120	03-MAY-21
WG3527724-1 MB								



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-200.2-CVAA-WT	Soil							
Batch R5444839 WG3527724-1 MB Mercury (Hg)			<0.0050		mg/kg		0.005	03-MAY-21
MET-200.2-CCMS-WT	Soil							
Batch R5445917								
WG3527718-2 CRM Antimony (Sb)		WT-SS-2	112.6		%		70-130	03-MAY-21
Arsenic (As)			111.0		%		70-130	03-MAY-21
Barium (Ba)			104.5		%		70-130	03-MAY-21
Beryllium (Be)			112.5		%		70-130	03-MAY-21
Boron (B)			10.4		mg/kg		3.5-13.5	03-MAY-21
Cadmium (Cd)			99.9		%		70-130	03-MAY-21
Chromium (Cr)			116.4		%		70-130	03-MAY-21
Cobalt (Co)			107.3		%		70-130	03-MAY-21
Copper (Cu)			106.7		%		70-130	03-MAY-21
Lead (Pb)			106.1		%		70-130	03-MAY-21
Molybdenum (Mo)			112.4		%		70-130	03-MAY-21
Nickel (Ni)			105.2		%		70-130	03-MAY-21
Selenium (Se)			0.13		mg/kg		0-0.34	03-MAY-21
Silver (Ag)			112.4		%		70-130	03-MAY-21
Thallium (TI)			0.084		mg/kg		0.029-0.12	9 03-MAY-21
Uranium (U)			100.5		%		70-130	03-MAY-21
Vanadium (V)			112.2		%		70-130	03-MAY-21
Zinc (Zn)			99.8		%		70-130	03-MAY-21
WG3527718-4 DUP		L2582553-1	4.0	222				
Antimony (Sb)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	03-MAY-21
Arsenic (As)		6.5	6.1		ug/g	6.2	30	03-MAY-21
Barium (Ba)		114	108		ug/g	4.9	40	03-MAY-21
Beryllium (Be)		0.88	0.90		ug/g	2.3	30	03-MAY-21
Boron (B)		15.9	15.5		ug/g	2.4	30	03-MAY-21
Cadmium (Cd)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	03-MAY-21
Chromium (Cr)		31.5	30.1		ug/g	4.3	30	03-MAY-21
Cobalt (Co)		12.0	11.4		ug/g	5.7	30	03-MAY-21
Copper (Cu)		31.1	29.7		ug/g	4.4	30	03-MAY-21
Lead (Pb)		24.4	24.2		ug/g	0.9	40	03-MAY-21



Workorder: L2581830 Report Date: 05-MAY-21 Page 5 of 20

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5445917								
WG3527718-4 DUP		L2582553-1	4.0					
Molybdenum (Mo)		<1.0	<1.0	RPD-NA	ug/g	N/A	40	03-MAY-21
Nickel (Ni)		28.3	26.9		ug/g	5.1	30	03-MAY-21
Selenium (Se)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	03-MAY-21
Silver (Ag)		<0.20	<0.20	RPD-NA	ug/g	N/A	40	03-MAY-21
Thallium (TI)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	03-MAY-21
Uranium (U)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	03-MAY-21
Vanadium (V)		42.5	41.3		ug/g	2.8	30	03-MAY-21
Zinc (Zn)		92.2	88.6		ug/g	4.0	30	03-MAY-21
WG3527718-3 LCS Antimony (Sb)			104.7		%		80-120	03-MAY-21
Arsenic (As)			101.3		%		80-120	03-MAY-21
Barium (Ba)			96.5		%		80-120	03-MAY-21
Beryllium (Be)			94.7		%		80-120	03-MAY-21
Boron (B)			93.2		%		80-120	03-MAY-21
Cadmium (Cd)			98.3		%		80-120	03-MAY-21
Chromium (Cr)			98.1		%		80-120	03-MAY-21
Cobalt (Co)			98.2		%		80-120	03-MAY-21
Copper (Cu)			96.8		%		80-120	03-MAY-21
Lead (Pb)			98.3		%		80-120	03-MAY-21
Molybdenum (Mo)			95.7		%		80-120	03-MAY-21
Nickel (Ni)			97.3		%		80-120	03-MAY-21
Selenium (Se)			99.2		%		80-120	03-MAY-21
Silver (Ag)			86.2		%		80-120	03-MAY-21
Thallium (TI)			100.4		%		80-120	03-MAY-21
Uranium (U)			89.2		%		80-120	03-MAY-21
Vanadium (V)			100.7		%		80-120	03-MAY-21
Zinc (Zn)			93.8		%		80-120	03-MAY-21
WG3527718-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	03-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	03-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	03-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	03-MAY-21
Boron (B)			<5.0		mg/kg		5	03-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5445917								
WG3527718-1 MB			0.50				0.5	
Chromium (Cr)			<0.50		mg/kg		0.5	03-MAY-21
Cobalt (Co)			<0.10		mg/kg			03-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	03-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	03-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	03-MAY-21
Nickel (Ni) Selenium (Se)			<0.50		mg/kg		0.5	03-MAY-21
			<0.20		mg/kg		0.2	03-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	03-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	03-MAY-21
Uranium (U)			<0.050		mg/kg		0.05	03-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	03-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	03-MAY-21
Batch R5446102		WT 00 0						
WG3527712-2 CRM Antimony (Sb)		WT-SS-2	105.5		%		70-130	03-MAY-21
Arsenic (As)			116.9		%		70-130	03-MAY-21
Barium (Ba)			107.5		%		70-130	03-MAY-21
Beryllium (Be)			108.5		%		70-130	03-MAY-21
Boron (B)			9.5		mg/kg		3.5-13.5	03-MAY-21
Chromium (Cr)			111.3		%		70-130	03-MAY-21
Cobalt (Co)			108.7		%		70-130	03-MAY-21
Copper (Cu)			111.2		%		70-130	03-MAY-21
Lead (Pb)			113.3		%		70-130	03-MAY-21
Molybdenum (Mo)			108.5		%		70-130	03-MAY-21
Nickel (Ni)			107.7		%		70-130	03-MAY-21
Selenium (Se)			0.15		mg/kg		0-0.34	03-MAY-21
Silver (Ag)			101.9		%		70-130	03-MAY-21
Thallium (TI)			0.080		mg/kg		0.029-0.129	03-MAY-21
Uranium (U)			99.3		%		70-130	03-MAY-21
Vanadium (V)			112.2		%		70-130	03-MAY-21
Zinc (Zn)			104.0		%		70-130	03-MAY-21
WG3527712-6 DUP		WG3527712-5						
Antimony (Sb)		0.37	0.38		ug/g	4.5	30	03-MAY-21
Arsenic (As)		5.63	6.19		ug/g	9.4	30	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5446102								
WG3527712-6 DUP		WG3527712-			,			
Barium (Ba)		200	220		ug/g	9.2	40	03-MAY-21
Beryllium (Be)		0.76	0.83		ug/g	8.3	30	03-MAY-21
Boron (B)		12.7	12.9		ug/g	1.5	30	03-MAY-21
Cadmium (Cd)		0.218	0.224		ug/g	2.8	30	03-MAY-21
Chromium (Cr)		22.7	24.8		ug/g	8.6	30	03-MAY-21
Cobalt (Co)		10.5	11.7		ug/g	10	30	03-MAY-21
Copper (Cu)		73.0	80.6		ug/g	9.9	30	03-MAY-21
Lead (Pb)		10.9	12.0		ug/g	9.2	40	03-MAY-21
Molybdenum (Mo)		0.76	0.91		ug/g	17	40	03-MAY-21
Nickel (Ni)		24.7	27.3		ug/g	9.8	30	03-MAY-21
Selenium (Se)		<0.20	0.21	RPD-NA	ug/g	N/A	30	03-MAY-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	03-MAY-21
Thallium (TI)		0.120	0.121		ug/g	0.8	30	03-MAY-21
Uranium (U)		0.709	0.810		ug/g	13	30	03-MAY-21
Vanadium (V)		32.5	34.6		ug/g	6.5	30	03-MAY-21
Zinc (Zn)		84.1	91.8		ug/g	8.8	30	03-MAY-21
WG3527712-4 LCS								
Antimony (Sb)			115.5		%		80-120	03-MAY-21
Arsenic (As)			106.3		%		80-120	03-MAY-21
Barium (Ba)			105.2		%		80-120	03-MAY-21
Beryllium (Be)			98.3		%		80-120	03-MAY-21
Boron (B)			95.9		%		80-120	03-MAY-21
Cadmium (Cd)			101.8		%		80-120	03-MAY-21
Chromium (Cr)			103.7		%		80-120	03-MAY-21
Cobalt (Co)			102.0		%		80-120	03-MAY-21
Copper (Cu)			99.0		%		80-120	03-MAY-21
Lead (Pb)			106.6		%		80-120	03-MAY-21
Molybdenum (Mo)			104.0		%		80-120	03-MAY-21
Nickel (Ni)			101.6		%		80-120	03-MAY-21
Selenium (Se)			106.5		%		80-120	03-MAY-21
Silver (Ag)			94.1		%		80-120	03-MAY-21
Thallium (TI)			107.8		%		80-120	03-MAY-21
Uranium (U)			96.3		%		80-120	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5446102								
WG3527712-4 LCS					0/			
Vanadium (V)			104.9		%		80-120	03-MAY-21
Zinc (Zn)			100.3		%		80-120	03-MAY-21
WG3527712-1 MB Antimony (Sb)			<0.10		mg/kg		0.1	03-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	03-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	03-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	03-MAY-21
Boron (B)			<5.0		mg/kg		5	03-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	03-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	03-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	03-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	03-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	03-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	03-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	03-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	03-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	03-MAY-21
Thallium (TI)			< 0.050		mg/kg		0.05	03-MAY-21
Uranium (U)			< 0.050		mg/kg		0.05	03-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	03-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	03-MAY-21
Batch R5446104								
WG3527724-2 CRM		WT-SS-2						
Antimony (Sb)			100.1		%		70-130	03-MAY-21
Arsenic (As)			109.5		%		70-130	03-MAY-21
Barium (Ba)			94.7		%		70-130	03-MAY-21
Beryllium (Be)			101.2		%		70-130	03-MAY-21
Boron (B)			9.1		mg/kg		3.5-13.5	03-MAY-21
Cadmium (Cd)			96.4		%		70-130	03-MAY-21
Chromium (Cr)			106.8		%		70-130	03-MAY-21
Cobalt (Co)			101.8		%		70-130	03-MAY-21
Copper (Cu)			97.2		%		70-130	03-MAY-21
Lead (Pb)			104.3		%		70-130	03-MAY-21
Molybdenum (Mo)			97.6		%		70-130	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R54461	04							
WG3527724-2 CR	М	WT-SS-2			04			
Nickel (Ni)			100.6		%		70-130	03-MAY-21
Selenium (Se)			0.13		mg/kg		0-0.34	03-MAY-21
Silver (Ag)			91.3		%		70-130	03-MAY-21
Thallium (TI)			0.079		mg/kg			29 03-MAY-21
Uranium (U)			97.1		%		70-130	03-MAY-21
Vanadium (V)			105.2		%		70-130	03-MAY-21
Zinc (Zn)			97.1		%		70-130	03-MAY-21
WG3527724-6 DU Antimony (Sb)	P	WG3527724-5 0.15	i 0.15		ug/g	0.9	30	03-MAY-21
Arsenic (As)		9.75	9.32		ug/g	4.5	30	03-MAY-21
Barium (Ba)		183	179		ug/g	2.3	40	03-MAY-21
Beryllium (Be)		1.07	1.00		ug/g	6.6	30	03-MAY-21
Boron (B)		23.2	22.2		ug/g	4.4	30	03-MAY-21
Cadmium (Cd)		0.395	0.386		ug/g	2.4	30	03-MAY-21
Chromium (Cr)		44.1	42.6		ug/g	3.4	30	03-MAY-21
Cobalt (Co)		16.8	16.3		ug/g	3.2	30	03-MAY-21
Copper (Cu)		21.5	21.2		ug/g	1.3	30	03-MAY-21
Lead (Pb)		14.1	13.8		ug/g	1.8	40	03-MAY-21
Molybdenum (Mo)		1.11	1.11		ug/g	0.5	40	03-MAY-21
Nickel (Ni)		53.4	51.3		ug/g	4.0	30	03-MAY-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	03-MAY-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	03-MAY-21
Thallium (TI)		0.265	0.252		ug/g	5.2	30	03-MAY-21
Uranium (U)		0.818	0.775		ug/g	5.4	30	03-MAY-21
Vanadium (V)		52.4	51.6		ug/g	1.5	30	03-MAY-21
Zinc (Zn)		84.8	82.4		ug/g	2.9	30	03-MAY-21
WG3527724-4 LC	S							
Antimony (Sb)			106.4		%		80-120	03-MAY-21
Arsenic (As)			99.1		%		80-120	03-MAY-21
Barium (Ba)			92.7		%		80-120	03-MAY-21
Beryllium (Be)			93.7		%		80-120	03-MAY-21
Boron (B)			89.9		%		80-120	03-MAY-21
Cadmium (Cd)			96.1		%		80-120	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5446104								
WG3527724-4 LCS								
Chromium (Cr)			95.3		%		80-120	03-MAY-21
Cobalt (Co)			94.7		%		80-120	03-MAY-21
Copper (Cu)			93.2		%		80-120	03-MAY-21
Lead (Pb)			93.7		%		80-120	03-MAY-21
Molybdenum (Mo)			95.9		%		80-120	03-MAY-21
Nickel (Ni)			93.8		%		80-120	03-MAY-21
Selenium (Se)			101.5		%		80-120	03-MAY-21
Silver (Ag)			87.9		%		80-120	03-MAY-21
Thallium (TI)			99.7		%		80-120	03-MAY-21
Uranium (U)			87.8		%		80-120	03-MAY-21
Vanadium (V)			97.1		%		80-120	03-MAY-21
Zinc (Zn)			95.2		%		80-120	03-MAY-21
WG3527724-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	03-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	03-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	03-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	03-MAY-21
Boron (B)			<5.0		mg/kg		5	03-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	03-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	03-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	03-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	03-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	03-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	03-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	03-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	03-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	03-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	03-MAY-21
Uranium (U)			<0.050		mg/kg		0.05	03-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	03-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	03-MAY-21
MOISTURE WE	Se:I							

MOISTURE-WT Soil



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT	Soil							
Batch R5443525 WG3526741-3 DUP % Moisture		L2580541-21 18.1	17.8		%	1.4	20	30-APR-21
WG3526741-2 LCS % Moisture			100.3		%		90-110	30-APR-21
WG3526741-1 MB % Moisture			<0.25		%		0.25	30-APR-21
PAH-511-WT	Soil							
Batch R5443768								
WG3526746-3 DUP		WG3526746-5		DDD 11:		. 1/A	40	
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	30-APR-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	30-APR-21
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Fluoranthene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	30-APR-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	30-APR-21
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
WG3526746-2 LCS 1-Methylnaphthalene			92.9		%		50-140	30-APR-21
2-Methylnaphthalene			90.2		%		50-140	30-APR-21
Acenaphthene			88.8		%		50-140	30-APR-21
Acenaphthylene			85.4		%		50-140	30-APR-21
Anthracene			80.5		%		50-140	30-APR-21
Benzo(a)anthracene			92.0		%		50-140	30-APR-21
, ,			78.8		%		50-140	30-APR-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5443768								
WG3526746-2 LCS			<i>.</i>		0/			
Benzo(b&j)fluoranthene			77.4		%		50-140	30-APR-21
Benzo(g,h,i)perylene			82.8		%		50-140	30-APR-21
Benzo(k)fluoranthene			95.5		%		50-140	30-APR-21
Chrysene			89.6		%		50-140	30-APR-21
Dibenz(a,h)anthracene			82.5		%		50-140	30-APR-21
Fluoranthene			87.3		%		50-140	30-APR-21
Fluorene			87.4		%		50-140	30-APR-21
Indeno(1,2,3-cd)pyrene			85.9		%		50-140	30-APR-21
Naphthalene			88.0		%		50-140	30-APR-21
Phenanthrene			90.2		%		50-140	30-APR-21
Pyrene			87.0		%		50-140	30-APR-21
WG3526746-1 MB 1-Methylnaphthalene			<0.030		ug/g		0.03	30-APR-21
2-Methylnaphthalene			<0.030		ug/g		0.03	30-APR-21
Acenaphthene			<0.050		ug/g		0.05	30-APR-21
Acenaphthylene			<0.050		ug/g		0.05	30-APR-21
Anthracene			<0.050		ug/g		0.05	30-APR-21
Benzo(a)anthracene			<0.050		ug/g		0.05	30-APR-21
Benzo(a)pyrene			<0.050		ug/g		0.05	30-APR-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	30-APR-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	30-APR-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	30-APR-21
Chrysene			<0.050		ug/g		0.05	30-APR-21
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	30-APR-21
Fluoranthene			<0.050		ug/g		0.05	30-APR-21
Fluorene			<0.050		ug/g		0.05	30-APR-21
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	30-APR-21
Naphthalene			<0.013		ug/g		0.013	30-APR-21
Phenanthrene			<0.046		ug/g		0.046	30-APR-21
Pyrene			<0.050		ug/g		0.05	30-APR-21
Surrogate: 2-Fluorobiphe	enyl		92.9		%		50-140	30-APR-21
Surrogate: d14-Terpheny	/l		90.2		%		50-140	30-APR-21
WG3526746-4 MS 1-Methylnaphthalene		WG3526746-5	92.5		%		50-140	30-APR-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5443768								
WG3526746-4 MS 2-Methylnaphthalene		WG3526746-5	89.8		%		50-140	30-APR-21
Acenaphthene			89.1		%		50-140	30-APR-21
Acenaphthylene			85.0		%		50-140	30-APR-21
Anthracene			80.3		%		50-140	30-APR-21
Benzo(a)anthracene			94.7		%		50-140	30-APR-21
Benzo(a)pyrene			78.6		%		50-140	30-APR-21
Benzo(b&j)fluoranthene			88.6		%		50-140	30-APR-21
Benzo(g,h,i)perylene			73.1		%		50-140	30-APR-21
Benzo(k)fluoranthene			87.2		%		50-140	30-APR-21
Chrysene			88.7		%		50-140	30-APR-21
Dibenz(a,h)anthracene			74.4		%		50-140	30-APR-21
Fluoranthene			90.6		%		50-140	30-APR-21
Fluorene			88.2		%		50-140	30-APR-21
Indeno(1,2,3-cd)pyrene			80.9		%		50-140	30-APR-21
Naphthalene			86.9		%		50-140	30-APR-21
Phenanthrene			90.2		%		50-140	30-APR-21
Pyrene			90.9		%		50-140	30-APR-21
PH-WT	Soil							
Batch R5446223								
WG3526743-1 DUP		L2581807-7						
рН		7.96	8.03	J	pH units	0.07	0.3	03-MAY-21
WG3527906-1 LCS pH			6.93		pH units		0074	00 MAY 04
			0.93		pri units		6.9-7.1	03-MAY-21
SAR-R511-WT	Soil							
Batch R5445918		W00507744.0						
WG3527714-4 DUP Calcium (Ca)		WG3527714-3 47.9	41.4		mg/L	15	30	03-MAY-21
Sodium (Na)		28.7	27.2		mg/L	5.4	30	03-MAY-21
Magnesium (Mg)		17.2	14.7		mg/L	16	30	03-MAY-21
WG3527714-2 IRM		WT SAR4			Ŭ	-		
Calcium (Ca)			104.0		%		70-130	03-MAY-21
Sodium (Na)			93.0		%		70-130	03-MAY-21
Magnesium (Mg)			100.9		%		70-130	03-MAY-21
WG3527714-5 LCS								



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result Q	tualifier	Units	RPD	Limit	Analyzed
SAR-R511-WT		Soil							
Batch R	5445918								
WG3527714-5 Calcium (Ca)	LCS			109.0		%		80-120	03-MAY-21
Sodium (Na)				104.2		%		80-120	03-MAY-21
Magnesium (M	lg)			104.2		%		80-120	03-MAY-21
WG3527714-1 Calcium (Ca)	MB			<0.50		mg/L		0.5	03-MAY-21
Sodium (Na)				<0.50		mg/L		0.5	03-MAY-21
Magnesium (M	lg)			<0.50		mg/L		0.5	03-MAY-21
Batch R	5446105								
WG3527729-4	DUP		WG3527729-3						
Calcium (Ca)			1.46	1.63		mg/L	11	30	03-MAY-21
Sodium (Na)			330	338		mg/L	2.4	30	03-MAY-21
Magnesium (M	lg)		<0.50	<0.50	RPD-NA	mg/L	N/A	30	03-MAY-21
WG3527729-2 Calcium (Ca)	IRM		WT SAR4	98.4		%		70-130	03-MAY-21
Sodium (Na)				94.3		%		70-130	03-MAY-21
Magnesium (M	lg)			98.3		%		70-130	03-MAY-21
WG3527729-5	LCS								
Calcium (Ca)				108.3		%		80-120	03-MAY-21
Sodium (Na)				103.6		%		80-120	03-MAY-21
Magnesium (M	lg)			104.0		%		80-120	03-MAY-21
WG3527729-1 Calcium (Ca)	MB			<0.50		mg/L		0.5	03-MAY-21
Sodium (Na)				<0.50		mg/L		0.5	03-MAY-21
Magnesium (M	lg)			<0.50		mg/L		0.5	03-MAY-21
VOC-511-HS-WT		Soil							
Batch R	5450317								
WG3526811-4	DUP		WG3526811-3	.0.050	DDD 114		. 1/0	40	
1,1,1,2-Tetrach			<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,1,2,2-Tetrach		ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,1,1-Trichloro			<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,1,2-Trichloro			<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,1-Dichloroeth			<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,1-Dichloroeth	-		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,2-Dibromoeth	nane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5450317								
WG3526811-4 DUP		WG3526811-		555	/			
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,3-Dichlorobenzene		<0.050 <0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,4-Dichlorobenzene			<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	05-MAY-21
Benzene Bromodichloromethane		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	05-MAY-21
		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g ,	N/A	40	05-MAY-21
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g ,	N/A	40	05-MAY-21
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Dichlorodifluoromethan	е	<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	05-MAY-21
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	05-MAY-21
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	05-MAY-21
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	05-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	05-MAY-21
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	05-MAY-21
trans-1,2-Dichloroethyle	ene	<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
trans-1,3-Dichloroprope	ene	<0.030	<0.030	RPD-NA	ug/g	N/A	40	05-MAY-21
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	05-MAY-21
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Vinyl chloride		<0.020	<0.020		ug/g			05-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

No. Satur Soil Satur S450317 WG3526811-3 Vinyl chloride VG.020 VG.020 RPD-NA Ug/g N/A 40 05-MAY-21 Vinyl chloride VG.020 VG.020 RPD-NA Ug/g N/A 40 05-MAY-21 VG.526811-2 LCS VG.526811-3 VG.	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
WG3528811-4 DUP Vinyl chloride WG3528811-2 CCS CO.020 RPD-NA u/g/g N/A 40 05-MAY-21 1.1.1.2Tetrachloroethane 119.7 % 60-130 05-MAY-21 1.1.1.2Tetrachloroethane 117.0 % 60-130 05-MAY-21 1.1.1.2-Triichloroethane 117.0 % 60-130 05-MAY-21 1.1.1.2-Triichloroethane 119.0 % 60-130 05-MAY-21 1.1.1-Dichloroethane 119.0 % 60-130 05-MAY-21 1.1-Dichloroethane 118.7 % 60-130 05-MAY-21 1.2-Dibromoethane 118.7 % 60-130 05-MAY-21 1.2-Dichloroethane 118.8 % 70-130 05-MAY-21 1.2-Dichloroethane 123.6 % 60-130 05-MAY-21 1.2-Dichloroethane 121.6 % 70-130 05-MAY-21 1.2-Dichloroethane 121.6 % 70-130 05-MAY-21 1.2-Dichloroethane 121.6 % 70-130 05-MAY-21	VOC-511-HS-WT	Soil							
Wind chloride <0.020	Batch R545031	7							
1.1,1,2-Tetrachloroethane 119.7 % 60-130 05-MAY-21 1.1,2,2-Tetrachloroethane 124.7 % 60-130 05-MAY-21 1.1,1-Trichloroethane 117.0 % 60-130 05-MAY-21 1.1,1-Trichloroethane 119.0 % 60-130 05-MAY-21 1,1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1,2-Dichloroethylene 118.7 % 70-130 05-MAY-21 1,2-Dichloroethane 118.7 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloroptorpane 121.6 % 70-130 05-MAY-21 1,2-Dichloroptorpane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 116.3 % 70-130 05-MAY-21 1,4-Dichlorobenzene 140.0 % 70-130 05-MAY-21 Acetone 140.0 % 70-130 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 5		•			RPD-NA	ug/g	N/A	40	05-MAY-21
1.1.1-Trichloroethane 117.0 % 60-130 05-MAY-21 1.1,2-Trichloroethane 119.0 % 60-130 05-MAY-21 1.1-Dichloroethane 120.6 % 60-130 05-MAY-21 1.1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1.2-Dichlorobehane 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichlorobenzene 123.6 % 60-130 05-MAY-21 1,2-Dichloropenzene 121.6 % 70-130 05-MAY-21 1,2-Dichloropenzene 117.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 116.3 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 4,4-Dichlorobenzene 140.0 % 60-140 05-MAY-21 Berazene 118.8 % 70-130 05-MAY-21 Bromoform 132.9 LCS-ND % 5				119.7		%		60-130	05-MAY-21
1,1,2-Trichloroethane 119.0 % 60-130 05-MAY-21 1,1-Dichloroethane 120.6 % 60-130 05-MAY-21 1,1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1,2-Dibromoethane 118.7 % 70-130 05-MAY-21 1,2-Dibromoethane 118.7 % 70-130 05-MAY-21 1,2-Dichloroethylene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethylene 123.6 % 60-130 05-MAY-21 1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 116.3 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 1,4-Dichlorobenzene 118.8 % 70-130 05-MAY-21 1,4-Dichlorobenzene 118.8 % 70-130 05-MAY-21 1,4-Dichlorobenzene 119.8 % 70-130 05-MAY-21 1,4-Dichlorobenzene 120.9 % 70-130 05-MAY-21 1,4-Dichlorobenzene 120.0 % 70-130 05-MAY-21 1,4-Dichlorobenzene 1	1,1,2,2-Tetrachloroeth	nane		124.7		%		60-130	05-MAY-21
1.1-Dichloroethane 120.6 % 60-130 05-MAY-21 1.1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1.2-Dichlorobenzene 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroperbane 123.6 % 60-130 05-MAY-21 1,2-Dichloroperpane 121.6 % 70-130 05-MAY-21 1,2-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 70-130 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Bromomethane 112.9 % 70-130 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21	1,1,1-Trichloroethane			117.0		%		60-130	05-MAY-21
1,1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1,2-Dibromoethane 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromoform 130.4 % 50-140 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 Chloroformethane 122.5 % 70-130 05-MAY-21	1,1,2-Trichloroethane			119.0		%		60-130	05-MAY-21
1,2-Dibromoethane 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichlorobenzene 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromothane 112.9 % 50-140 05-MAY-21 Bromothane 112.9 % 50-140 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21	1,1-Dichloroethane			120.6		%		60-130	05-MAY-21
1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 Dibromochloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-2	1,1-Dichloroethylene			117.2		%		60-130	05-MAY-21
1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibriorodifluoromethane 118.2 % 60-130	1,2-Dibromoethane			118.7		%		70-130	05-MAY-21
1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 50-140 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 117.3 % 70-130	1,2-Dichlorobenzene			115.8		%		70-130	05-MAY-21
1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 Cis-1,2-Dichloroethylene 125.5 % 70-130 05-MAY-21 cis-1,2-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130	1,2-Dichloroethane			123.6		%		60-130	05-MAY-21
1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chloroform 123.0 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21	1,2-Dichloropropane			121.6		%		70-130	05-MAY-21
Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 <td>1,3-Dichlorobenzene</td> <td></td> <td></td> <td>117.6</td> <td></td> <td>%</td> <td></td> <td>70-130</td> <td>05-MAY-21</td>	1,3-Dichlorobenzene			117.6		%		70-130	05-MAY-21
Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 Chloroform 122.5 % 70-130 05-MAY-21 cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21	1,4-Dichlorobenzene			116.3		%		70-130	05-MAY-21
Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 M+p-Xylenes 122.6 % 70-130 05-	Acetone			140.0		%		60-140	05-MAY-21
Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 MTBE 111.8 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 </td <td>Benzene</td> <td></td> <td></td> <td>118.8</td> <td></td> <td>%</td> <td></td> <td>70-130</td> <td>05-MAY-21</td>	Benzene			118.8		%		70-130	05-MAY-21
Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 MTBE 111.8 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21 <td>Bromodichloromethan</td> <td>ie</td> <td></td> <td>130.4</td> <td></td> <td>%</td> <td></td> <td>50-140</td> <td>05-MAY-21</td>	Bromodichloromethan	ie		130.4		%		50-140	05-MAY-21
Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 MTBE 111.8 % 70-130 05-MAY-21 m+p-Xylenes 122.6 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	Bromoform			132.9	LCS-ND	%		70-130	05-MAY-21
Chlorobenzene 123.0 % 70-130 05-MAY-21 Chloroform 125.5 % 70-130 05-MAY-21 cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 MTBE 111.8 % 70-130 05-MAY-21 m+p-Xylenes 122.6 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	Bromomethane			112.9		%		50-140	05-MAY-21
Chloroform 125.5 % 70-130 05-MAY-21 cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 MTBE 111.8 % 70-130 05-MAY-21 m+p-Xylenes 122.6 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	Carbon tetrachloride			119.2		%		70-130	05-MAY-21
cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 MTBE 111.8 % 70-130 05-MAY-21 m+p-Xylenes 122.6 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	Chlorobenzene			123.0		%		70-130	05-MAY-21
cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 MTBE 111.8 % 70-130 05-MAY-21 m+p-Xylenes 122.6 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	Chloroform			125.5		%		70-130	05-MAY-21
Dibromochloromethane 118.2 % 60-130 05-MAY-21 Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 MTBE 111.8 % 70-130 05-MAY-21 m+p-Xylenes 122.6 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	cis-1,2-Dichloroethyle	ne		122.5		%		70-130	05-MAY-21
Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21 Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 MTBE 111.8 % 70-130 05-MAY-21 m+p-Xylenes 122.6 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	cis-1,3-Dichloroproper	ne		125.5		%		70-130	05-MAY-21
Ethylbenzene 117.3 % 70-130 05-MAY-21 n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 MTBE 111.8 % 70-130 05-MAY-21 m+p-Xylenes 122.6 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	Dibromochloromethan	ne		118.2		%		60-130	05-MAY-21
n-Hexane 110.9 % 70-130 05-MAY-21 Methylene Chloride 125.5 % 70-130 05-MAY-21 MTBE 111.8 % 70-130 05-MAY-21 m+p-Xylenes 122.6 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	Dichlorodifluorometha	ne		86.4		%		50-140	05-MAY-21
Methylene Chloride 125.5 % 70-130 05-MAY-21 MTBE 111.8 % 70-130 05-MAY-21 m+p-Xylenes 122.6 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	Ethylbenzene			117.3		%		70-130	05-MAY-21
MTBE 111.8 % 70-130 05-MAY-21 m+p-Xylenes 122.6 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	n-Hexane			110.9		%		70-130	05-MAY-21
m+p-Xylenes 122.6 % 70-130 05-MAY-21 Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	Methylene Chloride			125.5		%		70-130	05-MAY-21
Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21 Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	MTBE			111.8		%		70-130	05-MAY-21
Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21	m+p-Xylenes			122.6		%		70-130	05-MAY-21
	Methyl Ethyl Ketone			131.4		%		60-140	05-MAY-21
o-Xylene 129.9 % 70-130 05-MAY-21	Methyl Isobutyl Ketone	Э		118.6		%		60-140	05-MAY-21
	o-Xylene			129.9		%		70-130	05-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R54503	317							
WG3526811-2 LC	s		404.0		0/			
Styrene			121.9		%		70-130	05-MAY-21
Tetrachloroethylene			116.1		%		60-130	05-MAY-21
Toluene	h. da.a.a		117.0		%		70-130	05-MAY-21
trans-1,2-Dichloroetl	-		125.1		%		60-130	05-MAY-21
trans-1,3-Dichloropro	opene		121.5		%		70-130	05-MAY-21
Trichloroethylene			119.7		%		60-130	05-MAY-21
Trichlorofluorometha	ane		113.7		%		50-140	05-MAY-21
Vinyl chloride			114.1		%		60-140	05-MAY-21
WG3526811-1 ME 1,1,1,2-Tetrachloroe			<0.050		ug/g		0.05	05-MAY-21
1,1,2,2-Tetrachloroe	thane		<0.050		ug/g		0.05	05-MAY-21
1,1,1-Trichloroethan	e		<0.050		ug/g		0.05	05-MAY-21
1,1,2-Trichloroethan	е		<0.050		ug/g		0.05	05-MAY-21
1,1-Dichloroethane			< 0.050		ug/g		0.05	05-MAY-21
1,1-Dichloroethylene)		< 0.050		ug/g		0.05	05-MAY-21
1,2-Dibromoethane			< 0.050		ug/g		0.05	05-MAY-21
1,2-Dichlorobenzene	e		<0.050		ug/g		0.05	05-MAY-21
1,2-Dichloroethane			<0.050		ug/g		0.05	05-MAY-21
1,2-Dichloropropane	•		<0.050		ug/g		0.05	05-MAY-21
1,3-Dichlorobenzene	e		< 0.050		ug/g		0.05	05-MAY-21
1,4-Dichlorobenzene	e		< 0.050		ug/g		0.05	05-MAY-21
Acetone			<0.50		ug/g		0.5	05-MAY-21
Benzene			<0.0068		ug/g		0.0068	05-MAY-21
Bromodichlorometha	ane		< 0.050		ug/g		0.05	05-MAY-21
Bromoform			< 0.050		ug/g		0.05	05-MAY-21
Bromomethane			< 0.050		ug/g		0.05	05-MAY-21
Carbon tetrachloride	•		< 0.050		ug/g		0.05	05-MAY-21
Chlorobenzene			< 0.050		ug/g		0.05	05-MAY-21
Chloroform			< 0.050		ug/g		0.05	05-MAY-21
cis-1,2-Dichloroethyl	lene		< 0.050		ug/g		0.05	05-MAY-21
cis-1,3-Dichloroprop	ene		< 0.030		ug/g		0.03	05-MAY-21
Dibromochlorometha	ane		< 0.050		ug/g		0.05	05-MAY-21
Dichlorodifluorometh	nane		< 0.050		ug/g		0.05	05-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	05-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R545031	7							
WG3526811-1 MB			0.050				0.05	
n-Hexane			<0.050		ug/g		0.05 0.05	05-MAY-21
Methylene Chloride MTBE			<0.050 <0.050		ug/g		0.05	05-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	05-MAY-21
Methyl Ethyl Ketone			<0.50		ug/g ug/g		0.03	05-MAY-21
Methyl Isobutyl Ketone	2		<0.50		ug/g ug/g		0.5	05-MAY-21
o-Xylene	7		<0.020		ug/g ug/g		0.02	05-MAY-21
Styrene			<0.020		ug/g ug/g		0.02	05-MAY-21 05-MAY-21
Tetrachloroethylene			<0.050		ug/g ug/g		0.05	
Toluene			<0.080		ug/g ug/g		0.08	05-MAY-21 05-MAY-21
trans-1,2-Dichloroethy	lene		<0.050		ug/g ug/g		0.05	
trans-1,3-Dichloroprop			<0.030		ug/g ug/g		0.03	05-MAY-21 05-MAY-21
Trichloroethylene	one		<0.010		ug/g		0.01	05-MAY-21
Trichlorofluoromethan	e		<0.050		ug/g		0.05	05-MAY-21
Vinyl chloride			<0.020		ug/g		0.02	05-MAY-21
Surrogate: 1,4-Difluoro	obenzene		123.8		%		50-140	05-MAY-21
Surrogate: 4-Bromoflu			104.7		%		50-140	05-MAY-21
WG3526811-5 MS		WG3526811-3						00 W/(1 21
1,1,1,2-Tetrachloroeth	ane		126.1		%		50-140	05-MAY-21
1,1,2,2-Tetrachloroeth	ane		134.2		%		50-140	05-MAY-21
1,1,1-Trichloroethane			121.9		%		50-140	05-MAY-21
1,1,2-Trichloroethane			125.5		%		50-140	05-MAY-21
1,1-Dichloroethane			125.4		%		50-140	05-MAY-21
1,1-Dichloroethylene			124.1		%		50-140	05-MAY-21
1,2-Dibromoethane			123.7		%		50-140	05-MAY-21
1,2-Dichlorobenzene			125.8		%		50-140	05-MAY-21
1,2-Dichloroethane			128.6		%		50-140	05-MAY-21
1,2-Dichloropropane			123.9		%		50-140	05-MAY-21
1,3-Dichlorobenzene			127.1		%		50-140	05-MAY-21
1,4-Dichlorobenzene			125.3		%		50-140	05-MAY-21
Acetone			146.8	MES	%		50-140	05-MAY-21
Benzene			122.3		%		50-140	05-MAY-21
Bromodichloromethan	е		135.0		%		50-140	05-MAY-21
Bromoform			140.6	MES	%		50-140	05-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5450317	7							
WG3526811-5 MS		WG3526811-						
Bromomethane			119.9		%		50-140	05-MAY-21
Carbon tetrachloride			124.1		%		50-140	05-MAY-21
Chlorobenzene			130.3		%		50-140	05-MAY-21
Chloroform			130.6		%		50-140	05-MAY-21
cis-1,2-Dichloroethylen	ne		125.7		%		50-140	05-MAY-21
cis-1,3-Dichloropropen	e		123.7		%		50-140	05-MAY-21
Dibromochloromethan	е		124.6		%		50-140	05-MAY-21
Dichlorodifluoromethar	ne		114.4		%		50-140	05-MAY-21
Ethylbenzene			121.5		%		50-140	05-MAY-21
n-Hexane			120.3		%		50-140	05-MAY-21
Methylene Chloride			131.5		%		50-140	05-MAY-21
MTBE			123.7		%		50-140	05-MAY-21
m+p-Xylenes			130.1		%		50-140	05-MAY-21
Methyl Ethyl Ketone			126.2		%		50-140	05-MAY-21
Methyl Isobutyl Ketone			113.6		%		50-140	05-MAY-21
o-Xylene			135.0		%		50-140	05-MAY-21
Styrene			126.3		%		50-140	05-MAY-21
Tetrachloroethylene			120.2		%		50-140	05-MAY-21
Toluene			122.4		%		50-140	05-MAY-21
trans-1,2-Dichloroethyl	ene		129.9		%		50-140	05-MAY-21
trans-1,3-Dichloroprop	ene		123.1		%		50-140	05-MAY-21
Trichloroethylene			121.5		%		50-140	05-MAY-21
Trichlorofluoromethane	Э		123.2		%		50-140	05-MAY-21
Vinyl chloride			124.1		%		50-140	05-MAY-21

Report Date: 05-MAY-21 Workorder: L2581830

MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Legend:

ALS Control Limit (Data Quality Objectives)

DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample Standard Reference Material SRM

MS Matrix Spike

Matrix Spike Duplicate **MSD**

Average Desorption Efficiency ADE

Method Blank MB

Internal Reference Material IRM CRM Certified Reference Material Continuing Calibration Verification CCV CVS Calibration Verification Standard LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-ND	Lab Control Sample recovery was slightly outside ALS DQO. Reported non-detect results for associated samples were unaffected.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

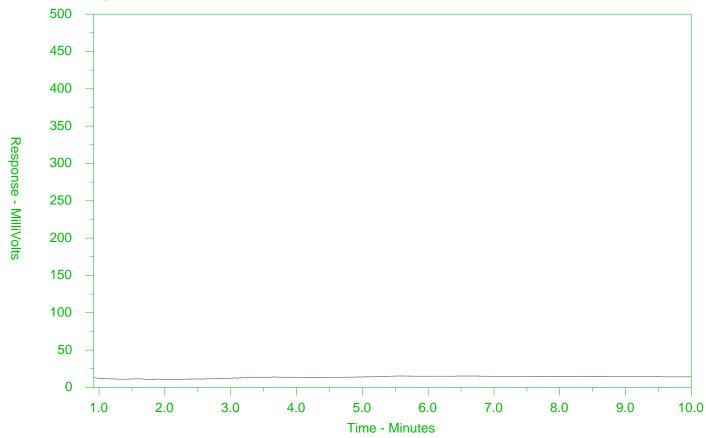
Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

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ALS Sample ID: L2581830-2

Client Sample ID: BH 139-21 SS2 2.5-4.5 FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

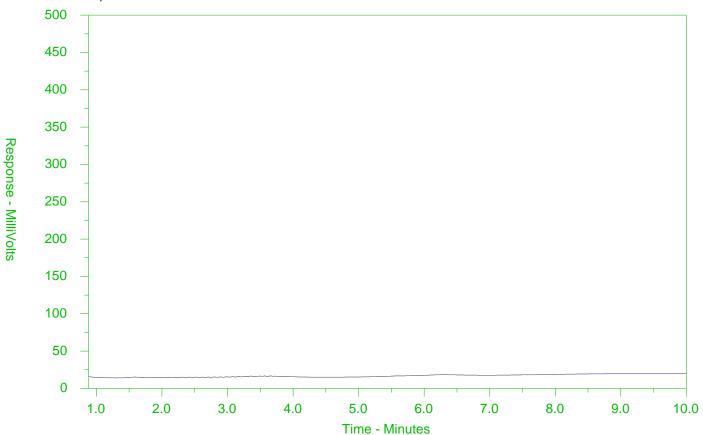
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2581830-4

Client Sample ID: BH 139-21 SS4 7.5-9.5 FT



← -F2-	→-	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

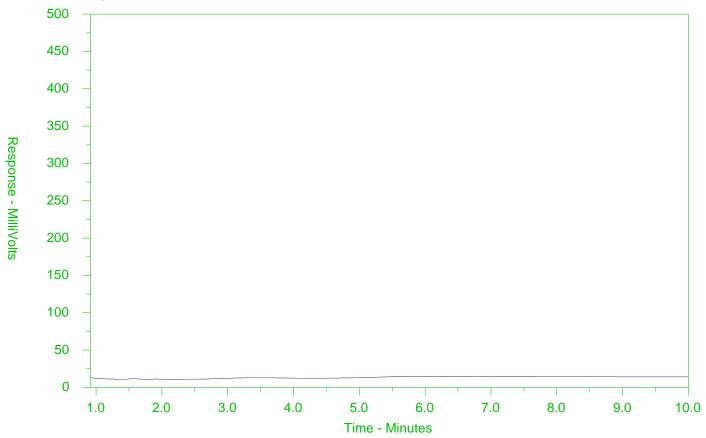
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2581830-12

Client Sample ID: BH 141-21 SS3 5-7 FT



← -F2-	→-	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

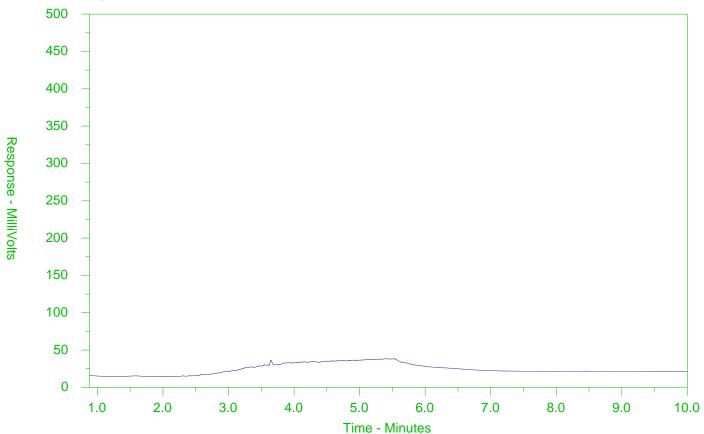
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2581830-15

Client Sample ID: BH 142-21 SS2 2.5-4.5 FT



← -F2-	→-	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

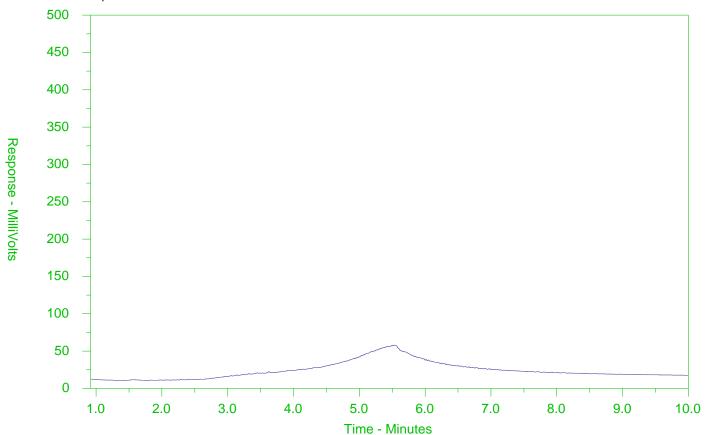
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2581830-19

Client Sample ID: BH 143-21 SS2 2.5-4.5 FT



← -F2-	→-	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



Chain of Custody (COC) / Analytical **Request Form**

COC Number: 17 - Page / of 3

Canada Tol

II Free: 1 800 668 9878	L2581830-CC

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Chain of Custody (COC) / Analytical Request Form

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Chain of Custody (COC) / Analytical Request Form Canada Toll Free: 1 800 668 9878

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MTE CONSULTANTS INC. (Kitchener)

ATTN: JEN LAMBKE

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Date Received: 29-APR-21

Report Date: 07-MAY-21 13:37 (MT)

Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2581807

Project P.O. #: NOT SUBMITTED

Job Reference: 46995-100

C of C Numbers: Legal Site Desc:

Comments: ADDITIONAL 29-APR-21 12:22

Emily Hansen Account Manager

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

ADDRESS: 60 Northland Road, Unit 1, Waterloo, ON N2V 2B8 Canada | Phone: +1 519 886 6910 | Fax: +1 519 886 9047

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L2581807 CONTD....

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,		Qualifier			Analyzou		Odideiiii	C LITHIG
.2581807-2 BH 133-21 SS2 2.5-4.5 FT	20							
Sampled By: MATT D on 27-APR-21 @ 09:3	30					#1	#2	
Matrix: SOIL								
Physical Tests								
Conductivity	1.74		0.0040	mS/cm	03-MAY-21	*0.57	*1.4	
% Moisture	8.70		0.25	%	30-APR-21			
Saturated Paste Extractables								
SAR	68.4	SAR:M	0.10	SAR	03-MAY-21	*2.4	*12	
Calcium (Ca)	1.93		0.50	mg/L	03-MAY-21			
Magnesium (Mg)	<0.50		0.50	mg/L	03-MAY-21			
Sodium (Na)	345		0.50	mg/L	03-MAY-21			
Metals								
Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-21	1.3	40	
Arsenic (As)	2.3		1.0	ug/g	03-MAY-21	18	18	
Barium (Ba)	24.0		1.0	ug/g	03-MAY-21	220	670	
Beryllium (Be)	<0.50		0.50	ug/g	03-MAY-21	2.5	8	
Boron (B)	<5.0		5.0	ug/g	03-MAY-21	36	120	
Boron (B), Hot Water Ext.	0.18		0.10	ug/g	03-MAY-21	36	2	
Cadmium (Cd)	<0.50		0.50	ug/g	03-MAY-21	1.2	1.9	
Chromium (Cr)	9.4		1.0	ug/g	03-MAY-21	70	160	
Cobalt (Co)	2.7		1.0	ug/g	03-MAY-21	21	80	
Copper (Cu)	11.1		1.0	ug/g	03-MAY-21	92	230	
Lead (Pb)	26.7		1.0	ug/g	03-MAY-21	120	120	
Mercury (Hg)	0.125		0.0050	ug/g	03-MAY-21	0.27	0.27	
Molybdenum (Mo)	<1.0		1.0	ug/g	03-MAY-21	2	40	
Nickel (Ni)	5.4		1.0	ug/g	03-MAY-21	82	270	
Selenium (Se)	<1.0		1.0	ug/g	03-MAY-21	1.5	5.5	
Silver (Ag)	<0.20		0.20	ug/g	03-MAY-21	0.5	40	
Thallium (TI)	<0.50		0.50	ug/g	03-MAY-21	1	3.3	
Uranium (U)	<1.0		1.0	ug/g	03-MAY-21	2.5	33	
Vanadium (V)	19.8		1.0	ug/g	03-MAY-21	86	86	
Zinc (Zn)	42.9		5.0	ug/g	03-MAY-21	290	340	
Speciated Metals								
Chromium, Hexavalent	<0.20		0.20	ug/g	04-MAY-21	0.66	8	
Volatile Organic Compounds								
Benzene	0.0069		0.0068	ug/g	07-MAY-21	0.02	0.034	
Ethylbenzene	<0.018		0.018	ug/g	07-MAY-21	0.05	1.9	
Toluene	<0.080		0.080	ug/g	07-MAY-21	0.2	7.8	
o-Xylene	<0.020		0.020	ug/g	07-MAY-21			
m+p-Xylenes	<0.030		0.030	ug/g	07-MAY-21			
Xylenes (Total)	<0.050		0.050	ug/g	07-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene	125.8		50-140	%	07-MAY-21			
Surrogate: 1,4-Difluorobenzene	128.7		50-140	%	07-MAY-21			
Hydrocarbons								
F1 (C6-C10)	<5.0		5.0	ug/g	07-MAY-21	25	25	
F1-BTEX	<5.0		5.0	ug/g	07-MAY-21	25	25	
F2 (C10-C16)	<10		10	ug/g	03-MAY-21	10	26	
F3 (C16-C34)	<50		50	ug/g	03-MAY-21	240	1700	
F4 (C34-C50)	<50		50	ug/g	03-MAY-21	120	3300	

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

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



L2581807 CONTD....

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6995-100	MALII	ICAL	GUID	LLINL	KEPUK	. I	0	Page 3 7-MAY-21 13	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed			ne Limits	
L2581807-2 BH 133-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 27-APR-21 @ 09:30									
Matrix: SOIL						#1	#2		
Hydrocarbons									
Total Hydrocarbons (C6-C50)	<72		72	ug/g	07-MAY-21				
Chrom. to baseline at nC50	YES 97.3		60-140	No Unit %	03-MAY-21 03-MAY-21				
Surrogate: 2-Bromobenzotrifluoride Surrogate: 3,4-Dichlorotoluene	97.3 112.8		60-140	% %	03-MAY-21				
•	112.0		00-140	/0	07-WA1-21				
_2581807-7 BH 134-21 SS3 5-7 FT									
Sampled By: MATT D on 27-APR-21 @ 10:40						44	#2		
Matrix: SOIL						#1 	#2		
Physical Tests									
Conductivity	1.64		0.0040	mS/cm	03-MAY-21	*0.57	*1.4		
% Moisture	8.40		0.25	%	30-APR-21				
pH	7.96		0.10	pH units	03-MAY-21				
Saturated Paste Extractables									
SAR	49.7	SAR:M	0.10	SAR	03-MAY-21	*2.4	*12		
Calcium (Ca)	3.06		0.50	mg/L	03-MAY-21				
Magnesium (Mg)	< 0.50		0.50	mg/L	03-MAY-21				
Sodium (Na)	316		0.50	mg/L	03-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-21	1.3	40		
Arsenic (As)	2.0		1.0	ug/g	03-MAY-21	18	18		
Barium (Ba)	16.1		1.0	ug/g	03-MAY-21	220	670		
Beryllium (Be)	< 0.50		0.50	ug/g	03-MAY-21	2.5	8		
Boron (B)	5.2		5.0	ug/g	03-MAY-21	36	120		
Cadmium (Cd)	<0.50		0.50	ug/g	03-MAY-21	1.2	1.9		
Chromium (Cr)	7.5		1.0	ug/g	03-MAY-21	70	160		
Cobalt (Co)	2.7		1.0	ug/g	03-MAY-21	21	80		
Copper (Cu)	9.2		1.0	ug/g	03-MAY-21	92	230		
Lead (Pb)	5.8		1.0	ug/g	03-MAY-21	120	120		
Molybdenum (Mo)	<1.0		1.0	ug/g	03-MAY-21	2	40		
Nickel (Ni)	5.5		1.0	ug/g	03-MAY-21	82	270		
Selenium (Se)	<1.0		1.0	ug/g	03-MAY-21	1.5	5.5		
Silver (Ag) Thallium (TI)	<0.20 <0.50		0.20 0.50	ug/g	03-MAY-21 03-MAY-21	0.5	40		
Uranium (U)	<1.0		1.0	ug/g ug/g	03-MAY-21	1 2.5	3.3 33		
Vanadium (V)	17.6		1.0	ug/g ug/g	03-MAY-21	2.5 86	33 86		
Zinc (Zn)	29.1		5.0	ug/g ug/g	03-MAY-21	290	340		
Volatile Organic Compounds	۷.۱		3.0	ug/g	00-1VI/11-21	230	J40		
Benzene	<0.0068		0.0068	ug/g	07-MAY-21	0.02	0.034		
Ethylbenzene	<0.008		0.008	ug/g ug/g	07-MAY-21	0.02	1.9		
Toluene	<0.018		0.018	ug/g ug/g	07-MAY-21	0.05	7.8		
o-Xylene	<0.020		0.020	ug/g ug/g	07-MAY-21	0.2	7.0		
m+p-Xylenes	<0.020		0.020	ug/g ug/g	07-MAY-21				
Xylenes (Total)	< 0.050		0.050	ug/g	07-MAY-21	0.05	3		
Surrogate: 4-Bromofluorobenzene	126.1		50-140	%	07-MAY-21		_		
Surrogate: 1,4-Difluorobenzene	121.6		50-140	%	07-MAY-21				
Hydrocarbons									

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

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



46995-100

ANALYTICAL GUIDELINE REPORT

L2581807 CONTD....

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46995-100 Sample Details							0	7-MAY-21 13:37 (MT)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits
L2581807-7 BH 134-21 SS3 5-7 FT								
Sampled By: MATT D on 27-APR-21 @ 10:40								
Matrix: SOIL						#1	#2	
Hydrocarbons								
	<5.0		F 0	/~	07-MAY-21	05	0.5	
F1 (C6-C10) F1-BTEX	<5.0 <5.0		5.0 5.0	ug/g	07-MAY-21	25 25	25 25	
F2 (C10-C16)	<5.0 <10		10	ug/g	07-MAY-21 03-MAY-21	25 10	25 26	
F3 (C16-C34)	< 10 < 50		50	ug/g	03-MAY-21		26 1700	
F4 (C34-C50)	<50 <50		50	ug/g ug/g	03-MAY-21	240 120	3300	
Total Hydrocarbons (C6-C50)	<50 <72		72	ug/g ug/g	03-MAY-21	120	3300	
Chrom. to baseline at nC50	YES		12	No Unit	03-MAY-21			
Surrogate: 2-Bromobenzotrifluoride	95.4		60-140	%	03-MAY-21			
Surrogate: 3,4-Dichlorotoluene	73.2		60-140	%	07-MAY-21			
L2581807-10 BH 135-21 SS2 2.5-4.5 FT								
Sampled By: MATT D on 27-APR-21 @ 11:35						#1	#2	
Matrix: SOIL						1		
Physical Tests								
% Moisture	6.22		0.25	%	30-APR-21			
Metals								
Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-21	1.3	40	
Arsenic (As)	3.7		1.0	ug/g	03-MAY-21	18	18	
Barium (Ba)	40.2		1.0	ug/g	03-MAY-21	220	670	
Beryllium (Be)	< 0.50		0.50	ug/g	03-MAY-21	2.5	8	
Boron (B)	5.0		5.0	ug/g	03-MAY-21	36	120	
Cadmium (Cd)	< 0.50		0.50	ug/g	03-MAY-21	1.2	1.9	
Chromium (Cr)	12.0		1.0	ug/g	03-MAY-21	70	160	
Cobalt (Co)	4.3		1.0	ug/g	03-MAY-21	21	80	
Copper (Cu)	17.5		1.0	ug/g	03-MAY-21	92	230	
Lead (Pb)	49.0		1.0	ug/g	03-MAY-21	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	03-MAY-21	2	40	
Nickel (Ni)	8.2		1.0	ug/g	03-MAY-21	82	270	
Selenium (Se)	<1.0		1.0	ug/g	03-MAY-21	1.5	5.5	
Silver (Ag)	< 0.20		0.20	ug/g	03-MAY-21	0.5	40	
Thallium (TI)	< 0.50		0.50	ug/g	03-MAY-21	1	3.3	
Uranium (U)	<1.0		1.0	ug/g	03-MAY-21	2.5	33	
Vanadium (V)	24.7		1.0	ug/g	03-MAY-21	86	86	
Zinc (Zn)	67.8		5.0	ug/g	03-MAY-21	290	340	
Volatile Organic Compounds								
Benzene	0.0259		0.0068	ug/g	07-MAY-21	*0.02	0.034	
Ethylbenzene	<0.018		0.018	ug/g	07-MAY-21	0.05	1.9	
Toluene	<0.080		0.080	ug/g	07-MAY-21	0.2	7.8	
o-Xylene	<0.020		0.020	ug/g	07-MAY-21			
m+p-Xylenes	< 0.030		0.030	ug/g	07-MAY-21			
Xylenes (Total)	<0.050		0.050	ug/g	07-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene	98.4		50-140	%	07-MAY-21			
Surrogate: 1,4-Difluorobenzene	99.9		50-140	%	07-MAY-21			
Hydrocarbons								
F1 (C6-C10)	<5.0		5.0	ug/g	07-MAY-21	25	25	
F1-BTEX	<5.0		5.0	ug/g	07-MAY-21	25	25	

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

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



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46995-100 07-MAY-21 13:37 (MT) Sample Details Qualifier D.L. Units Grouping Analyte Result Analyzed **Guideline Limits** L2581807-10 BH 135-21 SS2 2.5-4.5 FT Sampled By: MATT D on 27-APR-21 @ 11:35 #1 #2 Matrix: SOIL **Hvdrocarbons** F2 (C10-C16) 22 03-MAY-21 *10 26 10 ug/g F3 (C16-C34) 89 50 ug/g 03-MAY-21 240 1700 F4 (C34-C50) <50 50 ug/g 03-MAY-21 120 3300 72 07-MAY-21 Total Hydrocarbons (C6-C50) 111 ug/g YES Chrom. to baseline at nC50 No Unit 03-MAY-21 Surrogate: 2-Bromobenzotrifluoride 92.0 60-140 % 03-MAY-21 Surrogate: 3,4-Dichlorotoluene 79.5 60-140 % 07-MAY-21 L2581807-12 BH 135-21 SS4 7.5-9.5 FT Sampled By: MATT D on 27-APR-21 @ 11:55 #1 #2 Matrix: SOIL **Physical Tests** Conductivity 2.24 0.0040 mS/cm 03-MAY-21 *0.57 *1.4 % Moisture 9.98 0.25 % 30-APR-21 **Saturated Paste Extractables** 66.8 SAR:M 0.10 SAR 03-MAY-21 *2 4 *12 SAR Calcium (Ca) 3.38 0.50 mg/L 03-MAY-21 Magnesium (Mg) < 0.50 0.50 mg/L 03-MAY-21 Sodium (Na) 446 0.50 mg/L 03-MAY-21 **Volatile Organic Compounds** Benzene <0.0068 0.0068 07-MAY-21 0.02 0.034 ug/g Ethylbenzene <0.018 0.018 ug/g 07-MAY-21 0.05 1.9 Toluene <0.080 0.080 ug/g 07-MAY-21 0.2 7.8 < 0.020 0.020 07-MAY-21 o-Xylene ug/g m+p-Xylenes < 0.030 0.030 ug/g 07-MAY-21 < 0.050 0.050 07-MAY-21 0.05 Xylenes (Total) ug/g 3 50-140 07-MAY-21 Surrogate: 4-Bromofluorobenzene 112.1 % Surrogate: 1,4-Difluorobenzene 50-140 07-MAY-21 113.6 % **Hydrocarbons** F1 (C6-C10) 07-MAY-21 <5.0 5.0 25 25 ug/g F1-BTEX <5.0 5.0 07-MAY-21 25 ug/g 25 <10 03-MAY-21 26 F2 (C10-C16) 10 10 ug/g F3 (C16-C34) <50 50 ug/g 03-MAY-21 240 1700 F4 (C34-C50) <50 50 ug/g 03-MAY-21 120 3300 Total Hydrocarbons (C6-C50) <72 72 07-MAY-21 ug/g Chrom. to baseline at nC50 YES No Unit 03-MAY-21 Surrogate: 2-Bromobenzotrifluoride 93.7 60-140 % 03-MAY-21 Surrogate: 3,4-Dichlorotoluene 91.3 60-140 % 07-MAY-21 L2581807-15 BH 136-21 SS3 5-7 FT Sampled By: MATT D on 27-APR-21 @ 12:40 #1 #2 SOIL Matrix: **Physical Tests** 30-APR-21 % Moisture 7.44 0.25 % **Volatile Organic Compounds**

0.0100

0.0068

ug/g

07-MAY-21

Benzene

0.034

0.02

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

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



ANALYTICAL GUIDELINE REPORT

L2581807 CONTD....

Page 6 of 13 07-MAY-21 13:37 (MT)

46995-100							0	7-MAY-21 13:37 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits
L2581807-15 BH 136-21 SS3 5-7 FT								
Sampled By: MATT D on 27-APR-21 @ 12:40								
Matrix: SOIL						#1	#2	
Volatile Organic Compounds								
Ethylbenzene	<0.018		0.018	ug/g	07-MAY-21	0.05	1.9	
Toluene	<0.080		0.080	ug/g	07-MAY-21	0.2	7.8	
o-Xylene	< 0.020		0.020	ug/g	07-MAY-21			
m+p-Xylenes	< 0.030		0.030	ug/g	07-MAY-21			
Xylenes (Total)	< 0.050		0.050	ug/g	07-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene	112.3		50-140	%	07-MAY-21			
Surrogate: 1,4-Difluorobenzene	115.2		50-140	%	07-MAY-21			
Hydrocarbons								
F1 (C6-C10)	<5.0		5.0	ug/g	07-MAY-21	25	25	
F1-BTEX	<5.0		5.0	ug/g	07-MAY-21	25	25	
F2 (C10-C16)	<10		10	ug/g	03-MAY-21	10	26	
F3 (C16-C34)	<50		50	ug/g	03-MAY-21	240	1700	
F4 (C34-C50)	<50		50	ug/g	03-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	07-MAY-21	0	0000	
Chrom. to baseline at nC50	YES			No Unit	03-MAY-21			
Surrogate: 2-Bromobenzotrifluoride	92.0		60-140	%	03-MAY-21			
Surrogate: 3,4-Dichlorotoluene	89.4		60-140	%	07-MAY-21			
Matrix: SOIL Physical Tests						#1	#2	
-	4.00		0.0040		00 MAN 04	*0.F7	+4 4	
Conductivity % Moisture	1.68 12.8		0.0040 0.25	mS/cm %	03-MAY-21 30-APR-21	*0.57	*1.4	
Saturated Paste Extractables	12.0		0.25	70	30-AFR-21			
SAR	75.0	SAR:M	0.40	CAD	02 MAY 24	*0.4	*12	
	75.2 1.46	SAK.W	0.10	SAR	03-MAY-21 03-MAY-21	*2.4	12	
Calcium (Ca)	< 0.50		0.50 0.50	mg/L	03-MAY-21			
Magnesium (Mg) Sodium (Na)	330		0.50	mg/L mg/L	03-MAY-21			
Volatile Organic Compounds	330		0.50	IIIg/L	03-1017 1-21			
Benzene	<0.0068		0.0068	/	07 MAY 24	0.00	0.004	
				ug/g	07-MAY-21	0.02	0.034	
Ethylbenzene	<0.018		0.018	ug/g	07-MAY-21	0.05	1.9	
Toluene	<0.080		0.080	ug/g	07-MAY-21	0.2	7.8	
o-Xylene	<0.020		0.020	ug/g	07-MAY-21			
m+p-Xylenes	< 0.030		0.030	ug/g	07-MAY-21	0.05		
Xylenes (Total)	<0.050		0.050 50-140	ug/g	07-MAY-21 07-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene Surrogate: 1,4-Difluorobenzene	102.6 105.1		50-140	% %	07-MAY-21			
Hydrocarbons	103.1		30-140	/0	07-WA1-21			
F1 (C6-C10)	<5.0		5.0	110/0	07-MAY-21	05	25	
F1 (C6-C10) F1-BTEX	<5.0 <5.0		5.0	ug/g	07-MAY-21	25 25	25	
	<5.0 <10		10	ug/g		25 10	25	
F2 (C10-C16)				ug/g	03-MAY-21	10	26	
F3 (C16-C34)	<50		50	ug/g	03-MAY-21	240	1700	
F4 (C34-C50)	<50		50	ug/g	03-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	<72 YES		72	ug/g	07-MAY-21			
Chrom. to baseline at nC50	150		1	No Unit	03-MAY-21			

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

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



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6995-100	AINALII	ICAL	GOID	CLINE	KEFOR	. I	0	Page 7 7-MAY-21 1	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed			ne Limits	
_2581807-18 BH 137-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 27-APR-21 @ 14:45									
Matrix: SOIL						#1	#2		
Hydrocarbons									
Surrogate: 2-Bromobenzotrifluoride	97.8		60-140	%	03-MAY-21				
Surrogate: 3,4-Dichlorotoluene	86.4		60-140	%	03-MAY-21				
	00.1		00 140	70	07 107 (1 21				
_2581807-19 BH 137-21 SS3 5-7 FT									
Sampled By: MATT D on 27-APR-21 @ 14:50	1					#1	#2		
Matrix: SOIL									
Physical Tests									
% Moisture	14.3		0.25	%	30-APR-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	03-MAY-21	1.3	40		
Arsenic (As)	3.5		1.0	ug/g	03-MAY-21	18	18		
Barium (Ba)	61.0		1.0	ug/g	03-MAY-21	220	670		
Beryllium (Be)	<0.50		0.50	ug/g	03-MAY-21	2.5	8		
Boron (B)	9.5		5.0	ug/g	03-MAY-21	36	120		
Cadmium (Cd)	<0.50		0.50	ug/g	03-MAY-21	1.2	1.9		
Chromium (Cr)	17.3		1.0	ug/g	03-MAY-21	70	160		
Cobalt (Co)	7.1		1.0	ug/g	03-MAY-21	21	80		
Copper (Cu)	18.8		1.0	ug/g	03-MAY-21	92	230		
Lead (Pb)	7.7		1.0	ug/g	03-MAY-21	120	120		
Molybdenum (Mo)	<1.0		1.0	ug/g	03-MAY-21	2	40		
Nickel (Ni)	14.9		1.0	ug/g	03-MAY-21	82	270		
Selenium (Se)	<1.0		1.0	ug/g	03-MAY-21	1.5	5.5		
Silver (Ag)	<0.20		0.20	ug/g	03-MAY-21	0.5	40		
Thallium (TI)	<0.50		0.50	ug/g	03-MAY-21	1	3.3		
Uranium (U)	<1.0		1.0	ug/g	03-MAY-21	2.5	33		
Vanadium (V)	27.9		1.0	ug/g	03-MAY-21	86	86		
Zinc (Zn) Volatile Organic Compounds	44.6		5.0	ug/g	03-MAY-21	290	340		
	0.50		0.50		05 MAN/ 04	0.5			
Acetone	<0.50 <0.0068		0.50 0.0068	ug/g	05-MAY-21 05-MAY-21	0.5	1.8		
Benzene Bromodichloromethane			0.0068	ug/g	05-MAY-21	0.02	0.034		
Bromoform	<0.050 <0.050		0.050	ug/g	05-MAY-21	0.05 0.05	5.8 2.5		
Bromomethane	<0.050		0.050	ug/g ug/g	05-MAY-21	0.05	0.05		
Carbon tetrachloride	<0.050		0.050	ug/g ug/g	05-MAY-21	0.05	0.05		
Chlorobenzene	<0.050		0.050	ug/g ug/g	05-MAY-21	0.05	0.03		
Dibromochloromethane	<0.050		0.050	ug/g ug/g	05-MAY-21	0.05	5.5		
Chloroform	<0.050		0.050	ug/g	05-MAY-21	0.05	0.26		
1,2-Dibromoethane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
1,2-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-21	0.05	6.8		
1,3-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-21	0.05	6.8		
1,4-Dichlorobenzene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		
Dichlorodifluoromethane	<0.050		0.050	ug/g	05-MAY-21	0.05	1.8		
1,1-Dichloroethane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.57		
1,1 Diomoroculario									
1,2-Dichloroethane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05		

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

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



L2581807 CONTD....

Page 8 of 13 07-MAY-21 13-37 (MT)

6995-100	AINALII	IICAL	GUID		KEFOR	\ I	07	Page 8 of 1 7-MAY-21 13:37 (M
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guideline	
_2581807-19 BH 137-21 SS3 5-7 FT								
Sampled By: MATT D on 27-APR-21 @ 14:50								
Matrix: SOIL						#1	#2	
Volatile Organic Compounds				ļ ,				
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
Methylene Chloride	<0.050		0.050	ug/g	05-MAY-21	0.05	0.2	
1,2-Dichloropropane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-21			
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	05-MAY-21			
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	05-MAY-21	0.05	0.05	
Ethylbenzene	<0.018		0.018	ug/g	05-MAY-21	0.05	1.9	
n-Hexane	0.052		0.050	ug/g	05-MAY-21	*0.05	2.5	
Methyl Ethyl Ketone	<0.50		0.50	ug/g	05-MAY-21	0.5	26	
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	05-MAY-21	0.5	17	
MTBE	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
Styrene	<0.050		0.050	ug/g	05-MAY-21	0.05	6.8	
1,1,1,2-Tetrachloroethane	< 0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
1,1,2,2-Tetrachloroethane	< 0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
Tetrachloroethylene	<0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
Toluene	<0.080		0.080	ug/g	05-MAY-21	0.2	7.8	
1,1,1-Trichloroethane	<0.050		0.050	ug/g	05-MAY-21	0.05	0.4	
1,1,2-Trichloroethane	< 0.050		0.050	ug/g	05-MAY-21	0.05	0.05	
Trichloroethylene	<0.010		0.010	ug/g	05-MAY-21	0.05	0.05	
Trichlorofluoromethane	<0.050		0.050	ug/g	05-MAY-21	0.25	0.46	
Vinyl chloride	<0.020		0.020	ug/g	05-MAY-21	0.02	0.02	
o-Xylene	<0.020		0.020	ug/g	05-MAY-21			
m+p-Xylenes	< 0.030		0.030	ug/g	05-MAY-21			
Xylenes (Total)	<0.050		0.050	ug/g	05-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene	92.8		50-140	%	05-MAY-21			
Surrogate: 1,4-Difluorobenzene	114.0		50-140	%	05-MAY-21			
Hydrocarbons								
F1 (C6-C10)	<5.0		5.0	ug/g	05-MAY-21	25	25	
F1-BTEX	<5.0		5.0	ug/g	05-MAY-21	25	25	
F2 (C10-C16)	<10		10	ug/g	03-MAY-21	10	26	
F2-Naphth	<10		10	ug/g	05-MAY-21	10	20	
F3 (C16-C34)	<50		50	ug/g	03-MAY-21	240	1700	
F3-PAH	<50		50	ug/g	05-MAY-21	240	1700	
F4 (C34-C50)	<50 <50		50	ug/g	03-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	05-MAY-21	120		
Chrom. to baseline at nC50	YES		'-	No Unit	03-MAY-21			
Surrogate: 2-Bromobenzotrifluoride	93.8		60-140	%	03-MAY-21			
Surrogate: 3,4-Dichlorotoluene	82.4		60-140	%	05-MAY-21			
Polycyclic Aromatic Hydrocarbons				"				
Acenaphthene	<0.050		0.050	ug/g	30-APR-21	0.072	15	
Acenaphthylene	<0.050		0.050		30-APR-21	0.072	0.093	
Anthracene	<0.050		0.050	ug/g	30-APR-21		0.093	
				ug/g		0.16		
Benzo(a)anthracene	<0.050		0.050	ug/g	30-APR-21	0.36	1 1	
Benzo(a)pyrene	<0.050		0.050	ug/g	30-APR-21	0.3	0.7	
Benzo(b&j)fluoranthene	<0.050		0.050	ug/g	30-APR-21	0.47	7	

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

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



L2581807 CONTD.... Page 9 of 13

46995-100 07-MAY-21 13:37 (MT) Sample Details Qualifier D.L. Units Grouping Analyte Result Analyzed **Guideline Limits** L2581807-19 BH 137-21 SS3 5-7 FT Sampled By: MATT D on 27-APR-21 @ 14:50 #1 #2 Matrix: SOIL **Polycyclic Aromatic Hydrocarbons** < 0.050 0.050 30-APR-21 Benzo(g,h,i)perylene ug/g 0.68 13 Benzo(k)fluoranthene < 0.050 0.050 ug/g 30-APR-21 0.48 7 Chrysene < 0.050 0.050 30-APR-21 2.8 14 ug/g 0.050 30-APR-21 Dibenz(a,h)anthracene < 0.050 ug/g 0.1 0.7 Fluoranthene < 0.050 0.050 30-APR-21 ug/g 0.56 70 < 0.050 0.050 30-APR-21 Fluorene ug/g 0.12 6.8 30-APR-21 Indeno(1,2,3-cd)pyrene < 0.050 0.050 ug/g 0.23 0.76 30-APR-21 1+2-Methylnaphthalenes < 0.042 0.042 ug/g 0.59 8.7 1-Methylnaphthalene < 0.030 0.030 30-APR-21 ug/g 0.59 8.7 2-Methylnaphthalene < 0.030 0.030 30-APR-21 ug/g 0.59 8.7 30-APR-21 Naphthalene < 0.013 0.013 ug/g 0.09 1.8 Phenanthrene < 0.046 0.046 ug/g 30-APR-21 0.69 12 Pyrene < 0.050 0.050 ug/g 30-APR-21 70 1 85.2 50-140 % 30-APR-21 Surrogate: 2-Fluorobiphenyl Surrogate: d14-Terphenyl 85.0 50-140 % 30-APR-21 L2581807-22 BH 138-21 SS2 2.5-4.5 FT Sampled By: MATT D on 27-APR-21 @ 16:30 #1 #2 SOIL Matrix: **Physical Tests** pН 8.19 0.10 pH units 03-MAY-21 Metals Antimony (Sb) <1.0 1.0 ug/g 03-MAY-21 1.3 40 Arsenic (As) 3.4 1.0 ug/g 03-MAY-21 18 18 26.3 Barium (Ba) 03-MAY-21 220 670 1.0 ug/g Beryllium (Be) < 0.50 0.50 03-MAY-21 ug/g 2.5 8 03-MAY-21 Boron (B) 8.4 5.0 ug/g 36 120 Cadmium (Cd) < 0.50 0.50 ug/g 03-MAY-21 1.2 1.9 Chromium (Cr) 12.2 1.0 03-MAY-21 70 160 ug/g Cobalt (Co) 3.7 03-MAY-21 1.0 ug/g 21 80 23.6 03-MAY-21 Copper (Cu) 1.0 ug/g 92 230 19.7 03-MAY-21 Lead (Pb) 1.0 ug/g 120 120 Molybdenum (Mo) <1.0 1.0 ug/g 03-MAY-21 2 40 Nickel (Ni) 8.3 1.0 03-MAY-21 82 270 ug/g Selenium (Se) 03-MAY-21 <1.0 1.0 ug/g 1.5 5.5 Silver (Ag) <0.20 0.20 03-MAY-21 ug/g 0.5 40 03-MAY-21 Thallium (TI) < 0.50 0.50 ug/g 3.3 1 Uranium (U) <1.0 1.0 ug/g 03-MAY-21 2.5 33 Vanadium (V) 16.0 1.0 03-MAY-21 86 86 ug/g 85.8 5.0 03-MAY-21 Zinc (Zn) ug/g 290 340 L2581807-24 BH 138-21 SS4 7.5-9.5 FT Sampled By: MATT D on 27-APR-21 @ 16:40 #1 #2 SOIL Matrix: **Physical Tests**

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

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



L2581807 CONTD.... Page 10 of 13

46995-100 07-MAY-21 13:37 (MT) Sample Details Units Grouping Analyte Result Qualifier D.L. Analyzed **Guideline Limits** L2581807-24 BH 138-21 SS4 7.5-9.5 FT Sampled By: MATT D on 27-APR-21 @ 16:40 #1 #2 Matrix: SOIL **Physical Tests** 16.8 0.25 30-APR-21 % Moisture % **Volatile Organic Compounds** 05-MAY-21 Acetone < 0.50 0.50 0.5 ug/g 1.8 Benzene <0.0068 0.0068 05-MAY-21 0.02 0.034 ug/g Bromodichloromethane < 0.050 0.050 05-MAY-21 5.8 0.05 ug/g 05-MAY-21 0.050 Bromoform < 0.050 ug/g 0.05 2.5 Bromomethane < 0.050 0.050 ug/g 05-MAY-21 0.05 0.05 Carbon tetrachloride < 0.050 0.050 05-MAY-21 ug/g 0.05 0.05 Chlorobenzene < 0.050 0.050 ug/g 05-MAY-21 0.05 0.28 Dibromochloromethane < 0.050 0.050 05-MAY-21 0.05 5.5 ug/g Chloroform < 0.050 0.050 ug/g 05-MAY-21 0.05 0.26 1,2-Dibromoethane < 0.050 0.050 ug/g 05-MAY-21 0.05 0.05 0.050 05-MAY-21 1,2-Dichlorobenzene < 0.050 0.05 6.8 ug/g 1.3-Dichlorobenzene < 0.050 0.050 05-MAY-21 ug/g 0.05 6.8 < 0.050 0.050 05-MAY-21 0.05 1 4-Dichlorobenzene ug/g 0.05 Dichlorodifluoromethane < 0.050 0.050 ug/g 05-MAY-21 0.05 1.8 1,1-Dichloroethane < 0.050 0.050 ug/g 05-MAY-21 0.05 0.57 0.050 05-MAY-21 1,2-Dichloroethane < 0.050 ug/g 0.05 0.05 1,1-Dichloroethylene < 0.050 0.050 ug/g 05-MAY-21 0.05 0.05 cis-1,2-Dichloroethylene < 0.050 0.050 05-MAY-21 0.05 ug/g 0.05 trans-1,2-Dichloroethylene < 0.050 0.050 05-MAY-21 0.05 0.05 ug/g Methylene Chloride < 0.050 0.050 ug/g 05-MAY-21 0.05 0.2 05-MAY-21 1,2-Dichloropropane < 0.050 0.050 0.05 0.05 ug/g cis-1,3-Dichloropropene < 0.030 0.030 ug/g 05-MAY-21 trans-1,3-Dichloropropene < 0.030 0.030 ug/g 05-MAY-21 1,3-Dichloropropene (cis & trans) < 0.042 0.042 05-MAY-21 0.05 0.05 ug/g Ethylbenzene < 0.018 0.018 05-MAY-21 0.05 ug/g 1.9 n-Hexane < 0.050 0.050 05-MAY-21 ug/g 0.05 25 05-MAY-21 Methyl Ethyl Ketone < 0.50 0.50 ug/g 0.5 26 Methyl Isobutyl Ketone < 0.50 0.50 ug/g 05-MAY-21 0.5 17 MTBE < 0.050 0.050 05-MAY-21 0.05 0.05 ug/g Styrene < 0.050 0.050 05-MAY-21 ug/g 0.05 6.8 < 0.050 0.050 05-MAY-21 0.05 1,1,1,2-Tetrachloroethane 0.05 ug/g 1,1,2,2-Tetrachloroethane < 0.050 0.050 ug/g 05-MAY-21 0.05 0.05 Tetrachloroethylene < 0.050 0.050 ug/g 05-MAY-21 0.05 0.05 <0.080 0.080 05-MAY-21 Toluene ug/g 0.2 7.8 1,1,1-Trichloroethane < 0.050 0.050 05-MAY-21 ug/g 0.05 0.4 1,1,2-Trichloroethane < 0.050 0.050 05-MAY-21 ug/g 0.05 0.05 Trichloroethylene < 0.010 0.010 ug/g 05-MAY-21 0.05 0.05 Trichlorofluoromethane < 0.050 0.050 ug/g 05-MAY-21 0.25 0.46 Vinyl chloride < 0.020 0.020 05-MAY-21 0.02 0.02 ug/g o-Xylene < 0.020 0.020 05-MAY-21 ug/g m+p-Xylenes < 0.030 0.030 ug/g 05-MAY-21 Xylenes (Total) < 0.050 0.050 ug/g 05-MAY-21 0.05 3 Surrogate: 4-Bromofluorobenzene 100.2 50-140 % 05-MAY-21

125.1

50-140

%

05-MAY-21

Surrogate: 1,4-Difluorobenzene

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

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

Reference Information

Sample Parameter Qualifier key listed:

Qualifier Description

SAR:M Reported SAR represents a maximum value. Actual SAR may be lower if both Ca and Mg were detectable.

Methods Listed (if applicable):

ALS Test Code Matrix Test Description Method Reference***

B-HWS-R511-WT Soil Boron-HWE-O.Reg 153/04 (July HW EXTR, EPA 6010B

A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

BTX-511-HS-WT Soil BTEX-O.Reg 153/04 (July 2011) SW846 8260

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-WT Soil Hexavalent Chromium in Soil SW846 3060A/7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-WT Soil Conductivity (EC) MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

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

Parameters

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

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene. Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
- 3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
- 4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT Soil F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

F2-F4-511-WT

Soil

F2-F4-O.Reg 153/04 (July 2011) CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:

- 1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- 2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- 3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
- 4. F4G: Gravimetric Heavy Hydrocarbons
- 5. F4G-sq: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
- 6. Where both F4 (C34-C50) and F4G-sq are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
- 7. F4G-sq cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
- 8. This method is validated for use.
- 9. Data from analysis of validation and quality control samples is available upon request.
- 10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

HG-200.2-CVAA-WT

Soil

Mercury in Soil by CVAAS

EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-200.2-CCMS-WT

Metals in Soil by CRC ICPMS

EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Soil

ABN-Calculated Parameters

SW846 8270

MOISTURE-WT

Soil

% Moisture

CCME PHC in Soil - Tier 1 (mod)

PAH-511-WT

Soil

PAH-O.Reg 153/04 (July 2011)

SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking techniqueis used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT

Soil

MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

SAR-R511-WT

Soil

SAR-O.Reg 153/04 (July 2011) SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

VOC-1,3-DCP-CALC-WT Soil

Regulation 153 VOCs

SW8260B/SW8270C

Reference Information

VOC-511-HS-WT

Soil

VOC-O.Reg 153/04 (July 2011) SW846 8260 (511)

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

must be reported).

XYLENES-SUM-CALC-

Soil

Sum of Xylene Isomer Concentrations

CALCULATION

MITELINEO OOM OALC

Concontiations

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

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

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

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



Workorder: L2581807 Report Date: 07-MAY-21 Page 1 of 21

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
D LIME DE44 MT	es:I							
B-HWS-R511-WT Batch R54	Soil 445879							
WG3527727-4 Boron (B), Hot V	DUP	L2580237-1 <0.10	<0.10	RPD-NA	ug/g	N/A	30	03-MAY-21
WG3527727-2 Boron (B), Hot V	IRM Vater Ext.	WT SAR4	100.3		%		70-130	03-MAY-21
WG3527727-3 Boron (B), Hot V	LCS Vater Ext.		105.0		%		70-130	03-MAY-21
WG3527727-1 Boron (B), Hot V	MB Vater Ext.		<0.10		ug/g		0.1	03-MAY-21
BTX-511-HS-WT	Soil							
Batch R54	454064							
WG3526484-4 Benzene	DUP	WG3526484-3 <0.0068	<0.0068	RPD-NA	ug/g	N/A	40	07-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	07-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	07-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	07-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	07-MAY-21
WG3526484-2 Benzene	LCS		93.7		%		70-130	07-MAY-21
Ethylbenzene			82.6		%		70-130	07-MAY-21
m+p-Xylenes			84.9		%		70-130	07-MAY-21
o-Xylene			84.8		%		70-130	07-MAY-21
Toluene			85.2		%		70-130	07-MAY-21
WG3526484-1 Benzene	MB		<0.0068		ug/g		0.0068	07-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	07-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	07-MAY-21
o-Xylene			<0.020		ug/g		0.02	07-MAY-21
Toluene			<0.080		ug/g		0.08	07-MAY-21
Surrogate: 1,4-D	ifluorobenzene		114.2		%		50-140	07-MAY-21
Surrogate: 4-Bro	omofluorobenzene		114.4		%		50-140	07-MAY-21
WG3526484-5 Benzene	MS	WG3526484-3	109.3		%		60-140	07-MAY-21
Ethylbenzene			89.4		%		60-140	07-MAY-21
m+p-Xylenes			94.8		%		60-140	07-MAY-21
o-Xylene			94.2		%		60-140	07-MAY-21
Toluene			94.3		%		60-140	07-MAY-21



Qualifier

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Units

RPD

Limit

Analyzed

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

Reference

Result

KITCHENER ON N2B 3X9

Matrix

Contact: JEN LAMBKE

Test

CR-CR6-IC-WT		Soil							
Batch R56 WG3527738-4 Chromium, Hex	447879 CRM avalent		WT-SQC012	100.5		%		70-130	04-MAY-21
WG3527738-3 Chromium, Hex	DUP avalent		L2581807-2 <0.20	<0.20	RPD-NA	ug/g	N/A	35	04-MAY-21
WG3527738-2 Chromium, Hex				95.5		%		80-120	04-MAY-21
WG3527738-1 Chromium, Hex	MB avalent			<0.20		ug/g		0.2	04-MAY-21
EC-WT		Soil							
Batch R5	445497								
WG3527714-4 Conductivity	DUP		WG3527714-3 0.491	0.449		mS/cm	8.9	20	03-MAY-21
WG3527714-2 Conductivity	IRM		WT SAR4	104.0		%		70-130	03-MAY-21
WG3527895-1 Conductivity	LCS			96.7		%		90-110	03-MAY-21
WG3527714-1 Conductivity	MB			<0.0040		mS/cm		0.004	03-MAY-21
Batch R5	445883								
WG3527729-4 Conductivity	DUP		WG3527729-3 1.68	1.70		mS/cm	1.4	20	03-MAY-21
WG3527729-2 Conductivity	IRM		WT SAR4	100.8		%		70-130	03-MAY-21
WG3527893-1 Conductivity	LCS			96.5		%		90-110	03-MAY-21
WG3527729-1 Conductivity	MB			<0.0040		mS/cm		0.004	03-MAY-21
F1-HS-511-WT		Soil							
Batch R5	450317								
WG3526811-4 F1 (C6-C10)	DUP		WG3526811-3 <5.0	<5.0	RPD-NA	ug/g	N/A	30	05-MAY-21
WG3526811-2 F1 (C6-C10)	LCS			100.2		%		80-120	05-MAY-21
WG3526811-1 F1 (C6-C10)	МВ			<5.0		ug/g		5	05-MAY-21
	Nichloroto	duene		88.8		%		60-140	05-MAY-21
Surrogate: 3,4-E	אטוטוטוטונ	nacric		00.0		70		00 140	03-1017(1-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT		Soil							
Batch R5	450317								
WG3526811-5 F1 (C6-C10)	MS		WG3526811-3	100.1		%		60-140	05-MAY-21
Batch R5	454064								
WG3526484-4 F1 (C6-C10)	DUP		WG3526484-3 <5.0	<5.0	RPD-NA	ug/g	N/A	30	07-MAY-21
WG3526484-2 F1 (C6-C10)	LCS			96.7		%		80-120	07-MAY-21
WG3526484-1	МВ								
F1 (C6-C10)				<5.0		ug/g		5	07-MAY-21
Surrogate: 3,4-I		oluene		97.3		%		60-140	07-MAY-21
WG3526484-5 F1 (C6-C10)	MS		WG3526484-3	97.0		%		60-140	07-MAY-21
F2-F4-511-WT		Soil							
Batch R5	445396								
WG3526745-8 F2 (C10-C16)	DUP		WG3526745-1 0) <10	RPD-NA	ug/g	N/A	30	03-MAY-21
F3 (C16-C34)			<50	<50	RPD-NA	ug/g ug/g	N/A N/A	30	03-MAY-21
F4 (C34-C50)			<50	<50	RPD-NA	ug/g ug/g	N/A	30	03-MAY-21
WG3526745-7	LCS		\ 30	\ 00	RPD-NA	ug/g	IN/A	30	03-WAT-21
F2 (C10-C16)	LOG			98.8		%		80-120	03-MAY-21
F3 (C16-C34)				98.4		%		80-120	03-MAY-21
F4 (C34-C50)				94.0		%		80-120	03-MAY-21
WG3526745-6	MB								
F2 (C10-C16)				<10		ug/g		10	03-MAY-21
F3 (C16-C34)				<50		ug/g		50	03-MAY-21
F4 (C34-C50)				<50		ug/g		50	03-MAY-21
Surrogate: 2-Br		zotrifluoride		97.3		%		60-140	03-MAY-21
WG3526745-9 F2 (C10-C16)	MS		WG3526745-1) 93.3		%		60-140	03-MAY-21
F3 (C16-C34)				96.4		%		60-140	03-MAY-21
F4 (C34-C50)				91.8		%		60-140	03-MAY-21
HG-200.2-CVAA-W	т	Soil						55 1 10	30 21
	444839	JU.:							
WG3527724-2 Mercury (Hg)	CRM		WT-SS-2	123.6		%		70-130	03-MAY-21
WG3527724-6	DUP		WG3527724-5					70 100	00 W// 1 21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-200.2-CVAA-W	г	Soil							
Batch R54	444839								
WG3527724-6 Mercury (Hg)	DUP		WG3527724-5 0.0299	0.0330		ug/g	9.8	40	03-MAY-21
WG3527724-3 Mercury (Hg)	LCS			98.5		%		80-120	03-MAY-21
WG3527724-1 Mercury (Hg)	MB			<0.0050		mg/kg		0.005	03-MAY-21
MET-200.2-CCMS-V	VΤ	Soil							
Batch R54	445917								
WG3527718-2	CRM		WT-SS-2	112.6		0/		70.400	00 MAN 04
Antimony (Sb)				111.0		%		70-130	03-MAY-21
Arsenic (As) Barium (Ba)				104.5		%		70-130	03-MAY-21
Beryllium (Be)				112.5		%		70-130 70-130	03-MAY-21
Boron (B)				10.4		mg/kg		3.5-13.5	03-MAY-21 03-MAY-21
Cadmium (Cd)				99.9		%		70-130	03-MAY-21
Chromium (Cr)				116.4		%		70-130	03-MAY-21
Cobalt (Co)				107.3		%		70-130	03-MAY-21
Copper (Cu)				106.7		%		70-130	03-MAY-21
Lead (Pb)				106.1		%		70-130	03-MAY-21
Molybdenum (M	o)			112.4		%		70-130	03-MAY-21
Nickel (Ni)	,			105.2		%		70-130	03-MAY-21
Selenium (Se)				0.13		mg/kg		0-0.34	03-MAY-21
Silver (Ag)				112.4		%		70-130	03-MAY-21
Thallium (TI)				0.084		mg/kg		0.029-0.129	03-MAY-21
Uranium (U)				100.5		%		70-130	03-MAY-21
Vanadium (V)				112.2		%		70-130	03-MAY-21
Zinc (Zn)				99.8		%		70-130	03-MAY-21
WG3527718-4	DUP		L2582553-1						
Antimony (Sb)			<1.0	<1.0	RPD-NA	ug/g	N/A	30	03-MAY-21
Arsenic (As)			6.5	6.1		ug/g	6.2	30	03-MAY-21
Barium (Ba)			114	108		ug/g	4.9	40	03-MAY-21
Beryllium (Be)			0.88	0.90		ug/g	2.3	30	03-MAY-21
Boron (B)			15.9	15.5		ug/g	2.4	30	03-MAY-21
Cadmium (Cd)			<0.50	<0.50	RPD-NA	ug/g	N/A	30	03-MAY-21
Chromium (Cr)			31.5	30.1		ug/g	4.3	30	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-W	/T	Soil							
Batch R54	45917								
WG3527718-4	DUP		L2582553-1	44.4		/~		00	
Cobalt (Co)			12.0	11.4		ug/g	5.7	30	03-MAY-21
Copper (Cu)			31.1	29.7		ug/g	4.4	30	03-MAY-21
Lead (Pb)	,		24.4	24.2		ug/g	0.9	40	03-MAY-21
Molybdenum (Mo	0)		<1.0	<1.0	RPD-NA	ug/g	N/A	40	03-MAY-21
Nickel (Ni)			28.3	26.9		ug/g	5.1	30	03-MAY-21
Selenium (Se)			<1.0	<1.0	RPD-NA	ug/g	N/A	30	03-MAY-21
Silver (Ag)			<0.20	<0.20	RPD-NA	ug/g	N/A	40	03-MAY-21
Thallium (TI)			<0.50	<0.50	RPD-NA	ug/g	N/A	30	03-MAY-21
Uranium (U)			<1.0	<1.0	RPD-NA	ug/g	N/A	30	03-MAY-21
Vanadium (V)			42.5	41.3		ug/g	2.8	30	03-MAY-21
Zinc (Zn)			92.2	88.6		ug/g	4.0	30	03-MAY-21
WG3527718-3 Antimony (Sb)	LCS			104.7		%		80-120	03-MAY-21
Arsenic (As)				101.3		%		80-120	03-MAY-21
Barium (Ba)				96.5		%		80-120	03-MAY-21
Beryllium (Be)				94.7		%		80-120	03-MAY-21
Boron (B)				93.2		%		80-120	03-MAY-21
Cadmium (Cd)				98.3		%		80-120	03-MAY-21
Chromium (Cr)				98.1		%		80-120	03-MAY-21
Cobalt (Co)				98.2		%		80-120	03-MAY-21
Copper (Cu)				96.8		%		80-120	03-MAY-21
Lead (Pb)				98.3		%		80-120	03-MAY-21
Molybdenum (Mo	o)			95.7		%		80-120	03-MAY-21
Nickel (Ni)				97.3		%		80-120	03-MAY-21
Selenium (Se)				99.2		%		80-120	03-MAY-21
Silver (Ag)				86.2		%		80-120	03-MAY-21
Thallium (TI)				100.4		%		80-120	03-MAY-21
Uranium (U)				89.2		%		80-120	03-MAY-21
Vanadium (V)				100.7		%		80-120	03-MAY-21
Zinc (Zn)				93.8		%		80-120	03-MAY-21
WG3527718-1	МВ								
Antimony (Sb)				<0.10		mg/kg		0.1	03-MAY-21
Arsenic (As)				<0.10		mg/kg		0.1	03-MAY-21
Barium (Ba)				<0.50		mg/kg		0.5	



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5445917								
WG3527718-1 MB					,			
Barium (Ba)			<0.50		mg/kg		0.5	03-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	03-MAY-21
Boron (B)			<5.0		mg/kg		5	03-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	03-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	03-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	03-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	03-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	03-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	03-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	03-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	03-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	03-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	03-MAY-21
Uranium (U)			< 0.050		mg/kg		0.05	03-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	03-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	03-MAY-21
Batch R5446104								
WG3527724-2 CRM		WT-SS-2	100.4		0/			
Antimony (Sb)			100.1		%		70-130	03-MAY-21
Arsenic (As)			109.5		%		70-130	03-MAY-21
Barium (Ba)			94.7		%		70-130	03-MAY-21
Beryllium (Be)			101.2		%		70-130	03-MAY-21
Boron (B)			9.1		mg/kg		3.5-13.5	03-MAY-21
Cadmium (Cd)			96.4		%		70-130	03-MAY-21
Chromium (Cr)			106.8		%		70-130	03-MAY-21
Cobalt (Co)			101.8		%		70-130	03-MAY-21
Copper (Cu)			97.2		%		70-130	03-MAY-21
Lead (Pb)			104.3		%		70-130	03-MAY-21
Molybdenum (Mo)			97.6		%		70-130	03-MAY-21
Nickel (Ni)			100.6		%		70-130	03-MAY-21
Selenium (Se)			0.13		mg/kg		0-0.34	03-MAY-21
Silver (Ag)			91.3		%		70-130	03-MAY-21
Thallium (TI)			0.079		mg/kg		0.029-0.129	03-MAY-21
Uranium (U)			97.1		%		70-130	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5446104								
WG3527724-2 CRM		WT-SS-2	105.0		0/			
Vanadium (V)			105.2		%		70-130	03-MAY-21
Zinc (Zn)		W00507704.5	97.1		%		70-130	03-MAY-21
WG3527724-6 DUP Antimony (Sb)		WG3527724-5 0.15	0.15		ug/g	0.9	30	03-MAY-21
Arsenic (As)		9.75	9.32		ug/g	4.5	30	03-MAY-21
Barium (Ba)		183	179		ug/g	2.3	40	03-MAY-21
Beryllium (Be)		1.07	1.00		ug/g	6.6	30	03-MAY-21
Boron (B)		23.2	22.2		ug/g	4.4	30	03-MAY-21
Cadmium (Cd)		0.395	0.386		ug/g	2.4	30	03-MAY-21
Chromium (Cr)		44.1	42.6		ug/g	3.4	30	03-MAY-21
Cobalt (Co)		16.8	16.3		ug/g	3.2	30	03-MAY-21
Copper (Cu)		21.5	21.2		ug/g	1.3	30	03-MAY-21
Lead (Pb)		14.1	13.8		ug/g	1.8	40	03-MAY-21
Molybdenum (Mo)		1.11	1.11		ug/g	0.5	40	03-MAY-21
Nickel (Ni)		53.4	51.3		ug/g	4.0	30	03-MAY-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	03-MAY-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	03-MAY-21
Thallium (TI)		0.265	0.252		ug/g	5.2	30	03-MAY-21
Uranium (U)		0.818	0.775		ug/g	5.4	30	03-MAY-21
Vanadium (V)		52.4	51.6		ug/g	1.5	30	03-MAY-21
Zinc (Zn)		84.8	82.4		ug/g	2.9	30	03-MAY-21
WG3527724-4 LCS								
Antimony (Sb)			106.4		%		80-120	03-MAY-21
Arsenic (As)			99.1		%		80-120	03-MAY-21
Barium (Ba)			92.7		%		80-120	03-MAY-21
Beryllium (Be)			93.7		%		80-120	03-MAY-21
Boron (B)			89.9		%		80-120	03-MAY-21
Cadmium (Cd)			96.1		%		80-120	03-MAY-21
Chromium (Cr)			95.3		%		80-120	03-MAY-21
Cobalt (Co)			94.7		%		80-120	03-MAY-21
Copper (Cu)			93.2		%		80-120	03-MAY-21
Lead (Pb)			93.7		%		80-120	03-MAY-21
Molybdenum (Mo)			95.9		%		80-120	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5446104								
WG3527724-4 LCS Nickel (Ni)			93.8		%		80-120	03-MAY-21
Selenium (Se)			101.5		%		80-120	03-MAY-21
Silver (Ag)			87.9		%		80-120	03-MAY-21
Thallium (TI)			99.7		%		80-120	03-MAY-21
Uranium (U)			87.8		%		80-120	03-MAY-21
Vanadium (V)			97.1		%		80-120	03-MAY-21
Zinc (Zn)			95.2		%		80-120	03-MAY-21
WG3527724-1 MB Antimony (Sb)			<0.10		mg/kg		0.1	03-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	03-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	03-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	03-MAY-21
Boron (B)			<5.0		mg/kg		5	03-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	03-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	03-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	03-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	03-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	03-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	03-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	03-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	03-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	03-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	03-MAY-21
Uranium (U)			<0.050		mg/kg		0.05	03-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	03-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	03-MAY-21
Batch R5447299								
WG3527711-2 CRM		WT-SS-2	407.0		0/			
Antimony (Sb)			107.6		%		70-130	03-MAY-21
Arsenic (As)			106.5		%		70-130	03-MAY-21
Barium (Ba)			105.8		%		70-130	03-MAY-21
Beryllium (Be)			108.0		% ma/ka		70-130	03-MAY-21
Boron (B)			10.0		mg/kg		3.5-13.5	03-MAY-21
Cadmium (Cd)			108.0		%		70-130	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5447299								
WG3527711-2 CRM		WT-SS-2						
Chromium (Cr)			106.9		%		70-130	03-MAY-21
Cobalt (Co)			105.2		%		70-130	03-MAY-21
Copper (Cu)			99.4		%		70-130	03-MAY-21
Lead (Pb)			100.2		%		70-130	03-MAY-21
Molybdenum (Mo)			112.7		%		70-130	03-MAY-21
Nickel (Ni)			107.8		%		70-130	03-MAY-21
Selenium (Se)			0.15		mg/kg		0-0.34	03-MAY-21
Silver (Ag)			99.3		%		70-130	03-MAY-21
Thallium (TI)			0.075		mg/kg			9 03-MAY-21
Uranium (U)			109.5		%		70-130	03-MAY-21
Vanadium (V)			109.0		%		70-130	03-MAY-21
Zinc (Zn)			97.9 -		%		70-130	03-MAY-21
WG3527711-6 DUP Antimony (Sb)		WG3527711- <0.10	5 <0.10	RPD-NA	ug/g	N/A	30	03-MAY-21
Arsenic (As)		1.20	1.14		ug/g	5.1	30	03-MAY-21
Barium (Ba)		66.8	65.8		ug/g	1.5	40	03-MAY-21
Beryllium (Be)		0.21	0.20		ug/g	4.9	30	03-MAY-21
Boron (B)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	03-MAY-21
Cadmium (Cd)		0.028	0.029		ug/g	3.7	30	03-MAY-21
Chromium (Cr)		23.1	21.9		ug/g	5.3	30	03-MAY-21
Cobalt (Co)		4.10	3.88		ug/g	5.5	30	03-MAY-21
Copper (Cu)		10.4	10.2		ug/g	2.2	30	03-MAY-21
Lead (Pb)		17.5	20.5		ug/g	15	40	03-MAY-21
Molybdenum (Mo)		0.17	0.18		ug/g	4.6	40	03-MAY-21
Nickel (Ni)		13.5	13.0		ug/g	3.9	30	03-MAY-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	03-MAY-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	03-MAY-21
Thallium (TI)		<0.050	<0.050	RPD-NA	ug/g	N/A	30	03-MAY-21
Uranium (U)		0.523	0.548	111 0 11/1	ug/g	4.6	30	03-MAY-21
Vanadium (V)		27.5	25.7		ug/g	6.5	30	03-MAY-21
Zinc (Zn)		16.4	15.6		ug/g	4.8	30	03-MAY-21
WG3527711-4 LCS			10.0		~9 [,] 9	4.0	50	00-1VIA 1 -2 I
Antimony (Sb)			103.9		%		80-120	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

MET-200.2-CCMS-WT Soil	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MGS27771-1 LCS	MET-200.2-CCMS-WT	Soil							
Asresinc (As) 106.7 % 80-120 03-MAY-21 Barlum (Ba) 104.4 % 80-120 03-MAY-21 Baryllum (Be) 99.2 % 80-120 03-MAY-21 Boron (B) 98.4 % 80-120 03-MAY-21 Cadmium (Cd) 100.2 % 80-120 03-MAY-21 Crobalt (Co) 101.4 % 80-120 03-MAY-21 Copper (Cu) 99.4 % 80-120 03-MAY-21 Copper (Cu) 99.4 % 80-120 03-MAY-21 Lead (Pb) 102.5 % 80-120 03-MAY-21 Mokybdarum (Mo) 102.8 % 80-120 03-MAY-21 Selenium (Se) 101.6 % 80-120 03-MAY-21 Selenium (Se) 101.6 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Vanadium (X) 105.2	Batch R5447299								
Barium (Ba) 104.4 % 80-120 03-MAY-21 Beryllum (Be) 99.2 % 80-120 03-MAY-21 Boron (B) 98.4 % 80-120 03-MAY-21 Cadmium (Cd) 100.2 % 80-120 03-MAY-21 Chromium (Cr) 101.5 % 80-120 03-MAY-21 Cobalt (Co) 101.4 % 80-120 03-MAY-21 Coper (Cu) 99.4 % 80-120 03-MAY-21 Lead (Pb) 102.5 % 80-120 03-MAY-21 Molybdenum (Mo) 102.8 % 80-120 03-MAY-21 Selenium (Se) 96.0 % 80-120 03-MAY-21 Tallium (Ti) 9				400.7		0/			
Beryllium (Be) 99.2 % 80-120 03-MAY-21 Boron (B) 98.4 % 80-120 03-MAY-21 Cadmium (Cd) 100.2 % 80-120 03-MAY-21 Chromium (Cr) 101.5 % 80-120 03-MAY-21 Cobalt (Co) 101.4 % 80-120 03-MAY-21 Copper (Cu) 99.4 % 80-120 03-MAY-21 Lead (Pb) 102.5 % 80-120 03-MAY-21 Molybdenum (Mo) 102.8 % 80-120 03-MAY-21 Mickal (Ni) 100.6 % 80-120 03-MAY-21 Selenium (Se) 101.6 % 80-120 03-MAY-21 Selenium (Se) 101.6 % 80-120 03-MAY-21 Selenium (Se) 96.0 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Vanadium (V) 105.2 % 80-120 03-MAY-21 Vanadium (V) 105.2									
Boron (B) 98.4 % 80-120 03-MAY-21 Cadmium (Cd) 100.2 % 80-120 03-MAY-21 Chromium (Cr) 101.5 % 80-120 03-MAY-21 Cobalt (Cd) 101.4 % 80-120 03-MAY-21 Copper (Cu) 99.4 % 80-120 03-MAY-21 Lead (Pb) 102.5 % 80-120 03-MAY-21 Molybdenum (Mo) 102.8 % 80-120 03-MAY-21 Mickel (Ni) 100.6 % 80-120 03-MAY-21 Selenium (Se) 101.6 % 80-120 03-MAY-21 Silver (Ag) 96.0 % 80-120 03-MAY-21 Silver (Ag) 96.0 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Vanadium (V) 105.2 % 80-120 03-MAY-21 Zinc (Zn) 97.8 % 80-120 03-MAY-21 WG3227711-1 MB A									
Cadmium (Cd) 100.2 % 80-120 03-MAY-21 Chromium (Cr) 101.5 % 80-120 03-MAY-21 Cobalt (Co) 101.4 % 80-120 03-MAY-21 Copper (Cu) 99.4 % 80-120 03-MAY-21 Lead (Pb) 102.5 % 80-120 03-MAY-21 Molybdenum (Mo) 102.8 % 80-120 03-MAY-21 Nickel (Ni) 100.6 % 80-120 03-MAY-21 Nickel (Ni) 100.6 % 80-120 03-MAY-21 Silver (Ag) 96.0 % 80-120 03-MAY-21 Silver (Ag) 96.0 % 80-120 03-MAY-21 Thalium (TI) 99.95 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Uranium (V) 105.2 % 80-120 03-MAY-21 WG352711-1 MB MB 10.2 % 80-120 03-MAY-21 WG352771									
Chromium (Cr) 101.5 % 80-120 03-MAY-21 Cobalt (Co) 101.4 % 80-120 03-MAY-21 Copper (Cu) 99.4 % 80-120 03-MAY-21 Lead (Pb) 102.5 % 80-120 03-MAY-21 Molybdenum (Mo) 102.8 % 80-120 03-MAY-21 Nickel (Ni) 100.6 % 80-120 03-MAY-21 Nickel (Ni) 100.6 % 80-120 03-MAY-21 Selenium (Se) 101.6 % 80-120 03-MAY-21 Silver (Ag) 96.0 % 80-120 03-MAY-21 Silver (Ag) 96.0 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Uranium (V) 106.2 % 80-120 03-MAY-21 Zinc (Zn) 97.8 % 80-120 03-MAY-21 WG352771-1 MB Antimony (Sb) 0.1 03-MAY-21 Arsenic (As)									
Cobalt (Co) 101.4 % 80-120 03-MAY-21 Copper (Cu) 99.4 % 80-120 03-MAY-21 Lead (Pb) 102.5 % 80-120 03-MAY-21 Molybdenum (Mo) 102.8 % 80-120 03-MAY-21 Mickel (NI) 100.6 % 80-120 03-MAY-21 Silver (Ag) 101.6 % 80-120 03-MAY-21 Silver (Ag) 96.0 % 80-120 03-MAY-21 Thallium (TI) 99.95 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Uranium (V) 106.2 % 80-120 03-MAY-21 Zinc (Zn) 97.8 % 80-120 03-MAY-21 WG352771-1 MB Martinony (Sb) <0.10 mg/kg 0.1 03-MAY-21 WG352771-1 MB Animony (Sb) <0.10 mg/kg 0.1 03-MAY-21 WG352771-1 MB Animony (Sb) <0.10									
Copper (Cu) 99.4 % 80-120 03-MAY-21 Lead (Pb) 102.5 % 80-120 03-MAY-21 Molybdenum (Mo) 102.8 % 80-120 03-MAY-21 Nickel (Ni) 100.6 % 80-120 03-MAY-21 Selenium (Se) 101.6 % 80-120 03-MAY-21 Silver (Ag) 96.0 % 80-120 03-MAY-21 Thallium (TI) 99.95 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Vanadium (V) 105.2 % 80-120 03-MAY-21 Vanadium (V) 105.2 % 80-120 03-MAY-21 WG352771-1 MB MB % 80-120 03-MAY-21 WG352771-1 MB Antmony (Sb) 0.1 03-MAY-21 Arsenic (As) 0.10 mg/kg 0.1 03-MAY-21 Barium (Ba) 0.50 mg/kg 0.5 03-MAY-21 Beryllium (Be)	, ,								
Lead (Pb) 102.5 % 80-120 03-MAY-21 Molybdenum (Mo) 102.8 % 80-120 03-MAY-21 Nickel (Ni) 100.6 % 80-120 03-MAY-21 Selenium (Se) 101.6 % 80-120 03-MAY-21 Silver (Ag) 96.0 % 80-120 03-MAY-21 Thallium (TI) 99.95 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Vanadium (V) 105.2 % 80-120 03-MAY-21 Vanadium (V) 105.2 % 80-120 03-MAY-21 WG352771-1 MB % 80-120 03-MAY-21 WG352771-1 MB Antimory (Sb) <0.10									
Molybdenum (Mo) 102.8 % 80-120 03-MAY-21 Nickel (Ni) 100.6 % 80-120 03-MAY-21 Selenium (Se) 101.6 % 80-120 03-MAY-21 Silver (Ag) 96.0 % 80-120 03-MAY-21 Thallium (TI) 99.95 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Vanadium (V) 105.2 % 80-120 03-MAY-21 Zinc (Zn) 97.8 % 80-120 03-MAY-21 WG352771-1 MB MB Name (Zn) 03-MAY-21 WG352771-1 MB Mg/kg 0.1 03-MAY-21 Arsenic (As) <0.10									
Nickel (Ni) 100.6 % 80-120 03-MAY-21 Selenium (Se) 101.6 % 80-120 03-MAY-21 Silver (Ag) 96.0 % 80-120 03-MAY-21 Thallium (TI) 99.95 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Vanadium (V) 105.2 % 80-120 03-MAY-21 Zinc (Zn) 97.8 % 80-120 03-MAY-21 WG3527711-1 MB Antimony (Sb) < 0.10 mg/kg 0.1 03-MAY-21 Barium (Ba) < 0.50 mg/kg 0.5 03-MAY-21 Beryllium (Be) < 0.10 mg/kg 0.1 03-MAY-21 Cadmium (Cd) < 0.020 mg/kg 0.2 03-MAY-21 Cadmium (Cd) < 0.020 mg/kg 0.5 03-MAY-21 Copper (Cu) < 0.50 mg/kg 0.5 03-MAY-21 Copper (Cu) < 0.50 mg/kg 0.5 03-MAY-21 MO3-MAY-21 MO3-MAY-21 MO3-MAY-21 Copper (Cu) < 0.50 mg/kg 0.5 03-MAY-21 MO3-MAY-21 Selenium (Se) < 0.20 mg/kg 0.5 03-MAY-21 Silver (Ag)									
Selenium (Se) 101.6 % 80-120 03-MAY-21 Silver (Ag) 96.0 % 80-120 03-MAY-21 Thallium (TI) 99.95 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Vanadium (V) 105.2 % 80-120 03-MAY-21 Zinc (Zn) 97.8 % 80-120 03-MAY-21 WG352771-1 MB Antimony (Sb) <0.10									
Silver (Ag) 96.0 % 80-120 03-MAY-21 Thallium (TI) 99.95 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Vanadium (V) 105.2 % 80-120 03-MAY-21 Zinc (Zn) 97.8 % 80-120 03-MAY-21 WG3527711-1 MB Antimony (Sb) <0.10									
Thallium (TI) 99.95 % 80-120 03-MAY-21 Uranium (U) 106.2 % 80-120 03-MAY-21 Vanadium (V) 105.2 % 80-120 03-MAY-21 Zinc (Zn) 97.8 % 80-120 03-MAY-21 WG3527711-1 MB MB N 80-120 03-MAY-21 Artsenic (As) <0.10									
Uranium (U) 106.2 % 80-120 03-MAY-21 Vanadium (V) 105.2 % 80-120 03-MAY-21 Zinc (Zn) 97.8 % 80-120 03-MAY-21 WG3527711-1 MB MB WG3527711-1 MB Antimony (Sb) <0.10								80-120	03-MAY-21
Vanadium (V) 105.2 % 80-120 03-MAY-21 Zinc (Zn) 97.8 % 80-120 03-MAY-21 WG3527711-1 MB Co.10 mg/kg 0.1 03-MAY-21 Arsenic (As) <0.10 mg/kg 0.1 03-MAY-21 Barium (Ba) <0.50 mg/kg 0.5 03-MAY-21 Beryllium (Be) <0.10 mg/kg 0.1 03-MAY-21 Boron (B) <5.0 mg/kg 0.1 03-MAY-21 Cadmium (Cd) <0.020 mg/kg 0.02 03-MAY-21 Chromium (Cr) <0.50 mg/kg 0.5 03-MAY-21 Cobalt (Co) <0.10 mg/kg 0.1 03-MAY-21 Copper (Cu) <0.50 mg/kg 0.5 03-MAY-21 Lead (Pb) <0.50 mg/kg 0.5 03-MAY-21 Molybdenum (Mo) <0.10 mg/kg 0.1 03-MAY-21 Nickel (Ni) <0.50 mg/kg 0.5 03-MAY-21 Selenium (S	` ,							80-120	03-MAY-21
Zinc (Zn) 97.8 % 80-120 03-MAY-21 WG3527711-1 MB Co.10 mg/kg 0.1 03-MAY-21 Arsenic (As) <0.10 mg/kg 0.1 03-MAY-21 Barium (Ba) <0.50 mg/kg 0.5 03-MAY-21 Beryllium (Be) <0.10 mg/kg 0.1 03-MAY-21 Boron (B) <5.0 mg/kg 0.1 03-MAY-21 Cadmium (Cd) <0.020 mg/kg 0.5 03-MAY-21 Chromium (Cr) <0.50 mg/kg 0.5 03-MAY-21 Cobalt (Co) <0.10 mg/kg 0.5 03-MAY-21 Copper (Cu) <0.50 mg/kg 0.5 03-MAY-21 Lead (Pb) <0.50 mg/kg 0.5 03-MAY-21 Molybdenum (Mo) <0.10 mg/kg 0.1 03-MAY-21 Nickel (Ni) <0.50 mg/kg 0.5 03-MAY-21 Selenium (Se) <0.20 mg/kg 0.1 03-MAY-21 Silver (Ag								80-120	03-MAY-21
WG3527711-1 MB MB Antimony (Sb) <0.10				105.2				80-120	03-MAY-21
Antimony (Sb) <0.10	Zinc (Zn)			97.8		%		80-120	03-MAY-21
Arsenic (As) <0.10				0.40		(I		0.4	
Barium (Ba) <0.50									
Beryllium (Be) <0.10									
Boron (B) <5.0									
Cadmium (Cd) <0.020									
Chromium (Cr) <0.50									
Cobalt (Co) <0.10									
Copper (Cu) <0.50	, ,								
Lead (Pb) <0.50									
Molybdenum (Mo) <0.10									
Nickel (Ni) <0.50 mg/kg 0.5 03-MAY-21 Selenium (Se) <0.20									
Selenium (Se) <0.20									
Silver (Ag) <0.10 mg/kg 0.1 03-MAY-21 Thallium (TI) <0.050									03-MAY-21
Thallium (TI) <0.050 mg/kg 0.05 03-MAY-21				<0.20		mg/kg			03-MAY-21
	Silver (Ag)			<0.10		mg/kg		0.1	03-MAY-21
Uranium (U) <0.050 mg/kg 0.05 03-MAY-21	Thallium (TI)			< 0.050		mg/kg		0.05	03-MAY-21
	Uranium (U)			< 0.050		mg/kg		0.05	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5447299								
WG3527711-1 MB Vanadium (V)			<0.20		mg/kg		0.2	03-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	03-MAY-21
MOISTURE-WT	Soil							
Batch R5443525								
WG3526741-3 DUP % Moisture		L2580541-21 18.1	17.8		%	1.4	20	30-APR-21
WG3526741-2 LCS % Moisture			100.3		%		90-110	30-APR-21
WG3526741-1 MB % Moisture			<0.25		%		0.25	30-APR-21
Batch R5443528								
WG3526740-3 DUP		L2581807-2						
% Moisture		8.70	7.89		%	9.8	20	30-APR-21
WG3526740-2 LCS % Moisture			99.9		%		90-110	30-APR-21
WG3526740-1 MB % Moisture			<0.25		%		0.25	30-APR-21
PAH-511-WT	Soil							
Batch R5443768								
WG3526746-3 DUP 1-Methylnaphthalene		WG3526746-5 <0.030	<0.030	RPD-NA	ug/g	N/A	40	30-APR-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	30-APR-21
Acenaphthene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Fluorene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	30-APR-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5443768								
WG3526746-3 DUP		WG3526746-			,			
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	30-APR-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	30-APR-21
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	30-APR-21
WG3526746-2 LCS 1-Methylnaphthalene			92.9		%		50-140	30-APR-21
2-Methylnaphthalene			90.2		%		50-140	30-APR-21
Acenaphthene			88.8		%		50-140	30-APR-21
Acenaphthylene			85.4		%		50-140	30-APR-21
Anthracene			80.5		%		50-140	30-APR-21
Benzo(a)anthracene			92.0		%		50-140	30-APR-21
Benzo(a)pyrene			78.8		%		50-140	30-APR-21
Benzo(b&j)fluoranthene			77.4		%		50-140	30-APR-21
Benzo(g,h,i)perylene			82.8		%		50-140	30-APR-21
Benzo(k)fluoranthene			95.5		%		50-140	30-APR-21
Chrysene			89.6		%		50-140	30-APR-21
Dibenz(a,h)anthracene			82.5		%		50-140	30-APR-21
Fluoranthene			87.3		%		50-140	30-APR-21
Fluorene			87.4		%		50-140	30-APR-21
Indeno(1,2,3-cd)pyrene			85.9		%		50-140	30-APR-21
Naphthalene			88.0		%		50-140	30-APR-21
Phenanthrene			90.2		%		50-140	30-APR-21
Pyrene			87.0		%		50-140	30-APR-21
WG3526746-1 MB								
1-Methylnaphthalene			<0.030		ug/g		0.03	30-APR-21
2-Methylnaphthalene			<0.030		ug/g		0.03	30-APR-21
Acenaphthene			<0.050		ug/g		0.05	30-APR-21
Acenaphthylene			<0.050		ug/g		0.05	30-APR-21
Anthracene			<0.050		ug/g		0.05	30-APR-21
Benzo(a)anthracene			<0.050		ug/g		0.05	30-APR-21
Benzo(a)pyrene			<0.050		ug/g		0.05	30-APR-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	30-APR-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	30-APR-21
Benzo(k)fluoranthene			< 0.050		ug/g		0.05	30-APR-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R544376 WG3526746-1 MB	В							
Chrysene			<0.050		ug/g		0.05	30-APR-21
Dibenz(a,h)anthracene	•		<0.050		ug/g		0.05	30-APR-21
Fluoranthene			<0.050		ug/g		0.05	30-APR-21
Fluorene			<0.050		ug/g		0.05	30-APR-21
Indeno(1,2,3-cd)pyren	9		< 0.050		ug/g		0.05	30-APR-21
Naphthalene			<0.013		ug/g		0.013	30-APR-21
Phenanthrene			<0.046		ug/g		0.046	30-APR-21
Pyrene			< 0.050		ug/g		0.05	30-APR-21
Surrogate: 2-Fluorobip	henyl		92.9		%		50-140	30-APR-21
Surrogate: d14-Terphe	enyl		90.2		%		50-140	30-APR-21
WG3526746-4 MS 1-Methylnaphthalene		WG3526746-5	92.5		%		50-140	30-APR-21
2-Methylnaphthalene			89.8		%		50-140	30-APR-21
Acenaphthene			89.1		%		50-140	30-APR-21
Acenaphthylene			85.0		%		50-140	30-APR-21
Anthracene			80.3		%		50-140	30-APR-21
Benzo(a)anthracene			94.7		%		50-140	30-APR-21
Benzo(a)pyrene			78.6		%		50-140	30-APR-21
Benzo(b&j)fluoranthen	Δ		88.6		%		50-140	30-APR-21
Benzo(g,h,i)perylene			73.1		%		50-140	30-APR-21
Benzo(k)fluoranthene			87.2		%		50-140	30-APR-21
Chrysene			88.7		%		50-140	30-APR-21
Dibenz(a,h)anthracene	<u>.</u>		74.4		%		50-140	30-APR-21
Fluoranthene	•		90.6		%		50-140	30-APR-21
Fluorene			88.2		%		50-140	30-APR-21
Indeno(1,2,3-cd)pyren	<u> </u>		80.9		%		50-140	30-APR-21
Naphthalene			86.9		%		50-140	30-APR-21
Phenanthrene			90.2		%		50-140	30-APR-21
Pyrene			90.9		%		50-140	30-APR-21
PH-WT	Soil		55.5		,,		JU-140	30-71 IV-21
Batch R544622								
WG3526743-1 DUP		L2581807-7						
рН		7.96	8.03	J	pH units	0.07	0.3	03-MAY-21
WG3527906-1 LCS								



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WT	Soil							
Batch R5446223 WG3527906-1 LCS pH			6.93		pH units		6.9-7.1	03-MAY-21
SAR-R511-WT	Soil							
Batch R5445918								
WG3527714-4 DUP Calcium (Ca)		WG3527714-3 47.9	41.4		mg/L	15	30	03-MAY-21
Sodium (Na)		28.7	27.2		mg/L	5.4	30	03-MAY-21
Magnesium (Mg)		17.2	14.7		mg/L	16	30	03-MAY-21
WG3527714-2 IRM		WT SAR4						
Calcium (Ca)			104.0		%		70-130	03-MAY-21
Sodium (Na)			93.0		%		70-130	03-MAY-21
Magnesium (Mg)			100.9		%		70-130	03-MAY-21
WG3527714-5 LCS Calcium (Ca)			109.0		%		80-120	03-MAY-21
Sodium (Na)			104.2		%		80-120	03-MAY-21
Magnesium (Mg)			104.2		%		80-120	03-MAY-21
WG3527714-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	03-MAY-21
Sodium (Na)			<0.50		mg/L		0.5	03-MAY-21
Magnesium (Mg)			<0.50		mg/L		0.5	03-MAY-21
Batch R5446105								
WG3527729-4 DUP Calcium (Ca)		WG3527729-3 1.46	1.63		mg/L	11	20	03-MAY-21
Sodium (Na)		330	338		mg/L	11	30	03-MAY-21
Magnesium (Mg)		<0.50	<0.50	RPD-NA	mg/L	2.4 N/A	30 30	03-MAY-21 03-MAY-21
WG3527729-2 IRM		WT SAR4	\0.50	KFD-NA	mg/L	IN/A	30	03-IVIA 1 -2 I
Calcium (Ca)		WI SAR4	98.4		%		70-130	03-MAY-21
Sodium (Na)			94.3		%		70-130	03-MAY-21
Magnesium (Mg)			98.3		%		70-130	03-MAY-21
WG3527729-5 LCS Calcium (Ca)			108.3		%		80-120	03-MAY-21
Sodium (Na)			103.6		%		80-120	03-MAY-21
Magnesium (Mg)			104.0		%		80-120	03-MAY-21
WG3527729-1 MB							-	
Calcium (Ca)			<0.50		mg/L		0.5	03-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-R511-WT	Soil							
Batch R5446109 WG3527729-1 MB	5							
Sodium (Na)			<0.50		mg/L		0.5	03-MAY-21
Magnesium (Mg)			<0.50		mg/L		0.5	03-MAY-21
VOC-511-HS-WT	Soil							
Batch R5450317	7							
WG3526811-4 DUP		WG3526811-3		555				
1,1,1,2-Tetrachloroetha		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,1,2,2-Tetrachloroetha	ane	<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g ,	N/A	40	05-MAY-21
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g ,	N/A	40	05-MAY-21
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	05-MAY-21
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	05-MAY-21
Bromodichloromethane	Э	< 0.050	< 0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Bromoform		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
cis-1,2-Dichloroethylen	ie	<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
cis-1,3-Dichloropropen	е	<0.030	<0.030	RPD-NA	ug/g	N/A	40	05-MAY-21
Dibromochloromethan	е	< 0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Dichlorodifluoromethar	ne	< 0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	05-MAY-21
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

No. Soli	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
W63528811-4 DUP W63528811-3 C-0.030 RPD-NA ug/g N/A 40 05-MAY-21 Methyl Erbly Ketone <0.50 <0.50 RPD-NA ug/g N/A 40 05-MAY-21 Methyl Isobutyl Ketone <0.50 <0.50 RPD-NA ug/g N/A 40 05-MAY-21 o-Xylene <0.020 <0.020 RPD-NA ug/g N/A 40 05-MAY-21 Styrene <0.050 <0.050 RPD-NA ug/g N/A 40 05-MAY-21 Tetrachloroethylene <0.050 <0.050 RPD-NA ug/g N/A 40 05-MAY-21 trans-1,2-Dichloroethylene <0.050 <0.050 RPD-NA ug/g N/A 40 05-MAY-21 trans-1,2-Dichloroethylene <0.050 <0.050 RPD-NA ug/g N/A 40 05-MAY-21 Trickloroethylene <0.010 RPD-NA ug/g N/A 40 05-MAY-21 Trickloroethylene <0.050 RPD-NA	VOC-511-HS-WT	Soil							
metp-Xylenes <0.030	Batch R5450317	ı.							
Methyl Ethyl Ketone <0.50 <0.50 RPD-NA ug/g N/A 40 05-MAY-21 Methyl Isobutyl Ketone <0.50						,			
Methyl Isobutyl Ketone <0.50 <0.50 RPD-NA ug/g N/A 40 05-MAY-21 o-Xylene <0.020									
O-Xylene									
Styrene <0.050 <0.050 RPD-NA ug/g N/A 40 05-MAY-21 Tetrachloroethylene <0.050	,							40	
Tetrachloroethylene	-				RPD-NA			40	05-MAY-21
Toluene <0.080 <0.080 RPD-NA ug/g N/A 40 05-MAY-21 trans-1,2-Dichloroethylene <0.050	•				RPD-NA	ug/g	N/A	40	05-MAY-21
trans-1,2-Dichloroethylene	Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
trans-1,3-Dichloropropene <0.030 <0.030 RPD-NA ug/g N/A 40 05-MAY-21 Trichloroethylene <0.010	Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	05-MAY-21
Trichloroethylene <0.010 <0.010 RPD-NA ug/g N/A 40 05-MAY-21 Trichlorofluoromethane <0.050	trans-1,2-Dichloroethyle	ene	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
Trichlorofluoromethane <0.050 <0.050 RPD-NA ug/g N/A 40 05-MAY-21 Vinyl chloride <0.020 <0.020 RPD-NA ug/g N/A 40 05-MAY-21 WG3526811-2 LCS 11,1,2-Tetrachloroethane 119.7 % 60-130 05-MAY-21 1,1,2-Tetrachloroethane 124.7 % 60-130 05-MAY-21 1,1,1-Trichloroethane 117.0 % 60-130 05-MAY-21 1,1,2-Trichloroethane 119.0 % 60-130 05-MAY-21 1,1-Dichloroethane 120.6 % 60-130 05-MAY-21 1,1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1,2-Dichlorobenzene 118.7 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloropenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloropenzene 121.6 % 70-130 05-MAY-21 1,2-Dichloropenzene	trans-1,3-Dichloroprope	ene	<0.030	< 0.030	RPD-NA	ug/g	N/A	40	05-MAY-21
Vinyl chloride <0.020 <0.020 RPD-NA ug/g N/A 40 05-MAY-21 WG3526811-2 LCS 1,1,1,2-Tetrachloroethane 119.7 % 60-130 05-MAY-21 1,1,1-Z-Tetrachloroethane 124.7 % 60-130 05-MAY-21 1,1,1-Trichloroethane 117.0 % 60-130 05-MAY-21 1,1,1-Trichloroethane 119.0 % 60-130 05-MAY-21 1,1-Dichloroethane 120.6 % 60-130 05-MAY-21 1,1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1,2-Dibrloroethane 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloroethane 123.6 % 70-130 05-MAY-21 1,2-Dichloroptopropane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 116.3 % 70-130<	Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	05-MAY-21
WG3526811-2 LCS 1,1,1,2-Tetrachloroethane 119.7 % 60-130 05-MAY-21 1,1,2,2-Tetrachloroethane 124.7 % 60-130 05-MAY-21 1,1,1-Trichloroethane 117.0 % 60-130 05-MAY-21 1,1,2-Trichloroethane 119.0 % 60-130 05-MAY-21 1,1-Dichloroethane 120.6 % 60-130 05-MAY-21 1,1-Dichloroethane 117.2 % 60-130 05-MAY-21 1,2-Dibromoethane 118.7 % 70-130 05-MAY-21 1,2-Dibromoethane 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloroethane 123.6 % 70-130 05-MAY-21 1,2-Dichlor	Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	05-MAY-21
1,1,1,2-Tetrachloroethane 119.7 % 60-130 05-MAY-21 1,1,2,2-Tetrachloroethane 124.7 % 60-130 05-MAY-21 1,1,1-Trichloroethane 117.0 % 60-130 05-MAY-21 1,1,2-Trichloroethane 119.0 % 60-130 05-MAY-21 1,1-Dichloroethane 120.6 % 60-130 05-MAY-21 1,1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1,2-Dibloroethane 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,2-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 116.3 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130<	Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	05-MAY-21
1,1,2,2-Tetrachloroethane 124.7 % 60-130 05-MAY-21 1,1,1-Trichloroethane 117.0 % 60-130 05-MAY-21 1,1,2-Trichloroethane 119.0 % 60-130 05-MAY-21 1,1-Dichloroethane 120.6 % 60-130 05-MAY-21 1,1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1,2-Dichloroethane 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,2-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 116.3 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140	WG3526811-2 LCS								
1,1,1-Trichloroethane 117.0 % 60-130 05-MAY-21 1,1,2-Trichloroethane 119.0 % 60-130 05-MAY-21 1,1-Dichloroethylene 120.6 % 60-130 05-MAY-21 1,1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1,2-Dibromoethane 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloropapane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 119.2 % 70-130	1,1,1,2-Tetrachloroetha	ine		119.7				60-130	05-MAY-21
1,1,2-Trichloroethane 119.0 % 60-130 05-MAY-21 1,1-Dichloroethane 120.6 % 60-130 05-MAY-21 1,1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1,2-Dichoroethane 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloropthane 123.6 % 60-130 05-MAY-21 1,2-Dichloroppane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 50-140 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130	1,1,2,2-Tetrachloroetha	ine		124.7		%		60-130	05-MAY-21
1,1-Dichloroethane 120.6 % 60-130 05-MAY-21 1,1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1,2-Dibromoethane 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromoform 130.4 % 50-140 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	1,1,1-Trichloroethane			117.0		%		60-130	05-MAY-21
1,1-Dichloroethylene 117.2 % 60-130 05-MAY-21 1,2-Dibromoethane 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromomethane 132.9 LCS-ND % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	1,1,2-Trichloroethane			119.0		%		60-130	05-MAY-21
1,2-Dibromoethane 118.7 % 70-130 05-MAY-21 1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 50-140 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	1,1-Dichloroethane			120.6		%		60-130	05-MAY-21
1,2-Dichlorobenzene 115.8 % 70-130 05-MAY-21 1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	1,1-Dichloroethylene			117.2		%		60-130	05-MAY-21
1,2-Dichloroethane 123.6 % 60-130 05-MAY-21 1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	1,2-Dibromoethane			118.7		%		70-130	05-MAY-21
1,2-Dichloropropane 121.6 % 70-130 05-MAY-21 1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	1,2-Dichlorobenzene			115.8		%		70-130	05-MAY-21
1,3-Dichlorobenzene 117.6 % 70-130 05-MAY-21 1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	1,2-Dichloroethane			123.6		%		60-130	05-MAY-21
1,4-Dichlorobenzene 116.3 % 70-130 05-MAY-21 Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	1,2-Dichloropropane			121.6		%		70-130	05-MAY-21
Acetone 140.0 % 60-140 05-MAY-21 Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	1,3-Dichlorobenzene			117.6		%		70-130	05-MAY-21
Benzene 118.8 % 70-130 05-MAY-21 Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	1,4-Dichlorobenzene			116.3		%		70-130	05-MAY-21
Bromodichloromethane 130.4 % 50-140 05-MAY-21 Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	Acetone			140.0		%		60-140	05-MAY-21
Bromoform 132.9 LCS-ND % 70-130 05-MAY-21 Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	Benzene			118.8		%		70-130	05-MAY-21
Bromomethane 112.9 % 50-140 05-MAY-21 Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	Bromodichloromethane	•		130.4		%		50-140	05-MAY-21
Carbon tetrachloride 119.2 % 70-130 05-MAY-21 Chlorobenzene 123.0 % 70-130 05-MAY-21	Bromoform			132.9	LCS-ND	%		70-130	05-MAY-21
Chlorobenzene 123.0 % 70-130 05-MAY-21	Bromomethane			112.9		%		50-140	05-MAY-21
	Carbon tetrachloride			119.2		%		70-130	05-MAY-21
Chloroform 125.5 % 70-130 05-MAY-21	Chlorobenzene			123.0		%		70-130	05-MAY-21
	Chloroform			125.5		%		70-130	05-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

VOC-511-HS-WT Soil Batch R5450317 WG3526811-2 LCS cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21						
WG3526811-2 LCS cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21	Batch R5450317	Soil				
cis-1,2-Dichloroethylene 122.5 % 70-130 05-MAY-21 cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21						
cis-1,3-Dichloropropene 125.5 % 70-130 05-MAY-21 Dibromochloromethane 118.2 % 60-130 05-MAY-21			122 5	%	70-120	05 MAV 24
Dibromochloromethane 118.2 % 60-130 05-MAY-21						
Dichlorodifluoromethane 86.4 % 50-140 05-MAY-21	Dichlorodifluoromethane		86.4	%		
Ethylbenzene 117.3 % 70-130 05-MAY-21						
n-Hexane 110.9 % 70-130 05-MAY-21	·					
Methylene Chloride 125.5 % 70-130 05-MAY-21						
MTBE 111.8 % 70-130 05-MAY-21	•					
m+p-Xylenes 122.6 % 70-130 05-MAY-21						
Methyl Ethyl Ketone 131.4 % 60-140 05-MAY-21						
Methyl Isobutyl Ketone 118.6 % 60-140 05-MAY-21						
o-Xylene 129.9 % 70-130 05-MAY-21						
Styrene 121.9 % 70-130 05-MAY-21						
Tetrachloroethylene 116.1 % 60-130 05-MAY-21	-					
Toluene 117.0 % 70-130 05-MAY-21	•		117.0			
trans-1,2-Dichloroethylene 125.1 % 60-130 05-MAY-21	trans-1,2-Dichloroethylene	;	125.1			
trans-1,3-Dichloropropene 121.5 % 70-130 05-MAY-21	trans-1,3-Dichloropropene)	121.5	%	70-130	
Trichloroethylene 119.7 % 60-130 05-MAY-21	Trichloroethylene		119.7	%	60-130	05-MAY-21
Trichlorofluoromethane 113.7 % 50-140 05-MAY-21	Trichlorofluoromethane		113.7	%	50-140	05-MAY-21
Vinyl chloride 114.1 % 60-140 05-MAY-21	Vinyl chloride		114.1	%	60-140	05-MAY-21
WG3526811-1 MB	WG3526811-1 MB					
1,1,1,2-Tetrachloroethane <0.050 ug/g 0.05 05-MAY-21	1,1,1,2-Tetrachloroethane		<0.050	ug/g	0.05	05-MAY-21
1,1,2,2-Tetrachloroethane <0.050 ug/g 0.05 05-MAY-21	1,1,2,2-Tetrachloroethane		<0.050	ug/g	0.05	05-MAY-21
1,1,1-Trichloroethane <0.050 ug/g 0.05 05-MAY-21	1,1,1-Trichloroethane		<0.050	ug/g	0.05	05-MAY-21
1,1,2-Trichloroethane <0.050 ug/g 0.05 05-MAY-21	1,1,2-Trichloroethane		<0.050	ug/g	0.05	05-MAY-21
1,1-Dichloroethane <0.050 ug/g 0.05 05-MAY-21	1,1-Dichloroethane		< 0.050	ug/g	0.05	05-MAY-21
1,1-Dichloroethylene <0.050 ug/g 0.05 05-MAY-21	1,1-Dichloroethylene		< 0.050	ug/g	0.05	05-MAY-21
1,2-Dibromoethane <0.050 ug/g 0.05 05-MAY-21	1,2-Dibromoethane		< 0.050	ug/g	0.05	05-MAY-21
1,2-Dichlorobenzene <0.050 ug/g 0.05 05-MAY-21	1,2-Dichlorobenzene		< 0.050	ug/g	0.05	05-MAY-21
1,2-Dichloroethane <0.050 ug/g 0.05 05-MAY-21	1,2-Dichloroethane		<0.050	ug/g	0.05	05-MAY-21
1,2-Dichloropropane <0.050 ug/g 0.05 05-MAY-21	1,2-Dichloropropane		<0.050	ug/g	0.05	05-MAY-21
1,3-Dichlorobenzene <0.050 ug/g 0.05 05-MAY-21	1,3-Dichlorobenzene		<0.050	ug/g	0.05	05-MAY-21
1,4-Dichlorobenzene <0.050 ug/g 0.05 05-MAY-21	1,4-Dichlorobenzene		<0.050	ug/g	0.05	05-MAY-21
Acetone <0.50 ug/g 0.5 05-MAY-21	Acetone		<0.50	ug/g	0.5	05-MAY-21



Workorder: L2581807 Report Date: 07-MAY-21 Page 18 of 21

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5450317								
WG3526811-1 MB			0.0000				0.0000	
Benzene			<0.0068		ug/g		0.0068	05-MAY-21
Bromodichloromethane			<0.050		ug/g		0.05	05-MAY-21
Bromoform			<0.050		ug/g		0.05	05-MAY-21
Bromomethane			<0.050		ug/g		0.05	05-MAY-21
Carbon tetrachloride			<0.050		ug/g		0.05	05-MAY-21
Chlorobenzene			<0.050		ug/g		0.05	05-MAY-21
Chloroform			<0.050		ug/g		0.05	05-MAY-21
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	05-MAY-21
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	05-MAY-21
Dibromochloromethane			<0.050		ug/g		0.05	05-MAY-21
Dichlorodifluoromethane			<0.050		ug/g		0.05	05-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	05-MAY-21
n-Hexane			<0.050		ug/g		0.05	05-MAY-21
Methylene Chloride			<0.050		ug/g		0.05	05-MAY-21
MTBE			<0.050		ug/g		0.05	05-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	05-MAY-21
Methyl Ethyl Ketone			< 0.50		ug/g		0.5	05-MAY-21
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	05-MAY-21
o-Xylene			<0.020		ug/g		0.02	05-MAY-21
Styrene			<0.050		ug/g		0.05	05-MAY-21
Tetrachloroethylene			<0.050		ug/g		0.05	05-MAY-21
Toluene			<0.080		ug/g		0.08	05-MAY-21
trans-1,2-Dichloroethylene	е		<0.050		ug/g		0.05	05-MAY-21
trans-1,3-Dichloropropene	е		<0.030		ug/g		0.03	05-MAY-21
Trichloroethylene			<0.010		ug/g		0.01	05-MAY-21
Trichlorofluoromethane			< 0.050		ug/g		0.05	05-MAY-21
Vinyl chloride			<0.020		ug/g		0.02	05-MAY-21
Surrogate: 1,4-Difluorobe	nzene		123.8		%		50-140	05-MAY-21
Surrogate: 4-Bromofluoro	benzene		104.7		%		50-140	05-MAY-21
WG3526811-5 MS	2	WG3526811-3	126.1		%		50-140	05-MAY-21
1,1,2,2-Tetrachloroethane			134.2		%			
1,1,1-Trichloroethane	•		121.9		%		50-140	05-MAY-21
1,1,2-Trichloroethane			121.9				50-140	05-MAY-21
1,1,2-THORIUTUEUTATIE			120.0		%		50-140	05-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5450317								
WG3526811-5 MS		WG3526811-			0/			
1,1-Dichloroethane			125.4		%		50-140	05-MAY-21
1,1-Dichloroethylene			124.1		%		50-140	05-MAY-21
1,2-Dibromoethane			123.7		%		50-140	05-MAY-21
1,2-Dichlorobenzene			125.8		%		50-140	05-MAY-21
1,2-Dichloroethane			128.6		%		50-140	05-MAY-21
1,2-Dichloropropane			123.9		%		50-140	05-MAY-21
1,3-Dichlorobenzene			127.1		%		50-140	05-MAY-21
1,4-Dichlorobenzene			125.3		%		50-140	05-MAY-21
Acetone			146.8	MES	%		50-140	05-MAY-21
Benzene			122.3		%		50-140	05-MAY-21
Bromodichloromethane			135.0		%		50-140	05-MAY-21
Bromoform			140.6	MES	%		50-140	05-MAY-21
Bromomethane			119.9		%		50-140	05-MAY-21
Carbon tetrachloride			124.1		%		50-140	05-MAY-21
Chlorobenzene			130.3		%		50-140	05-MAY-21
Chloroform			130.6		%		50-140	05-MAY-21
cis-1,2-Dichloroethylene	e		125.7		%		50-140	05-MAY-21
cis-1,3-Dichloropropene)		123.7		%		50-140	05-MAY-21
Dibromochloromethane			124.6		%		50-140	05-MAY-21
Dichlorodifluoromethan	е		114.4		%		50-140	05-MAY-21
Ethylbenzene			121.5		%		50-140	05-MAY-21
n-Hexane			120.3		%		50-140	05-MAY-21
Methylene Chloride			131.5		%		50-140	05-MAY-21
MTBE			123.7		%		50-140	05-MAY-21
m+p-Xylenes			130.1		%		50-140	05-MAY-21
Methyl Ethyl Ketone			126.2		%		50-140	05-MAY-21
Methyl Isobutyl Ketone			113.6		%		50-140	05-MAY-21
o-Xylene			135.0		%		50-140	05-MAY-21
Styrene			126.3		%		50-140	05-MAY-21
Tetrachloroethylene			120.2		%		50-140	05-MAY-21
Toluene			122.4		%		50-140	05-MAY-21
trans-1,2-Dichloroethyle	ene		129.9		%		50-140	05-MAY-21
trans-1,3-Dichloroprope	ene		123.1		%		50-140	05-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5450317								
WG3526811-5 MS		WG3526811-3						
Trichloroethylene			121.5		%		50-140	05-MAY-21
Trichlorofluoromethane			123.2		%		50-140	05-MAY-21
Vinyl chloride			124.1		%		50-140	05-MAY-21

Report Date: 07-MAY-21 Workorder: L2581807

MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Legend:

ALS Control Limit (Data Quality Objectives) DUP Duplicate RPD Relative Percent Difference N/A Not Available LCS Laboratory Control Sample Standard Reference Material SRM MS Matrix Spike Matrix Spike Duplicate **MSD** Average Desorption Efficiency ADE

Method Blank MB

Internal Reference Material IRM CRM Certified Reference Material Continuing Calibration Verification CCV CVS Calibration Verification Standard LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-ND	Lab Control Sample recovery was slightly outside ALS DQO. Reported non-detect results for associated samples were unaffected.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

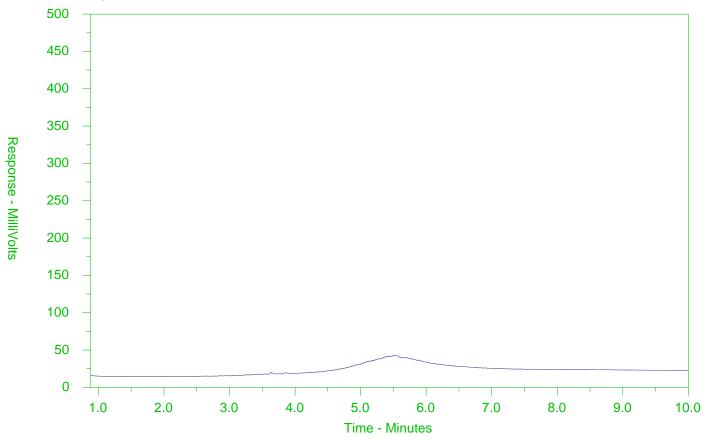
Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

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ALS Sample ID: L2581807-2

Client Sample ID: BH 133-21 SS2 2.5-4.5 FT



← -F2-	→ ←	—F3 → ← F4—	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mot	or Oils/Lube Oils/Grease-	
←	- Diesel/Je	t Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

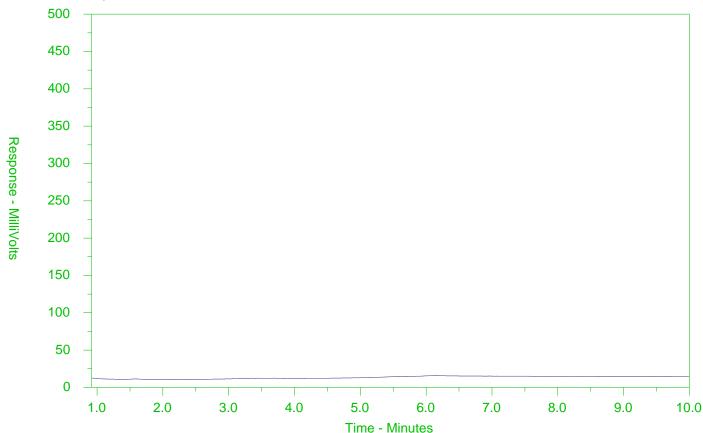
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2581807-7

Client Sample ID: BH 134-21 SS3 5-7 FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

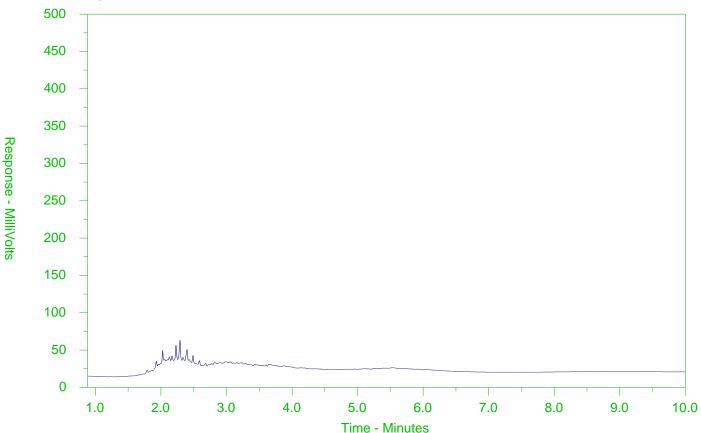
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2581807-10

Client Sample ID: BH 135-21 SS2 2.5-4.5 FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

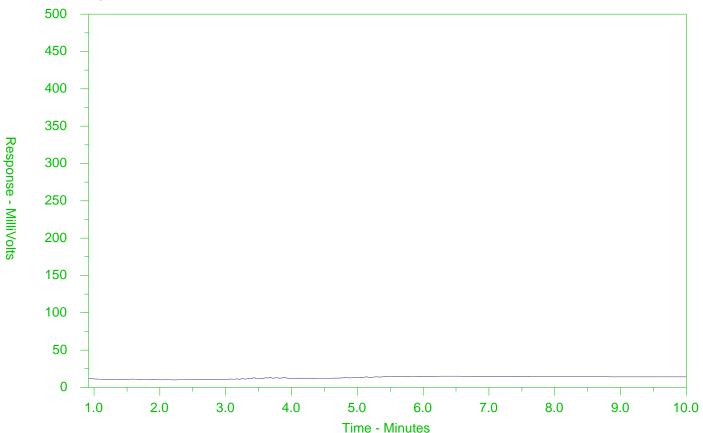
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2581807-12

Client Sample ID: BH 135-21 SS4 7.5-9.5 FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

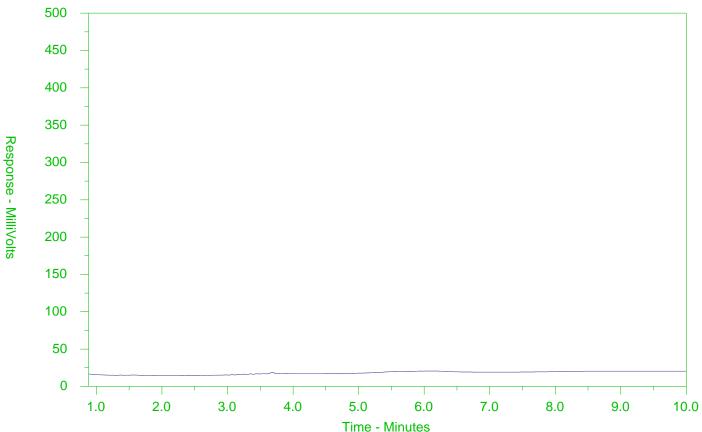
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2581807-15

Client Sample ID: BH 136-21 SS3 5-7 FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

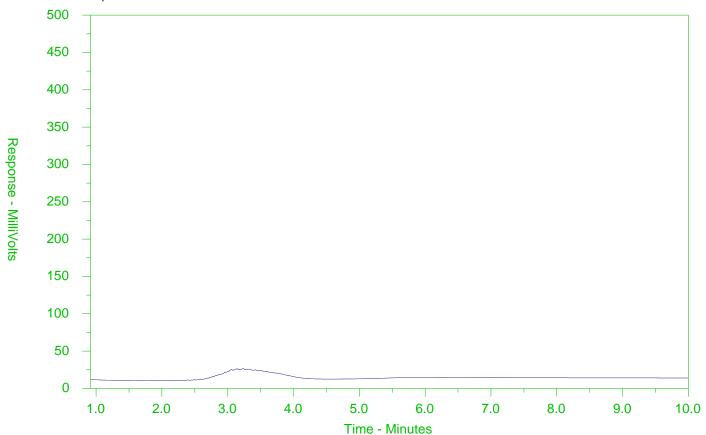
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2581807-18

Client Sample ID: BH 137-21 SS2 2.5-4.5 FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

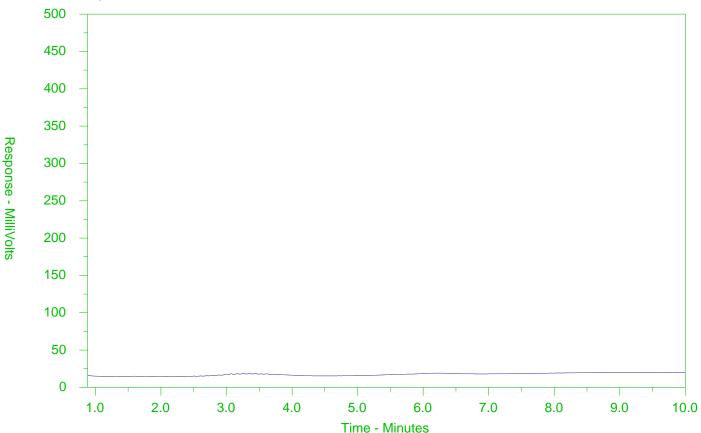
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2581807-19

Client Sample ID: BH 137-21 SS3 5-7 FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



Chain of Custody (COC) / Analytical **Request Form**

Page / of 3

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Chain of Custody (COC) / Analytical **Request Form**

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Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy. 1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form



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Chain of Custody (COC) / Analytical **Request Form**

Canada Toll Free: 1 800 668 9878

COC Number: 17Page 3 of 3

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



MTE CONSULTANTS INC. (Kitchener)

ATTN: JEN LAMBKE

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Date Received: 04-MAY-21

Report Date: 10-MAY-21 10:19 (MT)

Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2583155

Project P.O. #: NOT SUBMITTED

Job Reference: 46995-100

C of C Numbers: Legal Site Desc:

Comments: ADDITIONAL 04-MAY-21 14:09

Emily Hansen Account Manager

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

ADDRESS: 60 Northland Road, Unit 1, Waterloo, ON N2V 2B8 Canada | Phone: +1 519 886 6910 | Fax: +1 519 886 9047

ALS CANADA LTD Part of the ALS Group An ALS Limited Company





ANALYTICAL GUIDELINE REPORT

L2583155 CONTD....

Page 2 of 8 10-MAY-21 10:19 (MT)

46995-100							1	0-MAY-21 1	0:19 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2583155-5 BH116-21 SS4 7.5-9.5 FT									
Sampled By: MATT D on 03-MAY-21 @ 09:10									
Matrix: SOIL						#1	#2	#3	
Physical Tasts									
Physical Tests				۵,					
Conductivity	5.56		0.0040	mS/cm	06-MAY-21	*0.57	*1.4	*0.7	
% Moisture	6.39		0.25	%	05-MAY-21				
Saturated Paste Extractables									
SAR	>16.	SAR:L	0.10	SAR	06-MAY-21	*2.4	*12	*5	
Calcium (Ca)	< 0.50		0.50	mg/L	06-MAY-21				
Magnesium (Mg)	<0.50 65.9		0.50 0.50	mg/L	06-MAY-21 06-MAY-21				
Sodium (Na) Metals	65.9		0.50	mg/L	06-IVIA 1-21				
	4.0		4.0		00 144 1/ 04	4.0	40		
Antimony (Sb)	<1.0		1.0	ug/g	06-MAY-21	1.3	40	7.5	
Arsenic (As)	1.6		1.0	ug/g	06-MAY-21	18	18	18	
Barium (Ba)	10.4		1.0	ug/g	06-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g	06-MAY-21	2.5	8	4	
Boron (B)	<5.0		5.0	ug/g	06-MAY-21	36	120	120	
Cadmium (Cd)	<0.50		0.50	ug/g	06-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	5.9		1.0	ug/g	06-MAY-21	70	160	160	
Cobalt (Co)	2.2		1.0	ug/g	06-MAY-21	21	80	22	
Copper (Cu)	8.9		1.0	ug/g	06-MAY-21	92	230	140	
Lead (Pb)	4.1		1.0	ug/g	06-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	06-MAY-21	2	40	6.9	
Nickel (Ni)	4.2		1.0	ug/g	06-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	06-MAY-21	1.5	5.5	2.4	
Silver (Ag)	<0.20		0.20	ug/g	06-MAY-21	0.5	40	20	
Thallium (TI)	< 0.50		0.50	ug/g	06-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g	06-MAY-21	2.5	33	23	
Vanadium (V)	14.0		1.0	ug/g	06-MAY-21	86	86	86	
Zinc (Zn)	21.1		5.0	ug/g	06-MAY-21	290	340	340	
Volatile Organic Compounds									
Benzene	<0.0068		0.0068	ug/g	06-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.018	ug/g	06-MAY-21	0.05	1.9	1.9	
Toluene	<0.080		0.080	ug/g	06-MAY-21	0.2	7.8	0.99	
o-Xylene	< 0.020		0.020	ug/g	06-MAY-21				
m+p-Xylenes	< 0.030		0.030	ug/g	06-MAY-21				
Xylenes (Total)	< 0.050		0.050	ug/g	06-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	119.2		50-140	%	06-MAY-21				
Surrogate: 1,4-Difluorobenzene	118.4		50-140	%	06-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	06-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	06-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	06-MAY-21	10	26	10	
F3 (C16-C34)	<50		50	ug/g	06-MAY-21	240	1700	300	
F4 (C34-C50)	<50		50	ug/g	06-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	06-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	06-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	84.1		60-140	%	06-MAY-21				
Surrogate: 3,4-Dichlorotoluene	113.9		60-140	%	06-MAY-21				

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

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



46995-100

ANALYTICAL GUIDELINE REPORT

L2583155 CONTD....

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46995-100 Sample Details							1	0-MAY-21 1	0:19 (MT)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2583155-7 BH115-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 03-MAY-21 @ 10:55									
Matrix: SOIL						#1	#2	#3	
Physical Tests									
% Moisture	3.47		0.25	%	05-MAY-21				
Metals	3.47		0.25	/6	03-1017 1-21				
Antimony (Sb)	<1.0		1.0	ug/g	06-MAY-21	1.3	40	7.5	
Arsenic (As)	2.5		1.0	ug/g	06-MAY-21	18	18	18	
Barium (Ba)	13.5		1.0	ug/g	06-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g	06-MAY-21	2.5	8	4	
Boron (B)	6.6		5.0	ug/g	06-MAY-21	36	120	120	
Cadmium (Cd)	<0.50		0.50	ug/g	06-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	7.9		1.0	ug/g	06-MAY-21	70	160	160	
Cobalt (Co)	2.7		1.0	ug/g	06-MAY-21	21	80	22	
Copper (Cu)	15.0		1.0	ug/g	06-MAY-21	92	230	140	
Lead (Pb)	6.8		1.0	ug/g	06-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	06-MAY-21	2	40	6.9	
Nickel (Ni)	6.0		1.0	ug/g	06-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	06-MAY-21	1.5	5.5	2.4	
Silver (Ag)	<0.20		0.20	ug/g	06-MAY-21	0.5	40	20	
Thallium (TI)	<0.50		0.50	ug/g	06-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g	06-MAY-21	2.5	33	23	
Vanadium (V)	17.8		1.0	ug/g	06-MAY-21	86	86	86	
Zinc (Zn)	61.2		5.0	ug/g	06-MAY-21	290	340	340	
Volatile Organic Compounds	02		0.0	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	00	200	0.0	0.0	
Benzene	<0.0068		0.0068	ug/g	06-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.000		0.0008	ug/g	06-MAY-21	0.02	1.9	1.9	
Toluene	<0.010		0.010	ug/g	06-MAY-21	0.03	7.8	0.99	
o-Xylene	<0.020		0.000	ug/g	06-MAY-21	0.2	7.0	0.99	
m+p-Xylenes	<0.020		0.020	ug/g	06-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	06-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	117.9		50-140	%	06-MAY-21	0.00		0.0	
Surrogate: 1,4-Difluorobenzene	118.6		50-140	%	06-MAY-21				
Hydrocarbons			00	,,,	00				
F1 (C6-C10)	<5.0		5.0	ug/g	06-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	06-MAY-21	25 25	25	25	
F2 (C10-C16)	<10		10	ug/g	06-MAY-21	10	26	10	
F3 (C16-C34)	<50		50	ug/g	06-MAY-21	240	1700	300	
F4 (C34-C50)	<50		50	ug/g	06-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	06-MAY-21	120	3300	2000	
Chrom, to baseline at nC50	YES		'-	No Unit	06-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	81.9		60-140	%	06-MAY-21				
Surrogate: 3,4-Dichlorotoluene	108.4		60-140	%	06-MAY-21				
L2583155-12 BH114-21 SS2 2.5-4.0 FT									
Sampled By: MATT D on 03-MAY-21 @ 11:25									
						#1	#2	#3	
Physical Tests									
% Moisture	4.36		0.25	%	05-MAY-21				
рН	7.92		0.10	pH units	05-MAY-21				

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

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



46995-100

ANALYTICAL GUIDELINE REPORT

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6995-100 10-MAY-21 10:19 (MT)									
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed				
L2583155-12 BH114-21 SS2 2.5-4.0 FT									
Sampled By: MATT D on 03-MAY-21 @ 11:25									
Matrix: SOIL						#1	#2	#3	
Saturated Paste Extractables									
SAR	17.5		0.10	SAR	06-MAY-21	*2.4	*12	*5	
Calcium (Ca)	1.23		0.50	mg/L	06-MAY-21	2.7	12		
Magnesium (Mg)	1.17		0.50	mg/L	06-MAY-21				
Sodium (Na)	113		0.50	mg/L	06-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	06-MAY-21	1.3	40	7.5	
Arsenic (As)	4.3		1.0	ug/g	06-MAY-21	18	18	18	
Barium (Ba)	23.8		1.0	ug/g	06-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g	06-MAY-21	2.5	8	4	
Boron (B)	6.3		5.0	ug/g	06-MAY-21	36	120	120	
Cadmium (Cd)	<0.50		0.50	ug/g	06-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	11.9		1.0	ug/g	06-MAY-21	70	160	160	
Cobalt (Co)	3.8		1.0	ug/g	06-MAY-21	21	80	22	
Copper (Cu)	18.9		1.0	ug/g	06-MAY-21	92	230	140	
Lead (Pb)	9.0		1.0	ug/g	06-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	06-MAY-21	2	40	6.9	
Nickel (Ni)	9.3		1.0	ug/g	06-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	06-MAY-21	1.5	5.5	2.4	
Silver (Ag)	<0.20		0.20	ug/g	06-MAY-21	0.5	40	20	
Thallium (TI)	<0.50		0.50	ug/g	06-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g	06-MAY-21	2.5	33	23	
Vanadium (V)	22.7		1.0	ug/g	06-MAY-21	86	86	86	
Zinc (Zn)	50.7		5.0	ug/g	06-MAY-21	290	340	340	
Volatile Organic Compounds	00.7		0.0	ug/g	00 1007 (1 21	250	340	340	
Benzene	<0.0068		0.0068	110/0	06-MAY-21	0.00	0.024	0.02	
Ethylbenzene	<0.008		0.008	ug/g	06-MAY-21	0.02	0.034	1.9	
Toluene	<0.018		0.018	ug/g	06-MAY-21	0.05 0.2	1.9 7.8	0.99	
o-Xylene	<0.080		0.080	ug/g	06-MAY-21	0.2	7.0	0.99	
m+p-Xylenes	<0.020		0.020	ug/g	06-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g ug/g	06-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	116.7		50-140	ug/g %	06-MAY-21	0.03		0.8	
Surrogate: 1,4-Difluorobenzene	117.6		50-140	% %	06-MAY-21				
Hydrocarbons	117.0		55-1 4 0	/0	00 WIA 1-21				
F1 (C6-C10)	<5.0		5.0	ug/g	06-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g ug/g	06-MAY-21	25 25	25 25	25 25	
F2 (C10-C16)	<10		10	ug/g ug/g	06-MAY-21	10	26	10	
F3 (C16-C34)	<50		50	ug/g ug/g	06-MAY-21	240	1700	300	
F4 (C34-C50)	<50		50	ug/g ug/g	06-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g ug/g	06-MAY-21	120	3300	2000	
Chrom. to baseline at nC50	YES		, 2	No Unit	06-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	83.0		60-140	%	06-MAY-21				
Surrogate: 3,4-Dichlorotoluene	109.3		60-140	%	06-MAY-21				
L2583155-13 BH114-21 SS3 5-7 FT									
Sampled By: MATT D on 03-MAY-21 @ 11:35									
Matrix: SOIL						#1	#2	#3	

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

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



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L2583155 CONTD....

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3.50 <1.0 1.8 10.5 <0.50	Qualifier	D.L. 0.25	Units %	Analyzed	#1	Guidelin #2	#3	
<1.0 1.8 10.5		0.25	%		#1	#2	#3	
<1.0 1.8 10.5		0.25	%		#1	#2	#3	
<1.0 1.8 10.5		0.25	%		#1	#2	#3	
<1.0 1.8 10.5		0.25	%					
<1.0 1.8 10.5		0.25	%					
<1.0 1.8 10.5		0.20		05-MAY-21				
1.8 10.5				00 1111 21				
1.8 10.5		1.0	ug/g	06-MAY-21	1.3	40	7.5	
10.5		1.0	ug/g	06-MAY-21	18	18	18	
<0.50		1.0	ug/g	06-MAY-21	220	670	390	
~0.50		0.50	ug/g	06-MAY-21	2.5	8	4	
6.1		5.0	ug/g	06-MAY-21	36	120	120	
< 0.50		0.50	ug/g	06-MAY-21	1.2	1.9	1.2	
5.4		1.0	ug/g	06-MAY-21	70	160	160	
1.7		1.0	ug/g	06-MAY-21	21	80	22	
10.2		1.0	ug/g	06-MAY-21	92	230	140	
7.3		1.0	ug/g	06-MAY-21	120	120	120	
<1.0		1.0	ug/g	06-MAY-21	2	40	6.9	
3.7		1.0	ug/g	06-MAY-21	82	270	100	
<1.0		1.0	ug/g	06-MAY-21	1.5	5.5	2.4	
<0.20		0.20	ug/g	06-MAY-21	0.5	40	20	
< 0.50		0.50	ug/g	06-MAY-21	1	3.3	1	
<1.0		1.0	ug/g	06-MAY-21	2.5	33	23	
10.7		1.0	ug/g	06-MAY-21	86	86	86	
36.5		5.0	ug/g	06-MAY-21	290	340	340	
<0.0068		0.0068	ug/g	06-MAY-21	0.02	0.034	0.02	
<0.018		0.018	ug/g	06-MAY-21	0.05	1.9	1.9	
<0.080		0.080	ug/g	06-MAY-21	0.2	7.8	0.99	
< 0.020		0.020	ug/g	06-MAY-21				
< 0.030		0.030	ug/g	06-MAY-21				
			ug/g		0.05	3	0.9	
129.8		50-140	%	06-MAY-21				
					120	3300	2800	
		72						
		00.440						
	1.7 10.2 7.3 <1.0 3.7 <1.0 <0.20 <0.50 <1.0 10.7 36.5 <0.0068 <0.018 <0.080 <0.020	1.7 10.2 7.3 <1.0 3.7 <1.0 <0.20 <0.50 <1.0 10.7 36.5 <0.0068 <0.018 <0.080 <0.020 <0.030 <0.050 127.8 129.8 <5.0 <50 <10 <50 <72 YES 86.0	1.7 1.0 10.2 1.0 7.3 1.0 <1.0	1.7 1.0 ug/g 10.2 1.0 ug/g 7.3 1.0 ug/g 3.7 1.0 ug/g 41.0 1.0 ug/g 41.0 1.0 ug/g 40.20 0.20 ug/g 40.50 0.50 ug/g 40.50 0.50 ug/g 40.00 1.0 ug/g 40.00 1.0 ug/g 40.00 0.00 1.0 ug/g 06-MAY-21 10.2 1.0 ug/g 06-MAY-21 7.3 1.0 ug/g 06-MAY-21 <1.0	1.7 1.0 ug/g 06-MAY-21 21 10.2 1.0 ug/g 06-MAY-21 92 7.3 1.0 ug/g 06-MAY-21 120 <1.0	1.7	1.7	

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

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

BTX-511-HS-WT

Reference Information

Sample Parameter Qualifier key listed:

Qualifier Description

SAR:L SAR is incalculable due to Ca and Mg below DL (with Na above DL). Lowest possible SAR is reported as minimum value.

Methods Listed (if applicable):

ALS Test Code Matrix Test Description Method Reference***

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

BTEX-O.Reg 153/04 (July 2011) SW846 8260

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-WT Soil Conductivity (EC) MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

F1-F4-511-CALC-WT Sc

VT Soil F1-F4 Hydrocarbon Calculated CCME CWS-PHC, Pub #1310, Dec 2001-S

Parameters

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

Hydrocarbon results are expressed on a dry weight basis.

Soil

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
- 3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
- 4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT Soil F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:

- 1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- 2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- 3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
- 4. F4G: Gravimetric Heavy Hydrocarbons
- 5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
- 6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
- 7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
- 8. This method is validated for use.
- 9. Data from analysis of validation and quality control samples is available upon request.
- 10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

MET-200.2-CCMS-WT

Soil

Metals in Soil by CRC ICPMS

EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MOISTURE-WT

Soil

% Moisture

CCME PHC in Soil - Tier 1 (mod)

PH-WT

Soil

nН

MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

SAR-R511-WT

Soil

SAR-O.Reg 153/04 (July 2011)

SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

XYLENES-SUM-CALC-

Soil

Sum of Xylene Isomer

CALCULATION

T Concentrations

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

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code Laboratory Location Laboratory Definition Code Laboratory Location

WT ALS ENVIRONMENTAL - WATERLOO,
ONTARIO, CANADA

L2583155 CONTD.... Page 8 of 8 10-MAY-21 10:19 (MT)

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million. < - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



Workorder: L2583155 Report Date: 10-MAY-21 Page 1 of 6

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Гest	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	Soil							
	451664							
WG3529129-4 Benzene	DUP	WG3529129-3 < 0.0068	<0.0068	RPD-NA	ug/g	N/A	40	06-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	06-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	06-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g ug/g	N/A	40	06-MAY-21
Toluene		<0.020	<0.020				-	
	1.00	<0.000	<0.000	RPD-NA	ug/g	N/A	40	06-MAY-21
WG3529129-2 Benzene	LCS		98.6		%		70-130	06-MAY-21
Ethylbenzene			92.9		%		70-130	06-MAY-21
m+p-Xylenes			94.0		%		70-130	06-MAY-21
o-Xylene			93.3		%		70-130	06-MAY-21
Toluene			93.4		%		70-130	06-MAY-21
WG3529129-1 Benzene	МВ		<0.0068		ug/g		0.0068	06-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	06-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	06-MAY-21
o-Xylene			<0.020		ug/g		0.02	06-MAY-21
Toluene			<0.080		ug/g		0.08	06-MAY-21
Surrogate: 1,4-D	Difluorobenzene		129.7		%		50-140	06-MAY-21
_	omofluorobenzene		133.9		%		50-140	06-MAY-21
WG3529129-5	MS	WG3529129-3						
Benzene			96.0		%		60-140	06-MAY-21
Ethylbenzene			84.1		%		60-140	06-MAY-21
m+p-Xylenes			89.0		%		60-140	06-MAY-21
o-Xylene			85.6		%		60-140	06-MAY-21
Toluene			87.4		%		60-140	06-MAY-21
EC-WT	Soil							
Batch R54	453259							
WG3529798-4 Conductivity	DUP	WG3529798-3 0.325	0.322		mS/cm	0.9	20	06-MAY-21
WG3529798-2 Conductivity	IRM	WT SAR4	112.3		%		70-130	06-MAY-21
WG3530078-1 Conductivity	LCS		96.9		%		90-110	06-MAY-21
WG3529798-1 Conductivity	MB		<0.0040		mS/cm		0.004	06-MAY-21



Workorder: L2583155 Report Date: 10-MAY-21 Page 2 of 6

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT		Soil							
Batch R5	5451664								
WG3529129-4 F1 (C6-C10)	DUP		WG3529129-3 <5.0	<5.0	RPD-NA	ug/g	N/A	30	06-MAY-21
WG3529129-2 F1 (C6-C10)	LCS			99.3		%		80-120	06-MAY-21
WG3529129-1 F1 (C6-C10)	MB			<5.0		ug/g		5	06-MAY-21
Surrogate: 3,4-	Dichloroto	oluene		123.2		%		60-140	06-MAY-21
WG3529129-5 F1 (C6-C10)	MS		WG3529129-3	97.1		%		60-140	06-MAY-21
F2-F4-511-WT		Soil							
Batch R5	5452440								
WG3529039-3	DUP		WG3529039-5						
F2 (C10-C16)			<10	<10	RPD-NA	ug/g	N/A	30	06-MAY-21
F3 (C16-C34)			<50	<50	RPD-NA	ug/g	N/A	30	06-MAY-21
F4 (C34-C50)			<50	<50	RPD-NA	ug/g	N/A	30	06-MAY-21
WG3529039-2 F2 (C10-C16)	LCS			89.4		%		80-120	06-MAY-21
F3 (C16-C34)				92.2		%		80-120	06-MAY-21
F4 (C34-C50)				89.7		%		80-120	06-MAY-21
WG3529039-1 F2 (C10-C16)	MB			<10		ug/g		10	06-MAY-21
F3 (C16-C34)				<50		ug/g		50	06-MAY-21
F4 (C34-C50)				<50		ug/g		50	06-MAY-21
Surrogate: 2-Bi	romobenz	otrifluoride		85.9		%		60-140	06-MAY-21
WG3529039-4	MS		WG3529039-5						00 111111 21
F2 (C10-C16)	-			73.0		%		60-140	06-MAY-21
F3 (C16-C34)				76.0		%		60-140	06-MAY-21
F4 (C34-C50)				75.8		%		60-140	06-MAY-21
MET-200.2-CCMS-	·WT	Soil							
Batch R	5453396								
WG3529802-2 Antimony (Sb)	CRM		WT-SS-2	96.3		%		70-130	06-MAY-21
Arsenic (As)				102.5		%		70-130	06-MAY-21
Barium (Ba)				108.7		%		70-130	06-MAY-21
Beryllium (Be)				95.3		%		70-130	06-MAY-21
Boron (B)				8.6		mg/kg		3.5-13.5	06-MAY-21



Workorder: L2583155 Report Date: 10-MAY-21 Page 3 of 6

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5453396								
WG3529802-2 CRM		WT-SS-2			0/			
Cadmium (Cd)			101.9		%		70-130	06-MAY-21
Chromium (Cr)			96.7		%		70-130	06-MAY-21
Cobalt (Co)			99.1		%		70-130	06-MAY-21
Copper (Cu)			101.8		%		70-130	06-MAY-21
Lead (Pb) Molybdenum (Mo)			106.1		%		70-130	06-MAY-21
Nickel (Ni)			105.3		%		70-130	06-MAY-21
Selenium (Se)			100.2 0.12				70-130	06-MAY-21
Silver (Ag)			80.6		mg/kg %		0-0.34	06-MAY-21
Thallium (TI)			0.076				70-130	06-MAY-21
Uranium (U)			95.8		mg/kg %			06-MAY-21
Vanadium (V)			98.1		%		70-130	06-MAY-21
Zinc (Zn)			96.9		%		70-130 70-130	06-MAY-21
WG3529802-4 DUP		L2581910-3	90.9		76		70-130	06-MAY-21
Antimony (Sb)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	06-MAY-21
Arsenic (As)		2.6	2.4		ug/g	8.1	30	06-MAY-21
Barium (Ba)		84.1	81.2		ug/g	3.5	40	06-MAY-21
Beryllium (Be)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	06-MAY-21
Boron (B)		9.1	8.2		ug/g	10	30	06-MAY-21
Cadmium (Cd)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	06-MAY-21
Chromium (Cr)		16.8	15.7		ug/g	7.0	30	06-MAY-21
Cobalt (Co)		5.8	5.6		ug/g	3.5	30	06-MAY-21
Copper (Cu)		12.9	12.3		ug/g	4.9	30	06-MAY-21
Lead (Pb)		5.8	5.6		ug/g	3.6	40	06-MAY-21
Molybdenum (Mo)		<1.0	<1.0	RPD-NA	ug/g	N/A	40	06-MAY-21
Nickel (Ni)		12.8	12.1		ug/g	6.1	30	06-MAY-21
Selenium (Se)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	06-MAY-21
Silver (Ag)		<0.20	<0.20	RPD-NA	ug/g	N/A	40	06-MAY-21
Thallium (TI)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	06-MAY-21
Uranium (U)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	06-MAY-21
Vanadium (V)		28.9	26.9		ug/g	7.1	30	06-MAY-21
Zinc (Zn)		28.4	26.8		ug/g	5.8	30	06-MAY-21
WG3529802-3 LCS			- · -		- 3-3	0.0		55 11111 21



Workorder: L2583155 Report Date: 10-MAY-21 Page 4 of 6

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5453396								
WG3529802-3 LCS Antimony (Sb)			119.0		%		80-120	06-MAY-21
Arsenic (As)			109.9		%		80-120	06-MAY-21
Barium (Ba)			109.8		%		80-120	06-MAY-21
Beryllium (Be)			102.2		%		80-120	06-MAY-21
Boron (B)			95.8		%		80-120	06-MAY-21
Cadmium (Cd)			111.8		%		80-120	06-MAY-21
Chromium (Cr)			107.9		%		80-120	06-MAY-21
Cobalt (Co)			107.4		%		80-120	06-MAY-21
Copper (Cu)			105.0		%		80-120	06-MAY-21
Lead (Pb)			115.2		%		80-120	06-MAY-21
Molybdenum (Mo)			114.4		%		80-120	06-MAY-21
Nickel (Ni)			105.0		%		80-120	06-MAY-21
Selenium (Se)			108.7		%		80-120	06-MAY-21
Silver (Ag)			95.4		%		80-120	06-MAY-21
Thallium (TI)			115.2		%		80-120	06-MAY-21
Uranium (U)			110.5		%		80-120	06-MAY-21
Vanadium (V)			110.1		%		80-120	06-MAY-21
Zinc (Zn)			103.6		%		80-120	06-MAY-21
WG3529802-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	06-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	06-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	06-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	06-MAY-21
Boron (B)			<5.0		mg/kg		5	06-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	06-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	06-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	06-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	06-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	06-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	06-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	06-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	06-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	06-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	06-MAY-21



Workorder: L2583155 Report Date: 10-MAY-21

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MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R545339 WG3529802-1 MB Uranium (U)	6		<0.050		malka		0.05	00 MAY 04
Vanadium (V)			<0.050		mg/kg mg/kg		0.03	06-MAY-21 06-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	06-MAY-21
	0 - 11		12.0		g/Ng		-	00-IVIA 1 -2 1
MOISTURE-WT	Soil							
Batch R544934 WG3529035-3 DUP % Moisture	I	L2583126-16 16.2	17.6		%	8.3	20	05-MAY-21
WG3529035-2 LCS % Moisture			99.6		%		90-110	05-MAY-21
WG3529035-1 MB % Moisture			<0.25		%		0.25	05-MAY-21
PH-WT	Soil							
Batch R545003								
WG3529038-1 DUP pH		L2583510-1 7.87	7.98	J	pH units	0.11	0.3	05-MAY-21
WG3529239-1 LCS pH			7.01		pH units		6.9-7.1	05-MAY-21
SAR-R511-WT	Soil							
Batch R545329	7							
WG3529798-4 DUP Calcium (Ca)		WG3529798-3 2.16	1.97		mg/L	9.2	30	06-MAY-21
Sodium (Na)		57.0	56.7		mg/L	0.5	30	06-MAY-21
Magnesium (Mg)		1.33	1.18		mg/L	12	30	06-MAY-21
WG3529798-2 IRM Calcium (Ca)		WT SAR4	110.3		%		70-130	06-MAY-21
Sodium (Na)			101.4		%		70-130	06-MAY-21
Magnesium (Mg)			112.8		%		70-130	06-MAY-21
WG3529798-5 LCS Calcium (Ca)			105.0		%		80-120	06-MAY-21
Sodium (Na)			97.0		%		80-120	06-MAY-21
Magnesium (Mg)			100.2		%		80-120	06-MAY-21
WG3529798-1 MB Calcium (Ca)			<0.50		mg/L		0.5	06-MAY-21
Sodium (Na)			<0.50		mg/L		0.5	06-MAY-21
Magnesium (Mg)			<0.50		mg/L		0.5	06-MAY-21

Workorder: L2583155 Report Date: 10-MAY-21

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Legend:

Limit ALS Control Limit (Data Quality Objectives)
DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

ADE Average Desorption Efficiency

MB Method Blank

IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

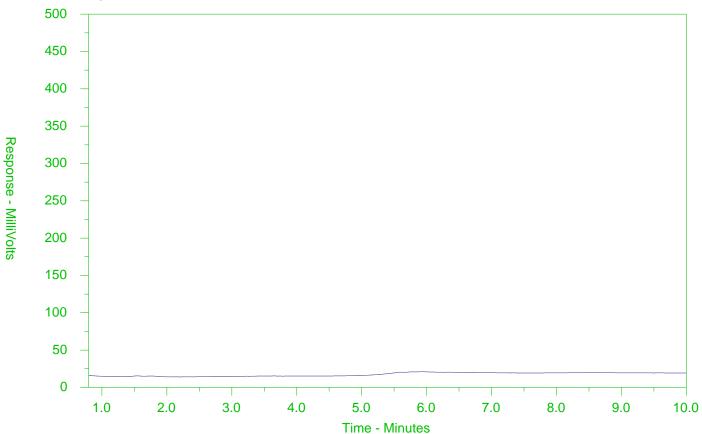
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



ALS Sample ID: L2583155-5

Client Sample ID: BH116-21 SS4 7.5-9.5 FT



← -F2-	→ ←	—F3 → ← F4—	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ıe →	← Mot	or Oils/Lube Oils/Grease-	
←	- Diesel/Je	t Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

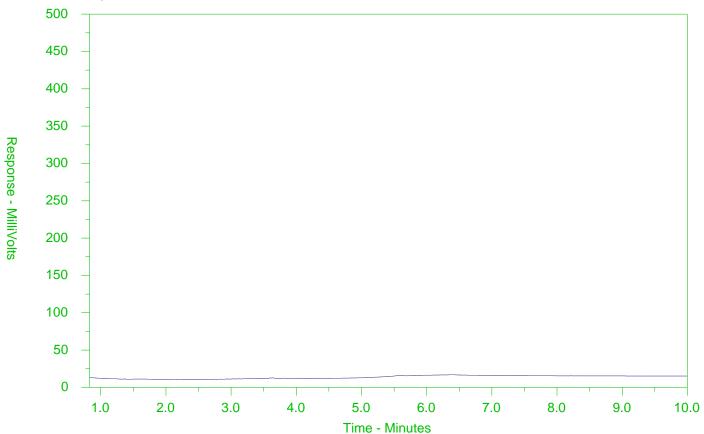
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2583155-7

Client Sample ID: BH115-21 SS2 2.5-4.5 FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

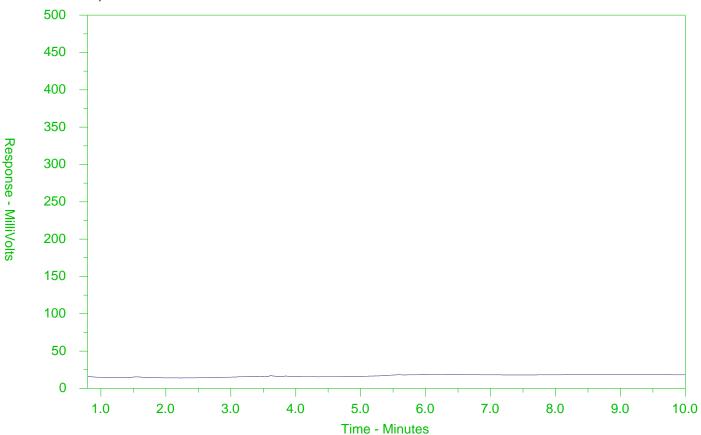
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2583155-12

Client Sample ID: BH114-21 SS2 2.5-4.0 FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

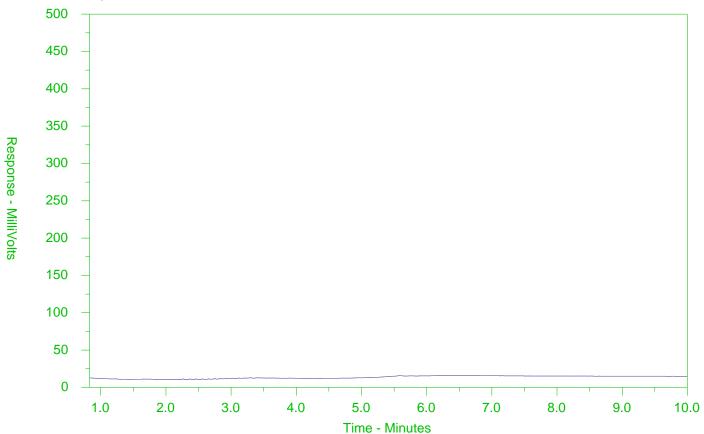
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2583155-13

Client Sample ID: BH114-21 SS3 5-7 FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



Chain of Custody (COC) / Analytical Request Form



(ALS	S) CONTRACTOR OF THE STATE OF T	Request Form				*		
	WWw alcolate	i asset only	<i> </i>		118			
Report To	www.alsglobal.com	Canada Toll Free: 1 800 668 9878				ा	Number: 17 -	
Company:	Contact and company name below will appear on the				(
Contact:	Jen Lambke	final report	L258	83155-C			Page 2	つ
Phone:	519-502-3268	Report Format	Distri	- 100-0	OFC		of	_
	C						Sike	
Street:	Company address below will appear on the final report	Cuntral (OC) B	EXCEL FDD (DIGITAL)	T R	Anulas ras	ict y	our AM to confirm all East	
City/Province:	520 Bingemans Centre Drive	Compare Results to Criteria on Report - pr	POIL YES NO	<u> </u>	Stano	ru ini if receiv	ved by 3 pm busi	TATs (surcharges may af Ply)
Postal Code:	Kitchener Sentre Drive	☑Compare Results to Criteria on Report - pr Select Distribution: ☑ EMAIL	MAIL FAY	E 2 7 40	ay [P4-20%]	ŷ 1 F	our AM to confirm all E&P ved by 3 pm - business days - no	surcharges apply
		Email 1 or Fax <u>illambke@mte85.com</u>	MAIL FAX	E E I THE	·y [F3-25%]	1 % 1		
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Ken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form. VMILE - LABUKATORY COPY

**Storm LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.



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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878



L2583155-COFC

COC Number: 17 -

Page 1 of Z

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MTE CONSULTANTS INC. (Kitchener)

ATTN: JEN LAMBKE

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Date Received: 04-MAY-21

Report Date: 11-MAY-21 08:07 (MT)

Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2583126

Project P.O. #: NOT SUBMITTED

Job Reference: 46995-100

C of C Numbers: DAY 3 SITE D & M 148

Legal Site Desc:

Comments: ADDITIONAL 04-MAY-21 11:15

Emily Hansen Account Manager

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

ADDRESS: 60 Northland Road, Unit 1, Waterloo, ON N2V 2B8 Canada | Phone: +1 519 886 6910 | Fax: +1 519 886 9047

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ANALYTICAL GUIDELINE REPORT

L2583126 CONTD.... Page 2 of 13

46995-100 11-MAY-21 08:07 (MT) Sample Details Grouping Analyte Result Qualifier D.L. Units Analyzed **Guideline Limits** L2583126-2 BH148-21 SS2 2.5-4.5 FT Sampled By: MATT D on 30-APR-21 @ 08:25 #1 #2 #3 Matrix: SOIL **Physical Tests** 0.0040 mS/cm *0.57 *0.7 Conductivity 1.04 06-MAY-21 1.4 % Moisture 12.3 0.25 % 05-MAY-21 рΗ 7.79 0.10 pH units 05-MAY-21 **Saturated Paste Extractables** 37.0 SAR:M 0.10 SAR 06-MAY-21 *2.4 *12 *5 3.01 0.50 06-MAY-21 Calcium (Ca) mg/L Magnesium (Mg) < 0.50 0.50 mg/L 06-MAY-21 Sodium (Na) 233 0.50 mg/L 06-MAY-21 Metals Antimony (Sb) <1.0 1.0 06-MAY-21 1.3 40 7.5 ug/g Arsenic (As) 2.1 1.0 06-MAY-21 ug/g 18 18 18 Barium (Ba) 35.7 1.0 ug/g 06-MAY-21 220 670 390 Beryllium (Be) < 0.50 0.50 06-MAY-21 2.5 8 4 ug/g Boron (B) 5.5 5.0 06-MAY-21 ug/g 36 120 120 Cadmium (Cd) < 0.50 0.50 06-MAY-21 ug/g 1.2 1.9 1.2 12.0 06-MAY-21 Chromium (Cr) 1.0 ug/g 70 160 160 Cobalt (Co) 3.6 1.0 06-MAY-21 21 80 22 ug/g Copper (Cu) 7.7 1.0 06-MAY-21 230 140 ug/g 92 6.4 06-MAY-21 120 Lead (Pb) 1.0 ug/g 120 120 Molybdenum (Mo) <1.0 1.0 ug/g 06-MAY-21 2 40 6.9 Nickel (Ni) 7.3 1.0 06-MAY-21 82 270 100 ug/g Selenium (Se) <1.0 1.0 06-MAY-21 5.5 ug/g 1.5 2.4 Silver (Ag) < 0.20 0.20 06-MAY-21 0.5 40 20 ug/g Thallium (TI) < 0.50 0.50 06-MAY-21 ug/g 3.3 1 06-MAY-21 Uranium (U) <1.0 1.0 ug/g 2.5 33 23 Vanadium (V) 24.1 1.0 ug/g 06-MAY-21 86 86 86 Zinc (Zn) 39.6 5.0 06-MAY-21 290 340 340 ug/g **Volatile Organic Compounds** Benzene <0.0068 0.0068 ug/g 06-MAY-21 0.02 0.034 0.02 < 0.018 0.018 06-MAY-21 Ethylbenzene 0.05 1.9 ug/g 1.9 Toluene < 0.080 0.080 06-MAY-21 0.99 ug/g 0.2 7.8 < 0.020 0.020 06-MAY-21 o-Xylene ug/g 06-MAY-21 m+p-Xylenes < 0.030 0.030 ug/g Xylenes (Total) < 0.050 0.050 ug/g 06-MAY-21 0.05 3 0.9 Surrogate: 4-Bromofluorobenzene 119.0 50-140 % 06-MAY-21 Surrogate: 1,4-Difluorobenzene 118.5 50-140 % 06-MAY-21 Hydrocarbons F1 (C6-C10) <5.0 5.0 06-MAY-21 25 25 ug/g 25 F1-BTEX <5.0 5.0 ug/g 06-MAY-21 25 25 25 F2 (C10-C16) <10 10 06-MAY-21 10 26 10 ug/g 06-MAY-21 F2-Naphth <10 10 ug/g F3 (C16-C34) <50 50 06-MAY-21 ug/g 240 1700 300 F3-PAH < 50 50 06-MAY-21 ug/g F4 (C34-C50) <50 50 ug/g 06-MAY-21 120 3300 2800 Total Hydrocarbons (C6-C50) <72 72 06-MAY-21 ug/g

YES

Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

No Unit

06-MAY-21

Chrom. to baseline at nC50

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

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



ANALYTICAL GUIDELINE REPORT

L2583126 CONTD.... Page 3 of 13

46995-100 11-MAY-21 08:07 (MT) Sample Details D.L. Units Grouping Analyte Result Qualifier Analyzed **Guideline Limits** L2583126-2 BH148-21 SS2 2.5-4.5 FT Sampled By: MATT D on 30-APR-21 @ 08:25 #1 #2 #3 Matrix: SOIL **Hvdrocarbons** 89.2 60-140 06-MAY-21 Surrogate: 2-Bromobenzotrifluoride % 103.8 Surrogate: 3,4-Dichlorotoluene 60-140 % 06-MAY-21 **Polycyclic Aromatic Hydrocarbons** 0.050 06-MAY-21 Acenaphthene < 0.050 0.072 15 0.093 ug/g Acenaphthylene < 0.050 0.050 06-MAY-21 0.093 0.093 ug/g 14 < 0.050 0.050 06-MAY-21 Anthracene 0.16 ug/g 0.16 0.16 Benzo(a)anthracene < 0.050 0.050 ug/g 06-MAY-21 0.36 1 0.5 Benzo(a)pyrene < 0.050 0.050 ug/g 06-MAY-21 0.3 0.7 0.57 06-MAY-21 Benzo(b&j)fluoranthene < 0.050 0.050 ug/g 0.47 7 5.7 Benzo(g,h,i)perylene < 0.050 0.050 ug/g 06-MAY-21 0.68 13 6.6 Benzo(k)fluoranthene < 0.050 0.050 06-MAY-21 0.48 7 ug/g 5.7 < 0.050 0.050 06-MAY-21 Chrysene ug/g 2.8 14 7 < 0.050 0.050 06-MAY-21 Dibenz(a,h)anthracene 0.1 0.7 0.57 ug/g Fluoranthene < 0.050 0.050 ug/g 06-MAY-21 0.56 70 0.69 Fluorene < 0.050 0.050 ug/g 06-MAY-21 0.12 6.8 6.8 Indeno(1,2,3-cd)pyrene < 0.050 0.050 ug/g 06-MAY-21 0.23 0.76 0.38 1+2-Methylnaphthalenes < 0.042 0.042 06-MAY-21 0.92 ug/g 0.59 8.7 < 0.030 0.030 06-MAY-21 1-Methylnaphthalene 0.59 8.7 0.92 ug/g 2-Methylnaphthalene < 0.030 0.030 ug/g 06-MAY-21 0.59 8.7 0.92 Naphthalene < 0.013 0.013 ug/g 06-MAY-21 0.09 1.8 0.59 Phenanthrene < 0.046 0.046 06-MAY-21 ug/g 0.69 12 6.2 < 0.050 0.050 06-MAY-21 70 70 Pyrene ug/g 1 92.0 50-140 06-MAY-21 Surrogate: 2-Fluorobiphenyl % 50-140 Surrogate: d14-Terphenyl 95.2 % 06-MAY-21 L2583126-6 BH121-21 SS2 2.5-4.5 FT Sampled By: MATT D on 30-APR-21 @ 09:35 #1 #2 #3 Matrix: SOIL **Physical Tests** % Moisture 12.0 0.25 % 05-MAY-21 Metals 06-MAY-21 Antimony (Sb) <1.0 1.0 ug/g 1.3 40 7.5 Arsenic (As) 4.2 1.0 ug/g 06-MAY-21 18 18 18 Barium (Ba) 54.7 1.0 06-MAY-21 220 670 390 ug/g Beryllium (Be) < 0.50 0.50 06-MAY-21 ug/g 2.5 8 4 06-MAY-21 Boron (B) 9.4 5.0 ug/g 36 120 120 Cadmium (Cd) < 0.50 0.50 ug/g 06-MAY-21 1.2 1.9 1.2 Chromium (Cr) 15.2 1.0 06-MAY-21 160 160 ug/g 70 Cobalt (Co) 5.9 06-MAY-21 21 22 1.0 80 ug/g 37.9 Copper (Cu) 1.0 ug/g 06-MAY-21 92 230 140 Lead (Pb) 49.5 1.0 ug/g 06-MAY-21 120 120 120 Molybdenum (Mo) <1.0 1.0 06-MAY-21 ug/g 2 40 6.9 Nickel (Ni) 12.8 1.0 06-MAY-21 270 ug/g 82 100 Selenium (Se) <1.0 1.0 06-MAY-21 ug/g 1.5 5.5 2.4

< 0.20

Ontario Regulation 406/19 - Excess Soils - 17-December-20 = [Suite] - ON-406-T1/T3.1-SOIL-RPIICC

0.20

ug/g

06-MAY-21

Silver (Ag)

40

20

0.5

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

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



ANALYTICAL GUIDELINE REPORT

L2583126 CONTD....

Page 4 of 13 11-MAY-21 08:07 (MT)

6995-100 Sample Details							1	1-MAY-21 0	8:07 (M
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2583126-6 BH121-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 30-APR-21 @ 09:35									
Matrix: SOIL						#1	#2	#3	
Metals									
Thallium (TI)	<0.50		0.50	ug/g	06-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g ug/g	06-MAY-21	2.5	3.3 33	23	
Vanadium (V)	24.2		1.0	• •	06-MAY-21	2.5 86	33 86	86	
Zinc (Zn)	95.3		5.0	ug/g ug/g	06-MAY-21	290	340	340	
Volatile Organic Compounds	33.3		3.0	ug/g	00-1017 1-21	290	340	340	
Benzene	<0.0068		0.0068	ug/g	06-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.0008	ug/g ug/g	06-MAY-21	0.02	1.9	1.9	
Toluene	<0.080		0.080	ug/g ug/g	06-MAY-21	0.03	7.8	0.99	
o-Xylene	<0.020		0.020	ug/g ug/g	06-MAY-21	0.2	7.0	0.99	
m+p-Xylenes	<0.030		0.030	ug/g ug/g	06-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	06-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	115.3		50-140	%	06-MAY-21	2.00			
Surrogate: 1,4-Difluorobenzene	114.5		50-140	%	06-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	06-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	06-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	06-MAY-21	10	26	10	
F3 (C16-C34)	55		50	ug/g	06-MAY-21	240	1700	300	
F4 (C34-C50)	<50		50	ug/g	06-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	06-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	06-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	79.8		60-140	%	06-MAY-21				
Surrogate: 3,4-Dichlorotoluene	99.9		60-140	%	06-MAY-21				
2583126-11 BH120-21 SS3 5-7 FT									
Sampled By: MATT D on 30-APR-21 @ 10:30									
Matrix: SOIL						#1	#2	#3	
Tall In									
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	06-MAY-21	1.3	40	7.5	
Arsenic (As)	1.7		1.0	ug/g	06-MAY-21	18	18	18	
Barium (Ba)	13.3		1.0	ug/g	06-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g	06-MAY-21	2.5	8	4	
Boron (B)	<5.0		5.0	ug/g	06-MAY-21	36	120	120	
Cadmium (Cd)	<0.50		0.50	ug/g	06-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	7.3		1.0	ug/g	06-MAY-21	70	160	160	
Cobalt (Co)	2.6		1.0	ug/g	06-MAY-21	21	80	22	
Copper (Cu)	7.3		1.0	ug/g	06-MAY-21	92	230	140	
Lead (Pb)	4.6		1.0	ug/g	06-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	06-MAY-21	2	40	6.9	
Nickel (Ni)	5.6		1.0	ug/g	06-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	06-MAY-21	1.5	5.5	2.4	
Silver (Ag)	<0.20		0.20	ug/g	06-MAY-21	0.5	40	20	
Thallium (TI)	<0.50		0.50	ug/g	06-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g	06-MAY-21	2.5	33	23	
Vanadium (V)	17.1		1.0	ug/g	06-MAY-21	86	86	86	
Zinc (Zn)	24.5		5.0	ug/g	06-MAY-21	290	340	340	

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

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



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46995-100							1	1-MAY-21 0	8:07 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	e Limits	
L2583126-11 BH120-21 SS3 5-7 FT									
Sampled By: MATT D on 30-APR-21 @ 10:30									
						#1	#2	#3	
Matrix: SOIL									
L2583126-16 BH119-21 SS4 7.5-9.5 FT									
Sampled By: MATT D on 30-APR-21 @ 11:30									
Matrix: SOIL						#1	#2	#3	
Physical Tests									
Conductivity	1.17		0.0040	mS/cm	06-MAY-21	*0.57	1.4	*0.7	
% Moisture	16.2		0.25	%	05-MAY-21				
pH	7.97		0.10	pH units	05-MAY-21				
Saturated Paste Extractables									
SAR	25.4		0.10	SAR	06-MAY-21	*2.4	*12	*5	
Calcium (Ca)	6.24		0.50	mg/L	06-MAY-21				
Magnesium (Mg)	0.53		0.50	mg/L	06-MAY-21				
Sodium (Na)	246		0.50	mg/L	06-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	06-MAY-21	1.3	40	7.5	
Arsenic (As)	3.7		1.0	ug/g	06-MAY-21	18	18	18	
Barium (Ba)	12.2		1.0	ug/g	06-MAY-21	220	670	390	
Beryllium (Be)	< 0.50		0.50	ug/g	06-MAY-21	2.5	8	4	
Boron (B)	<5.0		5.0	ug/g	06-MAY-21	36	120	120	
Cadmium (Cd)	< 0.50		0.50	ug/g	06-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	4.9		1.0	ug/g	06-MAY-21	70	160	160	
Cobalt (Co)	1.9		1.0	ug/g	06-MAY-21	21	80	22	
Copper (Cu)	5.1		1.0	ug/g	06-MAY-21	92	230	140	
Lead (Pb)	3.1		1.0	ug/g	06-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	06-MAY-21	2	40	6.9	
Nickel (Ni)	3.7		1.0	ug/g	06-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	06-MAY-21	1.5	5.5	2.4	
Silver (Ag)	<0.20		0.20	ug/g	06-MAY-21	0.5	40	20	
Thallium (TI)	< 0.50		0.50	ug/g	06-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g	06-MAY-21	2.5	33	23	
Vanadium (V)	9.8		1.0	ug/g	06-MAY-21	86	86	86	
Zinc (Zn)	17.7		5.0	ug/g	06-MAY-21	290	340	340	
Volatile Organic Compounds									
Acetone	<0.50		0.50	ug/g	10-MAY-21	0.5	1.8	1.8	
Benzene	<0.0068		0.0068	ug/g	10-MAY-21	0.02	0.034	0.02	
Bromodichloromethane	<0.050		0.050	ug/g	10-MAY-21	0.05	5.8	5.8	
Bromoform	<0.050		0.050	ug/g	10-MAY-21	0.05	2.5	2.5	
Bromomethane	<0.050		0.050	ug/g	10-MAY-21	0.05	0.05	0.05	
Carbon tetrachloride	<0.050		0.050	ug/g	10-MAY-21	0.05	0.05	0.05	
Chlorobenzene	<0.050		0.050	ug/g	10-MAY-21	0.05	0.28	0.28	
Dibromochloromethane Chloroform	<0.050		0.050	ug/g	10-MAY-21	0.05	5.5	5.5	
Chloroform	<0.050		0.050	ug/g	10-MAY-21	0.05	0.26	0.08	
1,2-Dibromoethane	<0.050		0.050	ug/g	10-MAY-21	0.05	0.05	0.05	
1,2-Dichlorobenzene 1,3-Dichlorobenzene	<0.050 <0.050		0.050 0.050	ug/g	10-MAY-21 10-MAY-21	0.05	6.8	3.4	
1,4-Dichlorobenzene	<0.050 <0.050		0.050	ug/g	10-MAY-21	0.05	6.8	4.8	
Dichlorodifluoromethane				ug/g		0.05	0.05	0.05	
Dichiorodinaoromethane	<0.050		0.050	ug/g	10-MAY-21	0.05	1.8	1.8	

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

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



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46995-100							1	1-MAY-21 0	8:07 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelin	ne Limits	
L2583126-16 BH119-21 SS4 7.5-9.5 FT									
Sampled By: MATT D on 30-APR-21 @ 11:30									
Matrix: SOIL						#1	#2	#3	
Volatile Organic Compounds									
1,1-Dichloroethane	< 0.050		0.050	ug/g	10-MAY-21	0.05	0.57	0.14	
1,2-Dichloroethane	<0.050		0.050	ug/g	10-MAY-21	0.05	0.05	0.05	
1,1-Dichloroethylene	<0.050		0.050	ug/g ug/g	10-MAY-21	0.05	0.05	0.05	
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g ug/g	10-MAY-21	0.05	0.05	0.05	
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g ug/g	10-MAY-21	0.05	0.05	0.05	
Methylene Chloride	<0.050		0.050	ug/g ug/g	10-MAY-21	0.05	0.03	0.06	
1,2-Dichloropropane	<0.050		0.050	ug/g ug/g	10-MAY-21	0.05	0.2	0.05	
cis-1,3-Dichloropropene	<0.030		0.030	ug/g ug/g	10-MAY-21	0.05	0.03	0.03	
trans-1,3-Dichloropropene	<0.030		0.030		10-MAY-21				
1,3-Dichloropropene (cis & trans)	<0.030		0.030	ug/g ug/g	10-MAY-21	0.05	0.05	0.05	
Ethylbenzene	<0.042		0.042	ug/g ug/g	10-MAY-21	0.05	1.9	1.9	
n-Hexane	<0.010		0.010		10-MAY-21	0.05	2.5	2.5	
Methyl Ethyl Ketone	<0.50		0.50	ug/g	10-MAY-21			14	
, ,	<0.50		0.50	ug/g	10-MAY-21	0.5	26		
Methyl Isobutyl Ketone MTBE	<0.50			ug/g	10-MAY-21	0.5	17	0.89	
			0.050	ug/g		0.05	0.05	0.05	
Styrene	<0.050		0.050	ug/g	10-MAY-21	0.05	6.8	0.5	
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	10-MAY-21	0.05	0.05	0.05	
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	10-MAY-21	0.05	0.05	0.05	
Tetrachloroethylene	<0.050		0.050	ug/g	10-MAY-21	0.05	0.05	0.05	
Toluene	<0.080		0.080	ug/g	10-MAY-21	0.2	7.8	0.99	
1,1,1-Trichloroethane	<0.050		0.050	ug/g	10-MAY-21	0.05	0.4	0.11	
1,1,2-Trichloroethane	< 0.050		0.050	ug/g	10-MAY-21	0.05	0.05	0.05	
Trichloroethylene	<0.010		0.010	ug/g	10-MAY-21	0.05	0.05	0.05	
Trichlorofluoromethane	< 0.050		0.050	ug/g	10-MAY-21	0.25	0.46	0.46	
Vinyl chloride	<0.020		0.020	ug/g	10-MAY-21	0.02	0.02	0.02	
o-Xylene	<0.020		0.020	ug/g	10-MAY-21				
m+p-Xylenes	< 0.030		0.030	ug/g	10-MAY-21				
Xylenes (Total)	< 0.050		0.050	ug/g	10-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	88.3		50-140	%	10-MAY-21				
Surrogate: 1,4-Difluorobenzene	107.5		50-140	%	10-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	10-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	10-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	06-MAY-21	10	26	10	
F3 (C16-C34)	<50		50	ug/g	06-MAY-21	240	1700	300	
F4 (C34-C50)	<50		50	ug/g	06-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	10-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	06-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	88.2		60-140	%	06-MAY-21				
Surrogate: 3,4-Dichlorotoluene	91.6		60-140	%	10-MAY-21				
L2583126-18 BH118-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 30-APR-21 @ 12:55						ш.а	,40	40	
Matrix: SOIL						#1	#2	#3	
Physical Tests									
% Moisture	4.45		0.25	%	05-MAY-21				
		1	1		1		1	I.	

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

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



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16995-100	MALII	ICAL	GUID	LLINL	KEPUR	X I	1	Page 7 1-MAY-21 0	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed			ne Limits	
L2583126-18 BH118-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 30-APR-21 @ 12:55									
Matrix: SOIL						#1	#2	#3	
Metals									
Antimony (Sb)	<1.0		1.0	110/0	06-MAY-21	4.0	40	7.5	
Arsenic (As)	3.0		1.0	ug/g ug/g	06-MAY-21	1.3 18	40 18	18	
Barium (Ba)	34.6		1.0	ug/g ug/g	06-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g ug/g	06-MAY-21	2.5	8	4	
Boron (B)	7.1		5.0	ug/g	06-MAY-21	36	120	120	
Cadmium (Cd)	<0.50		0.50	ug/g	06-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	9.0		1.0	ug/g ug/g	06-MAY-21	70	160	160	
Cobalt (Co)	3.7		1.0	ug/g ug/g	06-MAY-21	21	80	22	
Copper (Cu)	21.5		1.0	ug/g	06-MAY-21	92	230	140	
Lead (Pb)	26.1		1.0	ug/g	06-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g ug/g	06-MAY-21	2	40	6.9	
Nickel (Ni)	7.8		1.0	ug/g	06-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	06-MAY-21	1.5	5.5	2.4	
Silver (Ag)	<0.20		0.20	ug/g	06-MAY-21	0.5	40	20	
Thallium (TI)	<0.50		0.50	ug/g	06-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g ug/g	06-MAY-21	2.5	33	23	
Vanadium (V)	16.6		1.0	ug/g ug/g	06-MAY-21	86	86	86	
Zinc (Zn)	146		5.0	ug/g	06-MAY-21	290	340	340	
Volatile Organic Compounds	140		0.0	ug/g	00 1007 17 21	230	340	340	
Benzene	<0.0068		0.0068	ua/a	06-MAY-21	0.02	0.034	0.02	
	<0.008			ug/g	06-MAY-21	0.02	0.034		
Ethylbenzene Toluene	<0.018		0.018	ug/g	06-MAY-21	0.05	1.9	1.9	
	<0.080		0.080	ug/g	06-MAY-21	0.2	7.8	0.99	
o-Xylene m+p-Xylenes	<0.020		0.020 0.030	ug/g	06-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g ug/g	06-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	113.9		50-140	ug/g %	06-MAY-21	0.03]	0.9	
Surrogate: 1,4-Difluorobenzene	114.2		50-140	%	06-MAY-21				
Hydrocarbons			00 110	,,,	00 100 11				
F1 (C6-C10)	<5.0		5.0	ug/g	06-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	06-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g ug/g	06-MAY-21	10	26	10	
F3 (C16-C34)	<50		50	ug/g ug/g	06-MAY-21	240	1700	300	
F4 (C34-C50)	<50		50	ug/g	06-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g ug/g	06-MAY-21	120	3300	2000	
Chrom. to baseline at nC50	YES		12	No Unit	06-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	82.3		60-140	%	06-MAY-21				
Surrogate: 3,4-Dichlorotoluene	103.5		60-140	%	06-MAY-21				
.2583126-19 BH118-21 SS3 5-7 FT									
Sampled By: MATT D on 30-APR-21 @ 13:00									
Matrix: SOIL						#1	#2	#3	
Physical Tests Conductivity	1.36		0.0040	mS/cm	06-MAY-21	*0.57	1.4	*0.7	
% Moisture	1.36		0.0040	// // // // // // // // // // // // //	05-MAY-21	0.57	1.4	0.7	
% Moisture Saturated Paste Extractables	13.3		0.23	/0	00-IVIA 1-21				
	60.3	DITIC	0.40	CVD	06 MAY 24	*0.4	*40	*-	
SAR	60.3	DLHC	0.10	SAR	06-MAY-21	*2.4	*12	*5	

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

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



ANALYTICAL GUIDELINE REPORT

L2583126 CONTD....

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46995-100							1	11-MAY-21 0	8:07 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2583126-19 BH118-21 SS3 5-7 FT									
Sampled By: MATT D on 30-APR-21 @ 13:00									
Matrix: SOIL						#1	#2	#3	
Saturated Paste Extractables									
Calcium (Ca)	20	DLHC	10	mg/L	06-MAY-21				
Magnesium (Mg)	<10	DLHC	10	mg/L	06-MAY-21				
Sodium (Na)	972	DLHC	10	mg/L	06-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	06-MAY-21	1.3	40	7.5	
Arsenic (As)	10.1		1.0	ug/g	06-MAY-21	18	18	18	
Barium (Ba)	86.4		1.0	ug/g	06-MAY-21	220	670	390	
Beryllium (Be)	0.76		0.50	ug/g	06-MAY-21	2.5	8	4	
Boron (B)	13.9		5.0	ug/g	06-MAY-21	36	120	120	
Cadmium (Cd)	< 0.50		0.50	ug/g	06-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	26.6		1.0	ug/g	06-MAY-21	70	160	160	
Cobalt (Co)	11.9		1.0	ug/g	06-MAY-21	21	80	22	
Copper (Cu)	31.0		1.0	ug/g	06-MAY-21	92	230	140	
Lead (Pb)	14.3		1.0	ug/g	06-MAY-21	120	120	120	
Molybdenum (Mo)	1.4		1.0	ug/g	06-MAY-21	2	40	6.9	
Nickel (Ni)	26.2		1.0	ug/g	06-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	06-MAY-21	1.5	5.5	2.4	
Silver (Ag)	< 0.20		0.20	ug/g	06-MAY-21	0.5	40	20	
Thallium (TI)	< 0.50		0.50	ug/g	06-MAY-21	1	3.3	1	
Uranium (U)	1.1		1.0	ug/g	06-MAY-21	2.5	33	23	
Vanadium (V)	38.1		1.0	ug/g	06-MAY-21	86	86	86	
Zinc (Zn)	76.1		5.0	ug/g	06-MAY-21	290	340	340	
Volatile Organic Compounds									
Benzene	<0.0068		0.0068	ug/g	06-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.018	ug/g	06-MAY-21	0.05	1.9	1.9	
Toluene	<0.080		0.080	ug/g	06-MAY-21	0.2	7.8	0.99	
o-Xylene	< 0.020		0.020	ug/g	06-MAY-21				
m+p-Xylenes	< 0.030		0.030	ug/g	06-MAY-21				
Xylenes (Total)	< 0.050		0.050	ug/g	06-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	111.0		50-140	%	06-MAY-21				
Surrogate: 1,4-Difluorobenzene	112.3		50-140	%	06-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	06-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	06-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	06-MAY-21	10	26	10	
F3 (C16-C34)	<50		50	ug/g	06-MAY-21	240	1700	300	
F4 (C34-C50)	<50		50	ug/g	06-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	06-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	06-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	97.2		60-140	%	06-MAY-21				
Surrogate: 3,4-Dichlorotoluene	88.8		60-140	%	06-MAY-21				
L2583126-22 BH117-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 30-APR-21 @ 13:50									
Matrix: SOIL						#1	#2	#3	
Physical Tests									
, ordar 100to									

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

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



ANALYTICAL GUIDELINE REPORT

L2583126 CONTD.... Page 9 of 13

46995-100	IVALII	ICAL	GUID	LLINL	KEPUR	X I	1	Page 9 of 1 1-MAY-21 08:07 (M	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed			ne Limits	
L2583126-22 BH117-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 30-APR-21 @ 13:50									
Matrix: SOIL						#1	#2	#3	
Physical Tests									
% Moisture	9.69		0.25	%	05-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	06-MAY-21	1.3	40	7.5	
Arsenic (As)	2.6		1.0	ug/g	06-MAY-21	18	18	18	
Barium (Ba)	77.8		1.0	ug/g	06-MAY-21	220	670	390	
Beryllium (Be)	< 0.50		0.50	ug/g	06-MAY-21	2.5	8	4	
Boron (B)	9.5		5.0	ug/g	06-MAY-21	36	120	120	
Cadmium (Cd)	< 0.50		0.50	ug/g	06-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	9.9		1.0	ug/g	06-MAY-21	70	160	160	
Cobalt (Co)	2.8		1.0	ug/g	06-MAY-21	21	80	22	
Copper (Cu)	23.9		1.0	ug/g	06-MAY-21	92	230	140	
Lead (Pb)	117		1.0	ug/g	06-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	06-MAY-21	2	40	6.9	
Nickel (Ni)	6.0		1.0	ug/g	06-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	06-MAY-21	1.5	5.5	2.4	
Silver (Ag)	< 0.20		0.20	ug/g	06-MAY-21	0.5	40	20	
Thallium (TI)	< 0.50		0.50	ug/g	06-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g	06-MAY-21	2.5	33	23	
Vanadium (V)	12.7		1.0	ug/g	06-MAY-21	86	86	86	
Zinc (Zn)	123		5.0	ug/g	06-MAY-21	290	340	340	
Volatile Organic Compounds									
Benzene	<0.0068		0.0068	ug/g	06-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.018	ug/g	06-MAY-21	0.05	1.9	1.9	
Toluene	<0.080		0.080	ug/g	06-MAY-21	0.2	7.8	0.99	
o-Xylene	< 0.020		0.020	ug/g	06-MAY-21				
m+p-Xylenes	< 0.030		0.030	ug/g	06-MAY-21				
Xylenes (Total)	< 0.050		0.050	ug/g	06-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	120.5		50-140	%	06-MAY-21				
Surrogate: 1,4-Difluorobenzene	120.1		50-140	%	06-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	06-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	06-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	06-MAY-21	10	26	10	
F3 (C16-C34)	<50		50	ug/g	06-MAY-21	240	1700	300	
F4 (C34-C50)	<50		50	ug/g	06-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	06-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	06-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	80.4		60-140	%	06-MAY-21				
Surrogate: 3,4-Dichlorotoluene	101.6		60-140	%	06-MAY-21				
L2583126-23 BH117-21 SS3 5-7 FT									
Sampled By: MATT D on 30-APR-21 @ 14:00									
Matrix: SOIL						#1	#2	#3	
Metals									
Antimony (Sb)	2.0		1.0	ug/g	06-MAY-21	*1.3	40	7.5	
Arsenic (As)	5.0		1.0	ug/g	06-MAY-21	18	18	18	

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

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



ANALYTICAL GUIDELINE REPORT

L2583126 CONTD.... Page 10 of 13

Grouping Analyte Result Qualifier D.L. Units Analyzed Guideline Limits .2583126-23 BH117-21 SS3 5-7 FT Sampled By: MATT D on 30-APR-21 @ 14:00 #1 #2 #3 Matrix: SOIL **1 #2 #3	16995-100							1	1-MAY-21 0	
Matrix: SOIL #1 #2 #3 #1 #2 #3 #1 #2 #3 #1 #2 #3 #1 #2 #3 #3 #1 #2 #3 #3 #3 #3 #3 #3 #3 #	Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelin	e Limits	
Metals #1 #2 #3 Barium (Ba) 382 1.0 ug/g 06-MAY-21 *220 670 390 Beryllium (Be) <0.50 0.50 ug/g 06-MAY-21 2.5 8 4 Boron (B) 30.1 5.0 ug/g 06-MAY-21 36 120 120 Cadmium (Cd) <0.50 0.50 ug/g 06-MAY-21 1.2 1.9 1.2 Chromium (Cr) 23.5 1.0 ug/g 06-MAY-21 70 160 160 Cobalt (Co) 4.4 1.0 ug/g 06-MAY-21 21 80 22 Copper (Cu) 58.0 1.0 ug/g 06-MAY-21 92 230 140 Lead (Pb) 672 1.0 ug/g 06-MAY-21 92 230 140 Molybdenum (Mo) <1.0 1.0 ug/g 06-MAY-21 2 40 6.9 Nickel (Ni) 10.2 1.0 ug/g 06-MA	L2583126-23 BH117-21 SS3 5-7 FT									
Metals 382 1.0 ug/g 06-MAY-21 *220 670 390 Beryllium (Be) <0.50	Sampled By: MATT D on 30-APR-21 @ 14:00									
Barium (Ba) 382 1.0 ug/g 06-MAY-21 *220 670 390 Beryllium (Be) <0.50	Matrix: SOIL						#1	#2	#3	
Beryllium (Be) <0.50 0.50 ug/g 06-MAY-21 2.5 8 4 Boron (B) 30.1 5.0 ug/g 06-MAY-21 36 120 120 Cadmium (Cd) <0.50	Metals									
Beryllium (Be) <0.50 0.50 ug/g 06-MAY-21 2.5 8 4 Boron (B) 30.1 5.0 ug/g 06-MAY-21 36 120 120 Cadmium (Cd) <0.50	Barium (Ba)	382		1.0	ug/g	06-MAY-21	*220	670	390	
Boron (B) 30.1 5.0 ug/g 06-MAY-21 36 120 120 Cadmium (Cd) <0.50										
Chromium (Cr) 23.5 1.0 ug/g 06-MAY-21 70 160 160 Cobalt (Co) 4.4 1.0 ug/g 06-MAY-21 21 80 22 Copper (Cu) 58.0 1.0 ug/g 06-MAY-21 92 230 140 Lead (Pb) 672 1.0 ug/g 06-MAY-21 *120 *120 Molybdenum (Mo) <1.0	Boron (B)	30.1		5.0		06-MAY-21			120	
Cobalt (Co) 4.4 1.0 ug/g 06-MAY-21 21 80 22 Copper (Cu) 58.0 1.0 ug/g 06-MAY-21 92 230 140 Lead (Pb) 672 1.0 ug/g 06-MAY-21 *120 *120 Molybdenum (Mo) <1.0	Cadmium (Cd)	< 0.50		0.50	ug/g	06-MAY-21	1.2	1.9	1.2	
Copper (Cu) 58.0 1.0 ug/g 06-MAY-21 92 230 140 Lead (Pb) 672 1.0 ug/g 06-MAY-21 *120 *120 Molybdenum (Mo) <1.0	Chromium (Cr)			1.0	ug/g	06-MAY-21	70	160	160	
Lead (Pb) 672 1.0 ug/g 06-MAY-21 *120 *120 Molybdenum (Mo) <1.0					ug/g		21	80	22	
Molybdenum (Mo) <1.0					ug/g					
Nickel (Ni) 10.2 1.0 ug/g 06-MAY-21 82 270 100 Selenium (Se) 1.5 1.0 ug/g 06-MAY-21 1.5 5.5 2.4 Silver (Ag) 0.21 0.20 ug/g 06-MAY-21 0.5 40 20 Thallium (TI) <0.50										
Selenium (Se) 1.5 1.0 ug/g 06-MAY-21 1.5 5.5 2.4 Silver (Ag) 0.21 0.20 ug/g 06-MAY-21 0.5 40 20 Thallium (TI) <0.50										
Silver (Ag) 0.21 0.20 ug/g 06-MAY-21 0.5 40 20 Thallium (Tl) <0.50										
Thallium (TI) <0.50										
Uranium (U) <1.0										
Vanadium (V) 17.8 1.0 ug/g 06-MAY-21 86 86 86										
Zino (zh) 194 5.0 ug/g 05-MAY-21 290 340 340										
	2010 (211)	104		<u> </u>	ug/g	00 WAT 21	230	340	340	

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

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

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
SAR:M DLHC	Reported SAR represents a maximum value. Actual SAR may be lower if both Ca and Mg were detectable. Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

methods Elsted (ii up	prioubic).		
ALS Test Code	Matrix	Test Description	Method Reference***
BTX-511-HS-WT	Soil	BTEX-O.Reg 153/04 (July 2011)	SW846 8260

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-WT Soil Conductivity (EC) MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

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

Parameters

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

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
- 3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
- 4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT Soil F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

F2-F4-511-WT

Soil

F2-F4-O.Reg 153/04 (July 2011) CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:

- 1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- 2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- 3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
- 4. F4G: Gravimetric Heavy Hydrocarbons
- 5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
- 6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME quideline for F4.
- 7. F4G-sq cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
- 8. This method is validated for use.
- 9. Data from analysis of validation and quality control samples is available upon request.
- 10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MET-200.2-CCMS-WT

Soil

Metals in Soil by CRC ICPMS

EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Soil ABN-Calculated Parameters SW846 8270

MOISTURE-WT Soil % Moisture CCME PHC in Soil - Tier 1 (mod)

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

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking technique is used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT Soil

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

MOEE E3137A

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

SAR-R511-WT Soil SAR-O.Reg 153/04 (July 2011) SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

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

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

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-

WT

Soil

Sum of Xylene Isomer Concentrations

CALCULATION

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

Reference Information

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

DAY 3 SITE D & M 148

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

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

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



Workorder: L2583126 Report Date: 11-MAY-21 Page 1 of 14

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Batch	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
Batch R5451664 WG3529129-3 Benzene < 0.0068 < 0.0068 < 0.0068 RPD-NA Ug/g N/A 40 06-MAY-21 RPD-NA Ug/g N/	RTY-511-HQ-WT								
MG3529129-4 DUP									
m+p-Xylenes	WG3529129-4			<0.0068	RPD-NA	ug/g	N/A	40	06-MAY-21
o-Xylene	Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	06-MAY-21
Toluene	m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	06-MAY-21
Benzene	o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	06-MAY-21
Benzene	Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	06-MAY-21
Ethylbenzene		LCS		98.6					
m+p-Xylenes 94.0 % 70-130 06-MAY-21 o-Xylene 93.3 % 70-130 06-MAY-21 Toluene 93.4 % 70-130 06-MAY-21 WG3529129-1 MB Benzene <0.0068									
o-Xylene 93.3 % 70-130 06-MAY-21 Toluene 93.4 % 70-130 06-MAY-21 WG3529129-1 MB Separate <0.0068	•								
Toluene 93.4 % 70-130 06-MAY-21 WG3529129-1 MB									
MG3529129-1 MB Benzene	•								
Ethylbenzene	WG3529129-1	МВ							
m+p-Xylenes									
o-Xylene <0.020	-								
Toluene									
Surrogate: 1,4-Difluorobenzene 129.7 % 50-140 06-MAY-21 Surrogate: 4-Bromofluorobenzene 133.9 % 50-140 06-MAY-21 WG3529129-5 MS WG3529129-3 Benzene 96.0 % 60-140 06-MAY-21 Ethylbenzene 84.1 % 60-140 06-MAY-21 m+p-Xylenes 89.0 % 60-140 06-MAY-21 o-Xylene 85.6 % 60-140 06-MAY-21 Toluene 87.4 % 60-140 06-MAY-21 EC-WT Soil Batch R5453259 WG3529798-4 DUP WG3529798-3 Conductivity 0.325 0.322 mS/cm 0.9 20 06-MAY-21 WG3529798-2 IRM WT SAR4 Conductivity 112.3 % 70-130 06-MAY-21 WG3530078-1 LCS Conductivity 96.9 % 90-110 06-MAY-21	-								
Surrogate: 4-Browofluorobenzene 133.9 % 50-140 06-MAY-21 WG3529129-5 MS WG3529129-3 Benzene 96.0 % 60-140 06-MAY-21 Ethylbenzene 84.1 % 60-140 06-MAY-21 m+p-Xylenes 89.0 % 60-140 06-MAY-21 o-Xylene 85.6 % 60-140 06-MAY-21 Toluene 87.4 % 60-140 06-MAY-21 EC-WT Soil Batch R5453259 WG3529798-4 DUP WG3529798-3 0.322 mS/cm 0.9 20 06-MAY-21 WG3529798-2 IRM WT SAR4 112.3 % 70-130 06-MAY-21 WG3530078-1 LCS 0.90-110 06-MAY-21 06-MAY-21 06-MAY-21 WG3529798-1 MB 90-110 06-MAY-21		Diffuorabanzana							
WG3529129-5 MS WG3529129-3 Benzene 96.0 % 60-140 06-MAY-21 Ethylbenzene 84.1 % 60-140 06-MAY-21 m+p-Xylenes 89.0 % 60-140 06-MAY-21 o-Xylene 85.6 % 60-140 06-MAY-21 Toluene 87.4 % 60-140 06-MAY-21 EC-WT Soil Batch R5453259 WG3529798-4 DUP WG3529798-3 WG3529798-3 0.322 mS/cm 0.9 20 06-MAY-21 WG3529798-2 IRM WT SAR4 WT SAR4 70-130 06-MAY-21 WG3530078-1 LCS 06-MAY-21 06-MAY-21 06-MAY-21 WG3529798-1 MB 09-110 06-MAY-21	_								
Benzene 96.0 % 60-140 06-MAY-21 Ethylbenzene 84.1 % 60-140 06-MAY-21 m+p-Xylenes 89.0 % 60-140 06-MAY-21 o-Xylene 85.6 % 60-140 06-MAY-21 Toluene 87.4 % 60-140 06-MAY-21 EC-WT Soil Soil State of the state of the	_		11100500400	133.9		70		50-140	06-MAY-21
m+p-Xylenes 89.0 % 60-140 06-MAY-21 o-Xylene 85.6 % 60-140 06-MAY-21 Toluene 87.4 % 60-140 06-MAY-21 EC-WT Soil Batch R5453259 WG3529798-4 DUP WG3529798-3 Conductivity 0.325 0.322 mS/cm 0.9 20 06-MAY-21 WG3529798-2 IRM WT SAR4 WT SAR4 70-130 06-MAY-21 WG3530078-1 Conductivity 112.3 % 70-130 06-MAY-21 WG3530078-1 Conductivity 96.9 % 90-110 06-MAY-21 WG3529798-1		MS	WG3529129-3	96.0		%		60-140	06-MAY-21
o-Xylene 85.6 % 60-140 06-MAY-21 EC-WT Soil Batch R5453259 WG3529798-4 Conductivity DUP WG3529798-3 (0.325) 0.325 0.322 mS/cm 0.9 20 06-MAY-21 WG3529798-2 VG IRM VT SAR4 WT SAR4 70-130 06-MAY-21 WG3530078-1 Conductivity LCS (0.99) 96.9 % 90-110 06-MAY-21 WG3529798-1 WB MB WB	Ethylbenzene			84.1		%		60-140	06-MAY-21
Toluene 87.4 % 60-140 06-MAY-21 EC-WT Soil Batch R5453259 KS 453259 WG3529798-3 Conductivity 0.325 0.322 mS/cm 0.9 20 06-MAY-21 O6-MAY-21 WG3529798-2 IRM WT SAR4 70-130 06-MAY-21 WG3530078-1 LCS 96.9 % 90-110 06-MAY-21 WG3529798-1 MB	m+p-Xylenes			89.0		%		60-140	06-MAY-21
EC-WT Soil Batch R5453259 WG3529798-4 Conductivity DUP WG3529798-3 0.322 mS/cm 0.9 20 06-MAY-21 WG3529798-2 Conductivity IRM WT SAR4 WT SAR4 70-130 06-MAY-21 WG3530078-1 Conductivity LCS Gonductivity 96.9 % 90-110 06-MAY-21 WG3529798-1 WG3529798-1 MB	o-Xylene			85.6		%		60-140	06-MAY-21
Batch R5453259 WG3529798-4 Conductivity DUP 0.325 0.322 mS/cm 0.9 20 06-MAY-21 WG3529798-2 IRM Conductivity WT SAR4 70-130 06-MAY-21 WG3530078-1 Conductivity LCS 06.9 90-110 06-MAY-21 WG3529798-1 MB	Toluene			87.4		%		60-140	06-MAY-21
WG3529798-4 Conductivity DUP DUP DUSTINE NUMBER WG3529798-3 DUSTINE NUMBER WG3529798-3 DUSTINE NUMBER WG3529798-1 DUSTINE NUMBER WG352	EC-WT	Soil							
WG3529798-4 Conductivity DUP DUP DUSTINE NUMBER WG3529798-3 DUSTINE NUMBER WG3529798-3 DUSTINE NUMBER WG3529798-1 DUSTINE NUMBER WG352									
WG3529798-2 IRM WT SAR4 Conductivity 112.3 % 70-130 06-MAY-21 WG3530078-1 LCS Conductivity 96.9 % 90-110 06-MAY-21 WG3529798-1 MB	WG3529798-4			0.322		mS/cm	0.9	20	06-MAY-21
WG3530078-1 LCS Conductivity 96.9 % 90-110 06-MAY-21 WG3529798-1 MB		IRM	WT SAR4	112.3		%			06-MAY-21
WG3529798-1 MB		LCS		96.9		%			
Conductivity <0.0040 III5/CII 0.004 06-MAY-21	WG3529798-1 Conductivity	МВ		<0.0040		mS/cm		0.004	06-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT		Soil							
	451664 DUP		WG3529129-3 <5.0	<5.0	RPD-NA	ug/g	N/A	30	06-MAY-21
WG3529129-2 F1 (C6-C10)	LCS		10.10	99.3	NI D IVI	%	14/7	80-120	06-MAY-21
WG3529129-1 F1 (C6-C10)	MB			<5.0		ug/g		5	06-MAY-21
Surrogate: 3,4-I	Dichloroto	oluene		123.2		%		60-140	06-MAY-21
WG3529129-5 F1 (C6-C10)	MS		WG3529129-3	97.1		%		60-140	06-MAY-21
Batch R5	455373								
WG3529280-4 F1 (C6-C10)	DUP		WG3529280-3 <5.0	<5.0	RPD-NA	ug/g	N/A	30	10-MAY-21
WG3529280-2 F1 (C6-C10)	LCS			103.6		%		80-120	10-MAY-21
WG3529280-1 F1 (C6-C10)	МВ			<5.0		ug/g		5	10-MAY-21
Surrogate: 3,4-I	Dichloroto	oluene		106.7		%		60-140	10-MAY-21
WG3529280-5 F1 (C6-C10)	MS		WG3529280-3	113.5		%		60-140	10-MAY-21
F2-F4-511-WT		Soil							
Batch R5	452396								
WG3529281-3 F2 (C10-C16)	DUP		WG3529281-5 <10	<10	RPD-NA	ug/g	N/A	30	06-MAY-21
F3 (C16-C34)			<50	<50	RPD-NA	ug/g	N/A	30	06-MAY-21
F4 (C34-C50)			<50	<50	RPD-NA	ug/g	N/A	30	06-MAY-21
WG3529281-2 F2 (C10-C16)	LCS			92.1		%		80-120	06-MAY-21
F3 (C16-C34)				92.4		%		80-120	06-MAY-21
F4 (C34-C50)				89.5		%		80-120	06-MAY-21
WG3529281-1 F2 (C10-C16)	MB			<10		ug/g		10	06-MAY-21
F3 (C16-C34)				<50		ug/g		50	06-MAY-21
F4 (C34-C50)				<50		ug/g		50	06-MAY-21
Surrogate: 2-Br	omobenz	otrifluoride		89.9		%		60-140	06-MAY-21
WG3529281-4 F2 (C10-C16)	MS		WG3529281-5	86.7		%		60-140	06-MAY-21
F3 (C16-C34)				87.3		%		60-140	06-MAY-21



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MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	Soil							
Batch R5452396 WG3529281-4 MS F4 (C34-C50)		WG3529281-5	85.6		%		60-140	06-MAY-21
MET-200.2-CCMS-WT	Soil							
Batch R5453396								
WG3529802-2 CRM Antimony (Sb)		WT-SS-2	96.3		%		70-130	06-MAY-21
Arsenic (As)			102.5		%		70-130	06-MAY-21
Barium (Ba)			108.7		%		70-130	06-MAY-21
Beryllium (Be)			95.3		%		70-130	06-MAY-21
Boron (B)			8.6		mg/kg		3.5-13.5	06-MAY-21
Cadmium (Cd)			101.9		%		70-130	06-MAY-21
Chromium (Cr)			96.7		%		70-130	06-MAY-21
Cobalt (Co)			99.1		%		70-130	06-MAY-21
Copper (Cu)			101.8		%		70-130	06-MAY-21
Lead (Pb)			106.1		%		70-130	06-MAY-21
Molybdenum (Mo)			105.3		%		70-130	06-MAY-21
Nickel (Ni)			100.2		%		70-130	06-MAY-21
Selenium (Se)			0.12		mg/kg		0-0.34	06-MAY-21
Silver (Ag)			80.6		%		70-130	06-MAY-21
Thallium (TI)			0.076		mg/kg		0.029-0.129	06-MAY-21
Uranium (U)			95.8		%		70-130	06-MAY-21
Vanadium (V)			98.1		%		70-130	06-MAY-21
Zinc (Zn)			96.9		%		70-130	06-MAY-21
WG3529802-4 DUP		L2581910-3 <1.0	<1.0	DDD NA	uala	N1/A	00	00 MAN 04
Antimony (Sb)		2.6		RPD-NA	ug/g	N/A	30	06-MAY-21
Arsenic (As) Barium (Ba)		2.6 84.1	2.4 81.2		ug/g	8.1	30	06-MAY-21
Beryllium (Be)		<0.50	<0.50	DDD MA	ug/g	3.5	40	06-MAY-21
, , ,		9.1		RPD-NA	ug/g	N/A	30	06-MAY-21
Boron (B)			8.2		ug/g	10	30	06-MAY-21
Cadmium (Cd)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	06-MAY-21
Chromium (Cr)		16.8	15.7		ug/g	7.0	30	06-MAY-21
Cobalt (Co)		5.8	5.6		ug/g	3.5	30	06-MAY-21
Copper (Cu)		12.9	12.3		ug/g	4.9	30	06-MAY-21
Lead (Pb)		5.8	5.6		ug/g	3.6	40	06-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5453396								
WG3529802-4 DUP		L2581910-3	4.0	000 114	/a	N 1/A	40	
Molybdenum (Mo)		<1.0	<1.0	RPD-NA	ug/g	N/A	40	06-MAY-21
Nickel (Ni)		12.8	12.1		ug/g	6.1	30	06-MAY-21
Selenium (Se)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	06-MAY-21
Silver (Ag)		<0.20	<0.20	RPD-NA	ug/g	N/A	40	06-MAY-21
Thallium (TI)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	06-MAY-21
Uranium (U)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	06-MAY-21
Vanadium (V)		28.9	26.9		ug/g	7.1	30	06-MAY-21
Zinc (Zn)		28.4	26.8		ug/g	5.8	30	06-MAY-21
WG3529802-3 LCS Antimony (Sb)			119.0		%		90 120	06 MAY 24
Arsenic (As)			109.9		%		80-120	06-MAY-21
Barium (Ba)			109.9		%		80-120	06-MAY-21 06-MAY-21
Beryllium (Be)			109.0		%		80-120 80-120	06-MAY-21
Boron (B)			95.8		%			
Cadmium (Cd)			111.8		%		80-120 80-120	06-MAY-21 06-MAY-21
Chromium (Cr)			107.9		%		80-120	06-MAY-21
Cobalt (Co)			107.9		%		80-120	06-MAY-21
Copper (Cu)			107.4		%		80-120	
Lead (Pb)			115.2		%		80-120	06-MAY-21 06-MAY-21
Molybdenum (Mo)			114.4		%		80-120	
Nickel (Ni)			105.0		%			06-MAY-21 06-MAY-21
Selenium (Se)			103.0		%		80-120	06-MAY-21
Silver (Ag)			95.4		%		80-120 80-120	06-MAY-21
Thallium (TI)			115.2		%		80-120	06-MAY-21
Uranium (U)			110.5		%		80-120	06-MAY-21
Vanadium (V)			110.5		%		80-120	06-MAY-21
Zinc (Zn)			103.6		%		80-120	06-MAY-21
, ,			105.0		76		6U-12U	06-IVIA 1 -2 I
WG3529802-1 MB Antimony (Sb)			<0.10		mg/kg		0.1	06-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	06-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	06-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	06-MAY-21
Boron (B)			<5.0		mg/kg		5	06-MAY-21
Cadmium (Cd)			<0.020				0.02	···· · · - ·



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5453396 WG3529802-1 MB			-0.FC		malka		0.5	00 MAY 6
Chromium (Cr)			<0.50		mg/kg		0.5	06-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	06-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	06-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5 0.1	06-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	06-MAY-21
Nickel (Ni)			<0.50		mg/kg			06-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	06-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	06-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	06-MAY-21
Uranium (U)			<0.050		mg/kg		0.05	06-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	06-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	06-MAY-21
MOISTURE-WT	Soil							
Batch R5449341								
WG3529035-3 DUP % Moisture		L2583126-16 16.2	17.6		%	8.3	20	05-MAY-21
WG3529035-2 LCS % Moisture			99.6		%		90-110	05-MAY-21
WG3529035-1 MB % Moisture			<0.25		%		0.25	05-MAY-21
PAH-511-WT	Soil							
Batch R5451797								
WG3529092-3 DUP 1-Methylnaphthalene		WG3529092-5 <0.030	<0.030	RPD-NA	ug/g	N/A	40	06-MAY-21
2-Methylnaphthalene		< 0.030	<0.030	RPD-NA	ug/g	N/A	40	06-MAY-21
Acenaphthene		< 0.050	<0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
Acenaphthylene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
Anthracene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
•						•	-	



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R545179	97							
WG3529092-3 DUF		WG3529092			,			
Dibenz(a,h)anthracen	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
Indeno(1,2,3-cd)pyrer	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	06-MAY-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	06-MAY-21
Pyrene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	06-MAY-21
WG3529092-2 LCS 1-Methylnaphthalene			99.8		%		50-140	06-MAY-21
2-Methylnaphthalene			97.5		%		50-140	06-MAY-21
Acenaphthene			97.5		%		50-140	06-MAY-21
Acenaphthylene			94.8		%		50-140	06-MAY-21
Anthracene			87.1		%		50-140	06-MAY-21
Benzo(a)anthracene			103.0		%		50-140	06-MAY-21
Benzo(a)pyrene			86.0		%		50-140	06-MAY-21
Benzo(b&j)fluoranthei	ne		90.8		%		50-140	06-MAY-21
Benzo(g,h,i)perylene			94.9		%		50-140	06-MAY-21
Benzo(k)fluoranthene)		97.3		%		50-140	06-MAY-21
Chrysene			96.0		%		50-140	06-MAY-21
Dibenz(a,h)anthracen	ne		95.6		%		50-140	06-MAY-21
Fluoranthene			98.7		%		50-140	06-MAY-21
Fluorene			95.6		%		50-140	06-MAY-21
Indeno(1,2,3-cd)pyrer	ne		96.4		%		50-140	06-MAY-21
Naphthalene			94.2		%		50-140	06-MAY-21
Phenanthrene			99.4		%		50-140	06-MAY-21
Pyrene			98.9		%		50-140	06-MAY-21
WG3529092-1 MB 1-Methylnaphthalene			<0.030		ug/g		0.03	06-MAY-21
2-Methylnaphthalene			<0.030		ug/g		0.03	06-MAY-21
Acenaphthene			<0.050		ug/g		0.05	06-MAY-21
Acenaphthylene			<0.050		ug/g		0.05	06-MAY-21
Anthracene			<0.050		ug/g		0.05	06-MAY-21
Benzo(a)anthracene			<0.050		ug/g		0.05	06-MAY-21
Benzo(a)pyrene			<0.050		ug/g		0.05	06-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

PH-WT

Soil

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5451797								
WG3529092-1 MB			0.050				0.05	
Benzo(b&j)fluoranthene	1		<0.050		ug/g		0.05	06-MAY-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	06-MAY-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	06-MAY-21
Chrysene			<0.050		ug/g		0.05	06-MAY-21
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	06-MAY-21
Fluoranthene			<0.050		ug/g		0.05	06-MAY-21
Fluorene			<0.050		ug/g		0.05	06-MAY-21
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	06-MAY-21
Naphthalene			<0.013		ug/g		0.013	06-MAY-21
Phenanthrene			<0.046		ug/g		0.046	06-MAY-21
Pyrene			<0.050		ug/g		0.05	06-MAY-21
Surrogate: 2-Fluorobiph	ienyl		99.0		%		50-140	06-MAY-21
Surrogate: d14-Terpher	nyl		102.6		%		50-140	06-MAY-21
WG3529092-4 MS		WG3529092-5						
1-Methylnaphthalene			96.4		%		50-140	06-MAY-21
2-Methylnaphthalene			93.7		%		50-140	06-MAY-21
Acenaphthene			93.3		%		50-140	06-MAY-21
Acenaphthylene			90.2		%		50-140	06-MAY-21
Anthracene			83.0		%		50-140	06-MAY-21
Benzo(a)anthracene			97.6		%		50-140	06-MAY-21
Benzo(a)pyrene			81.3		%		50-140	06-MAY-21
Benzo(b&j)fluoranthene	•		71.9		%		50-140	06-MAY-21
Benzo(g,h,i)perylene			88.6		%		50-140	06-MAY-21
Benzo(k)fluoranthene			93.1		%		50-140	06-MAY-21
Chrysene			92.1		%		50-140	06-MAY-21
Dibenz(a,h)anthracene			90.6		%		50-140	06-MAY-21
Fluoranthene			92.6		%		50-140	06-MAY-21
Fluorene			91.6		%		50-140	06-MAY-21
Indeno(1,2,3-cd)pyrene			89.6		%		50-140	06-MAY-21
Naphthalene			89.4		%		50-140	06-MAY-21
Phenanthrene			93.9		%		50-140	06-MAY-21
Pyrene			92.6		%		50-140	06-MAY-21
PU WT	Cail							·



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WT	Soil							
Batch R5450039 WG3529038-1 DUP		L2583510-1						
pH		7.87	7.98	J	pH units	0.11	0.3	05-MAY-21
WG3529239-1 LCS								
рН			7.01		pH units		6.9-7.1	05-MAY-21
SAR-R511-WT	Soil							
Batch R5453297								
WG3529798-4 DUP Calcium (Ca)		WG3529798-3 2.16	1.97		mg/L	9.2	30	06-MAY-21
Sodium (Na)		57.0	56.7		mg/L	0.5	30	06-MAY-21
Magnesium (Mg)		1.33	1.18		mg/L	12	30	06-MAY-21
WG3529798-2 IRM		WT SAR4	0		· y –	12	50	O WAT ZI
Calcium (Ca)		TI OAKT	110.3		%		70-130	06-MAY-21
Sodium (Na)			101.4		%		70-130	06-MAY-21
Magnesium (Mg)			112.8		%		70-130	06-MAY-21
WG3529798-5 LCS					0.4			
Calcium (Ca)			105.0		%		80-120	06-MAY-21
Sodium (Na)			97.0		%		80-120	06-MAY-21
Magnesium (Mg)			100.2		%		80-120	06-MAY-21
WG3529798-1 MB Calcium (Ca)			<0.50		mg/L		0.5	06-MAY-21
Sodium (Na)			<0.50		mg/L		0.5	06-MAY-21
Magnesium (Mg)			<0.50		mg/L		0.5	06-MAY-21
VOC-511-HS-WT	Soil							
Batch R5455373								
WG3529280-4 DUP		WG3529280-3						
1,1,1,2-Tetrachloroetha		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
1,1,2,2-Tetrachloroetha	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21



Workorder: L2583126 Report Date: 11-MAY-21 Page 9 of 14

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5455373								
WG3529280-4 DUP 1,3-Dichlorobenzene		WG3529280-		555 MA	/a	. 1/0	40	
•		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	10-MAY-21
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	10-MAY-21
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	10-MAY-21
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Dichlorodifluoromethane	•	<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	10-MAY-21
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	10-MAY-21
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	10-MAY-21
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	10-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	10-MAY-21
Styrene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Tetrachloroethylene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	10-MAY-21
trans-1,2-Dichloroethyler	ne	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
trans-1,3-Dichloroproper	ne	<0.030	< 0.030	RPD-NA	ug/g	N/A	40	10-MAY-21
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	10-MAY-21
Trichlorofluoromethane		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	10-MAY-21
WG3529280-2 LCS								
1,1,1,2-Tetrachloroethan			105.4		%		60-130	10-MAY-21
1,1,2,2-Tetrachloroethan	ne		96.4		%		60-130	10-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

No. Solitation	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
WG3529280-2 LCS	VOC-511-HS-WT	Soil							
1.1,1-Trichloroethane 109,7 % 60-130 10-MAY-21 1.1,2-Trichloroethane 101.5 % 60-130 10-MAY-21 1.1-Dichloroethane 103.3 % 60-130 10-MAY-21 1,1-Dichloroethylene 107.3 % 60-130 10-MAY-21 1,2-Dichlorobenzene 106.6 % 70-130 10-MAY-21 1,2-Dichlorobenzene 105.6 % 70-130 10-MAY-21 1,2-Dichloroptenzene 104.7 % 70-130 10-MAY-21 1,2-Dichloroptenzene 108.7 % 70-130 10-MAY-21 1,3-Dichlorobenzene 106.8 % 70-130 10-MAY-21 1,4-Dichlorobenzene 106.8 % 70-130 10-MAY-21 1,4-Dichlorobenzene 103.5 % 60-140 10-MAY-21 Benzene 105.1 % 70-130 10-MAY-21 Bromodichloromethane 113.7 % 50-140 10-MAY-21 Bromodorm 111.0 % 70-130 10-MAY-21 Bromodichloromethane 98.6 % 50-140									
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Methyl Isobutyl Ketone 83.1 % 60-140 10-MAY-21 o-Xylene 109.9 % 70-130 10-MAY-21									
o-Xylene 109.9 % 70-130 10-MAY-21									
Styrene 109.9 % 70-130 10-MAY-21	•								
	•								
Tetrachloroethylene 108.2 % 60-130 10-MAY-21	· ·								
Toluene 103.0 % 70-130 10-MAY-21	Toluene			103.0		%		70-130	10-MAY-21



Workorder: L2583126 Report Date: 11-MAY-21 Page 11 of 14

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R54553 WG3529280-2 LCS	3							
trans-1,2-Dichloroeth			109.8		%		60-130	10-MAY-21
trans-1,3-Dichloropro	pene		94.7		%		70-130	10-MAY-21
Trichloroethylene			109.4		%		60-130	10-MAY-21
Trichlorofluorometha	ne		105.7		%		50-140	10-MAY-21
Vinyl chloride			98.8		%		60-140	10-MAY-21
WG3529280-1 MB 1,1,1,2-Tetrachloroet	hane		<0.050		ug/g		0.05	10-MAY-21
1,1,2,2-Tetrachloroet	hane		< 0.050		ug/g		0.05	10-MAY-21
1,1,1-Trichloroethane)		< 0.050		ug/g		0.05	10-MAY-21
1,1,2-Trichloroethane)		< 0.050		ug/g		0.05	10-MAY-21
1,1-Dichloroethane			<0.050		ug/g		0.05	10-MAY-21
1,1-Dichloroethylene			< 0.050		ug/g		0.05	10-MAY-21
1,2-Dibromoethane			< 0.050		ug/g		0.05	10-MAY-21
1,2-Dichlorobenzene			< 0.050		ug/g		0.05	10-MAY-21
1,2-Dichloroethane			< 0.050		ug/g		0.05	10-MAY-21
1,2-Dichloropropane			< 0.050		ug/g		0.05	10-MAY-21
1,3-Dichlorobenzene			< 0.050		ug/g		0.05	10-MAY-21
1,4-Dichlorobenzene			< 0.050		ug/g		0.05	10-MAY-21
Acetone			<0.50		ug/g		0.5	10-MAY-21
Benzene			<0.0068		ug/g		0.0068	10-MAY-21
Bromodichlorometha	ne		< 0.050		ug/g		0.05	10-MAY-21
Bromoform			< 0.050		ug/g		0.05	10-MAY-21
Bromomethane			< 0.050		ug/g		0.05	10-MAY-21
Carbon tetrachloride			< 0.050		ug/g		0.05	10-MAY-21
Chlorobenzene			< 0.050		ug/g		0.05	10-MAY-21
Chloroform			< 0.050		ug/g		0.05	10-MAY-21
cis-1,2-Dichloroethyle	ene		< 0.050		ug/g		0.05	10-MAY-21
cis-1,3-Dichloroprope	ene		<0.030		ug/g		0.03	10-MAY-21
Dibromochlorometha	ne		< 0.050		ug/g		0.05	10-MAY-21
Dichlorodifluorometha	ane		< 0.050		ug/g		0.05	10-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	10-MAY-21
n-Hexane			< 0.050		ug/g		0.05	10-MAY-21
Methylene Chloride			<0.050		ug/g		0.05	10-MAY-21
MTBE			<0.050		ug/g		0.05	10-MAY-21



Workorder: L2583126 Report Date: 11-MAY-21 Page 12 of 14

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5455373								
WG3529280-1 MB			0.000				0.00	
m+p-Xylenes			<0.030		ug/g		0.03	10-MAY-21
Methyl Ethyl Ketone			<0.50		ug/g		0.5	10-MAY-21
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	10-MAY-21
o-Xylene			<0.020		ug/g		0.02	10-MAY-21
Styrene			<0.050		ug/g		0.05	10-MAY-21
Tetrachloroethylene			<0.050		ug/g		0.05	10-MAY-21
Toluene			<0.080		ug/g		0.08	10-MAY-21
trans-1,2-Dichloroethyler			<0.050		ug/g		0.05	10-MAY-21
trans-1,3-Dichloropropen	ne		<0.030		ug/g		0.03	10-MAY-21
Trichloroethylene			<0.010		ug/g		0.01	10-MAY-21
Trichlorofluoromethane			<0.050		ug/g		0.05	10-MAY-21
Vinyl chloride			<0.020		ug/g		0.02	10-MAY-21
Surrogate: 1,4-Difluorobe			113.5		%		50-140	10-MAY-21
Surrogate: 4-Bromofluoro	obenzene		93.2		%		50-140	10-MAY-21
WG3529280-5 MS 1,1,1,2-Tetrachloroethan	ı A	WG3529280-3	111.4		%		50-140	10-MAY-21
1,1,2,2-Tetrachloroethan			103.7		%		50-140	10-MAY-21
1,1,1-Trichloroethane			114.1		%		50-140	10-MAY-21
1,1,2-Trichloroethane			107.6		%		50-140	
1,1-Dichloroethane			107.0		%			10-MAY-21
1,1-Dichloroethylene			111.5		%		50-140	10-MAY-21
1,2-Dibromoethane			101.6		%		50-140	10-MAY-21
1,2-Dichlorobenzene			112.1		%		50-140	10-MAY-21
1,2-Dichloroethane			110.9		%		50-140	10-MAY-21
1,2-Dichloropropane			109.8		%		50-140	10-MAY-21
1,3-Dichlorobenzene			112.5		%		50-140	10-MAY-21
1,4-Dichlorobenzene							50-140	10-MAY-21
			110.5		%		50-140	10-MAY-21
Acetone			116.8		%		50-140	10-MAY-21
Benzene			109.3		%		50-140	10-MAY-21
Bromodichloromethane			119.7		%		50-140	10-MAY-21
Bromoform			118.4		%		50-140	10-MAY-21
Bromomethane			96.5		%		50-140	10-MAY-21
Carbon tetrachloride			118.5		%		50-140	10-MAY-21
Chlorobenzene			114.1		%		50-140	10-MAY-21



Workorder: L2583126 Report Date: 11-MAY-21 Page 13 of 14

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

		Result	Qualifier	Units	RPD	Limit	Analyzed
Soil							
	WG3529280-3			0.4			
							10-MAY-21
							10-MAY-21
						50-140	10-MAY-21
		107.2		%		50-140	10-MAY-21
		85.5		%		50-140	10-MAY-21
		104.8		%		50-140	10-MAY-21
		108.7		%		50-140	10-MAY-21
		112.8		%		50-140	10-MAY-21
		112.8		%		50-140	10-MAY-21
		112.9		%		50-140	10-MAY-21
		95.8		%		50-140	10-MAY-21
		87.0		%		50-140	10-MAY-21
		114.9		%		50-140	10-MAY-21
		114.5		%		50-140	10-MAY-21
		110.5		%		50-140	10-MAY-21
		106.9		%		50-140	10-MAY-21
)		111.9		%		50-140	10-MAY-21
;		91.4		%			10-MAY-21
		111.8		%			10-MAY-21
							10-MAY-21
							10-MAY-21
			117.0 111.4 95.0 107.2 85.5 104.8 108.7 112.8 112.8 112.9 95.8 87.0 114.9 114.5 110.5 106.9 111.9	117.0 111.4 95.0 107.2 85.5 104.8 108.7 112.8 112.8 112.9 95.8 87.0 114.9 114.5 110.5 106.9 111.9 91.4 111.8 112.2	117.0 % 111.4 % 95.0 % 107.2 % 85.5 % 104.8 % 108.7 % 112.8 % 112.9 % 95.8 % 87.0 % 114.9 % 114.5 % 110.5 % 106.9 % 111.9 % 91.4 % 111.8 % 112.2 %	117.0 % 111.4 % 95.0 % 107.2 % 85.5 % 104.8 % 108.7 % 112.8 % 112.9 % 95.8 % 87.0 % 114.9 % 110.5 % 106.9 % 111.9 % 91.4 % 111.8 % 112.2 %	117.0 % 50-140 111.4 % 50-140 95.0 % 50-140 107.2 % 50-140 85.5 % 50-140 104.8 % 50-140 108.7 % 50-140 112.8 % 50-140 112.8 % 50-140 112.9 % 50-140 95.8 % 50-140 87.0 % 50-140 114.9 % 50-140 114.5 % 50-140 110.5 % 50-140 106.9 % 50-140 11.9 % 50-140 11.8 % 50-140 111.8 % 50-140 112.2 % 50-140

Report Date: 11-MAY-21 Workorder: L2583126

MTE CONSULTANTS INC. (Kitchener) Client: Page 14 of 14

520 BINGEMANS CENTRE DRIVE KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate

RPD Relative Percent Difference

Not Available N/A

Laboratory Control Sample LCS SRM Standard Reference Material

MS Matrix Spike

Matrix Spike Duplicate **MSD**

Average Desorption Efficiency ADE

Method Blank MB

Internal Reference Material IRM CRM Certified Reference Material CCV Continuing Calibration Verification CVS Calibration Verification Standard LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

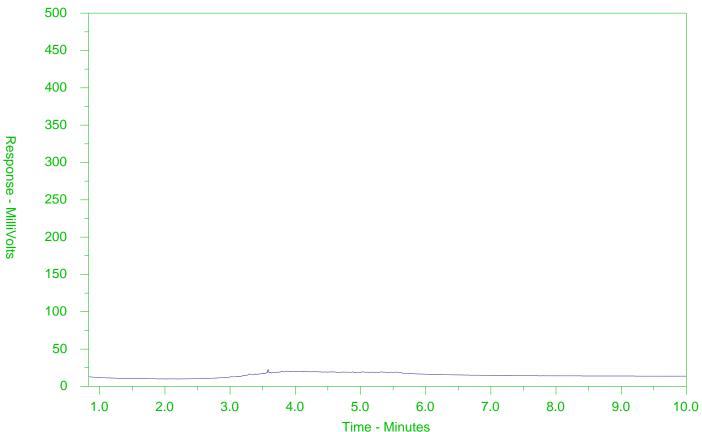
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



ALS Sample ID: L2583126-2

Client Sample ID: BH148-21 SS2 2.5-4.5 FT



← -F2-	→←	_F3F4-	→				
nC10	nC16	nC34	nC50				
174°C	287°C	481°C	575°C				
346°F	549°F	898°F	1067°F				
Gasolin	Gasoline → Motor Oils/Lube Oils/Grease						
•	← Diesel/Jet Fuels →						

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

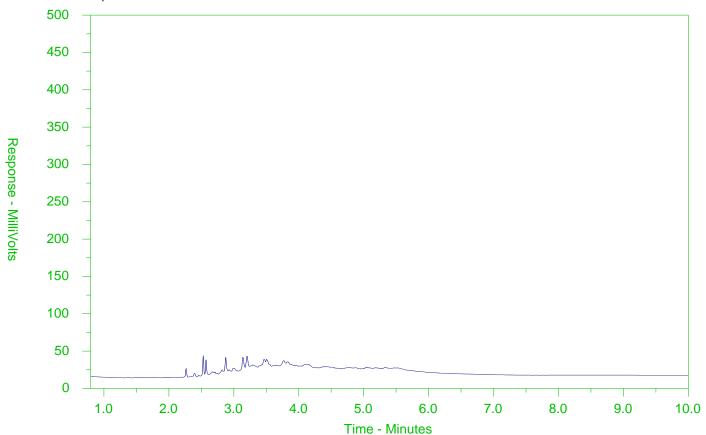
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2583126-6

Client Sample ID: BH121-21 SS2 2.5-4.5 FT



← -F2-	→←	_F3F4-	→				
nC10	nC16	nC34	nC50				
174°C	287°C	481°C	575°C				
346°F	549°F	898°F	1067°F				
Gasolin	Gasoline → Motor Oils/Lube Oils/Grease						
•	← Diesel/Jet Fuels →						

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

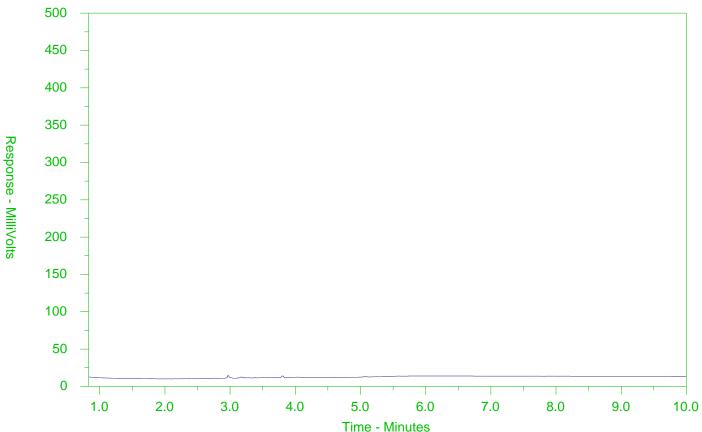
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2583126-16

Client Sample ID: BH119-21 SS4 7.5-9.5 FT



← -F2-	→←	_F3F4-	→				
nC10	nC16	nC34	nC50				
174°C	287°C	481°C	575°C				
346°F	549°F	898°F	1067°F				
Gasolin	Gasoline → Motor Oils/Lube Oils/Grease						
•	← Diesel/Jet Fuels →						

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

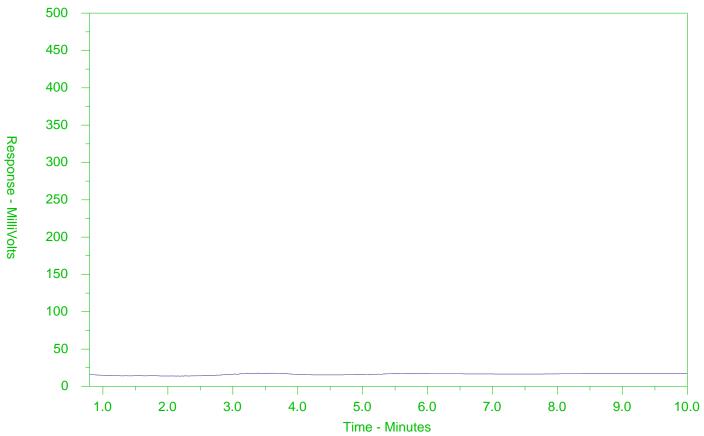
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2583126-18

Client Sample ID: BH118-21 SS2 2.5-4.5 FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

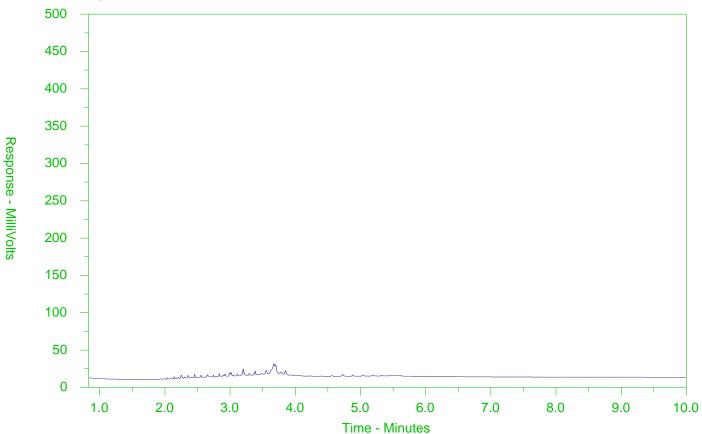
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2583126-19

Client Sample ID: BH118-21 SS3 5-7 FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

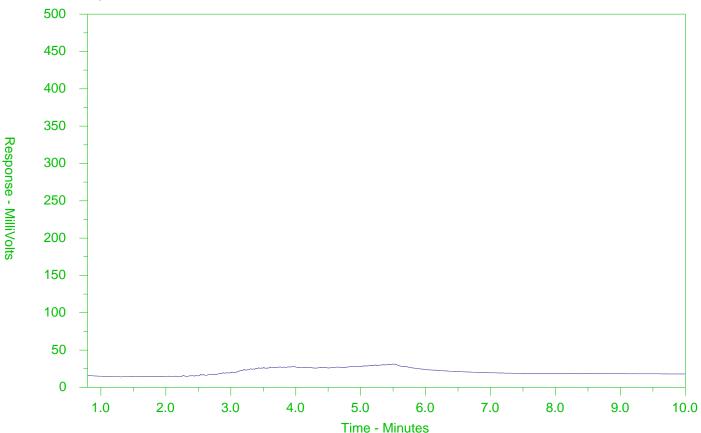
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2583126-22

Client Sample ID: BH117-21 SS2 2.5-4.5 FT



← -F2-	→ ←	—F3 → ← F4—	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mot	or Oils/Lube Oils/Grease-	
←	- Diesel/Je	t Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



Chain of Custody (COC) / Analytical **Request Form**

Canada Toll Free: 1 800 668 9878

L2583126-COFC

COC Number: 17 - Page 7 of 3

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Chain of Custody (COC) / Analytical Request Form

Enginerage Canada Toll Free: 1 800 668 9878

COC Number: 17 -

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MTE CONSULTANTS INC. (Kitchener)

ATTN: JEN LAMBKE

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Date Received: 06-MAY-21

Report Date: 13-MAY-21 14:51 (MT)

Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2584522

Project P.O. #: NOT SUBMITTED

Job Reference: 46995-100

C of C Numbers: Legal Site Desc:

Comments: ADDITIONAL 06-MAY-21 15:04

ADDITIONAL 06-MAY-21 12:43

Emily Hansen Account Manager

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

ADDRESS: 60 Northland Road, Unit 1, Waterloo, ON N2V 2B8 Canada | Phone: +1 519 886 6910 | Fax: +1 519 886 9047

ALS CANADA LTD Part of the ALS Group An ALS Limited Company





46995-100

ANALYTICAL GUIDELINE REPORT

L2584522 CONTD....

Page 2 of 11 13-MAY-21 14:51 (MT)

46995-100							1	3-MAY-21 1	4:51 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2584522-2 BH147-21 SS2 2.5-4.5FT									
Sampled By: CLIENT on 04-MAY-21 @ 08:20									
Matrix: SOIL						#1	#2		
Physical Tests									
% Moisture	13.8		0.05	0/	08-MAY-21				
Metals	13.0		0.25	%	06-IVIA 1 -2 I				
	<1.0		1.0	110/0	12-MAY-21	4.0	40		
Antimony (Sb)	1.4		1.0	ug/g	12-MAY-21	1.3 18	40 18		
Arsenic (As) Barium (Ba)	19.2		1.0	ug/g ug/g	12-MAY-21	220	670		
Beryllium (Be)	< 0.50		0.50	ug/g ug/g	12-MAY-21	2.5	8		
Boron (B)	5.2		5.0	ug/g ug/g	12-MAY-21	2.5 36	120		
Cadmium (Cd)	<0.50		0.50	ug/g ug/g	12-MAY-21	1.2	1.9		
Chromium (Cr)	4.9		1.0	ug/g ug/g	12-MAY-21	70	160		
Cobalt (Co)	1.9		1.0		12-MAY-21	70 21	80		
Copper (Cu)	6.7		1.0	ug/g ug/g	12-MAY-21	92	230		
Lead (Pb)	13.3		1.0		12-MAY-21	120	120		
Molybdenum (Mo)	<1.0		1.0	ug/g	12-MAY-21	2	40		
Nickel (Ni)	3.8		1.0	ug/g	12-MAY-21	82	270		
Selenium (Se)	<1.0		1.0	ug/g	12-MAY-21	1.5	5.5		
Silver (Ag)	<0.20		0.20	ug/g	12-MAY-21	0.5	40		
, -,	<0.50		0.20	ug/g	12-MAY-21				
Thallium (TI) Uranium (U)	<1.0		1.0	ug/g	12-MAY-21	1	3.3 33		
Vanadium (V)	9.7		1.0	ug/g	12-MAY-21	2.5 86	86		
Zinc (Zn)	9.7 26.6		5.0	ug/g	12-MAY-21	290	340		
Volatile Organic Compounds	20.0		3.0	ug/g	12-1014 1-21	290	340		
	.0.0000		0.0000		40 MAY 04	0.00	0.004		
Benzene	<0.0068		0.0068	ug/g	13-MAY-21	0.02	0.034		
Ethylbenzene	<0.018		0.018	ug/g	13-MAY-21	0.05	1.9		
Toluene	<0.080		0.080	ug/g	13-MAY-21	0.2	7.8		
o-Xylene m+p-Xylenes	<0.020 <0.030		0.020 0.030	ug/g	13-MAY-21 13-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g ug/g	13-MAY-21	0.05	3		
Surrogate: 4-Bromofluorobenzene	110.2		50-140	ug/g %	13-MAY-21	0.03	3		
Surrogate: 1,4-Difluorobenzene	106.5		50-140	% %	13-MAY-21				
Hydrocarbons	100.0		30-140	/0	13 WAT 21				
F1 (C6-C10)	<5.0		5.0	ug/g	13-MAY-21	25	25		
F1-BTEX	<5.0		5.0	ug/g ug/g	13-MAY-21	25 25	25 25		
F2 (C10-C16)	<10		10	ug/g ug/g	07-MAY-21	10	26		
F3 (C16-C34)	<50		50	ug/g ug/g	07-MAY-21	240	1700		
F4 (C34-C50)	<50		50	ug/g ug/g	07-MAY-21	120	3300		
Total Hydrocarbons (C6-C50)	<72		72	ug/g	13-MAY-21	120	3300		
Chrom, to baseline at nC50	YES		12	No Unit	07-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	85.6		60-140	%	07-MAY-21				
Surrogate: 3,4-Dichlorotoluene	107.8		60-140	%	13-MAY-21				
L2584522-4 BH147-21 SS4 7.5-9.5FT									
Sampled By: CLIENT on 04-MAY-21 @ 08:40									
Matrix: SOIL						#1	#2		
									*
Physical Tests									
% Moisture	13.2		0.25	%	08-MAY-21				
Volatile Organic Compounds									

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

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



L2584522 CONTD....

Page 3 of 11 13-MAY-21 14-51 (MT)

16995-100	ANALI	IICAL	GUID		INLFOR	. I	1	Page 3 of 11 3-MAY-21 14:51 (M
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed			ne Limits
L2584522-4 BH147-21 SS4 7.5-9.5FT								
Sampled By: CLIENT on 04-MAY-21 @ 08:4	0							
Matrix: SOIL						#1	#2	
Volatile Organic Compounds								
Benzene	<0.0068		0.0068	ug/g	13-MAY-21	0.02	0.034	
Ethylbenzene	<0.018		0.018	ug/g	13-MAY-21	0.05	1.9	
Toluene	<0.080		0.080	ug/g	13-MAY-21	0.2	7.8	
o-Xylene	<0.020		0.020	ug/g	13-MAY-21			
m+p-Xylenes	<0.030		0.030	ug/g	13-MAY-21			
Xylenes (Total)	<0.050		0.050	ug/g	13-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene	107.5		50-140	%	13-MAY-21			
Surrogate: 1,4-Difluorobenzene	106.2		50-140	%	13-MAY-21			
Hydrocarbons								
F1 (C6-C10)	<5.0		5.0	ug/g	13-MAY-21	25	25	
F1-BTEX	<5.0		5.0	ug/g	13-MAY-21	25	25	
F2 (C10-C16)	<10		10	ug/g	07-MAY-21	10	26	
F3 (C16-C34)	<50		50	ug/g	07-MAY-21	240	1700	
F4 (C34-C50)	<50		50	ug/g	07-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	13-MAY-21			
Chrom. to baseline at nC50	YES			No Unit	07-MAY-21			
Surrogate: 2-Bromobenzotrifluoride Surrogate: 3,4-Dichlorotoluene	83.4 106.8		60-140 60-140	% %	07-MAY-21 13-MAY-21			
Sampled By: CLIENT on 04-MAY-21 @ 09:29 Matrix: SOIL	5					#1	#2	
Physical Tests								
Conductivity	1.04		0.0040	mS/cm	12-MAY-21	*0.57	1.4	
% Moisture	7.56		0.25	%	08-MAY-21			
Saturated Paste Extractables								
SAR	11.4		0.10	SAR	12-MAY-21	*2.4	12	
Calcium (Ca)	7.18		0.50	mg/L	12-MAY-21			
Magnesium (Mg)	11.9		0.50	mg/L	12-MAY-21			
Sodium (Na)	215		0.50	mg/L	12-MAY-21			
Volatile Organic Compounds								
Benzene	<0.0068		0.0068	ug/g	13-MAY-21	0.02	0.034	
Ethylbenzene	<0.018		0.018	ug/g	13-MAY-21	0.05	1.9	
Toluene	<0.080		0.080	ug/g	13-MAY-21	0.2	7.8	
o-Xylene	<0.020		0.020	ug/g	13-MAY-21			
m+p-Xylenes	<0.030		0.030	ug/g	13-MAY-21			
Xylenes (Total)	<0.050		0.050	ug/g	13-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene	109.0		50-140	%	13-MAY-21			
Surrogate: 1,4-Difluorobenzene	106.1		50-140	%	13-MAY-21			
Hydrocarbons								
F1 (C6-C10)	<5.0		5.0	ug/g	13-MAY-21	25	25	
F1-BTEX	<5.0		5.0	ug/g	13-MAY-21	25	25	
F2 (C10-C16)	<10		10	ug/g	07-MAY-21	10	26	
F3 (C16-C34)	<50		50	ug/g	07-MAY-21	240	1700	
F4 (C34-C50)	<50		50	ug/g	07-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	13-MAY-21			

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

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



ANALYTICAL GUIDELINE REPORT

L2584522 CONTD....

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46995-100							1	3-MAY-21 1	4:51 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2584522-6 BH144-21 SS2 2.5-4.5FT									
Sampled By: CLIENT on 04-MAY-21 @ 09:25									
Matrix: SOIL						#1	#2		
Hydrocarbons									
Chrom. to baseline at nC50	YES			No Unit	07-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	89.6		60-140	%	07-MAY-21				
Surrogate: 3,4-Dichlorotoluene	109.0		60-140	%	13-MAY-21				
-				,,,					
L2584522-10 BH145-21 SS2 2.5-4.5FT									
Sampled By: CLIENT on 04-MAY-21 @ 10:40						#1	#2		
Matrix: SOIL									
Physical Tests									
% Moisture	3.44		0.25	%	08-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	12-MAY-21	1.3	40		
Arsenic (As)	1.9		1.0	ug/g	12-MAY-21	18	18		
Barium (Ba)	10.0		1.0	ug/g	12-MAY-21	220	670		
Beryllium (Be)	<0.50		0.50	ug/g	12-MAY-21	2.5	8		
Boron (B)	<5.0		5.0	ug/g	12-MAY-21	36	120		
Cadmium (Cd)	<0.50		0.50	ug/g	12-MAY-21	1.2	1.9		
Chromium (Cr)	5.4		1.0	ug/g	12-MAY-21	70	160		
Cobalt (Co)	2.0		1.0	ug/g	12-MAY-21	21	80		
Copper (Cu)	8.6		1.0	ug/g	12-MAY-21	92	230		
Lead (Pb)	7.7		1.0	ug/g	12-MAY-21	120	120		
Molybdenum (Mo)	<1.0		1.0	ug/g	12-MAY-21	2	40		
Nickel (Ni)	4.1		1.0	ug/g	12-MAY-21	82	270		
Selenium (Se)	<1.0		1.0	ug/g	12-MAY-21	1.5	5.5		
Silver (Ag)	<0.20		0.20	ug/g	12-MAY-21	0.5	40		
Thallium (TI)	<0.50		0.50	ug/g	12-MAY-21	1	3.3		
Uranium (U)	<1.0		1.0	ug/g	12-MAY-21	2.5	33		
Vanadium (V)	14.1 31.2		1.0	ug/g	12-MAY-21	86	86		
Zinc (Zn) Volatile Organic Compounds	31.2		5.0	ug/g	12-MAY-21	290	340		
Benzene	<0.0068		0.0068	/a	13-MAY-21	0.00	0.024		
	<0.008			ug/g		0.02 0.05	0.034 1.9		
Ethylbenzene Toluene	<0.018		0.018 0.080	ug/g ug/g	13-MAY-21 13-MAY-21	0.05	7.8		
o-Xylene	<0.020		0.020	ug/g ug/g	13-MAY-21	0.2	7.0		
m+p-Xylenes	<0.020		0.020	ug/g ug/g	13-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	13-MAY-21	0.05	3		
Surrogate: 4-Bromofluorobenzene	116.2		50-140	%	13-MAY-21	0.00			
Surrogate: 1,4-Difluorobenzene	113.3		50-140	%	13-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	13-MAY-21	25	25		
F1-BTEX	<5.0		5.0	ug/g	13-MAY-21	25	25		
F2 (C10-C16)	<10		10	ug/g	07-MAY-21	10	26		
F3 (C16-C34)	<50		50	ug/g	07-MAY-21	240	1700		
F4 (C34-C50)	<50		50	ug/g	07-MAY-21	120	3300		
Total Hydrocarbons (C6-C50)	<72		72	ug/g	13-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	07-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	80.1		60-140	%	07-MAY-21				

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

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



46995-100

ANALYTICAL GUIDELINE REPORT

L2584522 CONTD....

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Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits
L2584522-10 BH145-21 SS2 2.5-4.5FT	7100011						Caraoni	io Emilio
Sampled By: CLIENT on 04-MAY-21 @ 10:40								
Matrix: SOIL						#1	#2	
Hydrocarbons								
Surrogate: 3,4-Dichlorotoluene	111.8		60-140	%	13-MAY-21			
L2584522-14 BH146-21 SS2 2.5-4.5FT								
Sampled By: CLIENT on 04-MAY-21 @ 11:40								
Matrix: SOIL						#1	#2	
Physical Tests								
	0.40		0.05	0/	00 MAY 04			
% Moisture Volatile Organic Compounds	9.48		0.25	%	08-MAY-21			
	0.0000		0.0000	,	40.141.7.04			
Benzene	<0.0068		0.0068	ug/g	13-MAY-21	0.02	0.034	
Ethylbenzene	<0.018		0.018	ug/g	13-MAY-21	0.05	1.9	
Toluene	<0.080		0.080	ug/g	13-MAY-21	0.2	7.8	
o-Xylene	<0.020 <0.030		0.020	ug/g	13-MAY-21 13-MAY-21			
m+p-Xylenes Xylenes (Total)	<0.030 <0.050		0.030 0.050	ug/g	13-MAY-21	0.05	0	
Surrogate: 4-Bromofluorobenzene	110.1		50-140	ug/g %	13-MAY-21	0.05	3	
Surrogate: 1,4-Diffuorobenzene	109.1		50-140	% %	13-MAY-21			
Hydrocarbons	100.1		30 140	/0	13-10/41-21			
F1 (C6-C10)	<5.0		5.0	ua/a	13-MAY-21	25	25	
F1-BTEX	<5.0		5.0	ug/g ug/g	13-MAY-21	25 25	25 25	
F2 (C10-C16)	<10		10	ug/g ug/g	07-MAY-21	25 10	25 26	
F2-Naphth	<10		10	ug/g ug/g	13-MAY-21	10	20	
F3 (C16-C34)	<50		50	ug/g ug/g	07-MAY-21	240	1700	
F3-PAH	<50		50	ug/g ug/g	13-MAY-21	240	1700	
F4 (C34-C50)	<50		50	ug/g	07-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	13-MAY-21	0	0000	
Chrom, to baseline at nC50	YES		. –	No Unit	07-MAY-21			
Surrogate: 2-Bromobenzotrifluoride	83.6		60-140	%	07-MAY-21			
Surrogate: 3,4-Dichlorotoluene	104.7		60-140	%	13-MAY-21			
Polycyclic Aromatic Hydrocarbons								
Acenaphthene	< 0.050		0.050	ug/g	10-MAY-21	0.072	15	
Acenaphthylene	< 0.050		0.050	ug/g	10-MAY-21	0.093	0.093	
Anthracene	< 0.050		0.050	ug/g	10-MAY-21	0.16	0.16	
Benzo(a)anthracene	< 0.050		0.050	ug/g	10-MAY-21	0.36	1	
Benzo(a)pyrene	< 0.050		0.050	ug/g	10-MAY-21	0.3	0.7	
Benzo(b&j)fluoranthene	< 0.050		0.050	ug/g	10-MAY-21	0.47	7	
Benzo(g,h,i)perylene	< 0.050		0.050	ug/g	10-MAY-21	0.68	13	
Benzo(k)fluoranthene	< 0.050		0.050	ug/g	10-MAY-21	0.48	7	
Chrysene	< 0.050		0.050	ug/g	10-MAY-21	2.8	14	
Dibenz(a,h)anthracene	< 0.050		0.050	ug/g	10-MAY-21	0.1	0.7	
Fluoranthene	< 0.050		0.050	ug/g	10-MAY-21	0.56	70	
Fluorene	< 0.050		0.050	ug/g	10-MAY-21	0.12	6.8	
Indeno(1,2,3-cd)pyrene	< 0.050		0.050	ug/g	10-MAY-21	0.23	0.76	
1+2-Methylnaphthalenes	< 0.042		0.042	ug/g	10-MAY-21	0.59	8.7	
1-Methylnaphthalene	<0.030		0.030	ug/g	10-MAY-21	0.59	8.7	
2-Methylnaphthalene	< 0.030		0.030	ug/g	10-MAY-21	0.59	8.7	
Naphthalene	< 0.013		0.013	ug/g	10-MAY-21	0.09	1.8	

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

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



L2584522 CONTD....

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6995-100	NALII	ICAL	שוטט	CLINE	KEPUR	X I	1	Page 6 3-MAY-21 1	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed			ne Limits	
L2584522-14 BH146-21 SS2 2.5-4.5FT									
Sampled By: CLIENT on 04-MAY-21 @ 11:40						#1	#2		
Matrix: SOIL						#1	#2		
Polycyclic Aromatic Hydrocarbons									
Phenanthrene	<0.046		0.046	ug/g	10-MAY-21	0.69	12		
Pyrene	< 0.050		0.050	ug/g	10-MAY-21	1	70		
Surrogate: 2-Fluorobiphenyl	87.6		50-140	%	10-MAY-21				
Surrogate: d14-Terphenyl	87.4		50-140	%	10-MAY-21				
L2584522-15 BH146-21 SS3 5-7FT									
Sampled By: CLIENT on 04-MAY-21 @ 11:50									
Matrix: SOIL						#1	#2		
Physical Tests									
Conductivity	3.93		0.0040	mS/cm	12-MAY-21	*0.57	*1.4		
pH Saturated Paste Extractables	7.97		0.10	pH units	10-MAY-21				
	47	0451	0.40	0.4.5	40.140.4.04		***		
SAR	>47.	SAR:L	0.10	SAR	12-MAY-21	*2.4	*12		
Calcium (Ca)	<10 <10	DLHC DLHC	10	mg/L	12-MAY-21 12-MAY-21				
Magnesium (Mg) Sodium (Na)	<10 870	DLHC	10 10	mg/L mg/L	12-MAY-21				
Metals	070	DLITE	10	IIIg/L	12-101/(1-21				
Antimony (Sb)	<1.0		1.0	ug/g	12-MAY-21	1.3	40		
Arsenic (As)	2.8		1.0	ug/g	12-MAY-21	1.5	18		
Barium (Ba)	184		1.0	ug/g	12-MAY-21	220	670		
Beryllium (Be)	1.29		0.50	ug/g	12-MAY-21	2.5	8		
Boron (B)	16.3		5.0	ug/g	12-MAY-21	36	120		
Cadmium (Cd)	< 0.50		0.50	ug/g	12-MAY-21	1.2	1.9		
Chromium (Cr)	39.3		1.0	ug/g	12-MAY-21	70	160		
Cobalt (Co)	14.8		1.0	ug/g	12-MAY-21	21	80		
Copper (Cu)	18.3		1.0	ug/g	12-MAY-21	92	230		
Lead (Pb)	16.3		1.0	ug/g	12-MAY-21	120	120		
Molybdenum (Mo)	<1.0		1.0	ug/g	12-MAY-21	2	40		
Nickel (Ni)	30.8		1.0	ug/g	12-MAY-21	82	270		
Selenium (Se)	<1.0		1.0	ug/g	12-MAY-21	1.5	5.5		
Silver (Ag)	<0.20		0.20	ug/g	12-MAY-21	0.5	40		
Thallium (TI)	<0.50		0.50	ug/g	12-MAY-21	1	3.3		
Uranium (U)	<1.0		1.0	ug/g	12-MAY-21	2.5	33		
Vanadium (V)	53.3		1.0	ug/g	12-MAY-21 12-MAY-21	86	86		
Zinc (Zn)	91.0		5.0	ug/g	12-IVIA 1-21	290	340		
L2584522-18 BH112-21 SS2 2.5-4.5FT									
Sampled By: CLIENT on 04-MAY-21 @ 13:50						<i>μ</i> .	#0		
Matrix: SOIL						#1	#2		
Physical Tests									
Conductivity	0.264		0.0040	mS/cm	11-MAY-21	0.57	1.4		
% Moisture	3.94		0.25	%	08-MAY-21	0.07			
Saturated Paste Extractables									
SAR	8.35		0.10	SAR	11-MAY-21	*2.4	12		
Calcium (Ca)	1.44		0.50	mg/L	11-MAY-21				
- ()				J -					

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

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



L2584522 CONTD....
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13-MAY-21 14-51 (MT)

46995-100	MALII	ICAL	GUID	LLINL	KEPUK	. •	1	Page 7 of 11 3-MAY-21 14:51 (MT)
Sample Details	Dogult	Ovalifian	DI	Linita	A l			
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits
L2584522-18 BH112-21 SS2 2.5-4.5FT								
Sampled By: CLIENT on 04-MAY-21 @ 13:50						#1	#2	
Matrix: SOIL					-	π1	#2	
Saturated Paste Extractables								
Magnesium (Mg)	1.16		0.50	mg/L	11-MAY-21			
Sodium (Na)	55.5		0.50	mg/L	11-MAY-21			
Metals								
Antimony (Sb)	<1.0		1.0	ug/g	11-MAY-21	1.3	40	
Arsenic (As)	3.0		1.0	ug/g	11-MAY-21	18	18	
Barium (Ba)	19.5		1.0	ug/g	11-MAY-21	220	670	
Beryllium (Be)	< 0.50		0.50	ug/g	11-MAY-21	2.5	8	
Boron (B)	6.5		5.0	ug/g	11-MAY-21	36	120	
Cadmium (Cd)	< 0.50		0.50	ug/g	11-MAY-21	1.2	1.9	
Chromium (Cr)	12.4		1.0	ug/g	11-MAY-21	70	160	
Cobalt (Co)	3.4		1.0	ug/g	11-MAY-21	21	80	
Copper (Cu)	19.5		1.0	ug/g	11-MAY-21	92	230	
Lead (Pb)	17.8		1.0	ug/g	11-MAY-21	120	120	
Molybdenum (Mo)	1.0		1.0	ug/g	11-MAY-21	2	40	
Nickel (Ni)	7.3		1.0	ug/g	11-MAY-21	82	270	
Selenium (Se)	<1.0		1.0	ug/g	11-MAY-21	1.5	5.5	
Silver (Ag)	<0.20		0.20	ug/g	11-MAY-21	0.5	40	
Thallium (TI)	< 0.50		0.50	ug/g	11-MAY-21	1	3.3	
Uranium (U)	<1.0		1.0	ug/g	11-MAY-21	2.5	33	
Vanadium (V)	18.2		1.0	ug/g	11-MAY-21	86	86	
Zinc (Zn)	80.4		5.0	ug/g	11-MAY-21	290	340	
Volatile Organic Compounds								
Benzene	<0.0068		0.0068	ug/g	13-MAY-21	0.02	0.034	
Ethylbenzene	<0.018		0.018	ug/g	13-MAY-21	0.05	1.9	
Toluene	<0.080		0.080	ug/g	13-MAY-21	0.2	7.8	
o-Xylene	< 0.020		0.020	ug/g	13-MAY-21			
m+p-Xylenes	< 0.030		0.030	ug/g	13-MAY-21			
Xylenes (Total)	< 0.050		0.050	ug/g	13-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene	113.3		50-140	%	13-MAY-21			
Surrogate: 1,4-Difluorobenzene	110.9		50-140	%	13-MAY-21			
Hydrocarbons								
F1 (C6-C10)	<5.0		5.0	ug/g	13-MAY-21	25	25	
F1-BTEX	<5.0		5.0	ug/g	13-MAY-21	25	25	
F2 (C10-C16)	<10		10	ug/g	11-MAY-21	10	26	
F3 (C16-C34)	<50		50	ug/g	11-MAY-21	240	1700	
F4 (C34-C50)	<50		50	ug/g	11-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	13-MAY-21			
Chrom. to baseline at nC50	YES		60.440	No Unit	11-MAY-21			
Surrogate: 2-Bromobenzotrifluoride	88.4		60-140	%	11-MAY-21			
Surrogate: 3,4-Dichlorotoluene	110.8		60-140	%	13-MAY-21			
L2584522-20 BH112-21 SS4 7.5-9.5FT								
Sampled By: CLIENT on 04-MAY-21 @ 14:10							""	
Matrix: SOIL].	#1	#2	
Metals								
Antimony (Sb)	<1.0		1.0	ug/g	11-MAY-21	1.3	40	
** Detection Limit for regult exceeds Guideline Limit						1.0	1 40	

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

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



L2584522 CONTD....

Page 8 of 11 3-MAY-21 14:51 (MT)

46995-100							1	3-MAY-21 14:	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2584522-20 BH112-21 SS4 7.5-9.5FT									
Sampled By: CLIENT on 04-MAY-21 @ 14:10									
Matrix: SOIL						#1	#2		
Metals									
Arsenic (As)	2.9		1.0	ug/g	11-MAY-21	18	18		
Barium (Ba)	43.4		1.0	ug/g	11-MAY-21	220	670		
Beryllium (Be)	<0.50		0.50	ug/g	11-MAY-21	2.5	8		
Boron (B)	7.6		5.0	ug/g	11-MAY-21	36	120		
Cadmium (Cd)	<0.50		0.50	ug/g	11-MAY-21	1.2	1.9		
Chromium (Cr)	12.6		1.0	ug/g	11-MAY-21	70	160		
Cobalt (Co)	5.4		1.0	ug/g	11-MAY-21	21	80		
Copper (Cu)	13.7		1.0	ug/g	11-MAY-21	92	230		
Lead (Pb)	6.4		1.0	ug/g	11-MAY-21	120	120		
Molybdenum (Mo)	<1.0		1.0	ug/g	11-MAY-21	2	40		
Nickel (Ni)	11.0		1.0	ug/g	11-MAY-21	82	270		
Selenium (Se)	<1.0		1.0	ug/g	11-MAY-21	1.5	5.5		
Silver (Ag)	<0.20		0.20	ug/g	11-MAY-21	0.5	40		
Thallium (TI)	< 0.50		0.50	ug/g	11-MAY-21	1	3.3		
Uranium (U)	<1.0		1.0	ug/g	11-MAY-21	2.5	33		
Vanadium (V)	24.6		1.0	ug/g	11-MAY-21	86	86		
Zinc (Zn)	29.2		5.0	ug/g	11-MAY-21	290	340		

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

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

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
SAR:L	SAR is incalculable due to Ca and Mg below DL (with Na above DL). Lowest possible SAR is reported as minimum value.
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).

Methods Listed (if applicable):

metrious Listea (ii apprior	ibic).		
ALS Test Code	Matrix	Test Description	Method Reference***
BTX-511-HS-WT	Soil	BTEX-O.Reg 153/04 (July 2011)	SW846 8260

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-WT Soil Conductivity (EC) MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

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

Parameters

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

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
- 3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
- 4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT Soil F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

F2-F4-511-WT

Soil

F2-F4-O.Reg 153/04 (July 2011) CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:

- 1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- 2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- 3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
- 4. F4G: Gravimetric Heavy Hydrocarbons
- 5. F4G-sq: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
- 6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
- 7. F4G-sq cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
- 8. This method is validated for use.
- 9. Data from analysis of validation and quality control samples is available upon request.
- 10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MET-200.2-CCMS-WT

Soil

Metals in Soil by CRC ICPMS

EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Soil **ABN-Calculated Parameters** SW846 8270

MOISTURE-WT Soil % Moisture CCME PHC in Soil - Tier 1 (mod)

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

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking techniqueis used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT

Soil

MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

SAR-R511-WT

Soil

SAR-O.Reg 153/04 (July 2011) SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

XYLENES-SUM-CALC-

Sum of Xylene Isomer

CALCULATION

Concentrations

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

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Reference Information

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

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



Workorder: L2584522 Report Date: 13-MAY-21 Page 1 of 15

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Гest	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	Soil							
Batch R5	457087							
WG3530628-4 Benzene	DUP	WG3530628-3 < 0.0068	<0.0068	RPD-NA	ug/g	N/A	40	13-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	13-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	13-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	13-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	13-MAY-21
WG3530628-2 Benzene	LCS		108.6		%		70-130	13-MAY-21
Ethylbenzene			104.4		%		70-130	13-MAY-21
m+p-Xylenes			95.9		%		70-130	13-MAY-21
o-Xylene			103.8		%		70-130	13-MAY-21
Toluene			102.1		%		70-130	13-MAY-21
WG3530628-1 Benzene	MB		<0.0068		ug/g		0.0068	13-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	13-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	13-MAY-21
o-Xylene			<0.020		ug/g		0.02	13-MAY-21
Toluene			<0.080		ug/g		0.08	13-MAY-21
Surrogate: 1,4-E	Difluorobenzene		108.6		%		50-140	13-MAY-21
Surrogate: 4-Bro	omofluorobenzene		108.7		%		50-140	13-MAY-21
WG3530628-5 Benzene	MS	WG3530628-3	114.7		%		60-140	13-MAY-21
Ethylbenzene			114.3		%		60-140	13-MAY-21
m+p-Xylenes			104.7		%		60-140	13-MAY-21
o-Xylene			113.1		%		60-140	13-MAY-21
Toluene			116.0		%		60-140	13-MAY-21
EC-WT	Soil						-	
	455733							
WG3532202-4 Conductivity	DUP	WG3532202-3 1.16	1.15		mS/cm	0.9	20	11-MAY-21
WG3532202-2 Conductivity	IRM	WT SAR4	95.3		%		70-130	11-MAY-21
WG3532500-1 Conductivity	LCS		104.9		%		90-110	11-MAY-21
WG3532202-1 Conductivity	MB		<0.0040		mS/cm		0.004	11-MAY-21



Workorder: L2584522 Report Date: 13-MAY-21 Page 2 of 15

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
EC-WT		Soil							
Batch R	5456367								
WG3532811-4 Conductivity	DUP		WG3532811-3 2.88	2.87		mS/cm	0.3	20	12-MAY-21
WG3532811-2 Conductivity	IRM		WT SAR4	103.6		%		70-130	12-MAY-21
WG3533269-1 Conductivity	LCS			103.6		%		90-110	12-MAY-21
WG3532811-1 Conductivity	MB			<0.0040		mS/cm		0.004	12-MAY-21
Batch R	5456443								
WG3533040-4 Conductivity	DUP		WG3533040-3 0.307	0.293		mS/cm	4.7	20	12-MAY-21
WG3533040-2 Conductivity	IRM		WT SAR4	100.6		%		70-130	12-MAY-21
WG3533489-1 Conductivity	LCS			103.8		%		90-110	12-MAY-21
WG3533040-1 Conductivity	MB			<0.0040		mS/cm		0.004	12-MAY-21
F1-HS-511-WT		Soil							
Batch R	5457087								
WG3530628-4 F1 (C6-C10)	DUP		WG3530628-3 <5.0	<5.0	RPD-NA	ug/g	N/A	30	13-MAY-21
WG3530628-2 F1 (C6-C10)	LCS			83.3		%		80-120	13-MAY-21
WG3530628-1 F1 (C6-C10)	МВ			<5.0		ug/g		5	40.1414.04
	D: 11 .					ug/g			13-MAY-21
Surrogate: 3,4		oiuene		108.9		%		60-140	13-MAY-21
WG3530628-5 F1 (C6-C10)	MS		WG3530628-3	123.9		%		60-140	13-MAY-21
F2-F4-511-WT		Soil							
Batch R	5454421								
WG3530536-3	DUP		WG3530536-5						
F2 (C10-C16)			<10	<10	RPD-NA	ug/g	N/A	30	07-MAY-21
F3 (C16-C34)			<50	<50	RPD-NA	ug/g	N/A	30	07-MAY-21
F4 (C34-C50)			<50	<50	RPD-NA	ug/g	N/A	30	07-MAY-21
WG3530536-2 F2 (C10-C16)	LCS			92.1		%		80-120	07-MAY-21
F3 (C16-C34)				91.9		%			
1 3 (0 10-034)				J1.5		/0		80-120	07-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT		Soil							
Batch R5	454421								
WG3530536-2 F4 (C34-C50)	LCS			76.0	LCS-L	%		80-120	07-MAY-21
WG3530536-1 F2 (C10-C16)	MB			<10		ug/g		10	07-MAY-21
F3 (C16-C34)				<50		ug/g		50	07-MAY-21
F4 (C34-C50)				<50		ug/g		50	07-MAY-21
Surrogate: 2-Br	omoben	zotrifluoride		87.3		%		60-140	07-MAY-21
WG3530536-4 F2 (C10-C16)	MS		WG3530536-5	90.1		%		60-140	07-MAY-21
F3 (C16-C34)				91.5		%		60-140	07-MAY-21
F4 (C34-C50)				90.6		%		60-140	07-MAY-21
Batch R5	455694								
WG3532108-3	DUP		WG3532108-5						
F2 (C10-C16)			<10	<10	RPD-NA	ug/g	N/A	30	11-MAY-21
F3 (C16-C34)			<50	<50	RPD-NA	ug/g	N/A	30	11-MAY-21
F4 (C34-C50)			<50	<50	RPD-NA	ug/g	N/A	30	11-MAY-21
WG3532108-2 F2 (C10-C16)	LCS			96.3		%		80-120	11-MAY-21
F3 (C16-C34)				98.8		%		80-120	11-MAY-21
F4 (C34-C50)				97.9		%		80-120	11-MAY-21
WG3532108-1 F2 (C10-C16)	МВ			<10		ug/g		10	11-MAY-21
F3 (C16-C34)				<50		ug/g		50	11-MAY-21
F4 (C34-C50)				<50		ug/g		50	11-MAY-21
Surrogate: 2-Br	omoben	zotrifluoride		94.5		%		60-140	11-MAY-21
WG3532108-4 F2 (C10-C16)	MS		WG3532108-5	94.2		%		60-140	11-MAY-21
F3 (C16-C34)				95.1		%		60-140	11-MAY-21
F4 (C34-C50)				96.1		%		60-140	11-MAY-21
MET-200.2-CCMS-	wT	Soil							
Batch R5	455707								
WG3532200-2	CRM		WT-SS-2	102.9		%		70.400	44 MAN 04
Antimony (Sb) Arsenic (As)				102.9		%		70-130	11-MAY-21
Barium (Ba)				99.6		%		70-130 70-130	11-MAY-21
Beryllium (Be)				104.4		%		70-130 70-130	11-MAY-21
Derymani (De)				104.4		70		10-130	11-MAY-21



Workorder: L2584522 Report Date: 13-MAY-21 Page 4 of 15

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5455707								
WG3532200-2 CRM		WT-SS-2						
Boron (B)			9.7		mg/kg		3.5-13.5	11-MAY-21
Cadmium (Cd)			113.3		%		70-130	11-MAY-21
Chromium (Cr)			104.9		%		70-130	11-MAY-21
Cobalt (Co)			103.8		%		70-130	11-MAY-21
Copper (Cu)			106.4		%		70-130	11-MAY-21
Lead (Pb)			105.4		%		70-130	11-MAY-21
Molybdenum (Mo)			105.3		%		70-130	11-MAY-21
Nickel (Ni)			106.0		%		70-130	11-MAY-21
Selenium (Se)			0.14		mg/kg		0-0.34	11-MAY-21
Silver (Ag)			89.6		%		70-130	11-MAY-21
Thallium (TI)			0.084		mg/kg %			11-MAY-21
Uranium (U)			104.0		%		70-130	11-MAY-21
Vanadium (V)			104.6 100.3		%		70-130	11-MAY-21
Zinc (Zn)		W0050000 5	100.3		%		70-130	11-MAY-21
WG3532200-6 DUP Antimony (Sb)		WG3532200-5 0.10	0.11		ug/g	3.5	30	11-MAY-21
Arsenic (As)		4.65	4.69		ug/g	1.0	30	11-MAY-21
Barium (Ba)		67.5	67.0		ug/g	0.6	40	11-MAY-21
Beryllium (Be)		1.02	0.97		ug/g	5.5	30	11-MAY-21
Boron (B)		10.5	9.9		ug/g	5.8	30	11-MAY-21
Cadmium (Cd)		0.066	0.061		ug/g	8.8	30	11-MAY-21
Chromium (Cr)		30.6	30.4		ug/g	0.6	30	11-MAY-21
Cobalt (Co)		11.0	11.0		ug/g	0.4	30	11-MAY-21
Copper (Cu)		16.7	16.5		ug/g	1.3	30	11-MAY-21
Lead (Pb)		4.42	4.37		ug/g	1.1	40	11-MAY-21
Molybdenum (Mo)		0.38	0.39		ug/g	2.6	40	11-MAY-21
Nickel (Ni)		28.9	28.6		ug/g	1.0	30	11-MAY-21
Selenium (Se)		0.24	0.22		ug/g	6.9	30	11-MAY-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	11-MAY-21
Thallium (TI)		0.161	0.154	111 5 1111	ug/g	4.7	30	11-MAY-21
Uranium (U)		0.874	0.820		ug/g	6.4	30	11-MAY-21
Vanadium (V)		41.7	41.4		ug/g	0.8	30	11-MAY-21
Zinc (Zn)		71.4	70.0		ug/g ug/g	1.9	30	11-MAY-21
2.110 (2.11)		71.7	70.0		ug/g	1.5	30	1 1 - IVI/A 1 - Z I



Workorder: L2584522 Report Date: 13-MAY-21 Page 5 of 15

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5455707								
WG3532200-4 LCS Antimony (Sb)			112.9		%		80-120	11-MAY-21
Arsenic (As)			112.2		%		80-120	11-MAY-21
Barium (Ba)			112.1		%		80-120	11-MAY-21
Beryllium (Be)			110.9		%		80-120	11-MAY-21
Boron (B)			111.7		%		80-120	11-MAY-21
Cadmium (Cd)			107.1		%		80-120	11-MAY-21
Chromium (Cr)			111.8		%		80-120	11-MAY-21
Cobalt (Co)			110.7		%		80-120	11-MAY-21
Copper (Cu)			108.3		%		80-120	11-MAY-21
Lead (Pb)			112.7		%		80-120	11-MAY-21
Molybdenum (Mo)			109.0		%		80-120	11-MAY-21
Nickel (Ni)			109.9		%		80-120	11-MAY-21
Selenium (Se)			111.1		%		80-120	11-MAY-21
Silver (Ag)			109.3		%		80-120	11-MAY-21
Thallium (TI)			112.3		%		80-120	11-MAY-21
Uranium (U)			111.2		%		80-120	11-MAY-21
Vanadium (V)			114.9		%		80-120	11-MAY-21
Zinc (Zn)			105.8		%		80-120	11-MAY-21
WG3532200-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	11-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	11-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	11-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	11-MAY-21
Boron (B)			<5.0		mg/kg		5	11-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	11-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	11-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	11-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	11-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	11-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	11-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	11-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	11-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	11-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	11-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5455707 WG3532200-1 MB Uranium (U)			<0.050		mg/kg		0.05	11-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	11-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	11-MAY-21
Batch R5456310 WG3533026-2 CRM		WT-SS-2	04.0		0/			
Antimony (Sb)			94.0		%		70-130	12-MAY-21
Arsenic (As)			93.0		%		70-130	12-MAY-21
Barium (Ba) Beryllium (Be)			93.3 105.0		%		70-130	12-MAY-21
Boron (B)			8.9				70-130	12-MAY-21
Cadmium (Cd)			97.2		mg/kg %		3.5-13.5 70-130	12-MAY-21
Chromium (Cr)			91.1		%		70-130	12-MAY-21 12-MAY-21
Cobalt (Co)			94.0		%		70-130	12-MAY-21
Copper (Cu)			90.5		%		70-130	12-MAY-21
Lead (Pb)			95.3		%		70-130	12-MAY-21
Molybdenum (Mo)			102.9		%		70-130	12-MAY-21
Nickel (Ni)			95.9		%		70-130	12-MAY-21
Selenium (Se)			0.14		mg/kg		0-0.34	12-MAY-21
Silver (Ag)			100.6		%		70-130	12-MAY-21
Thallium (TI)			0.072		mg/kg		0.029-0.129	12-MAY-21
Uranium (U)			91.0		%		70-130	12-MAY-21
Vanadium (V)			93.2		%		70-130	12-MAY-21
Zinc (Zn)			90.3		%		70-130	12-MAY-21
WG3533026-6 DUP		WG3533026-5						
Antimony (Sb)		<0.10	<0.10	RPD-NA	ug/g	N/A	30	12-MAY-21
Arsenic (As)		1.26	1.35		ug/g	7.4	30	12-MAY-21
Barium (Ba)		13.1	14.0		ug/g	7.2	40	12-MAY-21
Beryllium (Be)		0.17	0.20		ug/g	19	30	12-MAY-21
Boron (B)		<5.0	<5.0	RPD-NA	ug/g	N/A	30	12-MAY-21
Cadmium (Cd)		0.053	0.050		ug/g	4.4	30	12-MAY-21
Chromium (Cr)		8.05	8.26		ug/g	2.5	30	12-MAY-21
Cobalt (Co)		1.96	2.02		ug/g	2.8	30	12-MAY-21
Copper (Cu)		2.29	2.47		ug/g	7.6	30	12-MAY-21
Lead (Pb)		2.41	2.62		ug/g	8.2	40	12-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5456310								
WG3533026-6 DUP		WG3533026-5	0.47		/0	40	40	
Molybdenum (Mo)		0.15	0.17		ug/g	12	40	12-MAY-21
Nickel (Ni)		3.85	4.29		ug/g	11	30	12-MAY-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	12-MAY-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	12-MAY-21
Thallium (TI)		<0.050	<0.050	RPD-NA	ug/g	N/A	30	12-MAY-21
Uranium (U)		0.480	0.502		ug/g	4.4	30	12-MAY-21
Vanadium (V)		21.4	22.2		ug/g	3.7	30	12-MAY-21
Zinc (Zn)		9.5	10.4		ug/g	8.8	30	12-MAY-21
WG3533026-4 LCS Antimony (Sb)			107.6		%		80-120	12-MAY-21
Arsenic (As)			103.8		%		80-120	12-MAY-21
Barium (Ba)			99.4		%		80-120	12-MAY-21
Beryllium (Be)			102.2		%		80-120	12-MAY-21
Boron (B)			98.8		%		80-120	12-MAY-21
Cadmium (Cd)			103.9		%		80-120	12-MAY-21
Chromium (Cr)			104.3		%		80-120	12-MAY-21
Cobalt (Co)			102.7		%		80-120	12-MAY-21
Copper (Cu)			99.8		%		80-120	12-MAY-21
Lead (Pb)			102.3		%		80-120	12-MAY-21
Molybdenum (Mo)			106.9		%		80-120	12-MAY-21
Nickel (Ni)			101.0		%		80-120	12-MAY-21
Selenium (Se)			100.8		%		80-120	12-MAY-21
Silver (Ag)			106.2		%		80-120	12-MAY-21
Thallium (TI)			100.8		%		80-120	12-MAY-21
Uranium (U)			100.7		%		80-120	12-MAY-21
Vanadium (V)			105.5		%		80-120	12-MAY-21
Zinc (Zn)			100.3		%		80-120	12-MAY-21
WG3533026-1 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	12-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	12-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	12-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	12-MAY-21
Boron (B)			<5.0		mg/kg		5	12-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	12-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5456310								
WG3533026-1 MB			.0.50		m a // ca		0.5	
Chromium (Cr)			<0.50		mg/kg		0.5	12-MAY-21
Cobalt (Co) Copper (Cu)			<0.10 <0.50		mg/kg		0.1	12-MAY-21
Lead (Pb)					mg/kg		0.5	12-MAY-21
Molybdenum (Mo)			<0.50 <0.10		mg/kg		0.5	12-MAY-21
Nickel (Ni)			<0.10		mg/kg		0.1	12-MAY-21
Selenium (Se)			<0.30		mg/kg mg/kg		0.3	12-MAY-21
Silver (Ag)			<0.20		mg/kg		0.1	12-MAY-21 12-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	
Uranium (U)			<0.050		mg/kg		0.05	12-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	12-MAY-21 12-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	
			\2.0		mg/kg		2	12-MAY-21
Batch R5456921 WG3532875-2 CRM		WT-SS-2						
Antimony (Sb)		W1-33-2	112.0		%		70-130	12-MAY-21
Arsenic (As)			113.5		%		70-130	12-MAY-21
Barium (Ba)			104.9		%		70-130	12-MAY-21
Beryllium (Be)			117.3		%		70-130	12-MAY-21
Boron (B)			9.3		mg/kg		3.5-13.5	12-MAY-21
Cadmium (Cd)			111.6		%		70-130	12-MAY-21
Chromium (Cr)			103.7		%		70-130	12-MAY-21
Cobalt (Co)			114.6		%		70-130	12-MAY-21
Copper (Cu)			121.2		%		70-130	12-MAY-21
Lead (Pb)			112.1		%		70-130	12-MAY-21
Molybdenum (Mo)			105.2		%		70-130	12-MAY-21
Nickel (Ni)			120.5		%		70-130	12-MAY-21
Selenium (Se)			0.16		mg/kg		0-0.34	12-MAY-21
Silver (Ag)			113.0		%		70-130	12-MAY-21
Thallium (TI)			0.076		mg/kg		0.029-0.129	12-MAY-21
Uranium (U)			99.4		%		70-130	12-MAY-21
Vanadium (V)			108.7		%		70-130	12-MAY-21
Zinc (Zn)			114.2		%		70-130	12-MAY-21
WG3532875-4 DUP Antimony (Sb)		L2583009-11 <0.10	<0.10	RPD-NA	ug/g	N/A	30	12-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

MBT-200.2-CCMS-WT	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
Massazzers	MET-200.2-CCMS-WT	Soil							
Arsenic (As) 1.69 2.00 ug/g 17 30 12-MAY-21 Barium (Ba) 34.7 42.5 ug/g 20 40 12-MAY-21 Beryllium (Be) 0.27 0.32 ug/g 15 30 12-MAY-21 Boron (B) 4.50 5.2 RPD-NA ug/g 16 30 12-MAY-21 Cadmium (Cd) 0.060 0.070 ug/g 16 30 12-MAY-21 Chomium (Cr) 11.5 13.6 ug/g 17 30 12-MAY-21 Cobalt (Co) 4.49 5.33 ug/g 17 30 12-MAY-21 Lead (Pb) 4.94 5.60 ug/g 13 40 12-MAY-21 Lead (Pb) 4.94 5.60 ug/g 17 30 12-MAY-21 Molybdenum (Mo) 0.16 0.21 ug/g 17 30 12-MAY-21 Nickel (Ni) 8.78 10.4 ug/g NA 30 12-MAY-21 Si	Batch R5456921								
Barlum (Ba) 34.7 42.5 ug/g 20 40 12-MAY-21 Beryllium (Be) 0.27 0.32 ug/g 15 30 12-MAY-21 Boron (B) <5.0 5.2 RPD-NA ug/g N/A 30 12-MAY-21 Cadmium (Cd) 0.060 0.070 ug/g 16 30 12-MAY-21 Chromium (Cr) 11.5 13.6 ug/g 17 30 12-MAY-21 Cobalt (Co) 4.49 5.33 ug/g 18 30 12-MAY-21 Coper (Cu) 10.3 12.3 ug/g 18 30 12-MAY-21 Lead (Pb) 4.94 5.60 ug/g 13 40 12-MAY-21 Lead (Pb) 4.94 5.60 ug/g 17 30 12-MAY-21 Lead (Pb) 4.94 5.60 ug/g 13 40 12-MAY-21 Molybdenum (Mo) 0.16 0.21 ug/g 17 30 12-MAY-21 Nicke									
Beryllium (Be) 0.27 0.32 ug'g 15 30 12-MAY-21 Boron (B) 45.0 5.2 RPD-NA ug'g N/A 30 12-MAY-21 Cadmium (Cd) 0.060 0.070 ug'g 16 30 12-MAY-21 Chomium (Cr) 11.5 13.6 ug'g 17 30 12-MAY-21 Cobalt (Co) 4.49 5.33 ug'g 18 30 12-MAY-21 Copper (Cu) 10.3 12.3 ug'g 18 30 12-MAY-21 Lead (Pb) 4.94 5.60 ug'g 13 40 12-MAY-21 Molydenum (Mo) 0.16 0.21 ug'g 27 40 12-MAY-21 Mickel (Ni) 8.78 10.4 ug'g 17 30 12-MAY-21 Selenium (Se) <0.20 <0.20 RPD-NA ug'g NA 30 12-MAY-21 Silver (Ag) <0.10 <0.10 RPD-NA ug'g NA 40	, ,								
Boron (B) <5.0 5.2 RPD-NA ug/g N/A 30 12-MAY-21 Cadmium (Cd) 0.060 0.070 ug/g 16 30 12-MAY-21 Chromium (Cr) 11.5 13.6 ug/g 17 30 12-MAY-21 Cobalt (Co) 4.49 5.33 ug/g 18 30 12-MAY-21 Copper (Cu) 10.3 12.3 ug/g 18 30 12-MAY-21 Lead (Pb) 4.94 5.60 ug/g 13 40 12-MAY-21 Molybdenum (Mo) 0.16 0.21 ug/g 17 30 12-MAY-21 Mickel (Ni) 8.78 10.4 ug/g 17 30 12-MAY-21 Selenium (Se) <0.20									
Cadmium (Cd) 0.060 0.070 ug/g 16 30 12-MAY-21 Chromium (Cr) 11.5 13.6 ug/g 17 30 12-MAY-21 Cobalt (Co) 4.48 5.33 ug/g 18 30 12-MAY-21 Copper (Cu) 10.3 12.3 ug/g 18 30 12-MAY-21 Lead (Pb) 4.94 5.60 ug/g 13 40 12-MAY-21 Molybdenum (Mo) 0.16 0.21 ug/g 27 40 12-MAY-21 Nickel (Ni) 8.78 10.4 ug/g 17 30 12-MAY-21 Selenium (Se) <0.20									
Chromium (Cr) 11.5 13.6 ug/g 17 30 12-MAY-21 Cobalt (Co) 4.49 5.33 ug/g 17 30 12-MAY-21 Copper (Cu) 10.3 12.3 ug/g 18 30 12-MAY-21 Lead (Pb) 4.94 5.60 ug/g 13 40 12-MAY-21 Molybdenum (Mo) 0.16 0.21 ug/g 27 40 12-MAY-21 Nickel (Ni) 8.78 10.4 ug/g 17 30 12-MAY-21 Selenium (Se) <0.20					RPD-NA			30	12-MAY-21
Cobalt (Co) 4.49 5.33 ug/g 17 30 12-MAY-21 Copper (Cu) 10.3 12.3 ug/g 18 30 12-MAY-21 Lead (Pb) 4.94 5.60 ug/g 13 40 12-MAY-21 Molybdenum (Mo) 0.16 0.21 ug/g 27 40 12-MAY-21 Nickel (Ni) 8.78 10.4 ug/g 17 30 12-MAY-21 Selenium (Se) <0.20 <0.20 RPD-NA ug/g N/A 30 12-MAY-21 Silver (Ag) <0.10 <0.10 RPD-NA ug/g N/A 40 12-MAY-21 Thallium (TI) 0.073 0.088 ug/g 19 30 12-MAY-21 Uranium (U) 0.375 0.461 ug/g 18 30 12-MAY-21 Uranium (Y) 19.8 23.7 ug/g 18 30 12-MAY-21 WG3532875-3 LCS 16.0 % 80-120 12-MAY-21							16	30	12-MAY-21
Copper (Cu) 10.3 12.3 ug/g 18 30 12-MAY-21 Lead (Pb) 4.94 5.60 ug/g 13 40 12-MAY-21 Molybdenum (Mo) 0.16 0.21 ug/g 27 40 12-MAY-21 Nickel (Ni) 8.78 10.4 ug/g 17 30 12-MAY-21 Selenium (Se) <0.20						ug/g	17	30	12-MAY-21
Lead (Pb) 4.94 5.60 ug/g 13 40 12-MAY-21 Molybdenum (Mo) 0.16 0.21 ug/g 27 40 12-MAY-21 Nickel (Ni) 8.78 10.4 ug/g 17 30 12-MAY-21 Selenium (Se) <0.20	Cobalt (Co)		4.49	5.33		ug/g	17	30	12-MAY-21
Molybdenum (Mo) 0.16 0.21 ug/g 27 40 12-MAY-21 Nickel (Ni) 8.78 10.4 ug/g 17 30 12-MAY-21 Selenium (Se) <0.20 <0.20 RPD-NA ug/g N/A 30 12-MAY-21 Silver (Ag) <0.10 <0.10 RPD-NA ug/g N/A 40 12-MAY-21 Thallium (TI) 0.073 0.088 ug/g 19 30 12-MAY-21 Uranium (U) 0.375 0.461 ug/g 18 30 12-MAY-21 Vanadium (V) 19.8 23.7 ug/g 18 30 12-MAY-21 Vanimony (Sb) 19.8 23.7 ug/g 18 30 12-MAY-21 WG3532875-3 LCS 16 ug/g 17 30 12-MAY-21 Arsenic (As) 116.0 % 80-120 12-MAY-21 Barium (Ba) 97.3 % 80-120 12-MAY-21 Beryllium (Be) 109.8	Copper (Cu)		10.3	12.3		ug/g	18	30	12-MAY-21
Nickel (Ni)	Lead (Pb)		4.94	5.60		ug/g	13	40	12-MAY-21
Selenium (Se) <0.20 <0.20 RPD-NA ug/g N/A 30 12-MAY-21 Silver (Ag) <0.10	Molybdenum (Mo)		0.16	0.21		ug/g	27	40	12-MAY-21
Silver (Ag) <0.10 <0.10 RPD-NA ug/g N/A 40 12-MAY-21 Thallium (TI) 0.073 0.088 ug/g 19 30 12-MAY-21 Uranium (U) 0.375 0.461 ug/g 21 30 12-MAY-21 Vanadium (V) 19.8 23.7 ug/g 18 30 12-MAY-21 Zinc (Zn) 24.0 28.6 ug/g 17 30 12-MAY-21 WG3532875-3 LCS LCS 116.0 % 80-120 12-MAY-21 Arsenic (As) 116.0 % 80-120 12-MAY-21 Barium (Ba) 97.3 % 80-120 12-MAY-21 Beryllium (Be) 109.8 % 80-120 12-MAY-21 Boron (B) 106.4 % 80-120 12-MAY-21 Cadmium (Cd) 107.1 % 80-120 12-MAY-21 Cobalt (Co) 109.4 % 80-120 12-MAY-21 Copper (Cu) 110.0 % </td <td>Nickel (Ni)</td> <td></td> <td>8.78</td> <td>10.4</td> <td></td> <td>ug/g</td> <td>17</td> <td>30</td> <td>12-MAY-21</td>	Nickel (Ni)		8.78	10.4		ug/g	17	30	12-MAY-21
Thallium (TI)	Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	12-MAY-21
Uranium (U) 0.375 0.461 ug/g 21 30 12-MAY-21 Vanadium (V) 19.8 23.7 ug/g 18 30 12-MAY-21 Zinc (Zn) 24.0 28.6 ug/g 17 30 12-MAY-21 WG3532875-3 LCS LCS Serric (As) Markenic (As) </td <td>Silver (Ag)</td> <td></td> <td><0.10</td> <td><0.10</td> <td>RPD-NA</td> <td>ug/g</td> <td>N/A</td> <td>40</td> <td>12-MAY-21</td>	Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	12-MAY-21
Vanadium (V) 19.8 23.7 ug/g 18 30 12-MAY-21 Zinc (Zn) 24.0 28.6 ug/g 17 30 12-MAY-21 WG3532875-3 LCS Antimony (Sb) 116.0 % 80-120 12-MAY-21 Arsenic (As) 107.4 % 80-120 12-MAY-21 Barium (Ba) 97.3 % 80-120 12-MAY-21 Beryllium (Be) 109.8 % 80-120 12-MAY-21 Boron (B) 106.4 % 80-120 12-MAY-21 Cadmium (Cd) 107.1 % 80-120 12-MAY-21 Chromium (Cr) 110.8 % 80-120 12-MAY-21 Cobalt (Co) 109.4 % 80-120 12-MAY-21 Copper (Cu) 110.0 % 80-120 12-MAY-21 Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7	Thallium (TI)		0.073	0.088		ug/g	19	30	12-MAY-21
Zinc (Zn) 24.0 28.6 ug/g 17 30 12-MAY-21 WG3532875-3 LCS Antimony (Sb) 116.0 % 80-120 12-MAY-21 Arsenic (As) 107.4 % 80-120 12-MAY-21 Barium (Ba) 97.3 % 80-120 12-MAY-21 Beryllium (Be) 109.8 % 80-120 12-MAY-21 Boron (B) 106.4 % 80-120 12-MAY-21 Cadmium (Cd) 107.1 % 80-120 12-MAY-21 Chromium (Cr) 110.8 % 80-120 12-MAY-21 Cobalt (Co) 109.4 % 80-120 12-MAY-21 Copper (Cu) 110.0 % 80-120 12-MAY-21 Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 80-120 12-MAY-21 Selenium (Se) 111.7 80-120 12-MAY-21 Silver (Ag)	Uranium (U)		0.375	0.461		ug/g	21	30	12-MAY-21
WG3532875-3 LCS Antimony (Sb) 116.0 % 80-120 12-MAY-21 Arsenic (As) 107.4 % 80-120 12-MAY-21 Barium (Ba) 97.3 % 80-120 12-MAY-21 Beryllium (Be) 109.8 % 80-120 12-MAY-21 Boron (B) 106.4 % 80-120 12-MAY-21 Cadmium (Cd) 107.1 % 80-120 12-MAY-21 Chromium (Cr) 110.8 % 80-120 12-MAY-21 Cobalt (Co) 109.4 % 80-120 12-MAY-21 Copper (Cu) 110.0 % 80-120 12-MAY-21 Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21	Vanadium (V)		19.8	23.7		ug/g	18	30	12-MAY-21
Antimony (Sb) 116.0 % 80-120 12-MAY-21 Arsenic (As) 107.4 % 80-120 12-MAY-21 Barium (Ba) 97.3 % 80-120 12-MAY-21 Beryllium (Be) 109.8 % 80-120 12-MAY-21 Boron (B) 106.4 % 80-120 12-MAY-21 Cadmium (Cd) 107.1 % 80-120 12-MAY-21 Chromium (Cr) 110.8 % 80-120 12-MAY-21 Cobalt (Co) 109.4 % 80-120 12-MAY-21 Copper (Cu) 110.0 % 80-120 12-MAY-21 Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21	Zinc (Zn)		24.0	28.6		ug/g	17	30	12-MAY-21
Arsenic (As) 107.4 % 80-120 12-MAY-21 Barium (Ba) 97.3 % 80-120 12-MAY-21 Beryllium (Be) 109.8 % 80-120 12-MAY-21 Boron (B) 106.4 % 80-120 12-MAY-21 Cadmium (Cd) 107.1 % 80-120 12-MAY-21 Chromium (Cr) 110.8 % 80-120 12-MAY-21 Cobalt (Co) 109.4 % 80-120 12-MAY-21 Copper (Cu) 110.0 % 80-120 12-MAY-21 Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21									
Barium (Ba) 97.3 % 80-120 12-MAY-21 Beryllium (Be) 109.8 % 80-120 12-MAY-21 Boron (B) 106.4 % 80-120 12-MAY-21 Cadmium (Cd) 107.1 % 80-120 12-MAY-21 Chromium (Cr) 110.8 % 80-120 12-MAY-21 Cobalt (Co) 109.4 % 80-120 12-MAY-21 Copper (Cu) 110.0 % 80-120 12-MAY-21 Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21								80-120	12-MAY-21
Beryllium (Be) 109.8 % 80-120 12-MAY-21 Boron (B) 106.4 % 80-120 12-MAY-21 Cadmium (Cd) 107.1 % 80-120 12-MAY-21 Chromium (Cr) 110.8 % 80-120 12-MAY-21 Cobalt (Co) 109.4 % 80-120 12-MAY-21 Copper (Cu) 110.0 % 80-120 12-MAY-21 Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21								80-120	12-MAY-21
Boron (B) 106.4 % 80-120 12-MAY-21 Cadmium (Cd) 107.1 % 80-120 12-MAY-21 Chromium (Cr) 110.8 % 80-120 12-MAY-21 Cobalt (Co) 109.4 % 80-120 12-MAY-21 Copper (Cu) 110.0 % 80-120 12-MAY-21 Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21				97.3				80-120	12-MAY-21
Cadmium (Cd) 107.1 % 80-120 12-MAY-21 Chromium (Cr) 110.8 % 80-120 12-MAY-21 Cobalt (Co) 109.4 % 80-120 12-MAY-21 Copper (Cu) 110.0 % 80-120 12-MAY-21 Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21	Beryllium (Be)			109.8				80-120	12-MAY-21
Chromium (Cr) 110.8 % 80-120 12-MAY-21 Cobalt (Co) 109.4 % 80-120 12-MAY-21 Copper (Cu) 110.0 % 80-120 12-MAY-21 Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21				106.4				80-120	12-MAY-21
Cobalt (Co) 109.4 % 80-120 12-MAY-21 Copper (Cu) 110.0 % 80-120 12-MAY-21 Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21				107.1				80-120	12-MAY-21
Copper (Cu) 110.0 % 80-120 12-MAY-21 Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21	Chromium (Cr)			110.8		%		80-120	12-MAY-21
Lead (Pb) 103.8 % 80-120 12-MAY-21 Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21	Cobalt (Co)			109.4		%		80-120	12-MAY-21
Molybdenum (Mo) 106.4 % 80-120 12-MAY-21 Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21				110.0		%		80-120	12-MAY-21
Nickel (Ni) 109.7 % 80-120 12-MAY-21 Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21				103.8				80-120	12-MAY-21
Selenium (Se) 111.7 % 80-120 12-MAY-21 Silver (Ag) 104.9 % 80-120 12-MAY-21	Molybdenum (Mo)			106.4				80-120	12-MAY-21
Silver (Ag) % 80-120 12-MAY-21	Nickel (Ni)			109.7		%		80-120	12-MAY-21
	Selenium (Se)			111.7		%		80-120	12-MAY-21
Thallium (TI) 101.6 % 80-120 12-MAY-21	Silver (Ag)			104.9		%		80-120	12-MAY-21
	Thallium (TI)			101.6		%		80-120	12-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5456921								
WG3532875-3 LCS Uranium (U)			104.9		%		80-120	12-MAY-21
Vanadium (V)			109.3		%		80-120	12-MAY-21
Zinc (Zn)			105.3		%		80-120	12-MAY-21
WG3532875-1 MB Antimony (Sb)			<0.10		mg/kg		0.1	12-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	12-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	12-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	12-MAY-21
Boron (B)			<5.0		mg/kg		5	12-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	12-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	12-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	12-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	12-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	12-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	12-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	12-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	12-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	12-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	12-MAY-21
Uranium (U)			<0.050		mg/kg		0.05	12-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	12-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	12-MAY-21
MOISTURE-WT	Soil							
Batch R5454135								
WG3530580-3 DUP % Moisture		L2584531-9 5.98	6.53		%	8.8	20	08-MAY-21
WG3530580-2 LCS % Moisture			99.8		%		90-110	08-MAY-21
WG3530580-1 MB % Moisture			<0.25		%		0.25	08-MAY-21
PAH-511-WT	Soil							
Batch R5455080 WG3530579-3 DUP 1-Methylnaphthalene		WG3530579-5 <0.030	<0.030	RPD-NA	ug/g	N/A	40	10-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5455080								
WG3530579-3 DUP		WG3530579-5						
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	10-MAY-21
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Benzo(a)anthracene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Benzo(a)pyrene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Dibenz(a,h)anthracene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Fluoranthene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Fluorene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Indeno(1,2,3-cd)pyrene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	10-MAY-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	10-MAY-21
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	10-MAY-21
WG3530579-2 LCS 1-Methylnaphthalene			92.4		%		FO 140	40 MAY 04
2-Methylnaphthalene			90.3		%		50-140	10-MAY-21
Acenaphthene			90.5 89.5		%		50-140	10-MAY-21
Acenaphthylene			86.3		%		50-140	10-MAY-21
Anthracene			79.7		%		50-140 50-140	10-MAY-21 10-MAY-21
Benzo(a)anthracene			92.4		%		50-140	10-MAY-21
Benzo(a)pyrene			78.9		%		50-140	10-MAY-21
Benzo(b&j)fluoranthene			75.9		%		50-140	10-MAY-21
Benzo(g,h,i)perylene			84.5		%		50-140	10-MAY-21
Benzo(k)fluoranthene			107.8		%		50-140	10-MAY-21
Chrysene			87.3		%		50-140	10-MAY-21
Dibenz(a,h)anthracene			85.5		%		50-140	10-MAY-21
Fluoranthene			88.2		%		50-140	10-MAY-21
Fluorene			89.3		%		50-140	10-MAY-21
Indeno(1,2,3-cd)pyrene			95.7		%		50-140	10-MAY-21
			JU		. •		JU-140	TO IVIENT - Z T



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5455080								
WG3530579-2 LCS Naphthalene			87.4		%		50.440	40 MAY 04
Phenanthrene			90.7		%		50-140	10-MAY-21
			90.7 87.8		%		50-140	10-MAY-21
Pyrene WG3530579-1 MB			07.0		70		50-140	10-MAY-21
WG3530579-1 MB 1-Methylnaphthalene			<0.030		ug/g		0.03	10-MAY-21
2-Methylnaphthalene			<0.030		ug/g		0.03	10-MAY-21
Acenaphthene			<0.050		ug/g		0.05	10-MAY-21
Acenaphthylene			<0.050		ug/g		0.05	10-MAY-21
Anthracene			<0.050		ug/g		0.05	10-MAY-21
Benzo(a)anthracene			<0.050		ug/g		0.05	10-MAY-21
Benzo(a)pyrene			<0.050		ug/g		0.05	10-MAY-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	10-MAY-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	10-MAY-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	10-MAY-21
Chrysene			< 0.050		ug/g		0.05	10-MAY-21
Dibenz(a,h)anthracene			< 0.050		ug/g		0.05	10-MAY-21
Fluoranthene			<0.050		ug/g		0.05	10-MAY-21
Fluorene			<0.050		ug/g		0.05	10-MAY-21
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	10-MAY-21
Naphthalene			<0.013		ug/g		0.013	10-MAY-21
Phenanthrene			<0.046		ug/g		0.046	10-MAY-21
Pyrene			<0.050		ug/g		0.05	10-MAY-21
Surrogate: 2-Fluorobiphe	enyl		90.7		%		50-140	10-MAY-21
Surrogate: d14-Terphen	yl		91.4		%		50-140	10-MAY-21
WG3530579-4 MS		WG3530579-5						
1-Methylnaphthalene			89.2		%		50-140	10-MAY-21
2-Methylnaphthalene			87.1		%		50-140	10-MAY-21
Acenaphthene			86.1		%		50-140	10-MAY-21
Acenaphthylene			81.2		%		50-140	10-MAY-21
Anthracene			75.5		%		50-140	10-MAY-21
Benzo(a)anthracene			87.5		%		50-140	10-MAY-21
Benzo(a)pyrene			75.1		%		50-140	10-MAY-21
Benzo(b&j)fluoranthene			71.9		%		50-140	10-MAY-21
Benzo(g,h,i)perylene			81.9		%		50-140	10-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix Refer	rence Re	sult Q	ualifier (Jnits	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5455080 WG3530579-4 MS Benzo(k)fluoranthene	WG3	3530579-5 87.	′.3	,	%		50-140	10-MAY-21
Chrysene		84.			%		50-140	10-MAY-21
Dibenz(a,h)anthracene		81.			%		50-140	10-MAY-21
Fluoranthene		84.	1.3		%		50-140	10-MAY-21
Fluorene		85.	5.7	•	%		50-140	10-MAY-21
Indeno(1,2,3-cd)pyrene		89.	0.3		%		50-140	10-MAY-21
Naphthalene		84.	.5		%		50-140	10-MAY-21
Phenanthrene		87.	' .5		%		50-140	10-MAY-21
Pyrene		83.	3.8	•	%		50-140	10-MAY-21
PH-WT	Soil							
Batch R5455118								
WG3531178-1 DUP pH	L258 7.97	84522-15 7 8.0	08	J	pH units	0.11	0.3	10-MAY-21
WG3531834-1 LCS pH		7.0	00	1	pH units		6.9-7.1	10-MAY-21
SAR-R511-WT	Soil							
Batch R5455768 WG3532202-4 DUP Calcium (Ca)	WG 3 26.2	3532202-3	5.6	1	mg/L	1.5	30	11-MAY-21
Sodium (Na)	192				_	0.5	30	11-MAY-21
Magnesium (Mg)	14.7					0.7	30	11-MAY-21
WG3532202-2 IRM Calcium (Ca)		SAR4 97.			%		70-130	11-MAY-21
Sodium (Na)		91.			%		70-130	11-MAY-21
Magnesium (Mg)		96.			%		70-130	11-MAY-21
WG3532202-5 LCS Calcium (Ca)			06.0		%		80-120	11-MAY-21
Sodium (Na)			0.4		%		80-120	11-MAY-21
Magnesium (Mg)			0.8		%		80-120	11-MAY-21
WG3532202-1 MB Calcium (Ca)								
).50		mg/L		0.5	11-MAY-21
Sodium (Na) Magnesium (Mg)).50).50		mg/L mg/l		0.5	11-MAY-21
iviagriesium (ivig)		<0	,	ļ	mg/L		0.5	11-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

SAR-RS11-WT Soil Sale	Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MG3532811-4 DUP	SAR-R511-WT		Soil							
Calcium (Ca) 5.12 5.06 mg/L 1.2 30 12-MAY-21 Sodium (Na) 587 586 mg/L 0.2 30 12-MAY-21 Magnesium (Mg) <0.50	Batch R54	56429								
Sodium (Na) 587 586 mg/L 0.2 30 12-MAY-21 Magnesium (Mg) <0.50		DUP			F 06		ma/l	4.0	00	40.141.74.04
Magnesium (Mg) <0.50 0.76 RPD-NA mg/L NIA 30 12-MAY-21 WG3532811-2 IRM WT SAR4 Calcium (Ca) 92.3 % 70-130 12-MAY-21 Sodium (Na) 99.4 % 70-130 12-MAY-21 Magnesium (Mg) 99.4 % 70-130 12-MAY-21 WG3532811-5 LCS Calcium (Ca) 107.0 % 80-120 12-MAY-21 Sodium (Na) 100.8 % 80-120 12-MAY-21 WG3532811-1 MB % 80-120 12-MAY-21 WG35332811-1 MB Calcium (Ca) 0.5 12-MAY-21 Sodium (Na) 0.50 mg/L 0.5 12-MAY-21 Batch R5456498 WG3533040-3 MG2 5.5 30 12-MAY-21 Sodium (Na) 19.2 18.3 mg/L 4.8 30 12-MAY-21 WG3533040-2 RM WT SAR4 WT SAR4 MG2 70-130 12-MAY-21 <t< td=""><td>` ,</td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	` ,			-						
WG3532811-2 IRM Calcium (Ca) WT SAR4 Calcium (Ca) 92.3 % 70-130 12-MAY-21 Sodium (Na) 99.4 % 70-130 12-MAY-21 Magnesium (Mg) 97.4 % 70-130 12-MAY-21 WG3532811-5 LCS Calcium (Ca) 107.0 % 80-120 12-MAY-21 Sodium (Na) 100.8 % 80-120 12-MAY-21 Magnesium (Mg) 101.8 % 80-120 12-MAY-21 WG3532811-1 MB Calcium (Ca) 0.50 mg/L 0.5 12-MAY-21 Sodium (Na) <0.50	, ,									
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WG3533040-1 MB Calcium (Ca) <0.50	Sodium (Na)				98.2		%		80-120	12-MAY-21
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	Magnesium (Mg)				<0.50		mg/L		0.5	12-MAY-21

Report Date: 13-MAY-21 Workorder: L2584522

MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

Average Desorption Efficiency ADE

Method Blank MB

Internal Reference Material IRM CRM Certified Reference Material CCV Continuing Calibration Verification CVS Calibration Verification Standard LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-L	Lab Control Sample recovery was below ALS DQO. Reference Material and/or Matrix Spike results were acceptable. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

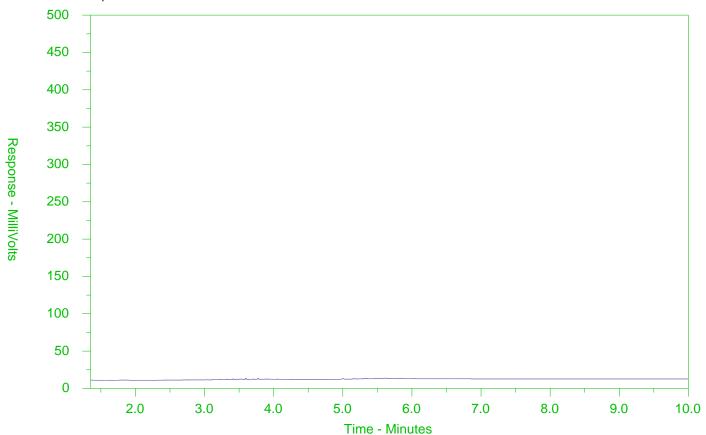
Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Page 15 of 15



ALS Sample ID: L2584522-2

Client Sample ID: BH147-21 SS2 2.5-4.5FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

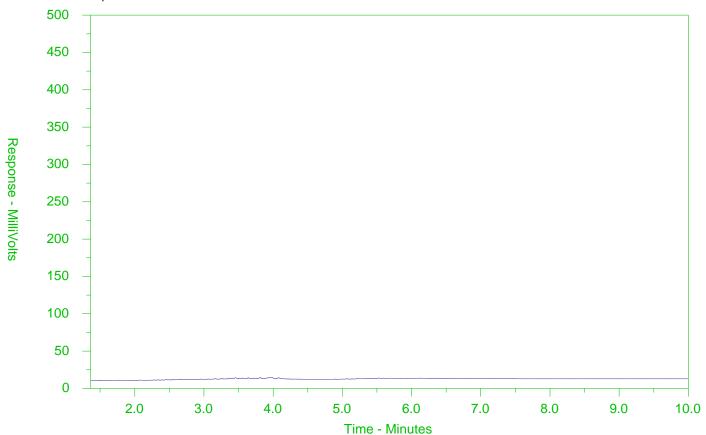
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2584522-4

Client Sample ID: BH147-21 SS4 7.5-9.5FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

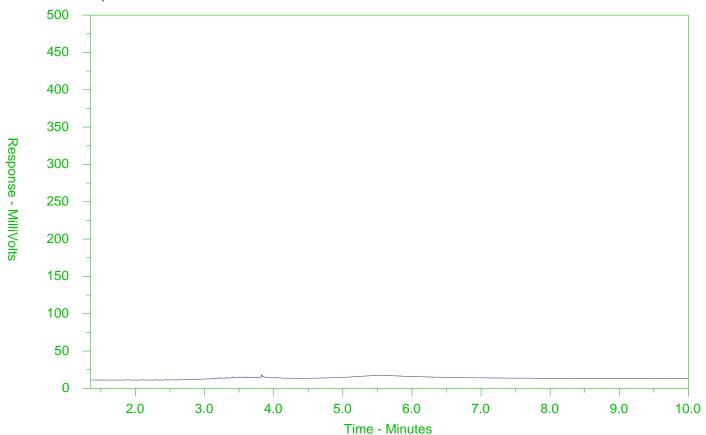
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2584522-6

Client Sample ID: BH144-21 SS2 2.5-4.5FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

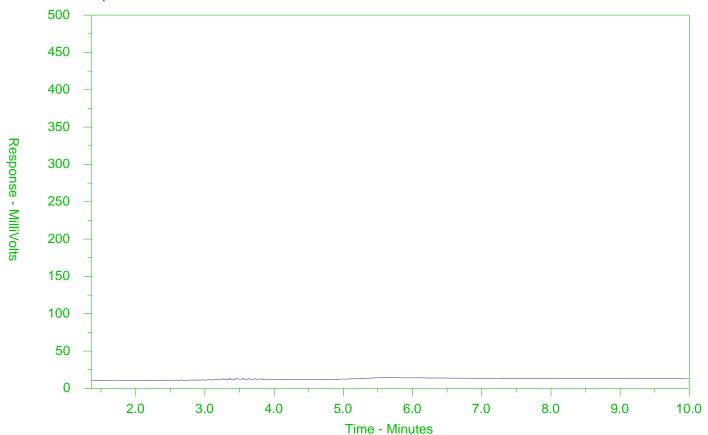
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2584522-10

Client Sample ID: BH145-21 SS2 2.5-4.5FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

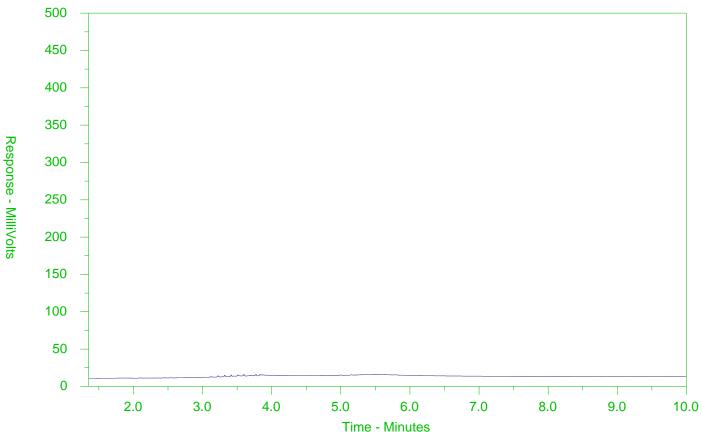
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2584522-14

Client Sample ID: BH146-21 SS2 2.5-4.5FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

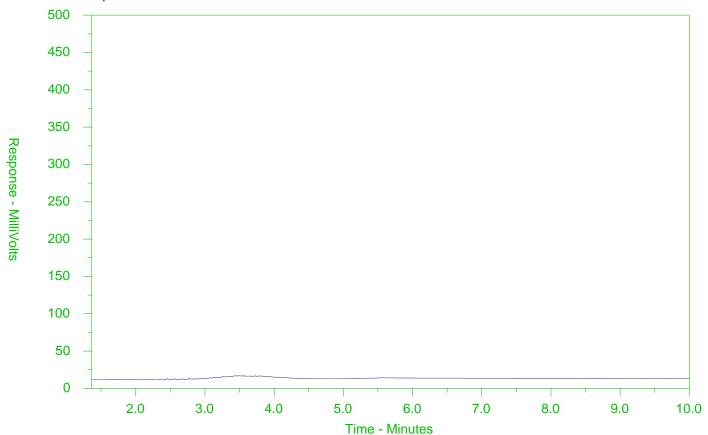
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor and the scale at the left.

CCME F2-F4 HYDROCARBON DISTRIBUTION REPORT



ALS Sample ID: L2584522-18

Client Sample ID: BH112-21 SS2 2.5-4.5FT



← -F2-	→ ←	—F3——◆4—F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	e →	← M	otor Oils/Lube Oils/Grease—	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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

Note: This chromatogram was produced using GC conditions that are specific to ALS Canada CCME F2-F4 method. Refer to the ALS Canada CCME F2-F4 Hydrocarbon Library for a collection of chromatograms from common reference samples (fuels, oils, etc.). The HDR Library can be found at www.alsglobal.com.



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 17 -

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Chain of Custody (COC) / Analytical **Request Form**

L2584522-COFC

OC Number: 17 -

Page 2 of 3

Canada Toll Free: 1 800 668 9878

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Chain of Custody (COC) / Analytical



COC Number: 17 -

Page 3 of 3

Request Form

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MTE CONSULTANTS INC. (Kitchener)

ATTN: JEN LAMBKE

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Date Received: 06-MAY-21

Report Date: 18-MAY-21 12:25 (MT)

Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2584509
Project P.O. #: NOT SUBMITTED
Job Reference: 46995-100

C of C Numbers: Legal Site Desc:

Comments: ADDITIONAL 06-MAY-21 15:24

ADDITIONAL 06-MAY-21 12:42

Emily Hansen Account Manager

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ADDRESS: 60 Northland Road, Unit 1, Waterloo, ON N2V 2B8 Canada | Phone: +1 519 886 6910 | Fax: +1 519 886 9047

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ANALYTICAL GUIDELINE REPORT

L2584509 CONTD....

Page 2 of 13 18-MAY-21 12:25 (MT)

Sample Details							1	8-MAY-21 1	2:25 (MT)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2584509-2 BH111-21 SS2 2.5-45FT									
Sampled By: CLIENT on 05-MAY-21 @ 08:3	0								
Matrix: SOIL						#1	#2	#3	
Physical Tests									
% Moisture	11.5		0.25	%	12-MAY-21				
Metals	11.5		0.23	/0	12-1014 1-21				
Antimony (Sb)	<1.0		1.0	ug/g	17-MAY-21	1.3	40	7.5	
Arsenic (As)	1.6		1.0	ug/g ug/g	17-MAY-21	1.3	18	18	
Barium (Ba)	24.6		1.0	ug/g ug/g	17-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g	17-MAY-21	2.5	8	4	
Boron (B)	<5.0		5.0	ug/g	17-MAY-21	36	120	120	
Boron (B), Hot Water Ext.	0.21		0.10	ug/g	17-MAY-21	36	2	1.5	
Cadmium (Cd)	<0.50		0.50	ug/g	17-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	7.8		1.0	ug/g	17-MAY-21	70	160	160	
Cobalt (Co)	2.8		1.0	ug/g	17-MAY-21	21	80	22	
Copper (Cu)	5.0		1.0	ug/g	17-MAY-21	92	230	140	
Lead (Pb)	3.1		1.0	ug/g	17-MAY-21	120	120	120	
Mercury (Hg)	0.144		0.0050	ug/g	17-MAY-21	0.27	0.27	0.27	
Molybdenum (Mo)	<1.0		1.0	ug/g	17-MAY-21	2	40	6.9	
Nickel (Ni)	5.1		1.0	ug/g	17-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	17-MAY-21	1.5	5.5	2.4	
Silver (Ag)	<0.20		0.20	ug/g	17-MAY-21	0.5	40	20	
Thallium (TI)	<0.50		0.50	ug/g	17-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g	17-MAY-21	2.5	33	23	
Vanadium (V)	16.9		1.0	ug/g	17-MAY-21	86	86	86	
Zinc (Zn)	15.9		5.0	ug/g	17-MAY-21	290	340	340	
Speciated Metals									
Chromium, Hexavalent	0.22		0.20	ug/g	14-MAY-21	0.66	8	8	
Volatile Organic Compounds				3.3					
Benzene	<0.0068		0.0068	ug/g	14-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.018	ug/g	14-MAY-21	0.05	1.9	1.9	
Toluene	<0.080		0.080	ug/g	14-MAY-21	0.2	7.8	0.99	
o-Xylene	<0.020		0.020	ug/g	14-MAY-21				
m+p-Xylenes	<0.030		0.030	ug/g	14-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	14-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	111.3		50-140	%	14-MAY-21				
Surrogate: 1,4-Difluorobenzene	112.4		50-140	%	14-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	14-MAY-21	10	26	10	
F2-Naphth	<10		10	ug/g	14-MAY-21				
F3 (C16-C34)	<50		50	ug/g	14-MAY-21	240	1700	300	
F3-PAH	<50		50	ug/g	14-MAY-21				
F4 (C34-C50)	<50		50	ug/g	14-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	14-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	14-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	84.1		60-140	%	14-MAY-21				
Surrogate: 3,4-Dichlorotoluene	89.3		60-140	%	14-MAY-21				
Polycyclic Aromatic Hydrocarbons									

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

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



ANALYTICAL GUIDELINE REPORT

L2584509 CONTD....

Page 3 of 13 18-MAY-21 12:25 (MT)

46995-100 Sample Details							1	8-MAY-21 1	2:25 (MT)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelin	e Limits	
L2584509-2 BH111-21 SS2 2.5-45FT									
Sampled By: CLIENT on 05-MAY-21 @ 08:30									
Matrix: SOIL						#1	#2	#3	
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	< 0.050		0.050	ug/g	13-MAY-21	0.072	15	0.093	
Acenaphthylene	< 0.050		0.050	ug/g	13-MAY-21	0.093	0.093	14	
Anthracene	< 0.050		0.050	ug/g	13-MAY-21	0.16	0.16	0.16	
Benzo(a)anthracene	< 0.050		0.050	ug/g	13-MAY-21	0.36	1	0.5	
Benzo(a)pyrene	< 0.050		0.050	ug/g	13-MAY-21	0.3	0.7	0.57	
Benzo(b&j)fluoranthene	< 0.050		0.050	ug/g	13-MAY-21	0.47	7	5.7	
Benzo(g,h,i)perylene	< 0.050		0.050	ug/g	13-MAY-21	0.68	13	6.6	
Benzo(k)fluoranthene	< 0.050		0.050	ug/g	13-MAY-21	0.48	7	5.7	
Chrysene	< 0.050		0.050	ug/g	13-MAY-21	2.8	14	7	
Dibenz(a,h)anthracene	< 0.050		0.050	ug/g	13-MAY-21	0.1	0.7	0.57	
Fluoranthene	< 0.050		0.050	ug/g	13-MAY-21	0.56	70	0.69	
Fluorene	< 0.050		0.050	ug/g	13-MAY-21	0.12	6.8	6.8	
Indeno(1,2,3-cd)pyrene	< 0.050		0.050	ug/g	13-MAY-21	0.23	0.76	0.38	
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	13-MAY-21	0.59	8.7	0.92	
1-Methylnaphthalene	< 0.030		0.030	ug/g	13-MAY-21	0.59	8.7	0.92	
2-Methylnaphthalene	< 0.030		0.030	ug/g	13-MAY-21	0.59	8.7	0.92	
Naphthalene	< 0.013		0.013	ug/g	13-MAY-21	0.09	1.8	0.59	
Phenanthrene	< 0.046		0.046	ug/g	13-MAY-21	0.69	12	6.2	
Pyrene	< 0.050		0.050	ug/g	13-MAY-21	1	70	70	
Surrogate: 2-Fluorobiphenyl	92.0		50-140	%	13-MAY-21				
Surrogate: d14-Terphenyl	91.3		50-140	%	13-MAY-21				
L2584509-3 BH111-21 SS3 5-7FT									
Sampled By: CLIENT on 05-MAY-21 @ 08:40									
Matrix: SOIL						#1	#2	#3	
Physical Tests									
Conductivity	0.649		0.0040	mS/cm	17-MAY-21	*0.57	1.4	0.7	
% Moisture	8.30		0.25	%	12-MAY-21			-	
рН	7.66		0.10	pH units	13-MAY-21				
Saturated Paste Extractables									
SAR	25.1	SAR:M	0.10	SAR	17-MAY-21	*2.4	*12	*5	
Calcium (Ca)	2.00		0.50	mg/L	17-MAY-21				
Magnesium (Mg)	< 0.50		0.50	mg/L	17-MAY-21				
Sodium (Na)	129		0.50	mg/L	17-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	17-MAY-21	1.3	40	7.5	
Arsenic (As)	2.2		1.0	ug/g	17-MAY-21	18	18	18	
Barium (Ba)	15.6		1.0	ug/g	17-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g	17-MAY-21	2.5	8	4	
Boron (B)	<5.0		5.0	ug/g	17-MAY-21	36	120	120	
Cadmium (Cd)	< 0.50		0.50	ug/g	17-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	6.7		1.0	ug/g	17-MAY-21	70	160	160	
Cobalt (Co)	2.8		1.0	ug/g	17-MAY-21	21	80	22	
Copper (Cu)	8.7		1.0	ug/g	17-MAY-21	92	230	140	
Lead (Pb)	4.2		1.0	ug/g	17-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	17-MAY-21	2	40	6.9	

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

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



ANALYTICAL GUIDELINE REPORT

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46995-100							1	8-MAY-21 1	2:25 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2584509-3 BH111-21 SS3 5-7FT									
Sampled By: CLIENT on 05-MAY-21 @ 08:40									
Matrix: SOIL						#1	#2	#3	
Metals									
Nickel (Ni)	5.5		1.0	ug/g	17-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	17-MAY-21	1.5	5.5	2.4	
Silver (Ag)	< 0.20		0.20	ug/g	17-MAY-21	0.5	40	20	
Thallium (TI)	< 0.50		0.50	ug/g	17-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g	17-MAY-21	2.5	33	23	
Vanadium (V)	13.7		1.0	ug/g	17-MAY-21	86	86	86	
Zinc (Zn)	27.8		5.0	ug/g	17-MAY-21	290	340	340	
Volatile Organic Compounds									
Benzene	<0.0068		0.0068	ug/g	14-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.018	ug/g	14-MAY-21	0.05	1.9	1.9	
Toluene	<0.080		0.080	ug/g	14-MAY-21	0.2	7.8	0.99	
o-Xylene	< 0.020		0.020	ug/g	14-MAY-21				
m+p-Xylenes	< 0.030		0.030	ug/g	14-MAY-21				
Xylenes (Total)	< 0.050		0.050	ug/g	14-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	104.3		50-140	%	14-MAY-21				
Surrogate: 1,4-Difluorobenzene	107.6		50-140	%	14-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	14-MAY-21	10	26	10	
F2-Naphth	<10		10	ug/g	14-MAY-21				
F3 (C16-C34)	<50		50	ug/g	14-MAY-21	240	1700	300	
F3-PAH	<50		50	ug/g	14-MAY-21				
F4 (C34-C50)	<50		50	ug/g	14-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	14-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	14-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	88.1		60-140	%	14-MAY-21				
Surrogate: 3,4-Dichlorotoluene	84.3		60-140	%	14-MAY-21				
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	<0.050		0.050	ug/g	13-MAY-21	0.072	15	0.093	
Acenaphthylene	< 0.050		0.050	ug/g	13-MAY-21	0.093	0.093	14	
Anthracene	<0.050		0.050	ug/g	13-MAY-21	0.16	0.16	0.16	
Benzo(a)anthracene	< 0.050		0.050	ug/g	13-MAY-21	0.36	1	0.5	
Benzo(a)pyrene	< 0.050		0.050	ug/g	13-MAY-21	0.3	0.7	0.57	
Benzo(b&j)fluoranthene	< 0.050		0.050	ug/g	13-MAY-21	0.47	7	5.7	
Benzo(g,h,i)perylene	< 0.050		0.050	ug/g	13-MAY-21	0.68	13	6.6	
Benzo(k)fluoranthene	< 0.050		0.050	ug/g	13-MAY-21	0.48	7	5.7	
Chrysene	< 0.050		0.050	ug/g	13-MAY-21	2.8	14	7	
Dibenz(a,h)anthracene	< 0.050		0.050	ug/g	13-MAY-21	0.1	0.7	0.57	
Fluoranthene	< 0.050		0.050	ug/g	13-MAY-21	0.56	70	0.69	
Fluorene	< 0.050		0.050	ug/g	13-MAY-21	0.12	6.8	6.8	
Indeno(1,2,3-cd)pyrene	< 0.050		0.050	ug/g	13-MAY-21	0.23	0.76	0.38	
1+2-Methylnaphthalenes	< 0.042		0.042	ug/g	13-MAY-21	0.59	8.7	0.92	
1-Methylnaphthalene	< 0.030		0.030	ug/g	13-MAY-21	0.59	8.7	0.92	
2-Methylnaphthalene	< 0.030		0.030	ug/g	13-MAY-21	0.59	8.7	0.92	
Naphthalene	< 0.013		0.013	ug/g	13-MAY-21	0.09	1.8	0.59	

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

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



ANALYTICAL GUIDELINE REPORT

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46995-100		IOAL	COID		KLFON	. I	1	Page 5 8-MAY-21 1	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed			ne Limits	
L2584509-3 BH111-21 SS3 5-7FT									
Sampled By: CLIENT on 05-MAY-21 @ 08:40									
Matrix: SOIL						#1	#2	#3	
Polycyclic Aromatic Hydrocarbons									
Phenanthrene	<0.046		0.046	ug/g	13-MAY-21	0.69	12	6.2	
Pyrene	< 0.050		0.050	ug/g	13-MAY-21	1	70	70	
Surrogate: 2-Fluorobiphenyl	88.8		50-140	%	13-MAY-21	•	. •		
Surrogate: d14-Terphenyl	86.0		50-140	%	13-MAY-21				
L2584509-7 BH110-21 SS3 5-7FT									
Sampled By: CLIENT on 05-MAY-21 @ 10:10									
Matrix: SOIL						#1	#2	#3	
Physical Tests									
% Moisture	12.9		0.25	%	12-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	14-MAY-21	1.3	40	7.5	
Arsenic (As)	<1.0		1.0	ug/g	14-MAY-21	18	18	18	
Barium (Ba)	9.8		1.0	ug/g	14-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g	14-MAY-21	2.5	8	4	
Boron (B)	<5.0		5.0	ug/g	14-MAY-21	36	120	120	
Cadmium (Cd)	<0.50		0.50	ug/g	14-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	5.2		1.0	ug/g	14-MAY-21	70	160	160	
Cobalt (Co)	1.6		1.0	ug/g	14-MAY-21	21	80	22	
Copper (Cu)	6.4		1.0	ug/g	14-MAY-21	92	230	140	
Lead (Pb)	4.0		1.0	ug/g	14-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	14-MAY-21	2	40	6.9	
Nickel (Ni) Selenium (Se)	3.9 <1.0		1.0	ug/g	14-MAY-21 14-MAY-21	82	270	100	
Silver (Ag)	<0.20		1.0 0.20	ug/g ug/g	14-MAY-21	1.5 0.5	5.5 40	2.4 20	
Thallium (TI)	<0.50		0.50	ug/g ug/g	14-MAY-21	0.5 1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g ug/g	14-MAY-21	2.5	33	23	
Vanadium (V)	11.0		1.0	ug/g ug/g	14-MAY-21	86	86	86	
Zinc (Zn)	22.5		5.0	ug/g	14-MAY-21	290	340	340	
Volatile Organic Compounds	22.0		0.0	_ ~g/g		200	040	040	
Benzene	<0.0068		0.0068	ug/g	14-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.018	ug/g	14-MAY-21	0.05	1.9	1.9	
Toluene	<0.080		0.080	ug/g	14-MAY-21	0.2	7.8	0.99	
o-Xylene	<0.020		0.020	ug/g	14-MAY-21	0.2		0.00	
m+p-Xylenes	< 0.030		0.030	ug/g	14-MAY-21				
Xylenes (Total)	< 0.050		0.050	ug/g	14-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	121.3		50-140	%	14-MAY-21				
Surrogate: 1,4-Difluorobenzene	128.0		50-140	%	14-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	14-MAY-21	10	26	10	
F3 (C16-C34)	<50		50	ug/g	14-MAY-21	240	1700	300	
F4 (C34-C50)	<50		50	ug/g	14-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	14-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	14-MAY-21				

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

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



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L2584509 CONTD....

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46995-100	IVALII	ICAL	GUID	LLINL	KLFON	X I	1	Page 6 8-MAY-21 1	of 13 2:25 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed			ne Limits	
L2584509-7 BH110-21 SS3 5-7FT Sampled By: CLIENT on 05-MAY-21 @ 10:10 Matrix: SOIL						#1	#2	#3	
Matrix: SOIL									
Hydrocarbons									
Surrogate: 2-Bromobenzotrifluoride Surrogate: 3,4-Dichlorotoluene	90.8 91.0		60-140 60-140	% %	14-MAY-21 14-MAY-21				
L2584509-10 BH109-21 SS2 2.5-4.5FT Sampled By: CLIENT on 05-MAY-21 @ 11:10 Matrix: SOIL						#1	#2	#3	
Physical Tests									
% Moisture Metals	6.94		0.25	%	12-MAY-21				
Antimony (Sb)	<1.0		1.0	ug/g	14-MAY-21	1.3	40	7.5	
Arsenic (As)	1.8		1.0	ug/g	14-MAY-21	18	18	18	
Barium (Ba)	17.8		1.0	ug/g	14-MAY-21	220	670	390	
Beryllium (Be)	< 0.50		0.50	ug/g	14-MAY-21	2.5	8	4	
Boron (B)	<5.0		5.0	ug/g	14-MAY-21	36	120	120	
Cadmium (Cd)	< 0.50		0.50	ug/g	14-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	7.4		1.0	ug/g	14-MAY-21	70	160	160	
Cobalt (Co)	2.1		1.0	ug/g	14-MAY-21	21	80	22	
Copper (Cu)	8.9		1.0	ug/g	14-MAY-21	92	230	140	
Lead (Pb)	10.6		1.0	ug/g	14-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	14-MAY-21	2	40	6.9	
Nickel (Ni)	4.7		1.0	ug/g	14-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	14-MAY-21	1.5	5.5	2.4	
Silver (Ag)	<0.20		0.20	ug/g	14-MAY-21	0.5	40	20	
Thallium (TI)	<0.50		0.50	ug/g	14-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g	14-MAY-21	2.5	33	23	
Vanadium (V)	13.9		1.0	ug/g	14-MAY-21	86	86	86	
Zinc (Zn)	39.1		5.0	ug/g	14-MAY-21	290	340	340	
Volatile Organic Compounds									
Benzene	<0.0068		0.0068	ug/g	14-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.018	ug/g	14-MAY-21	0.05	1.9	1.9	
Toluene	<0.080		0.080	ug/g	14-MAY-21	0.2	7.8	0.99	
o-Xylene m+p-Xylenes	<0.020 <0.030		0.020 0.030	ug/g	14-MAY-21 14-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g ug/g	14-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	108.3		50-140	%	14-MAY-21	0.00	9	0.5	
Surrogate: 1,4-Difluorobenzene	115.9		50-140	%	14-MAY-21				
Hydrocarbons	- -								
F1 (C6-C10)	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	14-MAY-21	10	26	10	
F3 (C16-C34)	82		50	ug/g	14-MAY-21	240	1700	300	
F4 (C34-C50)	284		50	ug/g	14-MAY-21	*120	3300	2800	
F4G-SG (GHH-Silica)	1470		250	ug/g	14-MAY-21	*120	3300	2800	
Total Hydrocarbons (C6-C50)	367		72	ug/g	14-MAY-21				
Chrom. to baseline at nC50	NO			No Unit	14-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	85.3		60-140	%	14-MAY-21				

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

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



ANALYTICAL GUIDELINE REPORT

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46995-100							1	8-MAY-21 12:2	25 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2584509-10 BH109-21 SS2 2.5-4.5FT									
Sampled By: CLIENT on 05-MAY-21 @ 11:10									
Matrix: SOIL						#1	#2	#3	
Hydrocarbons									
Surrogate: 3,4-Dichlorotoluene	59.6	SURR- ND	60-140	%	14-MAY-21				
L2584509-16 BH108-21 SS4 7.5-9.5FT									
Sampled By: CLIENT on 05-MAY-21 @ 13:00									
Matrix: SOIL						#1	#2	#3	
Physical Tests									
Conductivity	0.690		0.0040	mS/cm	17-MAY-21	*0.57	1.4	0.7	
% Moisture	15.4		0.25	%	12-MAY-21				
Saturated Paste Extractables									
SAR	25.6	SAR:M	0.10	SAR	17-MAY-21	*2.4	*12	*5	
Calcium (Ca)	1.99		0.50	mg/L	17-MAY-21				
Magnesium (Mg)	<0.50		0.50	mg/L	17-MAY-21				
Sodium (Na)	131		0.50	mg/L	17-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	17-MAY-21	1.3	40	7.5	
Arsenic (As)	2.4		1.0	ug/g	17-MAY-21	18	18	18	
Barium (Ba)	24.6		1.0	ug/g	17-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g	17-MAY-21	2.5	8	4	
Boron (B)	5.4		5.0	ug/g	17-MAY-21	36	120	120	
Cadmium (Cd)	<0.50		0.50	ug/g	17-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	8.6		1.0	ug/g	17-MAY-21	70	160	160	
Cobalt (Co)	3.9 15.6		1.0 1.0	ug/g	17-MAY-21 17-MAY-21	21	80	22	
Copper (Cu)	6.6		1.0	ug/g	17-MAY-21	92	230	140	
Lead (Pb) Molybdenum (Mo)	<1.0		1.0	ug/g	17-MAY-21	120	120	120 6.9	
Nickel (Ni)	7.6		1.0	ug/g	17-MAY-21	2 82	40 270	100	
Selenium (Se)	<1.0		1.0	ug/g	17-MAY-21	1.5	5.5	2.4	
Silver (Ag)	<0.20		0.20	ug/g ug/g	17-MAY-21	0.5	5.5 40	2.4	
Thallium (TI)	<0.50		0.50	ug/g	17-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g ug/g	17-MAY-21	2.5	33	23	
Vanadium (V)	17.0		1.0	ug/g	17-MAY-21	86	86	86	
Zinc (Zn)	48.5		5.0	ug/g	17-MAY-21	290	340	340	
Volatile Organic Compounds	10.0		0.0	ug/g		200	040	040	
Acetone	<0.50		0.50	ug/g	14-MAY-21	0.5	1.8	1.8	
Benzene	<0.0068		0.0068	ug/g ug/g	14-MAY-21	0.02	0.034	0.02	
Bromodichloromethane	<0.050		0.050	ug/g	14-MAY-21	0.02	5.8	5.8	
Bromoform	<0.050		0.050	ug/g	14-MAY-21	0.05	2.5	2.5	
Bromomethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
Carbon tetrachloride	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
Chlorobenzene	<0.050		0.050	ug/g	14-MAY-21	0.05	0.03	0.28	
Dibromochloromethane	<0.050		0.050	ug/g	14-MAY-21	0.05	5.5	5.5	
Chloroform	<0.050		0.050	ug/g	14-MAY-21	0.05	0.26	0.08	
1,2-Dibromoethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
1,2-Dichlorobenzene	<0.050		0.050	ug/g	14-MAY-21	0.05	6.8	3.4	
1,3-Dichlorobenzene	< 0.050		0.050	ug/g	14-MAY-21	0.05	6.8	4.8	
						00			

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

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



ANALYTICAL GUIDELINE REPORT

L2584509 CONTD....

Page 8 of 13 18-MAY-21 12:25 (MT)

Sample Details							1	8-MAY-21 1	2:25 (MT)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2584509-16 BH108-21 SS4 7.5-9.5FT									
Sampled By: CLIENT on 05-MAY-21 @ 13:00									
Matrix: SOIL						#1	#2	#3	
Volatile Organic Compounds									
_	<0.050		0.050		44 MAN 04	0.05	0.05	0.05	
1,4-Dichlorobenzene Dichlorodifluoromethane	<0.050		0.050 0.050	ug/g	14-MAY-21 14-MAY-21	0.05	0.05	0.05	
				ug/g		0.05	1.8	1.8	
1,1-Dichloroethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.57	0.14	
1,2-Dichloroethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
1,1-Dichloroethylene	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
Methylene Chloride	<0.050		0.050	ug/g	14-MAY-21	0.05	0.2	0.06	
1,2-Dichloropropane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	14-MAY-21				
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	14-MAY-21	0.05	0.05	0.05	
1,3-Dichloropropene (cis & trans) Ethylbenzene	<0.042		0.042	ug/g	14-MAY-21	0.05	0.05	0.05	
,	<0.018		0.018	ug/g	14-MAY-21	0.05	1.9	1.9	
n-Hexane	<0.050		0.050	ug/g	14-MAY-21	0.05	2.5	2.5	
Methyl Ethyl Ketone	<0.50		0.50	ug/g	14-MAY-21	0.5	26	14	
Methyl Isobutyl Ketone	<0.50		0.50	ug/g	14-MAY-21	0.5	17	0.89	
MTBE	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
Styrene	<0.050		0.050	ug/g	14-MAY-21	0.05	6.8	0.5	
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
Tetrachloroethylene	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
Toluene	<0.080		0.080	ug/g	14-MAY-21	0.2	7.8	0.99	
1,1,1-Trichloroethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.4	0.11	
1,1,2-Trichloroethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
Trichloroethylene	<0.010		0.010	ug/g	14-MAY-21	0.05	0.05	0.05	
Trichlorofluoromethane	< 0.050		0.050	ug/g	14-MAY-21	0.25	0.46	0.46	
Vinyl chloride	<0.020		0.020	ug/g	14-MAY-21	0.02	0.02	0.02	
o-Xylene	<0.020		0.020	ug/g	14-MAY-21				
m+p-Xylenes	< 0.030		0.030	ug/g	14-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	14-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	102.8		50-140	%	14-MAY-21				
Surrogate: 1,4-Difluorobenzene	121.0		50-140	%	14-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	14-MAY-21	10	26	10	
F3 (C16-C34)	<50		50	ug/g	14-MAY-21	240	1700	300	
F4 (C34-C50)	<50		50	ug/g	14-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	14-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	14-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	88.7		60-140	%	14-MAY-21				
Surrogate: 3,4-Dichlorotoluene	101.9		60-140	%	14-MAY-21				
L2584509-18 BH107-21 SS2 2.5-4.5FT									
Sampled By: CLIENT on 05-MAY-21 @ 13:40									
Matrix: SOIL						#1	#2	#3	

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

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



ANALYTICAL GUIDELINE REPORT

L2584509 CONTD.... Page 9 of 13

46995-100						-	1	Page 9 8-MAY-21 12	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelin	e Limits	
L2584509-18 BH107-21 SS2 2.5-4.5FT									
Sampled By: CLIENT on 05-MAY-21 @ 13:40						44	#0	#0	
Matrix: SOIL						#1	#2	#3	
Physical Tests									
Conductivity	1.04		0.0040	mS/cm	17-MAY-21	*0.57	1.4	*0.7	
% Moisture	9.21		0.25	%	12-MAY-21				
рН	7.99		0.10	pH units	14-MAY-21				
Saturated Paste Extractables									
SAR	66.5	SAR:M	0.10	SAR	17-MAY-21	*2.4	*12	*5	
Calcium (Ca)	0.77		0.50	mg/L	17-MAY-21				
Magnesium (Mg)	< 0.50		0.50	mg/L	17-MAY-21				
Sodium (Na)	212		0.50	mg/L	17-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	17-MAY-21	1.3	40	7.5	
Arsenic (As)	3.7		1.0	ug/g	17-MAY-21	18	18	18	
Barium (Ba)	40.3		1.0	ug/g	17-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g	17-MAY-21	2.5	8	4	
Boron (B)	6.1		5.0	ug/g	17-MAY-21	36	120	120	
Cadmium (Cd)	<0.50		0.50	ug/g	17-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	13.0		1.0	ug/g	17-MAY-21	70	160	160	
Cobalt (Co)	4.9		1.0	ug/g	17-MAY-21	21	80	22	
Copper (Cu)	18.6		1.0	ug/g	17-MAY-21	92	230	140	
Lead (Pb)	14.5		1.0	ug/g	17-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0 10.9		1.0 1.0	ug/g	17-MAY-21	2	40	6.9	
Nickel (Ni) Selenium (Se)	<1.0		1.0	ug/g	17-MAY-21 17-MAY-21	82 1.5	270	100 2.4	
Silver (Ag)	<0.20		0.20	ug/g ug/g	17-MAY-21	0.5	5.5 40	2.4	
Thallium (TI)	<0.50		0.50	ug/g ug/g	17-MAY-21	0.5	3.3	1	
Uranium (U)	<1.0		1.0	ug/g ug/g	17-MAY-21	2.5	33	23	
Vanadium (V)	24.3		1.0	ug/g ug/g	17-MAY-21	2.5 86	33 86	86	
Zinc (Zn)	71.2		5.0	ug/g ug/g	17-MAY-21	290	340	340	
Volatile Organic Compounds	7 1.2		0.0	ug/g	17 100 (1 21	250	340	340	
Benzene	<0.0068		0.0068	ug/g	14-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.008		0.0008	ug/g ug/g	14-MAY-21	0.02	1.9	1.9	
Toluene	<0.010		0.010	ug/g ug/g	14-MAY-21	0.03	7.8	0.99	
o-Xylene	<0.020		0.020	ug/g ug/g	14-MAY-21	0.2	7.0	0.00	
m+p-Xylenes	< 0.030		0.030	ug/g	14-MAY-21				
Xylenes (Total)	< 0.050		0.050	ug/g	14-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	119.9		50-140	%	14-MAY-21		-		
Surrogate: 1,4-Difluorobenzene	126.0		50-140	%	14-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	14-MAY-21	10	26	10	
F3 (C16-C34)	<50		50	ug/g	14-MAY-21	240	1700	300	
F4 (C34-C50)	<50		50	ug/g	14-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	14-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	14-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	85.2		60-140	%	14-MAY-21				
Surrogate: 3,4-Dichlorotoluene	92.4		60-140	%	14-MAY-21				

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

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



ANALYTICAL GUIDELINE REPORT

L2584509 CONTD.... Page 10 of 13

46995-100							1	8-MAY-21 1	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2584509-20 BH107-21 SS4 7.5-9.5FT									
Sampled By: CLIENT on 05-MAY-21 @ 14:00									
Matrix: SOIL						#1	#2	#3	
Physical Tests									
% Moisture	15.8		0.25	%	12-MAY-21				
Volatile Organic Compounds				,,,					
Benzene	<0.0068		0.0068	ug/g	14-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.018	ug/g	14-MAY-21	0.05	1.9	1.9	
Toluene	<0.080		0.080	ug/g	14-MAY-21	0.2	7.8	0.99	
o-Xylene	< 0.020		0.020	ug/g	14-MAY-21				
m+p-Xylenes	< 0.030		0.030	ug/g	14-MAY-21				
Xylenes (Total)	< 0.050		0.050	ug/g	14-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	103.8		50-140	%	14-MAY-21				
Surrogate: 1,4-Difluorobenzene	104.0		50-140	%	14-MAY-21				
Hydrocarbons						_	_	_	
F1 (C6-C10)	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	14-MAY-21	10	26	10	
F3 (C16-C34)	<50		50	ug/g	14-MAY-21	240	1700	300	
F4 (C34-C50) Total Hydrocarbons (C6-C50)	<50 <72		50 72	ug/g	14-MAY-21 14-MAY-21	120	3300	2800	
Chrom. to baseline at nC50	YES		12	ug/g No Unit	14-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	88.4		60-140	%	14-MAY-21				
Surrogate: 3,4-Dichlorotoluene	90.0		60-140	%	14-MAY-21				

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

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

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Descript	ion		
SURR-ND	Surroga unaffect	,	arginally exceeded ALS DQO. Repo	rted non-detect results for associated samples were deemed to be
SAR:M	Reporte	d SAR represe	ents a maximum value. Actual SAR	may be lower if both Ca and Mg were detectable.
Methods Lis	ted (if appl	icable):		
ALS Test Co	de	Matrix	Test Description	Method Reference***
B-HWS-R51	1-WT	Soil	Boron-HWE-O.Reg 153/04 (July 2011)	HW EXTR, EPA 6010B

A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

BTX-511-HS-WT Soil BTEX-O.Reg 153/04 (July 2011) SW846 8260

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-WT Soil Hexavalent Chromium in Soil SW846 3060A/7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-WT Soil Conductivity (EC) MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

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

Parameters

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

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
- 3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
- 4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT Soil F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

F2-F4-511-WT

Soil

F2-F4-O.Reg 153/04 (July 2011) CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:

- 1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- 2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- 3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
- 4. F4G: Gravimetric Heavy Hydrocarbons
- 5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
- 6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
- 7. F4G-sq cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
- 8. This method is validated for use.
- 9. Data from analysis of validation and quality control samples is available upon request.
- 10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F4G-ADD-511-WT

Soil

F4G SG-O.Reg 153/04 (July

MOE DECPH-E3398/CCME TIER 1

2011)
F4G, gravimetric analysis, is determined if the chromatogram does not return to baseline at or before C50. A soil sample is extracted with a solvent mix, the solvent is evaporated and the weight of the residue is determined.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-200.2-CVAA-WT

Soil

Mercury in Soil by CVAAS

EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-200.2-CCMS-WT

Soil

Metals in Soil by CRC ICPMS

EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Soil

ABN-Calculated Parameters

SW846 8270

MOISTURE-WT Soil

oil % Moisture

CCME PHC in Soil - Tier 1 (mod)

PAH-511-WT

Soil

PAH-O.Reg 153/04 (July 2011)

SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking technique is used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT

Soil

MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Reference Information

SAR-R511-WT Soil SAR-O.Reg 153/04 (July 2011) SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental

Protection Act (July 1, 2011).

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

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

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG

must be reported).

XYLENES-SUM-CALC-

Soil

Sum of Xylene Isomer

CALCULATION

WT Concentrations

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

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

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

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



Workorder: L2584509 Report Date: 18-MAY-21 Page 1 of 20

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT Soil							
Batch R5458718 WG3535092-4 DUP Boron (B), Hot Water Ext.	L2584205-24 0.17	0.17		ug/g	1.8	30	17-MAY-21
WG3535092-2 IRM Boron (B), Hot Water Ext.	WT SAR4	102.3		%		70-130	17-MAY-21
WG3535092-3 LCS Boron (B), Hot Water Ext.		103.0		%		70-130	17-MAY-21
WG3535092-1 MB Boron (B), Hot Water Ext.		<0.10		ug/g		0.1	17-MAY-21
BTX-511-HS-WT Soil							
Batch R5457515							
WG3531268-4 DUP Benzene	WG3531268- 3 < 0.0068	3 <0.0068	RPD-NA	ug/g	N/A	40	14-MAY-21
Ethylbenzene	<0.018	<0.018	RPD-NA	ug/g	N/A	40	14-MAY-21
m+p-Xylenes	<0.030	<0.030	RPD-NA	ug/g	N/A	40	14-MAY-21
o-Xylene	<0.020	<0.020	RPD-NA	ug/g	N/A	40	14-MAY-21
Toluene	<0.080	<0.080	RPD-NA	ug/g	N/A	40	14-MAY-21
WG3531268-2 LCS Benzene		119.2		%		70-130	14-MAY-21
Ethylbenzene		114.0		%		70-130	14-MAY-21
m+p-Xylenes		104.8		%		70-130	14-MAY-21
o-Xylene		111.5		%		70-130	14-MAY-21
Toluene		112.8		%		70-130	14-MAY-21
WG3531268-1 MB Benzene		<0.0068		ug/g		0.0068	14-MAY-21
Ethylbenzene		<0.018		ug/g		0.018	14-MAY-21
m+p-Xylenes		< 0.030		ug/g		0.03	14-MAY-21
o-Xylene		<0.020		ug/g		0.02	14-MAY-21
Toluene		<0.080		ug/g		0.08	14-MAY-21
Surrogate: 1,4-Difluorobenzene		115.4		%		50-140	14-MAY-21
Surrogate: 4-Bromofluorobenzene		114.7		%		50-140	14-MAY-21
WG3531268-5 MS Benzene	WG3531268-	3 136.2		%		60-140	14-MAY-21
Ethylbenzene		130.4		%		60-140	14-MAY-21
m+p-Xylenes		120.9		%		60-140	14-MAY-21
o-Xylene		128.1		%		60-140	14-MAY-21
Toluene		129.9		%		60-140	14-MAY-21



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MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-IC-WT	Soil							
Batch R5457795 WG3533077-4 CRM Chromium, Hexavalent		WT-SQC012	102.7		%		70-130	14-MAY-21
WG3533077-3 DUP Chromium, Hexavalent		L2584586-3 <0.20	<0.20	RPD-NA	ug/g	N/A	35	14-MAY-21
WG3533077-2 LCS Chromium, Hexavalent			89.8		%		80-120	14-MAY-21
WG3533077-1 MB Chromium, Hexavalent			<0.20		ug/g		0.2	14-MAY-21
EC-WT	Soil							
Batch R5458801								
WG3535758-4 DUP Conductivity		WG3535758-3 0.690	0.697		mS/cm	1.0	20	17-MAY-21
WG3535758-2 IRM Conductivity		WT SAR4	100.6		%		70-130	17-MAY-21
WG3535923-1 LCS Conductivity			98.4		%		90-110	17-MAY-21
WG3535758-1 MB Conductivity			<0.0040		mS/cm		0.004	17-MAY-21
F1-HS-511-WT	Soil							
Batch R5457445								
WG3532273-4 DUP F1 (C6-C10)		WG3532273-3 <5.0	<5.0	RPD-NA	ug/g	N/A	30	14-MAY-21
WG3532273-2 LCS F1 (C6-C10)			113.8		%		80-120	14-MAY-21
WG3532273-1 MB F1 (C6-C10)			<5.0		ug/g		5	14-MAY-21
Surrogate: 3,4-Dichlorot	oluene		104.1		%		60-140	14-MAY-21
WG3532273-5 MS F1 (C6-C10)		WG3532273-3	118.3		%		60-140	14-MAY-21
Batch R5457515								
WG3531268-4 DUP F1 (C6-C10)		WG3531268-3 <5.0	<5.0	RPD-NA	ug/g	N/A	30	14-MAY-21
WG3531268-2 LCS F1 (C6-C10)			119.6		%		80-120	14-MAY-21
WG3531268-1 MB F1 (C6-C10)			<5.0		ug/g		5	14-MAY-21
Surrogate: 3,4-Dichlorot	oluene		104.3		%		60-140	14-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT	Soil							
Batch R5457515 WG3531268-5 MS F1 (C6-C10)		WG3531268-3	118.5		%		60-140	14-MAY-21
F2-F4-511-WT	Soil							
Batch R5457498								
WG3533054-3 DUP F2 (C10-C16)		WG3533054-5 <10	<10	RPD-NA	ug/g	N/A	30	14-MAY-21
F3 (C16-C34)		<50	<50	RPD-NA	ug/g	N/A	30	14-MAY-21
F4 (C34-C50)		<50	<50	RPD-NA	ug/g	N/A	30	14-MAY-21
WG3533054-2 LCS F2 (C10-C16)			100.2		%		80-120	14-MAY-21
F3 (C16-C34)			101.3		%		80-120	14-MAY-21
F4 (C34-C50)			100.8		%		80-120	14-MAY-21
WG3533054-1 MB F2 (C10-C16)			<10		ug/g		10	14-MAY-21
F3 (C16-C34)			<50		ug/g		50	14-MAY-21
F4 (C34-C50)			<50		ug/g		50	14-MAY-21
Surrogate: 2-Bromobenz	otrifluoride		93.9		%		60-140	14-MAY-21
WG3533054-4 MS		WG3533054-5						
F2 (C10-C16)			100.0		%		60-140	14-MAY-21
F3 (C16-C34)			100.9		%		60-140	14-MAY-21
F4 (C34-C50)			100.9		%		60-140	14-MAY-21
F4G-ADD-511-WT	Soil							
Batch R5457904								
WG3535189-2 LCS F4G-SG (GHH-Silica)			81.7		%		60-140	14-MAY-21
WG3535189-1 MB F4G-SG (GHH-Silica)			<250		ug/g		250	14-MAY-21
HG-200.2-CVAA-WT	Soil							
Batch R5458556								
WG3534969-2 CRM Mercury (Hg)		WT-SS-2	98.5		%		70-130	17-MAY-21
WG3534969-6 DUP Mercury (Hg)		WG3534969-5 < 0.0050	<0.0050	RPD-NA	ug/g	N/A	40	17-MAY-21
WG3534969-3 LCS Mercury (Hg)			98.5		%		80-120	17-MAY-21
WG3534969-1 MB								



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-200.2-CVAA-WT	Soil							
Batch R5458556 WG3534969-1 MB Mercury (Hg)			<0.0050		mg/kg		0.005	17-MAY-21
MET-200.2-CCMS-WT	Soil							
Batch R5457702								
WG3534566-2 CRM Antimony (Sb)		WT-SS-2	81.8		%		70-130	14-MAY-21
Arsenic (As)			95.5		%		70-130	14-MAY-21
Barium (Ba)			94.6		%		70-130	14-MAY-21
Beryllium (Be)			98.7		%		70-130	14-MAY-21
Boron (B)			8.3		mg/kg		3.5-13.5	14-MAY-21
Cadmium (Cd)			107.3		%		70-130	14-MAY-21
Chromium (Cr)			93.2		%		70-130	14-MAY-21
Cobalt (Co)			93.3		%		70-130	14-MAY-21
Copper (Cu)			96.7		%		70-130	14-MAY-21
Lead (Pb)			97.8		%		70-130	14-MAY-21
Molybdenum (Mo)			91.3		%		70-130	14-MAY-21
Nickel (Ni)			95.1		%		70-130	14-MAY-21
Selenium (Se)			0.10		mg/kg		0-0.34	14-MAY-21
Silver (Ag)			94.5		%		70-130	14-MAY-21
Thallium (TI)			0.070		mg/kg		0.029-0.129	14-MAY-21
Uranium (U)			89.6		%		70-130	14-MAY-21
Vanadium (V)			94.0		%		70-130	14-MAY-21
Zinc (Zn)			90.8		%		70-130	14-MAY-21
WG3534566-4 DUP		L2584722-6						
Antimony (Sb)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	14-MAY-21
Arsenic (As)		4.1	4.2		ug/g	3.7	30	14-MAY-21
Barium (Ba)		68.3	70.5		ug/g	3.2	40	14-MAY-21
Beryllium (Be)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	14-MAY-21
Boron (B)		16.7	17.4		ug/g	4.1	30	14-MAY-21
Cadmium (Cd)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	14-MAY-21
Chromium (Cr)		23.3	19.2		ug/g	19	30	14-MAY-21
Cobalt (Co)		6.4	6.5		ug/g	2.1	30	14-MAY-21
Copper (Cu)		16.0	16.4		ug/g	2.6	30	14-MAY-21
Lead (Pb)		19.1	20.4		ug/g	6.3	40	14-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5457702	2							
WG3534566-4 DUP		L2584722-6	4.0					
Molybdenum (Mo)		<1.0	<1.0	RPD-NA	ug/g	N/A	40	14-MAY-21
Nickel (Ni)		14.4	14.7		ug/g ,	2.2	30	14-MAY-21
Selenium (Se)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	14-MAY-21
Silver (Ag)		<0.20	<0.20	RPD-NA	ug/g	N/A	40	14-MAY-21
Thallium (TI)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	14-MAY-21
Uranium (U)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	14-MAY-21
Vanadium (V)		28.5	29.2		ug/g	2.5	30	14-MAY-21
Zinc (Zn)		45.7	46.0		ug/g	0.7	30	14-MAY-21
WG3534566-3 LCS Antimony (Sb)			101.9		%		00.400	44 MANY 04
			101.9				80-120	14-MAY-21
Arsenic (As)					%		80-120	14-MAY-21
Barium (Ba)			104.8 100.6		%		80-120	14-MAY-21
Beryllium (Be)			97.7		%		80-120	14-MAY-21
Boron (B)					%		80-120	14-MAY-21
Cadmium (Cd)			98.8 100.2				80-120	14-MAY-21
Chromium (Cr)					%		80-120	14-MAY-21
Cobalt (Co)			99.9		%		80-120	14-MAY-21
Copper (Cu)			99.6		%		80-120	14-MAY-21
Lead (Pb)			103.5		%		80-120	14-MAY-21
Molybdenum (Mo)			102.3		%		80-120	14-MAY-21
Nickel (Ni)			98.2		%		80-120	14-MAY-21
Selenium (Se)			102.0		%		80-120	14-MAY-21
Silver (Ag)			103.5		%		80-120	14-MAY-21
Thallium (TI)			105.4		%		80-120	14-MAY-21
Uranium (U)			98.5		%		80-120	14-MAY-21
Vanadium (V)			103.2		%		80-120	14-MAY-21
Zinc (Zn)			95.6		%		80-120	14-MAY-21
WG3534566-1 MB Antimony (Sb)			<0.10		mg/kg		0.1	14-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	14-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	14-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	14-MAY-21
Boron (B)			<5.0		mg/kg		5	14-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	
Gadillialli (Ga)			<u> </u>		mg/kg		0.02	14-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5457702								
WG3534566-1 MB Chromium (Cr)			<0.50		mg/kg		0.5	14-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	14-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	14-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	14-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	14-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	14-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	14-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	14-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	14-MAY-21
Uranium (U)			<0.050		mg/kg		0.05	14-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	14-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	14-MAY-21
Batch R5459094								
WG3534969-2 CRM		WT-SS-2						
Antimony (Sb)			107.8		%		70-130	17-MAY-21
Arsenic (As)			110.8		%		70-130	17-MAY-21
Barium (Ba)			112.5		%		70-130	17-MAY-21
Beryllium (Be)			109.2		%		70-130	17-MAY-21
Boron (B)			9.8		mg/kg		3.5-13.5	17-MAY-21
Cadmium (Cd)			110.9		%		70-130	17-MAY-21
Chromium (Cr)			114.8		%		70-130	17-MAY-21
Cobalt (Co)			109.2		%		70-130	17-MAY-21
Copper (Cu)			107.3		%		70-130	17-MAY-21
Lead (Pb)			112.3		%		70-130	17-MAY-21
Molybdenum (Mo)			126.9		%		70-130	17-MAY-21
Nickel (Ni)			114.0		%		70-130	17-MAY-21
Selenium (Se)			0.14		mg/kg		0-0.34	17-MAY-21
Silver (Ag)			123.5		%		70-130	17-MAY-21
Thallium (TI)			0.084		mg/kg		0.029-0.129	17-MAY-21
Uranium (U)			108.7		%		70-130	17-MAY-21
Vanadium (V)			114.8		%		70-130	17-MAY-21
Zinc (Zn)			108.3		%		70-130	17-MAY-21
WG3534969-6 DUP Antimony (Sb)		WG3534969-5 0.51	0.49		ug/g	2.9	30	17-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5459094								
WG3534969-6 DUP		WG3534969-5			,			
Arsenic (As)		6.84	7.01		ug/g	2.4	30	17-MAY-21
Barium (Ba)		119	116		ug/g	2.4	40	17-MAY-21
Beryllium (Be)		0.91	0.89		ug/g	2.0	30	17-MAY-21
Boron (B)		23.9	24.6		ug/g	2.9	30	17-MAY-21
Cadmium (Cd)		0.120	0.117		ug/g	3.0	30	17-MAY-21
Chromium (Cr)		25.6	26.3		ug/g	2.9	30	17-MAY-21
Cobalt (Co)		13.9	14.2		ug/g	2.2	30	17-MAY-21
Copper (Cu)		7.78	8.03		ug/g	3.0	30	17-MAY-21
Lead (Pb)		12.2	12.0		ug/g	1.8	40	17-MAY-21
Molybdenum (Mo)		1.04	1.04		ug/g	0.7	40	17-MAY-21
Nickel (Ni)		30.4	31.5		ug/g	3.3	30	17-MAY-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	17-MAY-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	17-MAY-21
Thallium (TI)		0.110	0.113		ug/g	3.0	30	17-MAY-21
Uranium (U)		0.614	0.596		ug/g	3.0	30	17-MAY-21
Vanadium (V)		32.1	33.9		ug/g	5.4	30	17-MAY-21
Zinc (Zn)		66.0	65.7		ug/g	0.4	30	17-MAY-21
WG3534969-4 LCS								
Antimony (Sb)			104.2		%		80-120	17-MAY-21
Arsenic (As)			111.5		%		80-120	17-MAY-21
Barium (Ba)			111.3		%		80-120	17-MAY-21
Beryllium (Be)			86.7		%		80-120	17-MAY-21
Boron (B)			82.9		%		80-120	17-MAY-21
Cadmium (Cd)			110.3		%		80-120	17-MAY-21
Chromium (Cr)			109.3		%		80-120	17-MAY-21
Cobalt (Co)			108.4		%		80-120	17-MAY-21
Copper (Cu)			105.0		%		80-120	17-MAY-21
Lead (Pb)			97.2		%		80-120	17-MAY-21
Molybdenum (Mo)			97.8		%		80-120	17-MAY-21
Nickel (Ni)			105.8		%		80-120	17-MAY-21
Selenium (Se)			105.0		%		80-120	17-MAY-21
Silver (Ag)			99.4		%		80-120	17-MAY-21
Thallium (TI)			93.8		%		80-120	17-MAY-21
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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5459094								
WG3534969-4 LCS			00.0		0/		00.400	.=
Uranium (U) Vanadium (V)			98.3		%		80-120	17-MAY-21
			112.8 106.6				80-120	17-MAY-21
Zinc (Zn)			100.0		%		80-120	17-MAY-21
WG3534969-1 MB Antimony (Sb)			<0.10		mg/kg		0.1	17-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	17-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	17-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	17-MAY-21
Boron (B)			<5.0		mg/kg		5	17-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	17-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	17-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	17-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	17-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	17-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	17-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	17-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	17-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	17-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	17-MAY-21
Uranium (U)			<0.050		mg/kg		0.05	17-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	17-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	17-MAY-21
Batch R5459102								
WG3535754-2 CRM		WT-SS-2						
Antimony (Sb)			91.6		%		70-130	17-MAY-21
Arsenic (As)			100.7		%		70-130	17-MAY-21
Barium (Ba)			106.0		%		70-130	17-MAY-21
Beryllium (Be)			93.2		%		70-130	17-MAY-21
Boron (B)			7.8		mg/kg		3.5-13.5	17-MAY-21
Cadmium (Cd)			97.0		%		70-130	17-MAY-21
Chromium (Cr)			101.1		%		70-130	17-MAY-21
Cobalt (Co)			102.3		%		70-130	17-MAY-21
Copper (Cu)			103.8		%		70-130	17-MAY-21
Lead (Pb)			94.6		%		70-130	17-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5459102								
WG3535754-2 CRM		WT-SS-2			0/			
Molybdenum (Mo)			98.0		%		70-130	17-MAY-21
Nickel (Ni)			102.7		%		70-130	17-MAY-21
Selenium (Se)			0.14		mg/kg		0-0.34	17-MAY-21
Thallium (TI)			0.070		mg/kg			17-MAY-21
Uranium (U)			92.8		%		70-130	17-MAY-21
Vanadium (V)			102.0		%		70-130	17-MAY-21
Zinc (Zn)			101.8		%		70-130	17-MAY-21
WG3535754-6 DUP Antimony (Sb)		WG3535754- 0.15	5 0.13		ug/g	11	30	17-MAY-21
Arsenic (As)		4.42	4.22		ug/g	4.6	30	17-MAY-21
Barium (Ba)		115	101		ug/g	12	40	17-MAY-21
Beryllium (Be)		0.78	0.70		ug/g	11	30	17-MAY-21
Boron (B)		10.5	9.2		ug/g	13	30	17-MAY-21
Cadmium (Cd)		0.149	0.147		ug/g	1.8	30	17-MAY-21
Chromium (Cr)		28.4	26.6		ug/g	6.3	30	17-MAY-21
Cobalt (Co)		11.5	11.0		ug/g	4.7	30	17-MAY-21
Copper (Cu)		22.5	21.1		ug/g	6.3	30	17-MAY-21
Lead (Pb)		8.94	8.55		ug/g	4.5	40	17-MAY-21
Molybdenum (Mo)		0.36	0.32		ug/g	10	40	17-MAY-21
Nickel (Ni)		25.6	24.4		ug/g	4.9	30	17-MAY-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	17-MAY-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	17-MAY-21
Thallium (TI)		0.162	0.151		ug/g	6.9	30	17-MAY-21
Uranium (U)		0.529	0.522		ug/g	1.3	30	17-MAY-21
Vanadium (V)		41.1	38.6		ug/g	6.2	30	17-MAY-21
Zinc (Zn)		55.8	51.9		ug/g	7.2	30	17-MAY-21
WG3535754-4 LCS								
Antimony (Sb)			107.0		%		80-120	17-MAY-21
Arsenic (As)			101.4		%		80-120	17-MAY-21
Barium (Ba)			99.5		%		80-120	17-MAY-21
Beryllium (Be)			91.4		%		80-120	17-MAY-21
Boron (B)			90.0		%		80-120	17-MAY-21
Cadmium (Cd)			97.9		%		80-120	17-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Silver (Ag) 103.4 % 80-120 17-MAY-2 Thallium (TI) 97.9 % 80-120 17-MAY-2 Uranium (U) 100.2 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 Zinc (Zn) 97.0 % 80-120 17-MAY-2 WG3535754-1 MB MB 80-120 17-MAY-2 Arsenic (As) <0.10 mg/kg 0.1 17-MAY-2 Arsenic (As) <0.10 mg/kg 0.1 17-MAY-2 Beryllium (Ba) <0.50 mg/kg 0.5 17-MAY-2 Beryllium (Be) <0.10 mg/kg 0.1 17-MAY-2 Boron (B) <5.0 mg/kg 0.1 17-MAY-2 Cadmium (Cd) <0.020 mg/kg 0.5 17-MAY-2 Chromium (Cr) <0.50 mg/kg 0.5 17-MAY-2 Cobalt (Co) <0.10 mg/kg 0.5 17-MAY-2 Molybdenum (Mo) <0.50 mg/kg 0.5 17-MAY-2 Molybdenum (Mo) <0.00	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
WG3535754-1 LCS Chromium (Cr)	MET-200.2-CCMS-WT	Soil							
Chromium (Cr) 98.2 % 80-120 17-MAY-2 Cobalt (Co) 98.4 % 80-120 17-MAY-2 Coper (Cu) 95.7 % 80-120 17-MAY-2 Lead (Pb) 96.4 % 80-120 17-MAY-2 Molybdenum (Mo) 102.7 % 80-120 17-MAY-2 Nickel (Ni) 97.2 % 80-120 17-MAY-2 Selenium (Se) 101.7 % 80-120 17-MAY-2 Silver (Ag) 103.4 % 80-120 17-MAY-2 Uranium (U) 100.2 % 80-120 17-MAY-2 Uranium (U) 100.2 % 80-120 17-MAY-2 Zinc (Zn) 97.0 % 80-120 17-MAY-2 Zinc (Zn) 97.0 % 80-120 17-MAY-2 Zinc (Zn) 97.0 % 80-120 17-MAY-2 Barium (Ba) 40.10 mg/kg 0.1 17-MAY-2 Barium (Ba) 40.50 mg/kg 0.1 17-MAY-2 Beryllium (Be) 40.10 mg/kg 0.1 17-MAY-2 Beryllium (Be) 40.10 mg/kg 0.1 17-MAY-2 Boron (B) 45.0 mg/kg 0.1 17-MAY-2 Cadmium (Cd) 40.020 mg/kg 0.1 17-MAY-2 Cadmium (Cd) 40.020 mg/kg 0.5 17-MAY-2 Cadmium (Cd) 40.020 mg/kg 0.5 17-MAY-2 Coper (Cu) 40.50 mg/kg 0.5 17-MAY-2 Coper (Cu) 40.50 mg/kg 0.5 17-MAY-2 Coper (Cu) 40.50 mg/kg 0.5 17-MAY-2 Coper (Cu) 40.50 mg/kg 0.5 17-MAY-2 Coper (Cu) 40.50 mg/kg 0.5 17-MAY-2 Coper (Cu) 40.50 mg/kg 0.5 17-MAY-2 Coper (Cu) 40.50 mg/kg 0.5 17-MAY-2 Coper (Cu) 40.50 mg/kg 0.5 17-MAY-2 Coper (Cu) 40.50 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.20 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.20 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.50 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.50 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.50 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.50 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.50 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.50 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.50 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.50 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.50 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.50 mg/kg 0.5 17-MAY-2 Selenium (Se) 40.50 mg/kg 0.5 17-MAY-2 Selenium (Cd) 40.000 mg/kg 0.5 17-MAY-2 Selenium (Cd) 40.000 mg/kg 0.5 17-MAY-2 Selenium (Cd) 40.000 mg/kg 0.5 17-MAY-2 Selenium (Cd) 40.000 mg/kg 0.5 17-MAY-2 Selenium (Cd) 40.000 mg/kg 0.5 17-MAY-2 Selenium (Cd) 40.000 mg/kg 0.5 17-MAY-2 Selenium (Cd) 40.000 mg/kg 0.5 17-MAY-2 Selenium (Cd) 40.000 mg/kg 0.5 17-MAY-2 Selenium (Cd) 40.000 mg/kg 0.5 17-MAY-2 Selenium (Cd) 40.000 mg/kg 0.5 17-MAY-2 Selenium (Cd) 40.000 mg/kg 0.5 17-MAY-2	Batch R5459102								
Cobalt (Co) 98.4 % 80-120 17-MAY-2 Copper (Cu) 95.7 % 80-120 17-MAY-2 Lead (Pb) 96.4 % 80-120 17-MAY-2 Molybdenum (Mo) 102.7 % 80-120 17-MAY-2 Nickel (Ni) 97.2 % 80-120 17-MAY-2 Selenium (Se) 101.7 % 80-120 17-MAY-2 Silver (Ag) 103.4 % 80-120 17-MAY-2 Thallium (TI) 97.9 % 80-120 17-MAY-2 Uranium (U) 100.2 % 80-120 17-MAY-2 Zinc (Zn) 97.0 9 80-120 17-MAY-2 Zinc (Zn) 97.0 9 80-120 17-MAY-2 WG3535754-1 MB Antimony (Sb) <0.10				00.0		0/		00.400	
Copper (Cu) 95.7 % 80-120 17-MAY-2 Lead (Pb) 96.4 % 80-120 17-MAY-2 Molybdenum (Mo) 102.7 % 80-120 17-MAY-2 Nickel (Ni) 97.2 % 80-120 17-MAY-2 Selenium (Se) 101.7 % 80-120 17-MAY-2 Silver (Ag) 103.4 % 80-120 17-MAY-2 Thallium (TI) 97.9 % 80-120 17-MAY-2 Uranium (U) 100.2 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 WG3535754-1 MB N 80-120 17-MAY-2 WG3535754-1 MB Antimony (Sb) <0.10									
Lead (Pb) 96.4 % 80-120 17-MAY-2 Molybdenum (Mo) 102.7 % 80-120 17-MAY-2 Nickel (NI) 97.2 % 80-120 17-MAY-2 Selenium (Se) 101.7 % 80-120 17-MAY-2 Silver (Ag) 103.4 % 80-120 17-MAY-2 Thallium (TI) 97.9 % 80-120 17-MAY-2 Uranium (U) 100.2 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 WG35357541 MB NB 40.10 mg/kg 0.1 17-MAY-2 Arsenic (As) <0.10									
Molybdenum (Mo) 102.7 % 80-120 17-MAY-2 Nickel (Ni) 97.2 % 80-120 17-MAY-2 Selenium (Se) 101.7 % 80-120 17-MAY-2 Silver (Ag) 103.4 % 80-120 17-MAY-2 Thallium (TI) 97.9 % 80-120 17-MAY-2 Uranium (U) 100.2 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 Vandium (V) 97.0 % 80-120 17-MAY-2 Vandium (P) 97.0 % 80-120 17-MAY-2 WG3535754-1 MB N 80-120 17-MAY-2 WG3535754-1 MB N 0.10 mg/kg 0.1 17-MAY-2 Arsenic (As) <0.10									
Nickel (Ni) 97.2 % 80-120 17-MAY-2 Selenium (Se) 101.7 % 80-120 17-MAY-2 Silver (Ag) 103.4 % 80-120 17-MAY-2 Thallium (TI) 97.9 % 80-120 17-MAY-2 Uranium (U) 100.2 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 Zinc (Zn) 97.0 % 80-120 17-MAY-2 WG3535754-1 MB Antimony (Sb) <0.10									
Selenium (Se) 101.7 % 80-120 17-MAY-2 Silver (Ag) 103.4 % 80-120 17-MAY-2 Thallium (TI) 97.9 % 80-120 17-MAY-2 Uranium (U) 100.2 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 Zinc (Zn) 97.0 % 80-120 17-MAY-2 WG3535754-1 MB N 80-120 17-MAY-2 Arsenic (As) <0.10									
Silver (Ag) 103.4 % 80-120 17-MAY-2 Thallium (TI) 97.9 % 80-120 17-MAY-2 Uranium (U) 100.2 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 Zinc (Zn) 97.0 % 80-120 17-MAY-2 WG3535754-1 MB NB NB NB NB Antimony (Sb) <0.10								80-120	
Thallium (TI) 97.9 % 80-120 17-MAY-2 Uranium (U) 100.2 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 Zinc (Zn) 97.0 % 80-120 17-MAY-2 WG3535754-1 MB MB Antimony (Sb) 0.1 17-MAY-2 Arsenic (As) <0.10									17-MAY-21
Uranium (U) 100.2 % 80-120 17-MAY-2 Vanadium (V) 101.7 % 80-120 17-MAY-2 Zinc (Zn) 97.0 % 80-120 17-MAY-2 WG3535754-1 MB MB MB Antimony (Sb) <0.10	· -·								17-MAY-21
Vanadium (V) 101.7 % 80-120 17-MAY-2 Zinc (Zn) 97.0 % 80-120 17-MAY-2 WG3535754-1 MB MB Antimony (Sb) <0.10								80-120	17-MAY-21
Zinc (Zn) 97.0 % 80-120 17-MAY-2 WG3535754-1 MB Antimony (Sb) <0.10 mg/kg 0.1 17-MAY-2 Arsenic (As) <0.10								80-120	17-MAY-21
WG333754-1 MB MB Antimony (Sb) <0.10	Vanadium (V)			101.7				80-120	17-MAY-21
Antimony (Sb) <0.10	Zinc (Zn)			97.0		%		80-120	17-MAY-21
Arsenic (As) <0.10				-0.10		ma/ka		0.1	47 MAY 04
Barium (Ba) <0.50									
Beryllium (Be) <0.10									
Boron (B) <5.0									
Cadmium (Cd) <0.020									
Chromium (Cr) <0.50									
Cobalt (Co) <0.10									
Copper (Cu) <0.50									
Lead (Pb) <0.50									
Molybdenum (Mo) <0.10									
Nickel (Ni) <0.50									
Selenium (Se) <0.20	• , ,								
Silver (Ag) <0.10 mg/kg 0.1 17-MAY-2 Thallium (TI) <0.050									
Thallium (TI) <0.050	, ,								17-MAY-21
Uranium (U) <0.050 mg/kg 0.05 17-MAY-2									17-MAY-21
									17-MAY-21
									17-MAY-21
	Vanadium (V)			<0.20		mg/kg		0.2	17-MAY-21
Zinc (Zn) <2.0 mg/kg 2 17-MAY-2	Zinc (Zn)			<2.0		mg/kg		2	17-MAY-21

MOISTURE-WT Soil



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT	Soil							
Batch R5456725		1.0504:55.5						
WG3533063-3 DUP % Moisture		L2584426-3 19.1	19.0		%	0.7	20	12-MAY-21
WG3533063-2 LCS % Moisture			101.7		%		90-110	12-MAY-21
WG3533063-1 MB % Moisture			<0.25		%		0.25	12-MAY-21
Batch R5456726								
WG3533065-3 DUP % Moisture		L2584571-1 9.71	9.43		%	2.9	20	12-MAY-21
WG3533065-2 LCS % Moisture			98.6		%		90-110	12-MAY-21
WG3533065-1 MB % Moisture			<0.25		%		0.25	12-MAY-21
PAH-511-WT	Soil							
Batch R5456977								
WG3533811-3 DUP 1-Methylnaphthalene		WG3533811-5 <0.030	<0.030	RPD-NA	ug/g	N/A	40	13-MAY-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	13-MAY-21
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	13-MAY-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	13-MAY-21
Pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
WG3533811-2 LCS								



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5456977								
WG3533811-2 LCS 1-Methylnaphthalene			97.7		%		50.440	40 MAY 04
2-Methylnaphthalene			94.8		%		50-140 50-140	13-MAY-21 13-MAY-21
Acenaphthene			94.5		%			
Acenaphthylene			91.9		%		50-140 50-140	13-MAY-21 13-MAY-21
Anthracene			81.5		%		50-140	
Benzo(a)anthracene			98.3		%		50-140	13-MAY-21 13-MAY-21
Benzo(a)pyrene			98.3 82.3		%			
Benzo(b&j)fluoranthene			88.1		%		50-140	13-MAY-21
			92.9		%		50-140	13-MAY-21
Benzo(g,h,i)perylene Benzo(k)fluoranthene			91.3		%		50-140 50-140	13-MAY-21 13-MAY-21
Chrysene			92.7		%		50-140	13-MAY-21
Dibenz(a,h)anthracene			91.8		%			_
Fluoranthene			91.6		%		50-140	13-MAY-21 13-MAY-21
Fluorene			93.5		%		50-140	13-MAY-21
Indeno(1,2,3-cd)pyrene			91.0		%		50-140 50-140	_
Naphthalene			91.4		%			13-MAY-21
Phenanthrene			92.8		%		50-140	13-MAY-21
Pyrene			90.2		%		50-140	13-MAY-21
•			90.2		76		50-140	13-MAY-21
WG3533811-1 MB 1-Methylnaphthalene			<0.030		ug/g		0.03	13-MAY-21
2-Methylnaphthalene			<0.030		ug/g		0.03	13-MAY-21
Acenaphthene			<0.050		ug/g		0.05	13-MAY-21
Acenaphthylene			<0.050		ug/g		0.05	13-MAY-21
Anthracene			<0.050		ug/g		0.05	13-MAY-21
Benzo(a)anthracene			<0.050		ug/g		0.05	13-MAY-21
Benzo(a)pyrene			<0.050		ug/g		0.05	13-MAY-21
Benzo(b&j)fluoranthene			<0.050		ug/g		0.05	13-MAY-21
Benzo(g,h,i)perylene			<0.050		ug/g		0.05	13-MAY-21
Benzo(k)fluoranthene			<0.050		ug/g		0.05	13-MAY-21
Chrysene			<0.050		ug/g		0.05	13-MAY-21
Dibenz(a,h)anthracene			<0.050		ug/g		0.05	13-MAY-21
Fluoranthene			<0.050		ug/g		0.05	13-MAY-21
Fluorene			<0.050		ug/g		0.05	13-MAY-21
Indeno(1,2,3-cd)pyrene			<0.050		ug/g		0.05	13-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5456977								
WG3533811-1 MB Naphthalene			<0.013		ug/g		0.013	42 MAY 24
Phenanthrene			<0.013		ug/g		0.046	13-MAY-21 13-MAY-21
Pyrene			<0.050		ug/g		0.05	13-MAY-21
Surrogate: 2-Fluorobipho	envl		95.6		%		50-140	13-MAY-21
Surrogate: d14-Terphen	-		91.5		%		50-140	13-MAY-21
WG3533811-4 MS	, .	WG3533811-5	01.0		70		00 110	13-WA1-21
1-Methylnaphthalene		W 0 3 3 3 3 0 1 1 - 3	103.3		%		50-140	13-MAY-21
2-Methylnaphthalene			100.0		%		50-140	13-MAY-21
Acenaphthene			99.9		%		50-140	13-MAY-21
Acenaphthylene			95.4		%		50-140	13-MAY-21
Anthracene			88.0		%		50-140	13-MAY-21
Benzo(a)anthracene			108.1		%		50-140	13-MAY-21
Benzo(a)pyrene			89.5		%		50-140	13-MAY-21
Benzo(b&j)fluoranthene			100.4		%		50-140	13-MAY-21
Benzo(g,h,i)perylene			99.4		%		50-140	13-MAY-21
Benzo(k)fluoranthene			97.1		%		50-140	13-MAY-21
Chrysene			99.6		%		50-140	13-MAY-21
Dibenz(a,h)anthracene			99.0		%		50-140	13-MAY-21
Fluoranthene			102.0		%		50-140	13-MAY-21
Fluorene			99.8		%		50-140	13-MAY-21
Indeno(1,2,3-cd)pyrene			116.6		%		50-140	13-MAY-21
Naphthalene			93.8		%		50-140	13-MAY-21
Phenanthrene			99.2		%		50-140	13-MAY-21
Pyrene			98.5		%		50-140	13-MAY-21
PH-WT	Soil							
Batch R5457093								
WG3533760-1 DUP		L2584920-27						
рН		7.70	7.75	J	pH units	0.05	0.3	13-MAY-21
WG3534028-1 LCS pH			6.94		pH units		6.9-7.1	13-MAY-21
Batch R5457700								
WG3533466-1 DUP pH		L2584587-2 8.18	8.12	J	pH units	0.06	0.3	14-MAY-21
WG3534040-1 LCS								



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WT	Soil							
Batch R5457700 WG3534040-1 LCS pH			6.99		pH units		6.9-7.1	14-MAY-21
SAR-R511-WT	Soil							
Batch R5458840								
WG3535758-4 DUP Calcium (Ca)		WG3535758-3 1.99	2.06		mg/L	3.5	30	17-MAY-21
Sodium (Na)		131	134		mg/L	2.3	30	17-MAY-21
Magnesium (Mg)		<0.50	<0.50	RPD-NA	mg/L	N/A	30	17-MAY-21
WG3535758-2 IRM		WT SAR4						
Calcium (Ca)			95.6		%		70-130	17-MAY-21
Sodium (Na)			97.4		%		70-130	17-MAY-21
Magnesium (Mg)			98.3		%		70-130	17-MAY-21
WG3535758-5 LCS Calcium (Ca)			103.7		%		80-120	17-MAY-21
Sodium (Na)			97.8		%		80-120	17-MAY-21
Magnesium (Mg)			98.2		%		80-120	17-MAY-21
WG3535758-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	17-MAY-21
Sodium (Na)			<0.50		mg/L		0.5	17-MAY-21
Magnesium (Mg)			<0.50		mg/L		0.5	17-MAY-21
VOC-511-HS-WT	Soil							
Batch R5457445								
WG3532273-4 DUP 1,1,1,2-Tetrachloroethan	ne	WG3532273-3 < 0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,1,2,2-Tetrachloroethan	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,1-Dichloroethylene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,2-Dibromoethane		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,2-Dichlorobenzene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,2-Dichloroethane		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5457445								
WG3532273-4 DUP 1,4-Dichlorobenzene		WG3532273-3 <0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	14-MAY-21
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	14-MAY-21
Bromodichloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
cis-1,2-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
cis-1,3-Dichloropropene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	14-MAY-21
Dibromochloromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Dichlorodifluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	14-MAY-21
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	14-MAY-21
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	14-MAY-21
Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	14-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	14-MAY-21
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	14-MAY-21
trans-1,2-Dichloroethyler	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
trans-1,3-Dichloroproper	ne	<0.030	<0.030	RPD-NA	ug/g	N/A	40	14-MAY-21
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	14-MAY-21
Trichlorofluoromethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	14-MAY-21
WG3532273-2 LCS 1,1,1,2-Tetrachloroethan	ne		109.1		%		60-130	14-MAY-21
1,1,2,2-Tetrachloroethan	ne		105.0		%		60-130	14-MAY-21
1,1,1-Trichloroethane			127.3		%		60-130	14-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Batch R5457445 WG3532273-2 LCS 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichlorobenzene Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride					
WG3532273-2 LCS 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride					
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride					
1,1-Dichloroethane 1,1-Dichloroethylene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	100.1		0/		
1,1-Dichloroethylene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	108.1		%	60-130	14-MAY-21
1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Acetone Benzene Bromodichloromethane Bromomethane Carbon tetrachloride	121.0		%	60-130	14-MAY-21
1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	129.2		%	60-130	14-MAY-21
1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	102.9		%	70-130	14-MAY-21
1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	112.3		%	70-130	14-MAY-21
1,3-Dichlorobenzene 1,4-Dichlorobenzene Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	121.9		%	60-130	14-MAY-21
1,4-Dichlorobenzene Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	115.1		%	70-130	14-MAY-21
Acetone Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	117.2		%	70-130	14-MAY-21
Benzene Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	120.7		%	70-130	14-MAY-21
Bromodichloromethane Bromoform Bromomethane Carbon tetrachloride	135.2		%	60-140	14-MAY-21
Bromoform Bromomethane Carbon tetrachloride	122.8		%	70-130	14-MAY-21
Bromomethane Carbon tetrachloride	128.4		%	50-140	14-MAY-21
Carbon tetrachloride	113.2		%	70-130	14-MAY-21
	117.5		%	50-140	14-MAY-21
	134.5	MES	%	70-130	14-MAY-21
Chlorobenzene	112.6		%	70-130	14-MAY-21
Chloroform	126.6		%	70-130	14-MAY-21
cis-1,2-Dichloroethylene	118.6		%	70-130	14-MAY-21
cis-1,3-Dichloropropene	122.4		%	70-130	14-MAY-21
Dibromochloromethane	106.5		%	60-130	14-MAY-21
Dichlorodifluoromethane	100.2		%	50-140	14-MAY-21
Ethylbenzene	109.0		%	70-130	14-MAY-21
n-Hexane	126.9		%	70-130	14-MAY-21
Methylene Chloride	148.3	LCS-H	%	70-130	14-MAY-21
MTBE	113.7		%	70-130	14-MAY-21
m+p-Xylenes	122.6		%	70-130	14-MAY-21
Methyl Ethyl Ketone	104.8		%	60-140	14-MAY-21
Methyl Isobutyl Ketone	102.6		%	60-140	14-MAY-21
o-Xylene	117.4		%	70-130	14-MAY-21
Styrene	106.5		%	70-130	14-MAY-21
Tetrachloroethylene	110.3		%	60-130	14-MAY-21
Toluene	110.9		%	70-130	14-MAY-21
trans-1,2-Dichloroethylene	150.1	LCS-H	%	60-130	14-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R54574	45							
WG3532273-2 LCS					04			
trans-1,3-Dichloropro	pene		123.4		%		70-130	14-MAY-21
Trichloroethylene			118.6		%		60-130	14-MAY-21
Trichlorofluoromethar	ne		129.2		%		50-140	14-MAY-21
Vinyl chloride			124.9		%		60-140	14-MAY-21
WG3532273-1 MB 1,1,1,2-Tetrachloroetl	hane		<0.050		ug/g		0.05	14-MAY-21
1,1,2,2-Tetrachloroetl	hane		< 0.050		ug/g		0.05	14-MAY-21
1,1,1-Trichloroethane	•		< 0.050		ug/g		0.05	14-MAY-21
1,1,2-Trichloroethane	;		<0.050		ug/g		0.05	14-MAY-21
1,1-Dichloroethane			<0.050		ug/g		0.05	14-MAY-21
1,1-Dichloroethylene			<0.050		ug/g		0.05	14-MAY-21
1,2-Dibromoethane			< 0.050		ug/g		0.05	14-MAY-21
1,2-Dichlorobenzene			<0.050		ug/g		0.05	14-MAY-21
1,2-Dichloroethane			<0.050		ug/g		0.05	14-MAY-21
1,2-Dichloropropane			<0.050		ug/g		0.05	14-MAY-21
1,3-Dichlorobenzene			<0.050		ug/g		0.05	14-MAY-21
1,4-Dichlorobenzene			<0.050		ug/g		0.05	14-MAY-21
Acetone			<0.50		ug/g		0.5	14-MAY-21
Benzene			<0.0068		ug/g		0.0068	14-MAY-21
Bromodichlorometha	ne		<0.050		ug/g		0.05	14-MAY-21
Bromoform			<0.050		ug/g		0.05	14-MAY-21
Bromomethane			<0.050		ug/g		0.05	14-MAY-21
Carbon tetrachloride			<0.050		ug/g		0.05	14-MAY-21
Chlorobenzene			< 0.050		ug/g		0.05	14-MAY-21
Chloroform			<0.050		ug/g		0.05	14-MAY-21
cis-1,2-Dichloroethyle	ene		<0.050		ug/g		0.05	14-MAY-21
cis-1,3-Dichloroprope	ene		<0.030		ug/g		0.03	14-MAY-21
Dibromochlorometha	ne		<0.050		ug/g		0.05	14-MAY-21
Dichlorodifluorometha	ane		<0.050		ug/g		0.05	14-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	14-MAY-21
n-Hexane			<0.050		ug/g		0.05	14-MAY-21
Methylene Chloride			<0.050		ug/g		0.05	14-MAY-21
MTBE			<0.050		ug/g		0.05	14-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	14-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5457445	5							
WG3532273-1 MB			0.50				0.5	
Methyl Leabyth Ketone			<0.50		ug/g		0.5	14-MAY-21
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	14-MAY-21
o-Xylene			<0.020		ug/g		0.02	14-MAY-21
Styrene			<0.050		ug/g		0.05	14-MAY-21
Tetrachloroethylene			<0.050		ug/g		0.05	14-MAY-21
Toluene			<0.080		ug/g		0.08	14-MAY-21
trans-1,2-Dichloroethyl			<0.050		ug/g		0.05	14-MAY-21
trans-1,3-Dichloroprop	ene		<0.030		ug/g ,		0.03	14-MAY-21
Trichloroethylene			<0.010		ug/g ,		0.01	14-MAY-21
Trichlorofluoromethane	e		<0.050		ug/g		0.05	14-MAY-21
Vinyl chloride			<0.020		ug/g		0.02	14-MAY-21
Surrogate: 1,4-Difluoro			119.3		%		50-140	14-MAY-21
Surrogate: 4-Bromofluc	orobenzene		101.0		%		50-140	14-MAY-21
WG3532273-5 MS 1,1,1,2-Tetrachloroetha	ane	WG3532273-3	113.0		%		50-140	14-MAY-21
1,1,2,2-Tetrachloroetha			114.2		%		50-140	14-MAY-21
1,1,1-Trichloroethane			120.3		%		50-140	14-MAY-21
1,1,2-Trichloroethane			116.7		%		50-140	14-MAY-21
1,1-Dichloroethane			115.3		%		50-140	14-MAY-21
1,1-Dichloroethylene			119.6		%		50-140	14-MAY-21
1,2-Dibromoethane			113.2		%		50-140	14-MAY-21
1,2-Dichlorobenzene			106.3		%		50-140	14-MAY-21
1,2-Dichloroethane			123.9		%		50-140	14-MAY-21
1,2-Dichloropropane			116.7		%		50-140	14-MAY-21
1,3-Dichlorobenzene			107.6		%		50-140	14-MAY-21
1,4-Dichlorobenzene			108.3		%		50-140	14-MAY-21
Acetone			148.2	MES	%		50-140	14-MAY-21
Benzene			118.1		%		50-140	14-MAY-21
Bromodichloromethane	Э		129.2		%		50-140	14-MAY-21
Bromoform			124.0		%		50-140	14-MAY-21
Bromomethane			110.0		%		50-140	14-MAY-21
Carbon tetrachloride			124.5		%		50-140	14-MAY-21
Chlorobenzene			113.3		%		50-140	14-MAY-21
Chloroform			122.7		%		50-140	14-MAY-21
							00 110	



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5457445								
WG3532273-5 MS		WG3532273-3			0.4			
cis-1,2-Dichloroethylene			115.8		%		50-140	14-MAY-21
cis-1,3-Dichloropropene			121.6		%		50-140	14-MAY-21
Dibromochloromethane			114.1		%		50-140	14-MAY-21
Dichlorodifluoromethane)		94.3		%		50-140	14-MAY-21
Ethylbenzene			108.0		%		50-140	14-MAY-21
n-Hexane			124.2		%		50-140	14-MAY-21
Methylene Chloride			137.3		%		50-140	14-MAY-21
MTBE			116.2		%		50-140	14-MAY-21
m+p-Xylenes			119.7		%		50-140	14-MAY-21
Methyl Ethyl Ketone			116.2		%		50-140	14-MAY-21
Methyl Isobutyl Ketone			117.2		%		50-140	14-MAY-21
o-Xylene			118.0		%		50-140	14-MAY-21
Styrene			109.2		%		50-140	14-MAY-21
Tetrachloroethylene			103.7		%		50-140	14-MAY-21
Toluene			111.4		%		50-140	14-MAY-21
trans-1,2-Dichloroethyle	ne		136.7		%		50-140	14-MAY-21
trans-1,3-Dichloroproper	ne		129.6		%		50-140	14-MAY-21
Trichloroethylene			110.7		%		50-140	14-MAY-21
Trichlorofluoromethane			118.9		%		50-140	14-MAY-21
Vinyl chloride			114.6		%		50-140	14-MAY-21

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MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Legend:

ALS Control Limit (Data Quality Objectives)

DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample Standard Reference Material SRM

MS Matrix Spike

Matrix Spike Duplicate **MSD**

Average Desorption Efficiency ADE

Method Blank MB

Internal Reference Material IRM CRM Certified Reference Material Continuing Calibration Verification CCV CVS Calibration Verification Standard LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

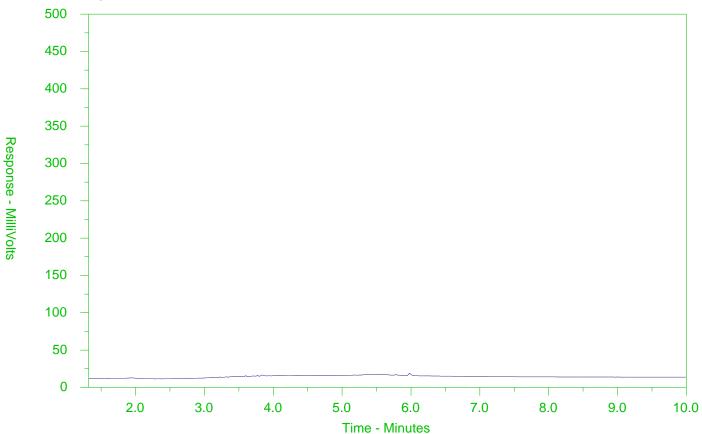
Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

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ALS Sample ID: L2584509-2

Client Sample ID: BH111-21 SS2 2.5-45FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

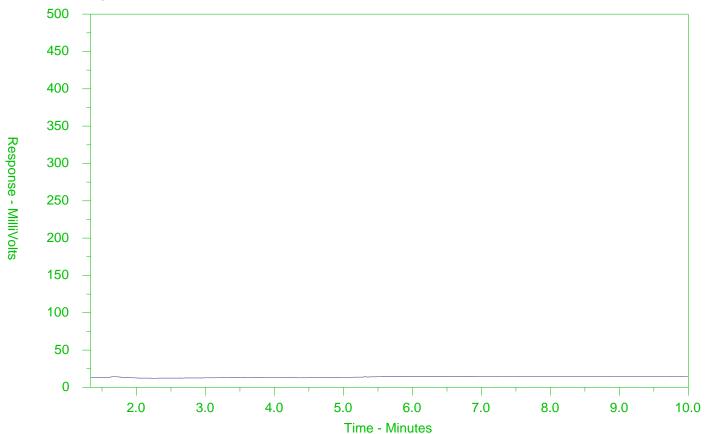
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2584509-3

Client Sample ID: BH111-21 SS3 5-7FT



← -F2-	→←	_F3 F4_	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	otor Oils/Lube Oils/Grease——	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

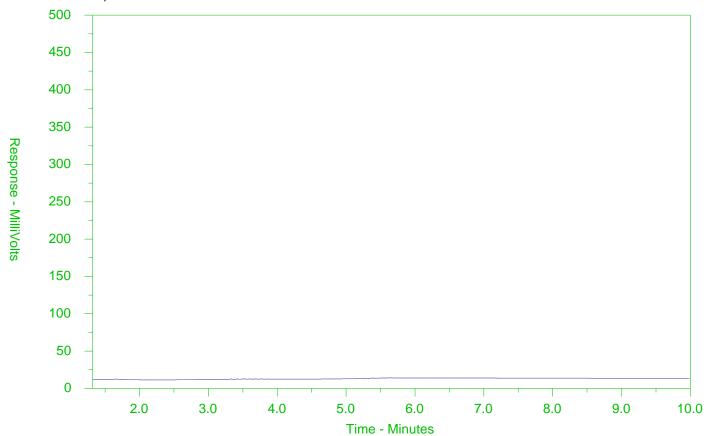
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2584509-7

Client Sample ID: BH110-21 SS3 5-7FT



← -F2-	→ ←	—F3 —→←—F4—	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ıe →	← Mot	tor Oils/Lube Oils/Grease——	-
←	– Diesel/Je	t Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

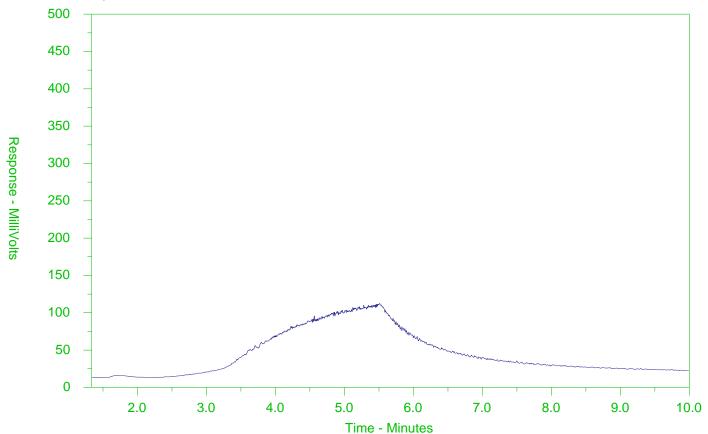
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2584509-10

Client Sample ID: BH109-21 SS2 2.5-4.5FT



← -F2-	→←	_F3 F4_	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	otor Oils/Lube Oils/Grease——	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

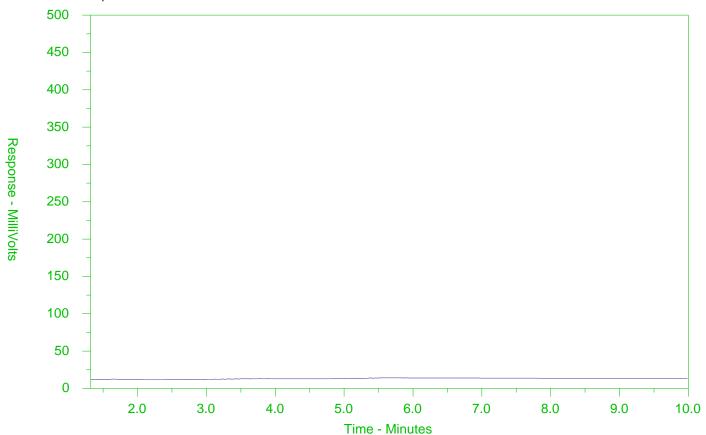
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2584509-16

Client Sample ID: BH108-21 SS4 7.5-9.5FT



← -F2-	→ ←	—F3 → ← F4—	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ıe →	← Mot	or Oils/Lube Oils/Grease-	
←	- Diesel/Je	t Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

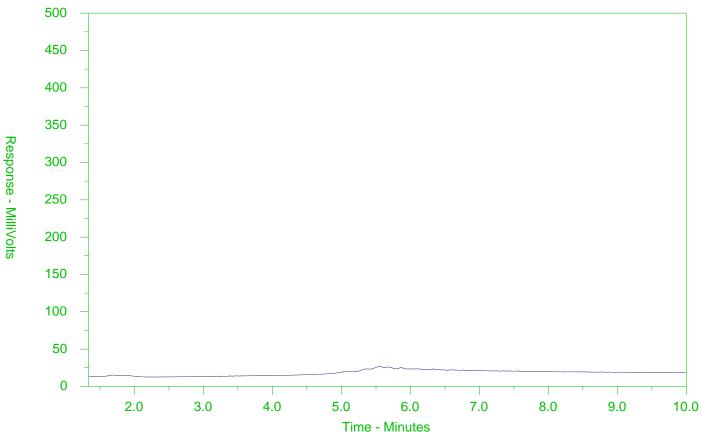
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2584509-18

Client Sample ID: BH107-21 SS2 2.5-4.5FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

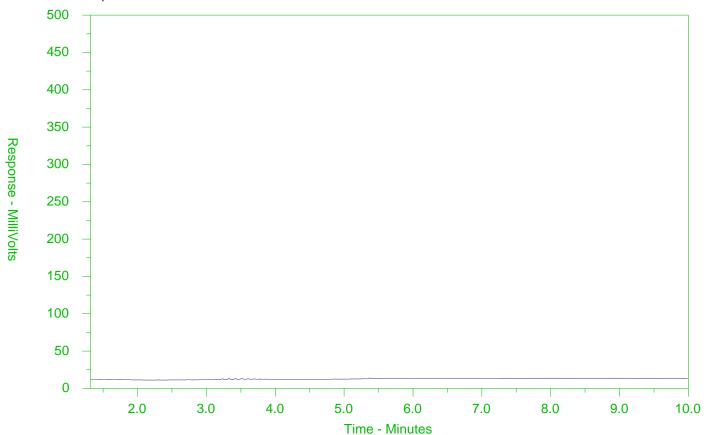
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2584509-20

Client Sample ID: BH107-21 SS4 7.5-9.5FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



Chain of Custody (COC) / Analytical Request Form

COC Number: 17 -

Environmental

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Canada Toll Free: 1 800 668 9878

L2584509-COFC

Page / of 3

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Chain of Custody (COC) / Analytical Request Form

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



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Canada Toll Free: 1 800 668 9878

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Page 3 of 3

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(lab use only)	(This descripti	on will appear on the report)		(dd-mmm-yy)	(hh:mm)	Sample Type	١ź	PHC F1	Metals	Metals	PAHs	SAR &	Ŧ	PCBs	PHC F2					. W	S
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Drinking	Water (DW) Samples ¹ (client use) Openial instructions / C		ctronic COC only)	king on the drop	J-down list below	Froze	en .			1411 6.1.	_		vation		Yes	(ian use	Only)	No		_
Are samples tak	en from a Regulated DW System?						1	acks		-	П					Yes			No	ř	5
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Are samples for	human consumption/ use?	Table 1 Res. Table 3.1	R/P/I, Table 3.1 I/C/C (ESQS, O.Reg. 406/19) - coarse, AND							LER TEI	MPERA	TURES	°C	-		FIN	IAL COOL	FR TEN	/PERATI	IRES °C	
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REFER TO BACK	PAGE FOR ALS LOCATIONS AND SA	AMPLING INFORMATION		WHI	TE - LABORATO	RY COPY YELI	LOW -	CLIENT	COPY	~~					$\frac{\mathcal{L}}{l}$	<u></u>	-1	<u> </u>		JUNE 2	016 FRON



MTE CONSULTANTS INC. (Kitchener)

ATTN: JEN LAMBKE

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Date Received: 07-MAY-21

Report Date: 18-MAY-21 07:54 (MT)

Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2585298

Project P.O. #: NOT SUBMITTED

Job Reference: 46995-100

C of C Numbers: Legal Site Desc:

Comments: ADDITIONAL 10-MAY-21 08:25

ADDITIONAL 07-MAY-21 15:09

Emily Hansen Account Manager

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ANALYTICAL GUIDELINE REPORT

L2585298 CONTD....

Page 2 of 15 18-MAY-21 07:54 (MT)

46995-100 Sample Details							1	8-MAY-21 0	7:54 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2585298-2 BH106-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 06-MAY-21 @ 08:50									
Matrix: SOIL						#1	#2	#3	
Physical Tests									
% Moisture	5.21		0.25	%	12-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	17-MAY-21	1.3	40	7.5	
Arsenic (As)	5.3		1.0	ug/g	17-MAY-21	18	18	18	
Barium (Ba)	52.5		1.0	ug/g	17-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g	17-MAY-21	2.5	8	4	
Boron (B)	9.3		5.0	ug/g	17-MAY-21	36	120	120	
Cadmium (Cd)	<0.50		0.50	ug/g	17-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	26.3		1.0	ug/g	17-MAY-21	70	160	160	
Cobalt (Co)	5.6		1.0	ug/g	17-MAY-21	21	80	22	
Copper (Cu)	30.8		1.0	ug/g	17-MAY-21	92	230	140	
Lead (Pb)	44.5		1.0	ug/g	17-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	17-MAY-21	2	40	6.9	
Nickel (Ni)	13.9		1.0	ug/g	17-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	17-MAY-21	1.5	5.5	2.4	
Silver (Ag)	<0.20		0.20	ug/g	17-MAY-21	0.5	40	20	
Thallium (TI)	<0.50		0.50	ug/g	17-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g	17-MAY-21	2.5	33	23	
Vanadium (V)	32.5		1.0	ug/g	17-MAY-21	86	86	86	
Zinc (Zn)	155		5.0	ug/g	17-MAY-21	290	340	340	
Volatile Organic Compounds									
Benzene	<0.0068		0.0068	ug/g	17-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.018	ug/g	17-MAY-21	0.05	1.9	1.9	
Toluene	<0.080		0.080	ug/g	17-MAY-21	0.2	7.8	0.99	
o-Xylene	<0.020		0.020	ug/g	17-MAY-21				
m+p-Xylenes	<0.030		0.030	ug/g	17-MAY-21	2.05	•		
Xylenes (Total)	< 0.050		0.050	ug/g	17-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	118.2		50-140	%	17-MAY-21				
Surrogate: 1,4-Difluorobenzene Hydrocarbons	114.9		50-140	%	17-MAY-21				
	5 0		5 0		47.140./ 04	0.5	0.5	0.5	
F1 (C6-C10)	<5.0		5.0	ug/g	17-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	17-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	12-MAY-21	10	26	10	
F2-Naphth	<10		10	ug/g	17-MAY-21	0.40	4700	000	
F3 (C16-C34)	124		50	ug/g	12-MAY-21	240	1700	300	
F3-PAH	123		50	ug/g	17-MAY-21	*400	0000	0000	
F4 (C34-C50)	290		50	ug/g	12-MAY-21	*120	3300	2800	
F4G-SG (GHH-Silica)	960		250	ug/g	13-MAY-21	*120	3300	2800	
Total Hydrocarbons (C6-C50) Chrom. to baseline at nC50	414 NO		72	ug/g No Unit	17-MAY-21 12-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	NO 101.7		60-140	%	12-MAY-21				
Surrogate: 2-bromoberizotimuoride Surrogate: 3,4-Dichlorotoluene	101.7		60-140	% %	17-MAY-21				
Polycyclic Aromatic Hydrocarbons	101.3		00-140	/0	11-1VI/\1-21				
	-0.050		0.050	110/0	13 MAV 24	0.070	1.5	0.003	
Acenaphthylone	<0.050		0.050	ug/g	13-MAY-21	0.072	15	0.093	
Acenaphthylene	<0.050		0.050	ug/g	13-MAY-21	0.093	0.093	14	
Anthracene	<0.050		0.050	ug/g	13-MAY-21	0.16	0.16	0.16	

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

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



L2585298 CONTD.... Page 3 of 15

46995-100							1	Page 3 8-MAY-21 0	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2585298-2 BH106-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 06-MAY-21 @ 08:50									
Matrix: SOIL						#1	#2	#3	
Polycyclic Aromatic Hydrocarbons									
Benzo(a)anthracene	0.134		0.050	ug/g	13-MAY-21	0.36	1	0.5	
Benzo(a)pyrene	0.133		0.050	ug/g	13-MAY-21	0.3	0.7	0.57	
Benzo(b&j)fluoranthene	0.170		0.050	ug/g	13-MAY-21	0.47	7	5.7	
Benzo(g,h,i)perylene	0.102		0.050	ug/g	13-MAY-21	0.68	13	6.6	
Benzo(k)fluoranthene	0.054		0.050	ug/g	13-MAY-21	0.48	7	5.7	
Chrysene	0.130		0.050	ug/g	13-MAY-21	2.8	14	7	
Dibenz(a,h)anthracene	< 0.050		0.050	ug/g	13-MAY-21	0.1	0.7	0.57	
Fluoranthene	0.222		0.050	ug/g	13-MAY-21	0.56	70	0.69	
Fluorene	< 0.050		0.050	ug/g	13-MAY-21	0.12	6.8	6.8	
Indeno(1,2,3-cd)pyrene	0.091		0.050	ug/g	13-MAY-21	0.23	0.76	0.38	
1+2-Methylnaphthalenes	< 0.042		0.042	ug/g	13-MAY-21	0.59	8.7	0.92	
1-Methylnaphthalene	< 0.030		0.030	ug/g	13-MAY-21	0.59	8.7	0.92	
2-Methylnaphthalene	< 0.030		0.030	ug/g	13-MAY-21	0.59	8.7	0.92	
Naphthalene	< 0.013		0.013	ug/g	13-MAY-21	0.09	1.8	0.59	
Phenanthrene	0.144		0.046	ug/g	13-MAY-21	0.69	12	6.2	
Pyrene	0.226		0.050	ug/g	13-MAY-21	1	70	70	
Surrogate: 2-Fluorobiphenyl	88.3		50-140	%	13-MAY-21				
Surrogate: d14-Terphenyl	88.0		50-140	%	13-MAY-21				
L2585298-8 BH105-21 SS4 7.5-9.5 FT									
Sampled By: MATT D on 06-MAY-21 @ 10:30									
Matrix: SOIL						#1	#2	#3	
Physical Tests									
Conductivity	1.95		0.0040	mS/cm	17-MAY-21	*0.57	*1.4	*0.7	
% Moisture	2.84		0.25	%	12-MAY-21				
Saturated Paste Extractables									
SAR	58.0	SAR:M	0.10	SAR	17-MAY-21	*2.4	*12	*5	
Calcium (Ca)	3.05		0.50	mg/L	17-MAY-21				
Magnesium (Mg)	< 0.50		0.50	mg/L	17-MAY-21				
Sodium (Na)	368		0.50	mg/L	17-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	17-MAY-21	1.3	40	7.5	
Arsenic (As)	2.5		1.0	ug/g	17-MAY-21	18	18	18	
Barium (Ba)	20.2		1.0	ug/g	17-MAY-21	220	670	390	
Beryllium (Be)	< 0.50		0.50	ug/g	17-MAY-21	2.5	8	4	
Boron (B)	5.8		5.0	ug/g	17-MAY-21	36	120	120	
Cadmium (Cd)	< 0.50		0.50	ug/g	17-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	12.6		1.0	ug/g	17-MAY-21	70	160	160	
Cobalt (Co)	2.9		1.0	ug/g	17-MAY-21	21	80	22	
Copper (Cu)	14.8		1.0	ug/g	17-MAY-21	92	230	140	
Lead (Pb)	10.8		1.0	ug/g	17-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	17-MAY-21	2	40	6.9	
Nickel (Ni)	6.3		1.0	ug/g	17-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	17-MAY-21	1.5	5.5	2.4	
Silver (Ag)	<0.20		0.20	ug/g	17-MAY-21	0.5	40	20	
Thallium (TI)	<0.50		0.50	ug/g	17-MAY-21				

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

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



L2585298 CONTD....

Page 4 of 15 18-MAY-21 07-54 (MT)

46995-100		ICAL	סוט	LLIIVL	. INLFOR	. •	1	Page 4 8-MAY-21 0	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed			ne Limits	
L2585298-8 BH105-21 SS4 7.5-9.5 FT									
Sampled By: MATT D on 06-MAY-21 @ 10:30									
Matrix: SOIL						#1	#2	#3	
Metals									
Metal3						1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g	17-MAY-21	2.5	3.3	23	
Vanadium (V)	17.5		1.0	ug/g ug/g	17-MAY-21	86	86	86	
Zinc (Zn)	76.5		5.0	ug/g	17-MAY-21	290	340	340	
Volatile Organic Compounds	7 0.0		0.0	49/9	., ., ., ., .	200	040	040	
Acetone	<0.50		0.50	ug/g	14-MAY-21	0.5	1.8	1.8	
Benzene	<0.0068		0.0068	ug/g	14-MAY-21	0.02	0.034	0.02	
Bromodichloromethane	<0.050		0.050	ug/g	14-MAY-21	0.05	5.8	5.8	
Bromoform	<0.050		0.050	ug/g	14-MAY-21	0.05	2.5	2.5	
Bromomethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
Carbon tetrachloride	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
Chlorobenzene	<0.050		0.050	ug/g	14-MAY-21	0.05	0.28	0.28	
Dibromochloromethane	<0.050		0.050	ug/g	14-MAY-21	0.05	5.5	5.5	
Chloroform	<0.050		0.050	ug/g	14-MAY-21	0.05	0.26	0.08	
1,2-Dibromoethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
1,2-Dichlorobenzene	<0.050		0.050	ug/g	14-MAY-21	0.05	6.8	3.4	
1,3-Dichlorobenzene	<0.050		0.050	ug/g	14-MAY-21	0.05	6.8	4.8	
1,4-Dichlorobenzene	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
Dichlorodifluoromethane	<0.050		0.050	ug/g	14-MAY-21	0.05	1.8	1.8	
1,1-Dichloroethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.57	0.14	
1,2-Dichloroethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
1,1-Dichloroethylene	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
cis-1,2-Dichloroethylene	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
trans-1,2-Dichloroethylene	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
Methylene Chloride	<0.050		0.050	ug/g	14-MAY-21	0.05	0.2	0.06	
1,2-Dichloropropane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
cis-1,3-Dichloropropene	<0.030		0.030	ug/g	14-MAY-21				
trans-1,3-Dichloropropene	<0.030		0.030	ug/g	14-MAY-21				
1,3-Dichloropropene (cis & trans)	<0.042		0.042	ug/g	14-MAY-21	0.05	0.05	0.05	
Ethylbenzene	<0.018		0.018	ug/g	14-MAY-21	0.05	1.9	1.9	
n-Hexane Methyl Ethyl Ketone	<0.050		0.050	ug/g	14-MAY-21 14-MAY-21	0.05	2.5	2.5	
Methyl Ethyl Ketone Methyl Isobutyl Ketone	<0.50 <0.50		0.50 0.50	ug/g ug/g	14-MAY-21	0.5 0.5	26 17	0.89	
MTBE	<0.050		0.050	ug/g ug/g	14-MAY-21	0.5	0.05	0.89	
Styrene	<0.050		0.050	ug/g ug/g	14-MAY-21	0.05	6.8	0.05	
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g ug/g	14-MAY-21	0.05	0.05	0.05	
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g ug/g	14-MAY-21	0.05	0.05	0.05	
Tetrachloroethylene	<0.050		0.050	ug/g ug/g	14-MAY-21	0.05	0.05	0.05	
Toluene	<0.080		0.080	ug/g	14-MAY-21	0.2	7.8	0.99	
1,1,1-Trichloroethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.4	0.11	
1,1,2-Trichloroethane	<0.050		0.050	ug/g	14-MAY-21	0.05	0.05	0.05	
Trichloroethylene	<0.010		0.010	ug/g	14-MAY-21	0.05	0.05	0.05	
Trichlorofluoromethane	<0.050		0.050	ug/g	14-MAY-21	0.25	0.46	0.46	
Vinyl chloride	<0.020		0.020	ug/g	14-MAY-21	0.02	0.02	0.02	
o-Xylene	<0.020		0.020	ug/g	14-MAY-21				
m+p-Xylenes	<0.030		0.030	ug/g	14-MAY-21				

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

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



L2585298 CONTD....

Page 5 of 15 18-MAY-21 07-54 (MT)

6995-100	AIVALII	IOAL	GUID		IXLI OI	. I	1	Page 5 8-MAY-21 0	of 15 7:54 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2585298-8 BH105-21 SS4 7.5-9.5 FT									
Sampled By: MATT D on 06-MAY-21 @ 10:30									
Matrix: SOIL						#1	#2	#3	I
Volatile Organic Compounds									
Xylenes (Total)	<0.050		0.050	ug/g	14-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	100.2		50-140	%	14-MAY-21				
Surrogate: 1,4-Difluorobenzene	110.8		50-140	%	14-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	14-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	12-MAY-21	10	26	10	
F3 (C16-C34)	89		50	ug/g	12-MAY-21	240	1700	300	
F4 (C34-C50)	79		50	ug/g	12-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	168		72	ug/g	14-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	12-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	85.4		60-140	%	12-MAY-21				
Surrogate: 3,4-Dichlorotoluene	86.6		60-140	%	14-MAY-21				
L2585298-10 BH104-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 06-MAY-21 @ 11:10	,								
Matrix: SOIL						#1	#2	#3	
Physical Tests									
% Moisture	13.0		0.25	%	12-MAY-21				
Volatile Organic Compounds									
Benzene	<0.0068		0.0068	ug/g	17-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.018	ug/g	17-MAY-21	0.05	1.9	1.9	
Toluene	<0.080		0.080	ug/g	17-MAY-21	0.2	7.8	0.99	
o-Xylene	<0.020		0.020	ug/g	17-MAY-21				
m+p-Xylenes	<0.030		0.030	ug/g	17-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	17-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	120.5		50-140	%	17-MAY-21				
Surrogate: 1,4-Difluorobenzene	119.4		50-140	%	17-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	17-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	17-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	12-MAY-21	10	26	10	
F2-Naphth	<10		10	ug/g	17-MAY-21				
F3 (C16-C34)	444		50	ug/g	12-MAY-21	*240	1700	*300	
F3-PAH	441		50	ug/g	17-MAY-21				
F4 (C34-C50)	249		50	ug/g	12-MAY-21	*120	3300	2800	
F4G-SG (GHH-Silica)	410		250	ug/g	13-MAY-21	*120	3300	2800	
Total Hydrocarbons (C6-C50)	694		72	ug/g	17-MAY-21				
Chrom. to baseline at nC50	NO			No Unit	12-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	95.8		60-140	%	12-MAY-21				
Surrogate: 3,4-Dichlorotoluene	108.3		60-140	%	17-MAY-21				
Polycyclic Aromatic Hydrocarbons	0.555		0.5=5	,	40.14337.03		, -		
Acenaphthene	<0.050		0.050	ug/g	13-MAY-21	0.072	15	0.093	
Acenaphthylene	<0.050		0.050	ug/g	13-MAY-21	0.093	0.093	14	
Anthracene	<0.050		0.050	ug/g	13-MAY-21	0.16	0.16	0.16	
Benzo(a)anthracene	0.412		0.050	ug/g	13-MAY-21	*0.36	1	0.5	

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

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



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L2585298 CONTD....

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Sample Details								8-MAY-21 07	
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
.2585298-10 BH104-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 06-MAY-21 @ 11:10						".4	"0	"0	
Matrix: SOIL						#1	#2	#3	
Polycyclic Aromatic Hydrocarbons									
Benzo(a)pyrene	0.926		0.050	ug/g	13-MAY-21	*0.3	*0.7	*0.57	
Benzo(b&j)fluoranthene	0.361		0.050	ug/g	13-MAY-21	0.47	7	5.7	
Benzo(g,h,i)perylene	0.861		0.050	ug/g	13-MAY-21	*0.68	13	6.6	
Benzo(k)fluoranthene	0.069		0.050	ug/g	13-MAY-21	0.48	7	5.7	
Chrysene	0.570		0.050	ug/g	13-MAY-21	2.8	14	7	
Dibenz(a,h)anthracene	0.494		0.050	ug/g	13-MAY-21	*0.1	0.7	0.57	
Fluoranthene	<0.050		0.050	ug/g	13-MAY-21	0.56	70	0.69	
Fluorene	< 0.050		0.050	ug/g	13-MAY-21	0.12	6.8	6.8	
Indeno(1,2,3-cd)pyrene	0.365		0.050	ug/g	13-MAY-21	*0.23	0.76	0.38	
1+2-Methylnaphthalenes	< 0.042		0.030	ug/g ug/g	13-MAY-21	0.59	8.7	0.38	
1-Methylnaphthalene	< 0.042		0.042	ug/g ug/g	13-MAY-21	0.59	8.7	0.92	
2-Methylnaphthalene	<0.030		0.030	ug/g ug/g	13-MAY-21	0.59	8.7	0.92	
Naphthalene	<0.030		0.030		13-MAY-21	0.59	6. <i>1</i> 1.8	0.92	
Phenanthrene	<0.013		0.013	ug/g	13-MAY-21	0.09	1.8	6.2	
Pyrene	0.259		0.046	ug/g	13-MAY-21		70	70	
•	90.5		50-140	ug/g	13-MAY-21	1	70	/0	
Surrogate: 2-Fluorobiphenyl Surrogate: d14-Terphenyl	90.5 94.7		50-140	% %	13-MAY-21				
Physical Tests % Moisture Volatile Organic Compounds	3.17		0.25	%	12-MAY-21				
	0.0000		0.0000		47.144.7/ 04	0.00	0.004	0.00	
Benzene	<0.0068		0.0068	ug/g	17-MAY-21	0.02	0.034	0.02	
Ethylbenzene Toluene	<0.018		0.018	ug/g	17-MAY-21	0.05	1.9	1.9	
	<0.080 <0.020		0.080 0.020	ug/g	17-MAY-21 17-MAY-21	0.2	7.8	0.99	
o-Xylene m+p-Xylenes	<0.020		0.020	ug/g	17-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	17-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	112.4		50-140	ug/g %	17-MAY-21	0.05	3	0.9	
Surrogate: 1,4-Difluorobenzene	119.0		50-140	% %	17-MAY-21				
Hydrocarbons	110.0		00 170	/0	17 W/31-21				
F1 (C6-C10)	<5.0		5.0	ug/g	17-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	17-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	12-MAY-21	10	26	10	
F2-Naphth	<10		10	ug/g	17-MAY-21	. •	_~		
F3 (C16-C34)	442		50	ug/g	12-MAY-21	*240	1700	*300	
F3-PAH	441		50	ug/g	17-MAY-21				
F4 (C34-C50)	181		50	ug/g	12-MAY-21	*120	3300	2800	
F4G-SG (GHH-Silica)	940		250	ug/g	13-MAY-21	*120	3300	2800	
Total Hydrocarbons (C6-C50)	623		72	ug/g	17-MAY-21				
, , ,	NO			No Unit	12-MAY-21				
Chrom. to baseline at nC50		1							
Surrogate: 2-Bromobenzotrifluoride	79.2		60-140	%	12-MAY-21				
			60-140 60-140	% %	12-MAY-21 17-MAY-21				

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

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



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18-MAY-21 07:54 (MT)

46995-100							1	8-MAY-21 0	7:54 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2585298-14 BH103-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 06-MAY-21 @ 12:30									
Matrix: SOIL						#1	#2	#3	
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	< 0.050		0.050	ug/g	13-MAY-21	0.072	15	0.093	
Acenaphthylene	< 0.050		0.050	ug/g	13-MAY-21	0.093	0.093	14	
Anthracene	< 0.050		0.050	ug/g	13-MAY-21	0.16	0.16	0.16	
Benzo(a)anthracene	0.227		0.050	ug/g	13-MAY-21	0.36	1	0.5	
Benzo(a)pyrene	0.362		0.050	ug/g	13-MAY-21	*0.3	0.7	0.57	
Benzo(b&j)fluoranthene	0.159		0.050	ug/g	13-MAY-21	0.47	7	5.7	
Benzo(g,h,i)perylene	0.255		0.050	ug/g	13-MAY-21	0.68	13	6.6	
Benzo(k)fluoranthene	< 0.050		0.050	ug/g	13-MAY-21	0.48	7	5.7	
Chrysene	0.268		0.050	ug/g	13-MAY-21	2.8	14	7	
Dibenz(a,h)anthracene	0.171		0.050	ug/g	13-MAY-21	*0.1	0.7	0.57	
Fluoranthene	<0.050		0.050	ug/g	13-MAY-21	0.56	70	0.69	
Fluorene	< 0.050		0.050	ug/g	13-MAY-21	0.12	6.8	6.8	
Indeno(1,2,3-cd)pyrene	0.124		0.050	ug/g	13-MAY-21	0.23	0.76	0.38	
1+2-Methylnaphthalenes	<0.042		0.042	ug/g	13-MAY-21	0.59	8.7	0.92	
1-Methylnaphthalene	< 0.030		0.030	ug/g	13-MAY-21	0.59	8.7	0.92	
2-Methylnaphthalene	< 0.030		0.030	ug/g	13-MAY-21	0.59	8.7	0.92	
Naphthalene	< 0.013		0.013	ug/g	13-MAY-21	0.09	1.8	0.59	
Phenanthrene	<0.046		0.046	ug/g	13-MAY-21	0.69	12	6.2	
Pyrene	0.134		0.050	ug/g	13-MAY-21	1	70	70	
Surrogate: 2-Fluorobiphenyl	79.1		50-140	%	13-MAY-21	•	10	'	
Surrogate: d14-Terphenyl	79.1		50-140	%	13-MAY-21				
Polychlorinated Biphenyls									
Aroclor 1242	< 0.010		0.010	ug/g	13-MAY-21				
Aroclor 1248	<0.010		0.010	ug/g	13-MAY-21				
Aroclor 1254	<0.010		0.010	ug/g	13-MAY-21				
Aroclor 1260	< 0.010		0.010	ug/g	13-MAY-21				
Total PCBs	< 0.020		0.020	ug/g	13-MAY-21	0.3	0.78	0.35	
Surrogate: d14-Terphenyl	85.9		60-140	%	13-MAY-21				
L2585298-15 BH103-21 SS3 5-7 FT									
Sampled By: MATT D on 06-MAY-21 @ 12:40									
Matrix: SOIL						#1	#2	#3	
Physical Tests									
Conductivity	1.32		0.0040	mS/cm	17-MAY-21	*0.57	1.4	*0.7	
% Moisture	4.10		0.25	%	12-MAY-21	0.01		3.7	
Saturated Paste Extractables	0		3.20	"					
SAR	20.9		0.10	SAR	17-MAY-21	*2.4	*12	*5	
Calcium (Ca)	6.83		0.50	mg/L	17-MAY-21	2.7	14		
Magnesium (Mg)	2.13		0.50	mg/L	17-MAY-21				
Sodium (Na)	244		0.50	mg/L	17-MAY-21				
Volatile Organic Compounds	•		- -	3-					
Benzene	<0.0068		0.0068	ug/g	17-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.018	ug/g	17-MAY-21	0.02	1.9	1.9	
Toluene	<0.080		0.080	ug/g	17-MAY-21	0.2	7.8	0.99	
o-Xylene	<0.020		0.020	ug/g	17-MAY-21			0.00	
m+p-Xylenes	< 0.030		0.030	ug/g	17-MAY-21				
		1		_ 55	1			l	

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

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



ANALYTICAL GUIDELINE REPORT

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46995-100 Sample Details							1	8-MAY-21 0	7:54 (MT)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2585298-15 BH103-21 SS3 5-7 FT									
Sampled By: MATT D on 06-MAY-21 @ 12:40									
Matrix: SOIL						#1	#2	#3	
Volatile Organic Compounds									
_	0.050		0.050		47 MAY 04	0.05	0	0.0	
Xylenes (Total)	<0.050		0.050	ug/g	17-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	114.5 113.9		50-140	%	17-MAY-21				
Surrogate: 1,4-Difluorobenzene Hydrocarbons	113.9		50-140	%	17-MAY-21				
-			5 0		47 MAY 04	05	0.5	0.5	
F1 (C6-C10)	<5.0		5.0	ug/g	17-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	17-MAY-21	25	25	25	
F2 (C10-C16)	<10		10	ug/g	12-MAY-21	10	26	10	
F2-Naphth	<10		10	ug/g	17-MAY-21		.=		
F3 (C16-C34)	100		50	ug/g	12-MAY-21	240	1700	300	
F3-PAH	99		50	ug/g	17-MAY-21	400	0000	0000	
F4 (C34-C50)	<50		50	ug/g	12-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	100		72	ug/g	17-MAY-21				
Chrom. to baseline at nC50	YES		00.440	No Unit	12-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	78.5		60-140	%	12-MAY-21				
Surrogate: 3,4-Dichlorotoluene Polycyclic Aromatic Hydrocarbons	105.3		60-140	%	17-MAY-21				
-	0.050		0.050		40.8463/.04	0.070	4-	0.000	
Acenaphthene	<0.050		0.050	ug/g	13-MAY-21	0.072	15	0.093	
Acenaphthylene	<0.050		0.050	ug/g	13-MAY-21	0.093	0.093	14	
Anthracene	<0.050		0.050	ug/g	13-MAY-21	0.16	0.16	0.16	
Benzo(a)anthracene	0.346		0.050	ug/g	13-MAY-21	0.36	1	0.5	
Benzo(a)pyrene	0.501		0.050	ug/g	13-MAY-21	*0.3	0.7	0.57	
Benzo(b&j)fluoranthene	0.221		0.050	ug/g	13-MAY-21	0.47	7	5.7	
Benzo(g,h,i)perylene	0.375		0.050	ug/g	13-MAY-21	0.68	13	6.6	
Benzo(k)fluoranthene	<0.050		0.050	ug/g	13-MAY-21	0.48	7	5.7	
Chrysene	0.418		0.050	ug/g	13-MAY-21	2.8	14	7	
Dibenz(a,h)anthracene	0.237		0.050	ug/g	13-MAY-21	*0.1	0.7	0.57	
Fluoranthene	< 0.050		0.050	ug/g	13-MAY-21	0.56	70	0.69	
Fluorene	< 0.050		0.050	ug/g	13-MAY-21	0.12	6.8	6.8	
Indeno(1,2,3-cd)pyrene	0.164		0.050	ug/g	13-MAY-21	0.23	0.76	0.38	
1+2-Methylnaphthalenes	< 0.042		0.042	ug/g	13-MAY-21	0.59	8.7	0.92	
1-Methylnaphthalene	< 0.030		0.030	ug/g	13-MAY-21	0.59	8.7	0.92	
2-Methylnaphthalene	< 0.030		0.030	ug/g	13-MAY-21	0.59	8.7	0.92	
Naphthalene	<0.013		0.013	ug/g	13-MAY-21	0.09	1.8	0.59	
Phenanthrene	<0.046		0.046	ug/g	13-MAY-21	0.69	12	6.2	
Pyrene	0.205		0.050	ug/g	13-MAY-21	1	70	70	
Surrogate: 2-Fluorobiphenyl	86.3		50-140	%	13-MAY-21				
Surrogate: d14-Terphenyl	87.5		50-140	%	13-MAY-21				
L2585298-19 BH102-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 06-MAY-21 @ 13:55									
Matrix: SOIL						#1	#2	#3	
Physical Tests									
-	6.00		0.05	0/	12 MAY 24				
% Moisture	6.90		0.25	%	12-MAY-21				
Metals	4.6			, ,	47.1437.57				
Antimony (Sb)	<1.0		1.0	ug/g	17-MAY-21	1.3	40	7.5	
Arsenic (As)	8.3		1.0	ug/g	17-MAY-21	18	18	18	

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

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



L2585298 CONTD....

Page 9 of 15 18-MAY-21 07-54 (MT)

46995-100	MALII	ICAL	GOID	LLINL	KLFOR	\ I	1	Page 9 of 8-MAY-21 07:54	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed			ne Limits	
L2585298-19 BH102-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 06-MAY-21 @ 13:55									
Matrix: SOIL						#1	#2	#3	
Metals									
Barium (Ba)	9.3		1.0	ug/g	17-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g	17-MAY-21	2.5	8	4	
Boron (B)	<5.0		5.0	ug/g	17-MAY-21	36	120	120	
Boron (B), Hot Water Ext.	0.18		0.10	ug/g	17-MAY-21	36	2	1.5	
Cadmium (Cd)	< 0.50		0.50	ug/g	17-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	6.8		1.0	ug/g	17-MAY-21	70	160	160	
Cobalt (Co)	1.9		1.0	ug/g	17-MAY-21	21	80	22	
Copper (Cu)	8.7		1.0	ug/g	17-MAY-21	92	230	140	
Lead (Pb)	4.4		1.0	ug/g	17-MAY-21	120	120	120	
Mercury (Hg)	< 0.0050		0.0050	ug/g	17-MAY-21	0.27	0.27	0.27	
Molybdenum (Mo)	<1.0		1.0	ug/g	17-MAY-21	2	40	6.9	
Nickel (Ni)	4.1		1.0	ug/g	17-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g	17-MAY-21	1.5	5.5	2.4	
Silver (Ag)	< 0.20		0.20	ug/g	17-MAY-21	0.5	40	20	
Thallium (TI)	< 0.50		0.50	ug/g	17-MAY-21	1	3.3	1	
Uranium (U)	<1.0		1.0	ug/g	17-MAY-21	2.5	33	23	
Vanadium (V)	16.0		1.0	ug/g	17-MAY-21	86	86	86	
Zinc (Zn)	35.9		5.0	ug/g	17-MAY-21	290	340	340	
Speciated Metals									
Chromium, Hexavalent	<0.20		0.20	ug/g	13-MAY-21	0.66	8	8	
Volatile Organic Compounds							_		
Benzene	<0.0068		0.0068	ug/g	17-MAY-21	0.02	0.034	0.02	
Ethylbenzene	<0.018		0.018	ug/g	17-MAY-21	0.05	1.9	1.9	
Toluene	<0.080		0.080	ug/g	17-MAY-21	0.2	7.8	0.99	
o-Xylene	< 0.020		0.020	ug/g	17-MAY-21				
m+p-Xylenes	< 0.030		0.030	ug/g	17-MAY-21				
Xylenes (Total)	< 0.050		0.050	ug/g	17-MAY-21	0.05	3	0.9	
Surrogate: 4-Bromofluorobenzene	111.2		50-140	%	17-MAY-21				
Surrogate: 1,4-Difluorobenzene	116.4		50-140	%	17-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	17-MAY-21	25	25	25	
F1-BTEX	<5.0		5.0	ug/g	17-MAY-21	25	25	25	
F2 (C10-C16)	<50	DLM	50	ug/g	12-MAY-21	**10	**26	**10	
F2-Naphth	<50		50	ug/g	17-MAY-21				
F3 (C16-C34)	4720	DLM	250	ug/g	12-MAY-21	*240	*1700	*300	
F3-PAH	4720		250	ug/g	17-MAY-21				
F4 (C34-C50)	1900	DLM	250	ug/g	12-MAY-21	*120	3300	2800	
F4G-SG (GHH-Silica)	5880		250	ug/g	13-MAY-21	*120	*3300	*2800	
Total Hydrocarbons (C6-C50)	6620		360	ug/g	17-MAY-21				
Chrom. to baseline at nC50	NO			No Unit	12-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	71.8		60-140	%	12-MAY-21				
Surrogate: 3,4-Dichlorotoluene	77.5		60-140	%	17-MAY-21				
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	< 0.050		0.050	ug/g	13-MAY-21	0.072	15	0.093	
Acenaphthylene	< 0.050		0.050	ug/g	13-MAY-21	0.093	0.093	14	
Anthracene	< 0.050		0.050	ug/g	13-MAY-21	0.16	0.16	0.16	

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

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



ANALYTICAL GUIDELINE REPORT

L2585298 CONTD.... Page 10 of 15 18-MAY-21 07:54 (MT)

46995-100 Sample Details							1	8-MAY-21 0	7:54 (MT)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2585298-19 BH102-21 SS2 2.5-4.5 FT									
Sampled By: MATT D on 06-MAY-21 @ 13:55									
Matrix: SOIL						#1	#2	#3	
Polycyclic Aromatic Hydrocarbons									
Benzo(a)anthracene	< 0.050		0.050	ug/g	13-MAY-21	0.36	1	0.5	
Benzo(a)pyrene	< 0.050		0.050	ug/g	13-MAY-21	0.3	0.7	0.57	
Benzo(b&j)fluoranthene	< 0.050		0.050	ug/g	13-MAY-21	0.47	7	5.7	
Benzo(g,h,i)perylene	< 0.050		0.050	ug/g	13-MAY-21	0.68	13	6.6	
Benzo(k)fluoranthene	< 0.050		0.050	ug/g	13-MAY-21	0.48	7	5.7	
Chrysene	< 0.050		0.050	ug/g	13-MAY-21	2.8	14	7	
Dibenz(a,h)anthracene	< 0.050		0.050	ug/g	13-MAY-21	0.1	0.7	0.57	
Fluoranthene	< 0.050		0.050	ug/g	13-MAY-21	0.56	70	0.69	
Fluorene	< 0.050		0.050	ug/g	13-MAY-21	0.12	6.8	6.8	
Indeno(1,2,3-cd)pyrene	< 0.050		0.050	ug/g	13-MAY-21	0.23	0.76	0.38	
1+2-Methylnaphthalenes	< 0.042		0.042	ug/g	13-MAY-21	0.59	8.7	0.92	
1-Methylnaphthalene	< 0.030		0.030	ug/g	13-MAY-21	0.59	8.7	0.92	
2-Methylnaphthalene	< 0.030		0.030	ug/g	13-MAY-21	0.59	8.7	0.92	
Naphthalene	<0.013		0.013	ug/g	13-MAY-21	0.09	1.8	0.59	
Phenanthrene	< 0.046		0.046	ug/g	13-MAY-21	0.69	12	6.2	
Pyrene	< 0.050		0.050	ug/g	13-MAY-21	1	70	70	
Surrogate: 2-Fluorobiphenyl	84.3		50-140	%	13-MAY-21				
Surrogate: d14-Terphenyl	82.9		50-140	%	13-MAY-21				
L2585298-24 BH101-21 SS3 5-7 FT									
Sampled By: MATT D on 06-MAY-21 @ 15:20									
Matrix: SOIL						#1	#2	#3	
Physical Tests					.=				
Conductivity	0.739		0.0040	mS/cm	17-MAY-21	*0.57	1.4	*0.7	
% Moisture	2.75		0.25	%	12-MAY-21				
рН Saturated Paste Extractables	8.06		0.10	pH units	12-MAY-21				
SAR	3.02		0.10	SAR	17-MAY-21	*2.4	10	_	
Calcium (Ca)	3.02 35.5		0.10		17-MAY-21	2.4	12	5	
Magnesium (Mg)	35.5 12.1		0.50	mg/L mg/L	17-MAY-21				
Sodium (Na)	81.7		0.50	mg/L	17-MAY-21				
Metals	51.7		5.55	g, L	17 1811 1-21				
Antimony (Sb)	<1.0		1.0	ug/g	17-MAY-21	1.3	40	7.5	
Arsenic (As)	3.1		1.0	ug/g ug/g	17-MAY-21	1.3	18	18	
Barium (Ba)	19.3		1.0	ug/g ug/g	17-MAY-21	220	670	390	
Beryllium (Be)	<0.50		0.50	ug/g ug/g	17-MAY-21	2.5	8	4	
Boron (B)	6.9		5.0	ug/g ug/g	17-MAY-21	36	120	120	
Cadmium (Cd)	<0.50		0.50	ug/g ug/g	17-MAY-21	1.2	1.9	1.2	
Chromium (Cr)	7.3		1.0	ug/g ug/g	17-MAY-21	70	160	160	
Cobalt (Co)	3.3		1.0	ug/g ug/g	17-MAY-21	21	80	22	
Copper (Cu)	19.5		1.0	ug/g ug/g	17-MAY-21	92	230	140	
Lead (Pb)	8.1		1.0	ug/g ug/g	17-MAY-21	120	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g ug/g	17-MAY-21	2	40	6.9	
Nickel (Ni)	6.6		1.0	ug/g ug/g	17-MAY-21	82	270	100	
Selenium (Se)	<1.0		1.0	ug/g ug/g	17-MAY-21	1.5	5.5	2.4	
Silver (Ag)	<0.20		0.20	ug/g ug/g	17-MAY-21	0.5	40	2.4	
Jiivoi (Ag)	~∪.∠∪		0.20	ug/g	17 1817 1-21	0.5	40		

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

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



L2585298 CONTD....

Page 11 of 15 18-MAY-21 07-54 (MT)

L2585298-24 BH101-21 SS3 5-7 FT Sampled By: MATT D on 06-MAY-21 @ 15:20 Matrix: SOIL MATT D on 06-MAY-21 @ 15:20 Matrix: SOIL Mat	1 of 15)7:54 (MT
Sampled By: MATT D on 06-MAY-21 @ 15:20 Matrix: SOIL	
Metais Thallium (TI) <0.50	
Metals Thallium (TI) <0.50 0.50 ug/g 17-MAY-21 1 3.3 1 Uranium (U) <1.0	
Thallium (TI)	Т
Uranium (U) <1.0 1.0 ug/g 17-MAY-21 2.5 33 23 Vanadium (V) 13.9 1.0 ug/g 17-MAY-21 86 86 86 Zinc (Zn) 88.9 5.0 ug/g 17-MAY-21 290 340 340 Polycyclic Aromatic Hydrocarbons 88.9 5.0 ug/g 13-MAY-21 0.072 15 0.093 Acenaphthene <0.050	
Uranium (U) <1.0 1.0 ug/g 17-MAY-21 2.5 33 23 Vanadium (V) 13.9 1.0 ug/g 17-MAY-21 86 86 86 Zinc (Zn) 88.9 5.0 ug/g 17-MAY-21 290 340 340 Polycyclic Aromatic Hydrocarbons Acenaphthene <0.050	
Vanadium (V) 13.9 1.0 ug/g 17-MAY-21 86 86 86 Zinc (Zn) 88.9 5.0 ug/g 17-MAY-21 290 340 340 Polycyclic Aromatic Hydrocarbons Acenaphthene <0.050	
Polycyclic Aromatic Hydrocarbons	
Polycyclic Aromatic Hydrocarbons	
Acenaphthylene <0.050 0.050 ug/g 13-MAY-21 0.093 0.093 14 Anthracene <0.050	
Acenaphthylene <0.050 0.050 ug/g 13-MAY-21 0.093 0.093 14 Anthracene <0.050	
Anthracene <0.050 0.050 ug/g 13-MAY-21 0.16 0.16 0.16 Benzo(a)anthracene <0.050	
Benzo(a)anthracene <0.050	
Benzo(a)pyrene <0.050	
Benzo(b&j)fluoranthene <0.050 0.050 ug/g 13-MAY-21 0.47 7 5.7 Benzo(g,h,i)perylene <0.050	
Benzo(g,h,i)perylene <0.050	
Benzo(k)fluoranthene <0.050 0.050 ug/g 13-MAY-21 0.48 7 5.7 Chrysene <0.050	
Chrysene <0.050 ug/g 13-MAY-21 2.8 14 7 Dibenz(a,h)anthracene <0.050	
Dibenz(a,h)anthracene <0.050 ug/g 13-MAY-21 0.1 0.7 0.57 Fluoranthene <0.050	
Fluoranthene <0.050 ug/g 13-MAY-21 0.56 70 0.69 Fluorene <0.050	
Fluorene <0.050 ug/g 13-MAY-21 0.12 6.8 6.8 Indeno(1,2,3-cd)pyrene <0.050	
Indeno(1,2,3-cd)pyrene <0.050	
1+2-Methylnaphthalenes <0.042	
1-Methylnaphthalene <0.030	
2-Methylnaphthalene <0.030	
Naphthalene <0.013 0.013 ug/g 13-MAY-21 0.09 1.8 0.59 Phenanthrene <0.046	
Phenanthrene <0.046 0.046 ug/g 13-MAY-21 0.69 12 6.2 Pyrene <0.050	
Pyrene < 0.050 0.050 ug/g 13-MAY-21 1 70 70	
Surrogate: d14-Terphenyl 85.8 50-140 % 13-MAY-21	
L2585298-25 BH101-21 SS4 7.5-9.5 FT	
Sampled By: MATT D on 06-MAY-21 @ 15:30 #1 #2 #3	
Matrix: SOIL #1 #2 #3	
Physical Tests	
% Moisture 1.89 0.25 % 12-MAY-21 Volatile Organic Compounds	
Benzene <0.0068 0.0068 ug/g 17-MAY-21 0.02 0.034 0.02	
Ethylbenzene <0.018 ug/g 17-MAY-21 0.05 1.9 1.9	
Toluene <0.080 0.080 ug/g 17-MAY-21 0.2 7.8 0.99	
o-Xylene <0.020 0.020 ug/g 17-MAY-21 0.2 7.8 0.59	
m+p-Xylenes <0.030 0.030 ug/g 17-MAY-21	
Xylenes (Total)	
Surrogate: 4-Bromofluorobenzene 117.4 50-140 % 17-MAY-21	
Surrogate: 1,4-Difluorobenzene 111.4 50-140 % 17-MAY-21	
Hydrocarbons	
F1 (C6-C10) <5.0 5.0 ug/g 17-MAY-21 25 25 25	
F1-BTEX <5.0 5.0 ug/g 17-MAY-21 25 25 25 25	
F2 (C10-C16)	
10 dg/g 12-14/A1-21 10 20 10	

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

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



L2585298 CONTD.... Page 12 of 15

95-100						` -	1	8-MAY-21 0	
ample Details crouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
585298-25 BH101-21 SS4 7.5-9.5 FT									
ampled By: MATT D on 06-MAY-21 @ 15:30						ш4	40	40	
atrix: SOIL						#1	#2	#3	
ydrocarbons									
F3 (C16-C34)	<50		50	ug/g	12-MAY-21	240	1700	300	
F4 (C34-C50)	<50		50	ug/g	12-MAY-21	120	3300	2800	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	17-MAY-21				
Chrom. to baseline at nC50	YES		00.440	No Unit	12-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	81.5 109.2		60-140 60-140	% %	12-MAY-21				
Surrogate: 3,4-Dichlorotoluene	109.2		60-140	70	17-MAY-21				
		1	1	1					

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

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

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
SAR:M	Reported SAR represents a maximum value. Actual SAR may be lower if both Ca and Mg were detectable.
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).

Methods Listed (if applicable):

	,		
ALS Test Code	Matrix	Test Description	Method Reference***
B-HWS-R511-WT	Soil	Boron-HWE-O.Reg 153/04 (July 2011)	HW EXTR, EPA 6010B

A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

BTX-511-HS-WT Soil BTEX-O.Reg 153/04 (July 2011) SW846 8260

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-WT Soil Hexavalent Chromium in Soil SW846 3060A/7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-WT Soil Conductivity (EC) MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

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

Parameters

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

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
- 3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
- 4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT Soil F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

F2-F4-511-WT

Soil

F2-F4-O.Reg 153/04 (July 2011) CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:

- 1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- 2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- 3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
- 4. F4G: Gravimetric Heavy Hydrocarbons
- 5. F4G-sq: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
- 6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
- 7. F4G-sq cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
- 8. This method is validated for use.
- 9. Data from analysis of validation and quality control samples is available upon request.
- 10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F4G-ADD-511-WT

F4G SG-O.Reg 153/04 (July

MOE DECPH-E3398/CCME TIER 1

2011)
F4G, gravimetric analysis, is determined if the chromatogram does not return to baseline at or before C50. A soil sample is extracted with a solvent mix, the solvent is evaporated and the weight of the residue is determined.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-200.2-CVAA-WT

Soil

Mercury in Soil by CVAAS

EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-200.2-CCMS-WT

Metals in Soil by CRC ICPMS

EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Soil

ABN-Calculated Parameters

SW846 8270

MOISTURE-WT Soil % Moisture

CCME PHC in Soil - Tier 1 (mod)

PAH-511-WT

Soil

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

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking techniqueis used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PCB-511-WT

Soil

PCB-O.Reg 153/04 (July 2011) SW846 3510/8082

An aliquot of a solid sample is extracted with a solvent, extract is cleaned up and analyzed on the GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

PH-WT

Soil

рΗ

MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

Reference Information

SAR-R511-WT Soil SAR-O.Reg 153/04 (July 2011) SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental

Protection Act (July 1, 2011).

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

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

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG

must be reported).

XYLENES-SUM-CALC- S

Soil

Sum of Xylene Isomer

CALCULATION

WT Concentrations

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

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

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

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



Workorder: L2585298 Report Date: 18-MAY-21 Page 1 of 16

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT	Soil							
	58680							
WG3535702-4 Boron (B), Hot Wa	DUP ater Ext.	L2584316-1 <0.10	<0.10	RPD-NA	ug/g	N/A	30	17-MAY-21
WG3535702-2 Boron (B), Hot Wa	IRM ater Ext.	WT SAR4	113.3		%		70-130	17-MAY-21
WG3535702-3 I Boron (B), Hot Wa	LCS ater Ext.		101.0		%		70-130	17-MAY-21
WG3535702-1 Boron (B), Hot Wa	MB ater Ext.		<0.10		ug/g		0.1	17-MAY-21
BTX-511-HS-WT	Soil							
Batch R545	58645							
WG3533176-4 I Benzene	DUP	WG3533176-3 <0.0068	<0.0068	RPD-NA	ug/g	N/A	40	17-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	17-MAY-21
m+p-Xylenes		<0.030	< 0.030	RPD-NA	ug/g	N/A	40	17-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	17-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	17-MAY-21
WG3533176-2 I Benzene	LCS		109.3		%		70-130	17-MAY-21
Ethylbenzene			105.2		%		70-130	17-MAY-21
m+p-Xylenes			105.4		%		70-130	17-MAY-21
o-Xylene			107.3		%		70-130	17-MAY-21
Toluene			108.5		%		70-130	17-MAY-21
WG3533176-1 I Benzene	МВ		<0.0068		ug/g		0.0068	47 MAV 04
Ethylbenzene			<0.018		ug/g ug/g		0.008	17-MAY-21 17-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	17-MAY-21
o-Xylene			<0.020		ug/g		0.02	17-MAY-21
Toluene			<0.080		ug/g		0.08	17-MAY-21
Surrogate: 1,4-Dif	luorobenzene		124.4		%		50-140	17-MAY-21
Surrogate: 4-Bron	nofluorobenzene		126.3		%		50-140	17-MAY-21
	MS	WG3533176-3	107.4		%		60-140	17-MAY-21
Ethylbenzene			101.3		%		60-140	17-MAY-21
m+p-Xylenes			103.0		%		60-140	17-MAY-21
o-Xylene			104.2		%		60-140	17-MAY-21
Toluene			106.6		%		60-140	17-MAY-21



Workorder: L2585298 Report Date: 18-MAY-21 Page 2 of 16

MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CR-CR6-IC-WT	Soil							
Batch R5457177 WG3532998-4 CRM Chromium, Hexavalent		WT-SQC012	95.8		%		70-130	13-MAY-21
WG3532998-3 DUP Chromium, Hexavalent		L2585927-32 0.30	0.23		ug/g	28	35	13-MAY-21
WG3532998-2 LCS Chromium, Hexavalent			94.7		%		80-120	13-MAY-21
WG3532998-1 MB Chromium, Hexavalent			<0.20		ug/g		0.2	13-MAY-21
EC-WT	Soil							
Batch R5458588								
WG3535701-4 DUP Conductivity		WG3535701-3 0.641	0.633		mS/cm	1.3	20	17-MAY-21
WG3535701-2 IRM Conductivity		WT SAR4	99.0		%		70-130	17-MAY-21
WG3535901-1 LCS Conductivity			99.4		%		90-110	17-MAY-21
WG3535701-1 MB Conductivity			<0.0040		mS/cm		0.004	17-MAY-21
F1-HS-511-WT	Soil							
Batch R5457327								
WG3533076-54 DUP F1 (C6-C10)		WG3533076-5 3 <5.0	3 <5.0	RPD-NA	ug/g	N/A	30	14-MAY-21
WG3533076-52 LCS F1 (C6-C10)			111.9		%		80-120	13-MAY-21
WG3533076-51 MB F1 (C6-C10)			<5.0		ug/g		5	13-MAY-21
Surrogate: 3,4-Dichlorote	oluene		97.3		%		60-140	13-MAY-21
WG3533076-55 MS		WG3533076-53						
F1 (C6-C10)			104.8		%		60-140	14-MAY-21
Batch R5458645		W00500470 0						
WG3533176-4 DUP F1 (C6-C10)		WG3533176-3 <5.0	<5.0	RPD-NA	ug/g	N/A	30	17-MAY-21
WG3533176-2 LCS F1 (C6-C10)			110.7		%		80-120	17-MAY-21
WG3533176-1 MB F1 (C6-C10)			<5.0		ug/g		5	17-MAY-21
Surrogate: 3,4-Dichlorote	oluene		121.1		%		60-140	17-MAY-21



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MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT		Soil							
Batch R5 WG3533176-5 F1 (C6-C10)	5458645 MS		WG3533176-3	104.6		%		60-140	17-MAY-21
F2-F4-511-WT		Soil							
	5456483								
WG3533007-8 F2 (C10-C16)	DUP		WG3533007-1 0 <10	0 <10	RPD-NA	ug/g	N/A	30	12-MAY-21
F3 (C16-C34)			<50	<50	RPD-NA	ug/g	N/A	30	12-MAY-21
F4 (C34-C50)			<50	<50	RPD-NA	ug/g	N/A	30	12-MAY-21
WG3533007-7	LCS								
F2 (C10-C16)				98.1		%		80-120	12-MAY-21
F3 (C16-C34)				98.5		%		80-120	12-MAY-21
F4 (C34-C50)				100.7		%		80-120	12-MAY-21
WG3533007-6 F2 (C10-C16)	MB			<10		ug/g		10	12-MAY-21
F3 (C16-C34)				<50		ug/g		50	12-MAY-21
F4 (C34-C50)				<50		ug/g		50	12-MAY-21
Surrogate: 2-Bi	omobenz	otrifluoride		89.5		%		60-140	12-MAY-21
WG3533007-9	MS		WG3533007-10	0					
F2 (C10-C16)				93.0		%		60-140	12-MAY-21
F3 (C16-C34)				96.7		%		60-140	12-MAY-21
F4 (C34-C50)				94.1		%		60-140	12-MAY-21
Batch R	456665								
WG3532842-3	DUP		WG3532842-5	40	555 114	/a	A1/A	00	
F2 (C16-C16)			<10	<10	RPD-NA	ug/g	N/A	30	12-MAY-21
F3 (C16-C34) F4 (C34-C50)			<50 <50	<50 <50	RPD-NA	ug/g	N/A	30	12-MAY-21
WG3532842-2	1.00		<50	<50	RPD-NA	ug/g	N/A	30	12-MAY-21
F2 (C10-C16)	LCS			94.4		%		80-120	12-MAY-21
F3 (C16-C34)				99.3		%		80-120	12-MAY-21
F4 (C34-C50)				99.2		%		80-120	12-MAY-21
WG3532842-1	MB			40				40	
F2 (C10-C16)				<10		ug/g		10	12-MAY-21
F3 (C16-C34)				<50		ug/g		50	12-MAY-21
F4 (C34-C50)		otrifluori -l -		<50		ug/g		50	12-MAY-21
Surrogate: 2-Bi	omobenz	oumuonae		91.5		%		60-140	12-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	Soil							
Batch R5456665 WG3532842-4 MS		WG3532842-5	04.4		%		00.4.5	
F2 (C16-C16)			94.4		%		60-140	12-MAY-21
F3 (C16-C34)			100.5				60-140	12-MAY-21
F4 (C34-C50)			99.6		%		60-140	12-MAY-21
F4G-ADD-511-WT	Soil							
Batch R5456765 WG3533851-2 LCS F4G-SG (GHH-Silica)			66.5		%		60-140	12-MAY-21
WG3533851-1 MB F4G-SG (GHH-Silica)			<250		ug/g		250	12-MAY-21
Batch R5457181 WG3534363-2 LCS F4G-SG (GHH-Silica)			71.0		%		60-140	13-MAY-21
WG3534363-1 MB F4G-SG (GHH-Silica)			<250		ug/g		250	13-MAY-21
HG-200.2-CVAA-WT	Soil							
Batch R5458443								
WG3535703-2 CRM Mercury (Hg)		WT-SS-2	100.4		%		70-130	17-MAY-21
WG3535703-6 DUP Mercury (Hg)		WG3535703-5 0.0147	0.0150		ug/g	2.5	40	17-MAY-21
WG3535703-3 LCS Mercury (Hg)			111.0		%		80-120	17-MAY-21
WG3535703-1 MB Mercury (Hg)			<0.0050		mg/kg		0.005	17-MAY-21
MET-200.2-CCMS-WT	Soil							
Batch R5458818 WG3535703-2 CRM		WT-SS-2						
Antimony (Sb)			110.3		%		70-130	17-MAY-21
Arsenic (As)			109.6		%		70-130	17-MAY-21
Barium (Ba)			110.3		%		70-130	17-MAY-21
Beryllium (Be)			103.8		%		70-130	17-MAY-21
Boron (B)			9.7		mg/kg		3.5-13.5	17-MAY-21
Cadmium (Cd)			116.0		%		70-130	17-MAY-21
Chromium (Cr)			112.7		%		70-130	17-MAY-21
Cobalt (Co)			107.5		%		70-130	17-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R545881	8							
WG3535703-2 CRN	I	WT-SS-2			0.4			
Copper (Cu)			105.3		%		70-130	17-MAY-21
Lead (Pb)			105.6		%		70-130	17-MAY-21
Molybdenum (Mo)			102.6		%		70-130	17-MAY-21
Nickel (Ni)			107.8		%		70-130	17-MAY-21
Selenium (Se)			0.16		mg/kg		0-0.34	17-MAY-21
Silver (Ag)			99.8		%		70-130	17-MAY-21
Thallium (TI)			0.080		mg/kg			17-MAY-21
Uranium (U)			102.5		%		70-130	17-MAY-21
Vanadium (V)			113.7		%		70-130	17-MAY-21
Zinc (Zn)			104.5		%		70-130	17-MAY-21
WG3535703-6 DUP Antimony (Sb)		WG3535703- 0.21	5 0.24		ug/g	10	30	17-MAY-21
Arsenic (As)		9.54	9.73		ug/g	2.0	30	17-MAY-21
Barium (Ba)		96.3	98.6		ug/g	2.3	40	17-MAY-21
Beryllium (Be)		0.58	0.59		ug/g	2.1	30	17-MAY-21
Boron (B)		11.0	11.5		ug/g	4.5	30	17-MAY-21
Cadmium (Cd)		0.091	0.093		ug/g	1.4	30	17-MAY-21
Chromium (Cr)		18.0	18.7		ug/g	3.6	30	17-MAY-21
Cobalt (Co)		11.9	12.2		ug/g	2.3	30	17-MAY-21
Copper (Cu)		104	107		ug/g	2.8	30	17-MAY-21
Lead (Pb)		10.0	10.5		ug/g	5.2	40	17-MAY-21
Molybdenum (Mo)		0.59	0.64		ug/g	7.2	40	17-MAY-21
Nickel (Ni)		22.8	23.5		ug/g	3.0	30	17-MAY-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	17-MAY-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	17-MAY-21
Thallium (TI)		0.115	0.128		ug/g	11	30	17-MAY-21
Uranium (U)		0.547	0.599		ug/g	9.1	30	17-MAY-21
Vanadium (V)		26.8	28.0		ug/g	4.5	30	17-MAY-21
Zinc (Zn)		57.4	59.6		ug/g	3.8	30	17-MAY-21
WG3535703-4 LCS Antimony (Sb)			112.5		%		80-120	17-MAY-21
Arsenic (As)					%			
Arsenic (As) Barium (Ba)			110.5 108.3		%		80-120 80-120	17-MAY-21 17-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5458818								
WG3535703-4 LCS			405.0		0/		00.100	.= = .
Beryllium (Be)			105.9		%		80-120	17-MAY-21
Boron (B)			102.7		%		80-120	17-MAY-21
Cadmium (Cd)			106.1		%		80-120	17-MAY-21
Chromium (Cr)			109.2		%		80-120	17-MAY-21
Cobalt (Co)			107.4		%		80-120	17-MAY-21
Copper (Cu)			105.3		%		80-120	17-MAY-21
Lead (Pb)			108.4		%		80-120	17-MAY-21
Molybdenum (Mo)			109.6		%		80-120	17-MAY-21
Nickel (Ni)			106.6		%		80-120	17-MAY-21
Selenium (Se)			104.3		%		80-120	17-MAY-21
Silver (Ag)			108.1		%		80-120	17-MAY-21
Thallium (TI)			101.8		%		80-120	17-MAY-21
Uranium (U)			104.8		%		80-120	17-MAY-21
Vanadium (V)			112.2		%		80-120	17-MAY-21
Zinc (Zn)			106.7		%		80-120	17-MAY-21
WG3535703-1 MB			0.40				0.4	
Antimony (Sb)			<0.10		mg/kg		0.1	17-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	17-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	17-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	17-MAY-21
Boron (B)			<5.0		mg/kg 		5	17-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	17-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	17-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	17-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	17-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	17-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	17-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	17-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	17-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	17-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	17-MAY-21
Uranium (U)			<0.050		mg/kg		0.05	17-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	17-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	17-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT	Soil							
Batch R5456725 WG3533063-3 DUP % Moisture		L2584426-3 19.1	19.0		%	0.7	20	12-MAY-21
WG3533063-2 LCS % Moisture			101.7		%		90-110	12-MAY-21
WG3533063-1 MB % Moisture			<0.25		%		0.25	12-MAY-21
PAH-511-WT	Soil							
Batch R5456757								
WG3532996-3 DUP		WG3532996-		DDD MA	ua/a	NI/A	40	40 MAN/ 04
1-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	13-MAY-21
2-Methylnaphthalene		<0.030	<0.030	RPD-NA	ug/g	N/A	40	13-MAY-21
Acenaphthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Anthracene		<0.050	<0.050	RPD-NA	ug/g ,	N/A	40	13-MAY-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Dibenz(a,h)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Fluoranthene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Fluorene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Indeno(1,2,3-cd)pyrene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
Naphthalene		<0.013	<0.013	RPD-NA	ug/g	N/A	40	13-MAY-21
Phenanthrene		<0.046	<0.046	RPD-NA	ug/g	N/A	40	13-MAY-21
Pyrene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	13-MAY-21
WG3532996-2 LCS 1-Methylnaphthalene			91.3		%		50-140	13-MAY-21
2-Methylnaphthalene			88.5		%		50-140	13-MAY-21
Acenaphthene			87.7		%		50-140	13-MAY-21
Acenaphthylene			83.3		%		50-140	13-MAY-21
Anthracene			76.2		%		50-140	13-MAY-21
Benzo(a)anthracene			86.5		%		50-140	13-MAY-21
Benzo(a)pyrene			75.4		%		50-140	13-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix Re	eference R	esult	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5456757								
WG3532996-2 LCS			00.4		0/			
Benzo(b&j)fluoranthene			32.1		%		50-140	13-MAY-21
Benzo(g,h,i)perylene			85.9		%		50-140	13-MAY-21
Benzo(k)fluoranthene			86.5		%		50-140	13-MAY-21
Chrysene			37.5		%		50-140	13-MAY-21
Dibenz(a,h)anthracene			33.8		%		50-140	13-MAY-21
Fluoranthene			34.8		%		50-140	13-MAY-21
Fluorene			35.1		%		50-140	13-MAY-21
Indeno(1,2,3-cd)pyrene			32.4		%		50-140	13-MAY-21
Naphthalene			35.6		%		50-140	13-MAY-21
Phenanthrene			88.1		%		50-140	13-MAY-21
Pyrene		8	34.3		%		50-140	13-MAY-21
WG3532996-1 MB 1-Methylnaphthalene		<	0.030		ug/g		0.03	13-MAY-21
2-Methylnaphthalene		<	0.030		ug/g		0.03	13-MAY-21
Acenaphthene		<	0.050		ug/g		0.05	13-MAY-21
Acenaphthylene		<	0.050		ug/g		0.05	13-MAY-21
Anthracene		<	0.050		ug/g		0.05	13-MAY-21
Benzo(a)anthracene		<	0.050		ug/g		0.05	13-MAY-21
Benzo(a)pyrene		<	0.050		ug/g		0.05	13-MAY-21
Benzo(b&j)fluoranthene		<	0.050		ug/g		0.05	13-MAY-21
Benzo(g,h,i)perylene		<	0.050		ug/g		0.05	13-MAY-21
Benzo(k)fluoranthene		<	0.050		ug/g		0.05	13-MAY-21
Chrysene		<	0.050		ug/g		0.05	13-MAY-21
Dibenz(a,h)anthracene		<	0.050		ug/g		0.05	13-MAY-21
Fluoranthene		<	0.050		ug/g		0.05	13-MAY-21
Fluorene		<	0.050		ug/g		0.05	13-MAY-21
Indeno(1,2,3-cd)pyrene		<	0.050		ug/g		0.05	13-MAY-21
Naphthalene		<	:0.013		ug/g		0.013	13-MAY-21
Phenanthrene		<	0.046		ug/g		0.046	13-MAY-21
Pyrene		<	0.050		ug/g		0.05	13-MAY-21
Surrogate: 2-Fluorobiphe	nyl	8	88.0		%		50-140	13-MAY-21
Surrogate: d14-Terpheny	1	8	33.8		%		50-140	13-MAY-21
WG3532996-4 MS 1-Methylnaphthalene	V	/G3532996-5 9	94.5		%		50-140	13-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5456757								
WG3532996-4 MS		WG3532996-5			04			
2-Methylnaphthalene			91.6		%		50-140	13-MAY-21
Acenaphthene			92.4		%		50-140	13-MAY-21
Acenaphthylene			86.7		%		50-140	13-MAY-21
Anthracene			80.6		%		50-140	13-MAY-21
Benzo(a)anthracene			93.4		%		50-140	13-MAY-21
Benzo(a)pyrene			81.2		%		50-140	13-MAY-21
Benzo(b&j)fluoranthene			90.7		%		50-140	13-MAY-21
Benzo(g,h,i)perylene			91.1		%		50-140	13-MAY-21
Benzo(k)fluoranthene			90.7		%		50-140	13-MAY-21
Chrysene			92.1		%		50-140	13-MAY-21
Dibenz(a,h)anthracene			90.8		%		50-140	13-MAY-21
Fluoranthene			89.5		%		50-140	13-MAY-21
Fluorene			90.7		%		50-140	13-MAY-21
Indeno(1,2,3-cd)pyrene			86.6		%		50-140	13-MAY-21
Naphthalene			87.2		%		50-140	13-MAY-21
Phenanthrene			92.0		%		50-140	13-MAY-21
Pyrene			88.9		%		50-140	13-MAY-21
PCB-511-WT	Soil							
Batch R5456772								
WG3532996-3 DUP		WG3532996-5						
Aroclor 1242		<0.010	<0.010	RPD-NA	ug/g	N/A	40	13-MAY-21
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	13-MAY-21
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	13-MAY-21
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	13-MAY-21
WG3532996-2 LCS					04			
Aroclor 1242			87.2		%		60-140	13-MAY-21
Aroclor 1248			93.4		%		60-140	13-MAY-21
Aroclor 1254			88.6		%		60-140	13-MAY-21
Aroclor 1260			83.9		%		60-140	13-MAY-21
WG3532996-1 MB Aroclor 1242			<0.010		ug/g		0.01	13-MAY-21
Aroclor 1248			<0.010		ug/g		0.01	13-MAY-21
Aroclor 1254			<0.010		ug/g		0.01	13-MAY-21
Aroclor 1260			<0.010		ug/g		0.01	13-MAY-21
7.1100101 1200			30.010		~±' ±		0.01	13-1VIA 1-2 I



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PCB-511-WT	Soil							
Batch R5456772 WG3532996-1 MB Surrogate: d14-Terphen	yl		87.6		%		60-140	13-MAY-21
WG3532996-4 MS Aroclor 1242		WG3532996-5	104.9		%		60-140	13-MAY-21
Aroclor 1254			106.5		%		60-140	13-MAY-21
Aroclor 1260			101.2		%		60-140	13-MAY-21
PH-WT	Soil							
Batch R5456379								
WG3533325-1 LCS pH			6.97		pH units		6.9-7.1	12-MAY-21
SAR-R511-WT	Soil							
Batch R5458693								
WG3535701-4 DUP Calcium (Ca)		WG3535701-3 16.4	15.5		mg/L	5.6	30	17-MAY-21
Sodium (Na)		116	112		mg/L	3.5	30	17-MAY-21
Magnesium (Mg)		1.00	0.94		mg/L	6.3	30	17-MAY-21
WG3535701-2 IRM Calcium (Ca)		WT SAR4	100.9		%		70-130	17-MAY-21
Sodium (Na)			87.9		%		70-130	17-MAY-21
Magnesium (Mg)			96.6		%		70-130	17-MAY-21
WG3535701-5 LCS Calcium (Ca)			107.3		%		80-120	17-MAY-21
Sodium (Na)			101.8		%		80-120	17-MAY-21
Magnesium (Mg)			102.0		%		80-120	17-MAY-21
WG3535701-1 MB Calcium (Ca)			<0.50		mg/L		0.5	17-MAY-21
Sodium (Na)			<0.50		mg/L		0.5	17-MAY-21
Magnesium (Mg)			<0.50		mg/L		0.5	17-MAY-21
VOC-511-HS-WT	Soil							
Batch R5457327								
WG3533076-54 DUP	_	WG3533076-5						
1,1,1,2-Tetrachloroethar		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,1,2,2-Tetrachloroethar	ie	<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,1,2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5457327	•							
WG3533076-54 DUP		WG3533076-			,			
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g ,	N/A	40	14-MAY-21
1,2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g ,	N/A	40	14-MAY-21
1,2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	14-MAY-21
Benzene		0.0506	0.0521		ug/g	2.9	40	14-MAY-21
Bromodichloromethane	•	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Bromoform		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Bromomethane		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Carbon tetrachloride		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Chlorobenzene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Chloroform		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
cis-1,2-Dichloroethylene	е	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
cis-1,3-Dichloropropene	Э	<0.030	< 0.030	RPD-NA	ug/g	N/A	40	14-MAY-21
Dibromochloromethane	•	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Dichlorodifluoromethan	е	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Ethylbenzene		0.042	0.041		ug/g	1.2	40	14-MAY-21
n-Hexane		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Methylene Chloride		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
MTBE		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
m+p-Xylenes		0.043	0.043		ug/g	1.1	40	14-MAY-21
Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	14-MAY-21
Methyl Isobutyl Ketone		<0.50	< 0.50	RPD-NA	ug/g	N/A	40	14-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	14-MAY-21
Styrene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Tetrachloroethylene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	14-MAY-21
trans-1,2-Dichloroethyle	ene	<0.050	<0.050	RPD-NA	ug/g	N/A	40	14-MAY-21
trans-1,3-Dichloroprope	ene	<0.030	<0.030		ug/g			14-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

No. Soli	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
WG3533076-54 DUP WG3533076-54 Trans-1,3-Dichhorporpene 40,030 <0,030 RPD-NA Ug/g N/A 40 14-MAY-21 Trichloroethylene <0,050	VOC-511-HS-WT	Soil							
Trans-1,3-Dichloropropene	Batch R5457	7327							
Trichloroethylene < 0.010 < 0.010 RPD-NA ug/g N/A 40 14-MAY-21 Trichlorofluoromethane < 0.050									
Trichlorofluoromethane <0.050 <0.050 RPD-NA ug'g N/A 40 14-MAY-21 Viny chloride <0.020 <0.020 RPD-NA ug/g N/A 40 14-MAY-21 WG3533076-52 LCS 60-130 13-MAY-21 1.1.1,2-Flarachloroethane 105.9 % 60-130 13-MAY-21 1.1,1-Trichloroethane 97.1 % 60-130 13-MAY-21 1.1,1-Trichloroethane 109.1 % 60-130 13-MAY-21 1.1-Dichloroethane 100.2 % 60-130 13-MAY-21 1.2-Dichloroethane 100.2 % 60-130 13-MAY-21 1.2-Dichloroethane 108.4 % 70-130 13-MAY-21 1.2-Dichloroethane 106.9 % 70-130 13-MAY-21 1.2-Dichloroptopane 104.0 % 70-130 13-MAY-21 1.2-Dichloroptopane 104.0 % 70-130 13-MAY-21 1.3-Dichlorobenzene 108.8 % 70-130 </td <td></td> <td>oropene</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		oropene							
Vinyl chloride <0.020 <0.020 RPD-NA ug/g N/A 40 14-MAY-21 WG3533078-52 LCS 1.1,1.2-Tetrachloroethane 101.1 % 60.130 13-MAY-21 1.1,1.2-Tirchloroethane 105.9 % 60.130 13-MAY-21 1.1,1.2-Tirchloroethane 109.1 % 60.130 13-MAY-21 1.1,2-Tirchloroethane 109.1 % 60.130 13-MAY-21 1.1,1-Dichloroethane 109.2 % 60.130 13-MAY-21 1,1-Dichloroethane 100.2 % 60.130 13-MAY-21 1,2-Dichloroethane 108.4 % 70.130 13-MAY-21 1,2-Dichlorobenzene 106.9 % 70.130 13-MAY-21 1,2-Dichlorobenzene 104.0 % 70.130 13-MAY-21 1,2-Dichlorobenzene 104.0 % 70.130 13-MAY-21 1,3-Dichlorobenzene 108.8 % 70.130 13-MAY-21 1,3-Dichlorobenzene 109.1 % 70.130 13-MAY-21	-								
WG3533076-52 LCS 1.1,1.2-Tetrachloroethane 101.1 % 60-130 13-MAY-21 1.1,1.2-Tetrachloroethane 105.9 % 60-130 13-MAY-21 1.1,1-Trichloroethane 97.1 % 60-130 13-MAY-21 1.1,1-Trichloroethane 109.1 % 60-130 13-MAY-21 1.1-Dichloroethane 100.2 % 60-130 13-MAY-21 1.1-Dichloroethylene 93.7 % 60-130 13-MAY-21 1.2-Dibromoethane 108.4 % 70-130 13-MAY-21 1.2-Dichloroethane 106.9 % 70-130 13-MAY-21 1.2-Dichloroethane 110.2 % 60-130 13-MAY-21 1.2-Dichloropropane 104.0 % 70-130 13-MAY-21 1.2-Dichloropropane 104.0 % 70-130 13-MAY-21 1.3-Dichlorobenzene 108.8 % 70-130 13-MAY-21 1.3-Dichlorobenzene 109.1 % 70-130 13-MAY-21 Acetone 133.5		nane							
1,1,1,2-Tetrachloroethane 101.1 % 60-130 13-MAY-21 1,1,2,2-Tetrachloroethane 105.9 % 60-130 13-MAY-21 1,1,1-Trichloroethane 97.1 % 60-130 13-MAY-21 1,1,1-Trichloroethane 109.1 % 60-130 13-MAY-21 1,1-Dichloroethane 100.2 % 60-130 13-MAY-21 1,1-Dichloroethylene 93.7 % 60-130 13-MAY-21 1,2-Dichloroethane 108.4 % 70-130 13-MAY-21 1,2-Dichloroethane 106.9 % 70-130 13-MAY-21 1,2-Dichloroethane 110.2 % 60-130 13-MAY-21 1,2-Dichloroptene 104.0 % 70-130 13-MAY-21 1,2-Dichloroptene 108.8 % 70-130 13-MAY-21 1,3-Dichlorobenzene 108.8 % 70-130 13-MAY-21 1,4-Dichlorobenzene 109.1 % 70-130 13-MAY-21 1,4-Dichlorobenzene 109.1 % 70-130 13-MAY-21 1,4-Dichlorobenzene 109.1 %	•		<0.020	<0.020	RPD-NA	ug/g	N/A	40	14-MAY-21
1,1,1-Trichloroethane 97.1 % 60-130 13-MAY-21 1,1,2-Trichloroethane 109.1 % 60-130 13-MAY-21 1,1-Dichloroethane 100.2 % 60-130 13-MAY-21 1,1-Dichloroethylene 93.7 % 60-130 13-MAY-21 1,2-Dibromoethane 108.4 % 70-130 13-MAY-21 1,2-Dichlorobenzene 106.9 % 70-130 13-MAY-21 1,2-Dichloroptopane 104.0 % 70-130 13-MAY-21 1,2-Dichlorobenzene 108.8 % 70-130 13-MAY-21 1,2-Dichlorobenzene 108.8 % 70-130 13-MAY-21 1,2-Dichlorobenzene 109.1 % 70-130 13-MAY-21 1,2-Dichlorobenzene 109.1 % 70-130 13-MAY-21 1,2-Dichlorobenzene 109.1 % 70-130 13-MAY-21 Acetone 133.5 % 60-140 13-MAY-21 Benzene 100.5 % 70-130 13-MAY-21 Bromodichloromethane 113.5 % 50-140 <				101.1		%		60-130	13-MAY-21
1,1,2-Trichloroethane 109.1 % 60-130 13-MAY-21 1,1-Dichloroethane 100.2 % 60-130 13-MAY-21 1,1-Dichloroethane 100.2 % 60-130 13-MAY-21 1,1-Dichloroethane 193.7 % 60-130 13-MAY-21 1,2-Dichloroethane 108.4 % 70-130 13-MAY-21 1,2-Dichlorobenzene 106.9 % 70-130 13-MAY-21 1,2-Dichloroethane 110.2 % 60-130 13-MAY-21 1,2-Dichloropthane 110.2 % 60-130 13-MAY-21 1,2-Dichloropthane 104.0 % 70-130 13-MAY-21 1,3-Dichlorobenzene 108.8 % 70-130 13-MAY-21 1,3-Dichlorobenzene 109.1 % 70-130 13-MAY-21 1,4-Dichlorobenzene 109.1 % 70-130 13-MAY-21 1,4-Dichlorobenzene 109.1 % 70-130 13-MAY-21 Benzene 100.5 % 70-130 13-MAY-21 Benzene 100.5 % 70-130 13-MAY-21 Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromodethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloropropene 102.0 % 70-130 13-MAY-21 cis-1,2-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 Dibromochloromethane 71.1 % 50-140 13-MAY-21 METANE	1,1,2,2-Tetrachloro	ethane		105.9		%		60-130	13-MAY-21
1,1-Dichloroethane 100.2 % 60-130 13-MAY-21 1,1-Dichloroethylene 93.7 % 60-130 13-MAY-21 1,2-Dibromoethane 108.4 % 70-130 13-MAY-21 1,2-Dichlorobenzene 106.9 % 70-130 13-MAY-21 1,2-Dichloroethane 110.2 % 60-130 13-MAY-21 1,2-Dichloropropane 104.0 % 70-130 13-MAY-21 1,3-Dichlorobenzene 108.8 % 70-130 13-MAY-21 1,4-Dichlorobenzene 109.1 % 70-130 13-MAY-21 Acetone 133.5 % 60-140 13-MAY-21 Benzene 100.5 % 70-130 13-MAY-21 Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromoderhane 89.6 % 50-140 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 <td>1,1,1-Trichloroetha</td> <td>ne</td> <td></td> <td>97.1</td> <td></td> <td>%</td> <td></td> <td>60-130</td> <td>13-MAY-21</td>	1,1,1-Trichloroetha	ne		97.1		%		60-130	13-MAY-21
1,1-Dichloroethylene 93.7 % 60-130 13-MAY-21 1,2-Dibromoethane 108.4 % 70-130 13-MAY-21 1,2-Dichlorobenzene 106.9 % 70-130 13-MAY-21 1,2-Dichloroperbane 110.2 % 60-130 13-MAY-21 1,2-Dichloropropane 104.0 % 70-130 13-MAY-21 1,3-Dichlorobenzene 108.8 % 70-130 13-MAY-21 1,4-Dichlorobenzene 109.1 % 70-130 13-MAY-21 Acetone 133.5 % 60-140 13-MAY-21 Benzene 100.5 % 70-130 13-MAY-21 Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chloroform 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21	1,1,2-Trichloroetha	ne		109.1		%		60-130	13-MAY-21
1,2-Dibromoethane 108.4 % 70-130 13-MAY-21 1,2-Dichlorobenzene 106.9 % 70-130 13-MAY-21 1,2-Dichloroperbane 110.2 % 60-130 13-MAY-21 1,2-Dichloropropane 104.0 % 70-130 13-MAY-21 1,3-Dichlorobenzene 108.8 % 70-130 13-MAY-21 1,4-Dichlorobenzene 109.1 % 70-130 13-MAY-21 Acetone 133.5 % 60-140 13-MAY-21 Benzene 100.5 % 70-130 13-MAY-21 Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 Cis-1,2-Dichloropepene 105.1 % 70-130 13-MAY-21	1,1-Dichloroethane	•		100.2		%		60-130	13-MAY-21
1,2-Dichlorobenzene 106.9 % 70-130 13-MAY-21 1,2-Dichloroethane 110.2 % 60-130 13-MAY-21 1,2-Dichloropropane 104.0 % 70-130 13-MAY-21 1,3-Dichlorobenzene 108.8 % 70-130 13-MAY-21 1,4-Dichlorobenzene 109.1 % 70-130 13-MAY-21 Acetone 133.5 % 60-140 13-MAY-21 Benzene 100.5 % 70-130 13-MAY-21 Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromoform 114.5 % 70-130 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 Chloroform 105.1 % 70-130 13-MAY-21 Dibromochloromethane 105.1 % 70-130 13-MAY-21	1,1-Dichloroethyler	ne		93.7		%		60-130	13-MAY-21
1,2-Dichloroethane 110.2 % 60-130 13-MAY-21 1,2-Dichloropropane 104.0 % 70-130 13-MAY-21 1,3-Dichlorobenzene 108.8 % 70-130 13-MAY-21 1,4-Dichlorobenzene 109.1 % 70-130 13-MAY-21 Acetone 133.5 % 60-140 13-MAY-21 Benzene 100.5 % 70-130 13-MAY-21 Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromoform 114.5 % 70-130 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 <	1,2-Dibromoethane)		108.4		%		70-130	13-MAY-21
1,2-Dichloropropane 104.0 % 70-130 13-MAY-21 1,3-Dichlorobenzene 108.8 % 70-130 13-MAY-21 1,4-Dichlorobenzene 109.1 % 70-130 13-MAY-21 Acetone 133.5 % 60-140 13-MAY-21 Benzene 100.5 % 70-130 13-MAY-21 Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromoform 114.5 % 70-130 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21	1,2-Dichlorobenzer	ne		106.9		%		70-130	13-MAY-21
1,3-Dichlorobenzene 108.8 % 70-130 13-MAY-21 1,4-Dichlorobenzene 109.1 % 70-130 13-MAY-21 Acetone 133.5 % 60-140 13-MAY-21 Benzene 100.5 % 70-130 13-MAY-21 Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromoform 114.5 % 70-130 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 <td>1,2-Dichloroethane</td> <td></td> <td></td> <td>110.2</td> <td></td> <td>%</td> <td></td> <td>60-130</td> <td>13-MAY-21</td>	1,2-Dichloroethane			110.2		%		60-130	13-MAY-21
1,4-Dichlorobenzene 109.1 % 70-130 13-MAY-21 Acetone 133.5 % 60-140 13-MAY-21 Benzene 100.5 % 70-130 13-MAY-21 Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromoform 114.5 % 70-130 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21	1,2-Dichloropropan	ie		104.0		%		70-130	13-MAY-21
Acetone 133.5 % 60-140 13-MAY-21 Benzene 100.5 % 70-130 13-MAY-21 Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromoform 114.5 % 70-130 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21	1,3-Dichlorobenzer	ne		108.8		%		70-130	13-MAY-21
Benzene 100.5 % 70-130 13-MAY-21 Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromoform 114.5 % 70-130 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21	1,4-Dichlorobenzer	ne		109.1		%		70-130	13-MAY-21
Bromodichloromethane 113.5 % 50-140 13-MAY-21 Bromoform 114.5 % 70-130 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 M-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	Acetone			133.5		%		60-140	13-MAY-21
Bromoform 114.5 % 70-130 13-MAY-21 Bromomethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	Benzene			100.5		%		70-130	13-MAY-21
Bromomethane 89.6 % 50-140 13-MAY-21 Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	Bromodichlorometh	nane		113.5		%		50-140	13-MAY-21
Carbon tetrachloride 103.0 % 70-130 13-MAY-21 Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	Bromoform			114.5		%		70-130	13-MAY-21
Chlorobenzene 106.3 % 70-130 13-MAY-21 Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	Bromomethane			89.6		%		50-140	13-MAY-21
Chloroform 107.0 % 70-130 13-MAY-21 cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	Carbon tetrachlorid	le		103.0		%		70-130	13-MAY-21
cis-1,2-Dichloroethylene 105.1 % 70-130 13-MAY-21 cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	Chlorobenzene			106.3		%		70-130	13-MAY-21
cis-1,3-Dichloropropene 102.0 % 70-130 13-MAY-21 Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	Chloroform			107.0		%		70-130	13-MAY-21
Dibromochloromethane 105.0 % 60-130 13-MAY-21 Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	cis-1,2-Dichloroeth	ylene		105.1		%		70-130	13-MAY-21
Dichlorodifluoromethane 71.1 % 50-140 13-MAY-21 Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	cis-1,3-Dichloropro	pene		102.0		%		70-130	13-MAY-21
Ethylbenzene 103.5 % 70-130 13-MAY-21 n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	Dibromochlorometl	hane		105.0		%		60-130	13-MAY-21
n-Hexane 88.4 % 70-130 13-MAY-21 Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	Dichlorodifluorome	thane		71.1		%		50-140	13-MAY-21
Methylene Chloride 104.9 % 70-130 13-MAY-21 MTBE 103.3 % 70-130 13-MAY-21	Ethylbenzene			103.5		%		70-130	13-MAY-21
MTBE 103.3 % 70-130 13-MAY-21	n-Hexane			88.4		%		70-130	13-MAY-21
10 100 10 10 10 10 10 10 10 10 10 10 10	Methylene Chloride)		104.9		%		70-130	13-MAY-21
m+p-Xylenes 105.4 70-130	MTBE			103.3		%		70-130	13-MAY-21
	m+p-Xylenes			105.4				70-130	



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R545732	7							
WG3533076-52 LCS					0.6			
m+p-Xylenes			105.4		%		70-130	13-MAY-21
Methyl Ethyl Ketone			125.5		%		60-140	13-MAY-21
Methyl Isobutyl Ketone)		118.1		%		60-140	13-MAY-21
o-Xylene			111.7		%		70-130	13-MAY-21
Styrene			107.7		%		70-130	13-MAY-21
Tetrachloroethylene			102.5		%		60-130	13-MAY-21
Toluene			102.2		%		70-130	13-MAY-21
trans-1,2-Dichloroethy			102.5		%		60-130	13-MAY-21
trans-1,3-Dichloroprop	ene		109.0		%		70-130	13-MAY-21
Trichloroethylene			103.5		%		60-130	13-MAY-21
Trichlorofluoromethan	е		88.1		%		50-140	13-MAY-21
Vinyl chloride			91.2		%		60-140	13-MAY-21
WG3533076-51 MB			0.050				0.05	
1,1,1,2-Tetrachloroeth			<0.050		ug/g		0.05	13-MAY-21
1,1,2,2-Tetrachloroeth	ane		<0.050		ug/g		0.05	13-MAY-21
1,1,1-Trichloroethane			<0.050		ug/g		0.05	13-MAY-21
1,1,2-Trichloroethane			<0.050		ug/g		0.05	13-MAY-21
1,1-Dichloroethane			<0.050		ug/g		0.05	13-MAY-21
1,1-Dichloroethylene			<0.050		ug/g		0.05	13-MAY-21
1,2-Dibromoethane			<0.050		ug/g		0.05	13-MAY-21
1,2-Dichlorobenzene			<0.050		ug/g		0.05	13-MAY-21
1,2-Dichloroethane			<0.050		ug/g		0.05	13-MAY-21
1,2-Dichloropropane			<0.050		ug/g		0.05	13-MAY-21
1,3-Dichlorobenzene			<0.050		ug/g		0.05	13-MAY-21
1,4-Dichlorobenzene			<0.050		ug/g		0.05	13-MAY-21
Acetone			<0.50		ug/g		0.5	13-MAY-21
Benzene			<0.0068		ug/g		0.0068	13-MAY-21
Bromodichloromethan	е		<0.050		ug/g		0.05	13-MAY-21
Bromoform			<0.050		ug/g		0.05	13-MAY-21
Bromomethane			< 0.050		ug/g		0.05	13-MAY-21
Carbon tetrachloride			< 0.050		ug/g		0.05	13-MAY-21
Chlorobenzene			< 0.050		ug/g		0.05	13-MAY-21
Chloroform			< 0.050		ug/g		0.05	13-MAY-21
cis-1,2-Dichloroethyler	ne		<0.050		ug/g		0.05	13-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5457327								
WG3533076-51 MB			0.000				0.00	
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	13-MAY-21
Dibromochloromethane			<0.050		ug/g		0.05	13-MAY-21
Dichlorodifluoromethane	•		<0.050		ug/g		0.05	13-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	13-MAY-21
n-Hexane			<0.050		ug/g		0.05	13-MAY-21
Methylene Chloride			<0.050		ug/g		0.05	13-MAY-21
MTBE			<0.050		ug/g		0.05	13-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	13-MAY-21
Methyl Ethyl Ketone			<0.50		ug/g		0.5	13-MAY-21
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	13-MAY-21
o-Xylene			<0.020		ug/g		0.02	13-MAY-21
Styrene			<0.050		ug/g		0.05	13-MAY-21
Tetrachloroethylene			<0.050		ug/g		0.05	13-MAY-21
Toluene			<0.080		ug/g		0.08	13-MAY-21
trans-1,2-Dichloroethyler	ne		< 0.050		ug/g		0.05	13-MAY-21
trans-1,3-Dichloroproper	ne		< 0.030		ug/g		0.03	13-MAY-21
Trichloroethylene			<0.010		ug/g		0.01	13-MAY-21
Trichlorofluoromethane			< 0.050		ug/g		0.05	13-MAY-21
Vinyl chloride			<0.020		ug/g		0.02	13-MAY-21
Surrogate: 1,4-Difluorobe	enzene		114.5		%		50-140	13-MAY-21
Surrogate: 4-Bromofluor	obenzene		109.6		%		50-140	13-MAY-21
WG3533076-55 MS		WG3533076-						
1,1,1,2-Tetrachloroethan			122.6		%		50-140	14-MAY-21
1,1,2,2-Tetrachloroethan	ne		126.2		%		50-140	14-MAY-21
1,1,1-Trichloroethane			121.7		%		50-140	14-MAY-21
1,1,2-Trichloroethane			128.6		%		50-140	14-MAY-21
1,1-Dichloroethane			125.6		%		50-140	14-MAY-21
1,1-Dichloroethylene			124.5		%		50-140	14-MAY-21
1,2-Dibromoethane			124.5		%		50-140	14-MAY-21
1,2-Dichlorobenzene			127.7		%		50-140	14-MAY-21
1,2-Dichloroethane			130.1		%		50-140	14-MAY-21
1,2-Dichloropropane			126.0		%		50-140	14-MAY-21
1,3-Dichlorobenzene			126.0		%		50-140	14-MAY-21
1,4-Dichlorobenzene			126.0		%		50-140	14-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5457327								
WG3533076-55 MS		WG3533076-		MEO	%		50.446	
Acetone			144.5	MES			50-140	14-MAY-21
Benzene			123.7		%		50-140	14-MAY-21
Bromodichloromethane			136.4		%		50-140	14-MAY-21
Bromoform			134.2		%		50-140	14-MAY-21
Bromomethane			119.4		%		50-140	14-MAY-21
Carbon tetrachloride			129.1		%		50-140	14-MAY-21
Chlorobenzene			125.9		%		50-140	14-MAY-21
Chloroform			130.7		%		50-140	14-MAY-21
cis-1,2-Dichloroethylene			126.5		%		50-140	14-MAY-21
cis-1,3-Dichloropropene			115.8		%		50-140	14-MAY-21
Dibromochloromethane			124.2		%		50-140	14-MAY-21
Dichlorodifluoromethane	e		109.6		%		50-140	14-MAY-21
Ethylbenzene			123.5		%		50-140	14-MAY-21
n-Hexane			122.7		%		50-140	14-MAY-21
Methylene Chloride			128.8		%		50-140	14-MAY-21
MTBE			122.4		%		50-140	14-MAY-21
m+p-Xylenes			124.3		%		50-140	14-MAY-21
Methyl Ethyl Ketone			132.0		%		50-140	14-MAY-21
Methyl Isobutyl Ketone			134.3		%		50-140	14-MAY-21
o-Xylene			133.4		%		50-140	14-MAY-21
Styrene			126.2		%		50-140	14-MAY-21
Tetrachloroethylene			118.8		%		50-140	14-MAY-21
Toluene			123.1		%		50-140	14-MAY-21
trans-1,2-Dichloroethyle	ne		125.8		%		50-140	14-MAY-21
trans-1,3-Dichloroprope	ne		122.2		%		50-140	14-MAY-21
Trichloroethylene			123.7		%		50-140	14-MAY-21
Trichlorofluoromethane			122.9		%		50-140	14-MAY-21
Vinyl chloride			128.2		%		50-140	14-MAY-21

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MTE CONSULTANTS INC. (Kitchener) Client: Page 16 of 16

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Legend:

ALS Control Limit (Data Quality Objectives) DUP Duplicate

RPD

Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

Average Desorption Efficiency ADE

Method Blank MB

IRM Internal Reference Material CRM Certified Reference Material CCV Continuing Calibration Verification CVS Calibration Verification Standard LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

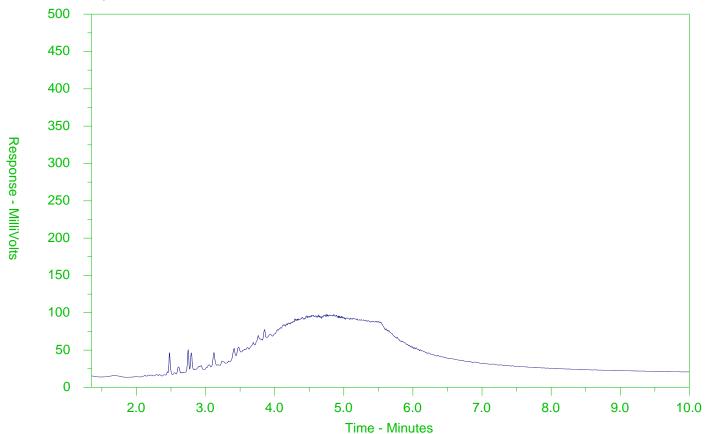
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



ALS Sample ID: L2585298-2

Client Sample ID: BH106-21 SS2 2.5-4.5 FT



← -F2-	→ ←	—F3 → ← F4—	→			
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
Gasolin	ıe →	← Mot	or Oils/Lube Oils/Grease-			
←	← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

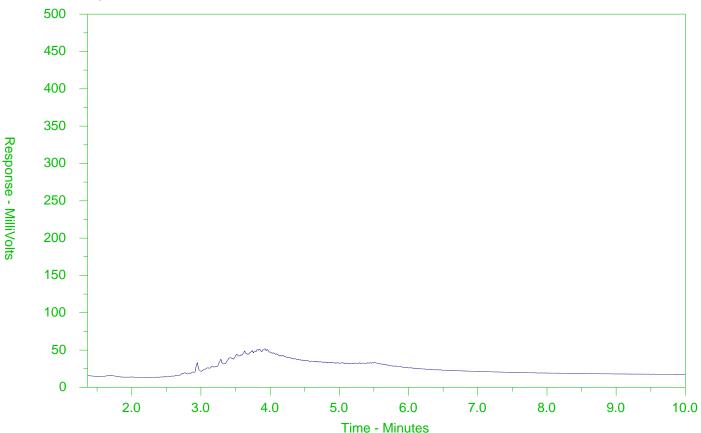
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2585298-8

Client Sample ID: BH105-21 SS4 7.5-9.5 FT



← -F2-	→ ←	—F3 → ← F4—	→			
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
Gasolin	ıe →	← Mot	or Oils/Lube Oils/Grease-			
←	← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

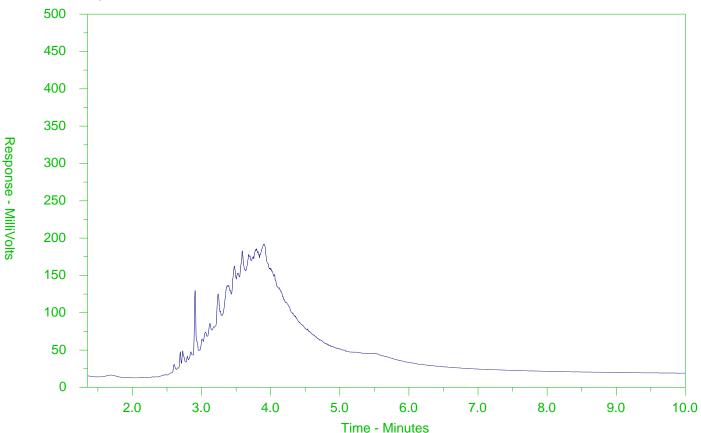
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2585298-10

Client Sample ID: BH104-21 SS2 2.5-4.5 FT



← -F2-	→ ←	—F3 → ← F4—	→			
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
Gasolin	ıe →	← Mot	or Oils/Lube Oils/Grease-			
←	← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

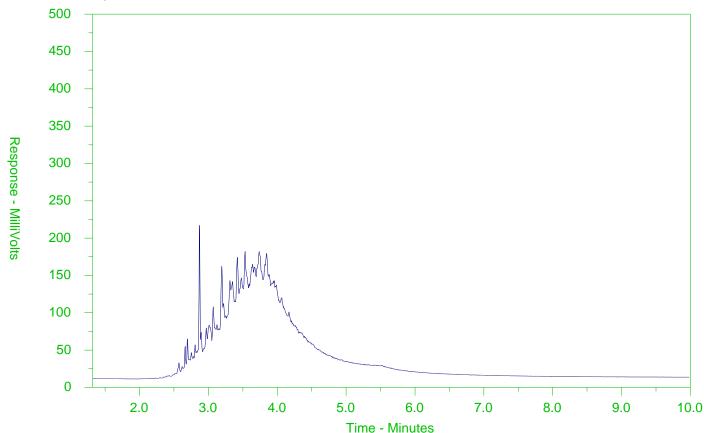
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2585298-14

Client Sample ID: BH103-21 SS2 2.5-4.5 FT



← -F2-	→-	_F3 → F4-	→			
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-		
•	← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

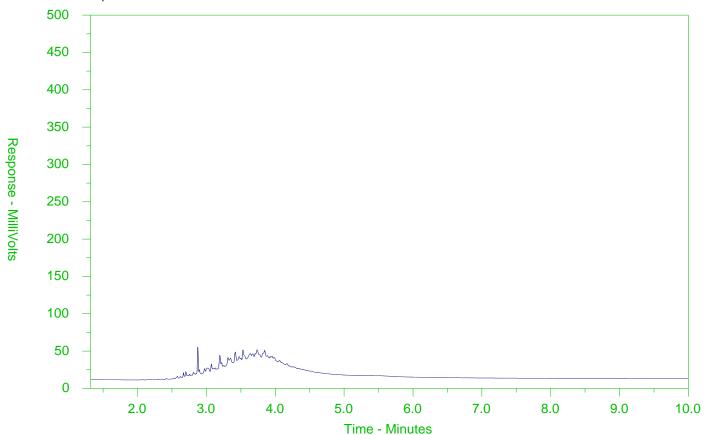
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2585298-15

Client Sample ID: BH103-21 SS3 5-7 FT



← -F2-	→-	_F3 → F4-	→			
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-		
•	← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

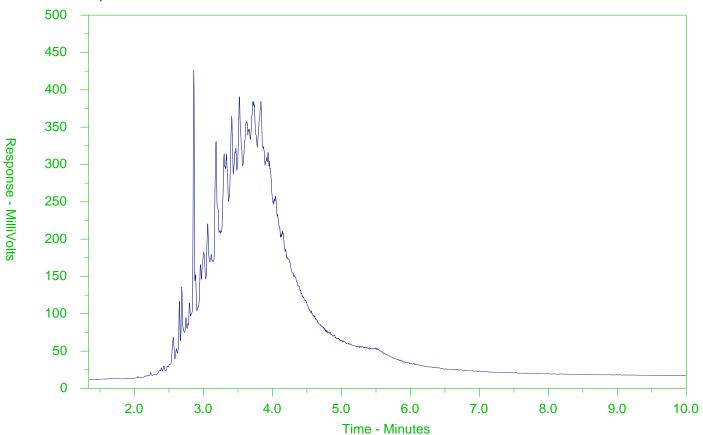
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2585298-19

Client Sample ID: BH102-21 SS2 2.5-4.5 FT



← -F2-	→-	_F3 → F4-	→			
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-		
•	← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

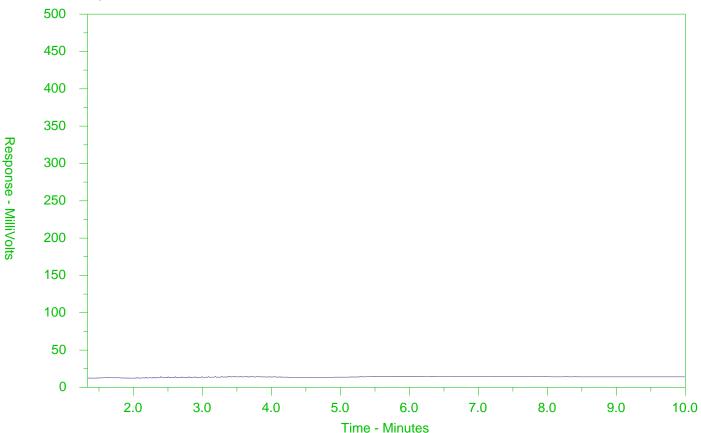
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2585298-25

Client Sample ID: BH101-21 SS4 7.5-9.5 FT



← -F2-	→-	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
•	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



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REFER TO BACK	PAGE FOR ALS LOCATIONS AND SAMPLE	NG INFORMATION	1	WH	ITE - LABORATO	RY COPY YEL	LOW - C	CLIENT C	OPY (~	-			11-11	-1		+ 		JU	NE 2018 FROM



MTE CONSULTANTS INC. (Kitchener)

ATTN: JEN LAMBKE

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Date Received: 12-MAY-21

Report Date: 20-MAY-21 14:30 (MT)

Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2586911

Project P.O. #: NOT SUBMITTED

Job Reference: 46995-100

C of C Numbers: Legal Site Desc:

Comments: ADDITIONAL 13-MAY-21 14:59

ADDITIONAL 12-MAY-21 17:01

Emily Hansen Account Manager

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ANALYTICAL GUIDELINE REPORT

L2586911 CONTD....

Page 2 of 11 20-MAY-21 14:30 (MT)

46995-100							20)-MAY-21 14:30 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guideline	e Limits
L2586911-2 BH122-21 SS2 2.5-4.5FT								
Sampled By: MD on 11-MAY-21 @ 08:30								
Matrix: SOIL						#1	#2	
Physical Tests								
Conductivity	1.22		0.0040	mS/cm	18-MAY-21	*0.57	1.4	
% Moisture	4.83		0.25	%	16-MAY-21			
pH	7.78		0.10	pH units	18-MAY-21			
Saturated Paste Extractables				'				
SAR	71.9	SAR:M	0.10	SAR	18-MAY-21	*2.4	*12	
Calcium (Ca)	0.83		0.50	mg/L	18-MAY-21			
Magnesium (Mg)	<0.50		0.50	mg/L	18-MAY-21			
Sodium (Na)	237		0.50	mg/L	18-MAY-21			
Metals			0.00	9/ =				
Antimony (Sb)	2.1		1.0	ug/g	18-MAY-21	*1.3	40	
Arsenic (As)	3.5		1.0	ug/g	18-MAY-21	18	18	
Barium (Ba)	35.5		1.0	ug/g	18-MAY-21	220	670	
Beryllium (Be)	<0.50		0.50		18-MAY-21	2.5	8	
. , ,	8.7			ug/g				
Boron (B)	<0.50		5.0	ug/g	18-MAY-21	36	120	
Cadmium (Cd)			0.50	ug/g	18-MAY-21	1.2	1.9	
Chromium (Cr)	18.0		1.0	ug/g	18-MAY-21	70	160	
Cobalt (Co)	3.8		1.0	ug/g	18-MAY-21	21	80	
Copper (Cu)	24.4		1.0	ug/g	18-MAY-21	92	230	
Lead (Pb)	39.5		1.0	ug/g	18-MAY-21	120	120	
Molybdenum (Mo)	1.4		1.0	ug/g	18-MAY-21	2	40	
Nickel (Ni)	9.7		1.0	ug/g	18-MAY-21	82	270	
Selenium (Se)	<1.0		1.0	ug/g	18-MAY-21	1.5	5.5	
Silver (Ag)	<0.20		0.20	ug/g	18-MAY-21	0.5	40	
Thallium (TI)	<0.50		0.50	ug/g	18-MAY-21	1	3.3	
Uranium (U)	<1.0		1.0	ug/g	18-MAY-21	2.5	33	
Vanadium (V)	18.2		1.0	ug/g	18-MAY-21	86	86	
Zinc (Zn)	98.8		5.0	ug/g	18-MAY-21	290	340	
Volatile Organic Compounds								
Benzene	<0.0068		0.0068	ug/g	17-MAY-21	0.02	0.034	
Ethylbenzene	<0.018		0.018	ug/g	17-MAY-21	0.05	1.9	
Toluene	<0.080		0.080	ug/g	17-MAY-21	0.2	7.8	
o-Xylene	<0.020		0.020	ug/g	17-MAY-21			
m+p-Xylenes	<0.030		0.030	ug/g	17-MAY-21			
Xylenes (Total)	<0.050		0.050	ug/g	17-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene	110.1		50-140	%	17-MAY-21			
Surrogate: 1,4-Difluorobenzene	110.8		50-140	%	17-MAY-21			
Hydrocarbons								
F1 (C6-C10)	<5.0		5.0	ug/g	17-MAY-21	25	25	
F1-BTEX	<5.0		5.0	ug/g	17-MAY-21	25	25	
F2 (C10-C16)	<10		10	ug/g	17-MAY-21	10	26	
F3 (C16-C34)	72		50	ug/g	17-MAY-21	240	1700	
F4 (C34-C50)	60		50	ug/g	17-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	132		72	ug/g	17-MAY-21	.20		
Chrom. to baseline at nC50	YES		, _	No Unit	17-MAY-21			
Surrogate: 2-Bromobenzotrifluoride	85.1		60-140	%	17-MAY-21			
Surrogate: 3,4-Dichlorotoluene	97.7		60-140	%	17-MAY-21			

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

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



46995-100

ANALYTICAL GUIDELINE REPORT

L2586911 CONTD....
Page 3 of 11
20-MAY-21 14:30 (MT)

46995-100 Sample Details							2	20-MAY-21 14:30 (MT)
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits
L2586911-4 BH122-21 SS4 7.5-9.5FT								
Sampled By: MD on 11-MAY-21 @ 08:50								
Matrix: SOIL						#1	#2	
Physical Tests								
% Moisture	19.0		0.25	%	16-MAY-21			
Volatile Organic Compounds	19.0		0.23	/6	10-10171-21			
Benzene	<0.0068		0.0068	ug/g	17-MAY-21	0.02	0.034	
Ethylbenzene	<0.008		0.008	ug/g ug/g	17-MAY-21	0.02	1.9	
Toluene	<0.080		0.010	ug/g ug/g	17-MAY-21	0.03	7.8	
o-Xylene	<0.020		0.000	ug/g	17-MAY-21	0.2	7.0	
m+p-Xylenes	<0.020		0.020	ug/g ug/g	17-MAY-21			
Xylenes (Total)	<0.050		0.050	ug/g	17-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene	99.5		50-140	%	17-MAY-21	0.00		
Surrogate: 1,4-Difluorobenzene	97.1		50-140	%	17-MAY-21			
Hydrocarbons								
F1 (C6-C10)	<5.0		5.0	ug/g	17-MAY-21	25	25	
F1-BTEX	<5.0		5.0	ug/g	17-MAY-21	25	25	
F2 (C10-C16)	<10		10	ug/g	17-MAY-21	10	26	
F3 (C16-C34)	<50		50	ug/g	17-MAY-21	240	1700	
F4 (C34-C50)	<50		50	ug/g	17-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	17-MAY-21	0		
Chrom. to baseline at nC50	YES		-	No Unit	17-MAY-21			
Surrogate: 2-Bromobenzotrifluoride	94.1		60-140	%	17-MAY-21			
Surrogate: 3,4-Dichlorotoluene	105.6		60-140	%	17-MAY-21			
L2586911-7 BH126-21 SS2 2.5-4.5FT								
Sampled By: MD on 11-MAY-21 @ 09:55								
Matrix: SOIL						#1	#2	
Physical Tests								
Conductivity	1.43		0.0040	mS/cm	18-MAY-21	*0.57	*1.4	
% Moisture	5.05		0.25	%	16-MAY-21			
Saturated Paste Extractables								
SAR	58.6	SAR:M	0.10	SAR	18-MAY-21	*2.4	*12	
Calcium (Ca)	1.73		0.50	mg/L	18-MAY-21			
Magnesium (Mg)	<0.50		0.50	mg/L	18-MAY-21			
Sodium (Na)	280		0.50	mg/L	18-MAY-21			
Metals								
Antimony (Sb)	<1.0		1.0	ug/g	18-MAY-21	1.3	40	
Arsenic (As)	1.9		1.0	ug/g	18-MAY-21	18	18	
Barium (Ba)	16.3		1.0	ug/g	18-MAY-21	220	670	
Beryllium (Be)	<0.50		0.50	ug/g	18-MAY-21	2.5	8	
Boron (B)	<5.0		5.0	ug/g	18-MAY-21	36	120	
Cadmium (Cd)	<0.50		0.50	ug/g	18-MAY-21	1.2	1.9	
Chromium (Cr)	10.9		1.0	ug/g	18-MAY-21	70	160	
Cobalt (Co)	3.4		1.0	ug/g	18-MAY-21	21	80	
Copper (Cu)	5.3		1.0	ug/g	18-MAY-21	92	230	
Lead (Pb)	7.5		1.0	ug/g	18-MAY-21	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	18-MAY-21	2	40	
Nickel (Ni)	5.4		1.0	ug/g	18-MAY-21	82	270	
Selenium (Se)	<1.0		1.0	ug/g	18-MAY-21	1.5	5.5	

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

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



L2586911 CONTD....

Page 4 of 11 20-MAY-21 14-30 (MT)

46995-100	ANALII	ICAL	GUID	LLINL	KLFON	. I	2	Page 4 0-MAY-21 1	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelin	e Limits	
L2586911-7 BH126-21 SS2 2.5-4.5FT									
Sampled By: MD on 11-MAY-21 @ 09:55									
Matrix: SOIL						#1	#2		
Metals									
Silver (Ag)	<0.20		0.20	ug/g	18-MAY-21	0.5	40		
Thallium (TI)	<0.50		0.50	ug/g	18-MAY-21	1	3.3		
Uranium (U)	<1.0		1.0	ug/g	18-MAY-21	2.5	33		
Vanadium (V)	27.2		1.0	ug/g	18-MAY-21	86	86		
Zinc (Zn)	26.9		5.0	ug/g	18-MAY-21	290	340		
Volatile Organic Compounds									
Benzene	<0.0068		0.0068	ug/g	17-MAY-21	0.02	0.034		
Ethylbenzene	<0.018		0.018	ug/g	17-MAY-21	0.05	1.9		
Toluene	<0.080		0.080	ug/g	17-MAY-21	0.2	7.8		
o-Xylene	<0.020		0.020	ug/g	17-MAY-21				
m+p-Xylenes	<0.030		0.030	ug/g	17-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	17-MAY-21	0.05	3		
Surrogate: 4-Bromofluorobenzene	108.7		50-140	%	17-MAY-21				
Surrogate: 1,4-Difluorobenzene	108.2		50-140	%	17-MAY-21				
Hydrocarbons									
F1 (C6-C10)	<5.0		5.0	ug/g	17-MAY-21	25	25		
F1-BTEX	<5.0		5.0	ug/g	17-MAY-21	25	25		
F2 (C10-C16)	<10		10	ug/g	17-MAY-21	10	26		
F3 (C16-C34)	<50		50	ug/g	17-MAY-21	240	1700		
F4 (C34-C50)	<50		50	ug/g	17-MAY-21	120	3300		
Total Hydrocarbons (C6-C50)	<72		72	ug/g	17-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	17-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	87.3		60-140	%	17-MAY-21				
Surrogate: 3,4-Dichlorotoluene	71.2		60-140	%	17-MAY-21				
L2586911-8 BH126-21 SS3 5-7FT									
Sampled By: MD on 11-MAY-21 @ 10:00									
Matrix: SOIL						#1 	#2		
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	18-MAY-21	1.3	40		
Arsenic (As)	2.6		1.0	ug/g	18-MAY-21	18	18		
Barium (Ba)	26.3		1.0	ug/g	18-MAY-21	220	670		
Beryllium (Be)	<0.50		0.50	ug/g	18-MAY-21	2.5	8		
Boron (B)	5.2		5.0	ug/g	18-MAY-21	36	120		
Cadmium (Cd)	<0.50		0.50	ug/g	18-MAY-21	1.2	1.9		
Chromium (Cr)	11.8		1.0	ug/g	18-MAY-21	70	160		
Cobalt (Co)	3.3		1.0	ug/g	18-MAY-21	21	80		
Copper (Cu)	12.6		1.0	ug/g	18-MAY-21	92	230		
Lead (Pb)	6.3		1.0	ug/g	18-MAY-21	120	120		
Molybdenum (Mo)	<1.0		1.0	ug/g	18-MAY-21	2	40		
Nickel (Ni)	7.4		1.0	ug/g	18-MAY-21	82	270		
Selenium (Se)	<1.0		1.0	ug/g	18-MAY-21	1.5	5.5		
Silver (Ag)	<0.20		0.20	ug/g	18-MAY-21	0.5	40		
Thallium (TI)	<0.50		0.50	ug/g	18-MAY-21	1	3.3		
Uranium (U)	<1.0		1.0	ug/g	18-MAY-21	2.5	33		
Vanadium (V)	24.8		1.0	ug/g	18-MAY-21	86	86		

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

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



ANALYTICAL GUIDELINE REPORT

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46995-100							2	0-MAY-21 1	4:30 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelin	e Limits	
L2586911-8 BH126-21 SS3 5-7FT									
Sampled By: MD on 11-MAY-21 @ 10:00									
Matrix: SOIL						<u>#1</u>	#2		
Metals									
Zinc (Zn)	37.1		5.0	ug/g	18-MAY-21	290	340		
L2586911-12 BH123-21 GS1B 18"-2.5FT				0.0					
Sampled By: MD on 11-MAY-21 @ 11:30									
Matrix: SOIL						#1	#2		
Physical Tests									
% Moisture	5.07		0.25	%	16-MAY-21				
Metals				,					
Antimony (Sb)	<1.0		1.0	ug/g	18-MAY-21	1.3	40		
Arsenic (As)	3.7		1.0	ug/g	18-MAY-21	18	18		
Barium (Ba)	38.9		1.0	ug/g	18-MAY-21	220	670		
Beryllium (Be) Boron (B)	<0.50 8.5		0.50 5.0	ug/g	18-MAY-21 18-MAY-21	2.5	8		
Cadmium (Cd)	<0.50		0.50	ug/g ug/g	18-MAY-21	36 1.2	120 1.9		
Chromium (Cr)	12.7		1.0	ug/g ug/g	18-MAY-21	70	1.9		
Cobalt (Co)	4.0		1.0	ug/g ug/g	18-MAY-21	21	80		
Copper (Cu)	25.2		1.0	ug/g ug/g	18-MAY-21	92	230		
Lead (Pb)	66.5		1.0	ug/g	18-MAY-21	120	120		
Molybdenum (Mo)	<1.0		1.0	ug/g	18-MAY-21	2	40		
Nickel (Ni)	8.2		1.0	ug/g	18-MAY-21	82	270		
Selenium (Se)	<1.0		1.0	ug/g	18-MAY-21	1.5	5.5		
Silver (Ag)	<0.20		0.20	ug/g	18-MAY-21	0.5	40		
Thallium (TI)	<0.50		0.50	ug/g	18-MAY-21	1	3.3		
Uranium (U)	<1.0		1.0	ug/g	18-MAY-21	2.5	33		
Vanadium (V)	24.9		1.0	ug/g	18-MAY-21	86	86		
Zinc (Zn)	145		5.0	ug/g	18-MAY-21	290	340		
Volatile Organic Compounds									
Benzene	<0.0068		0.0068	ug/g	17-MAY-21	0.02	0.034		
Ethylbenzene	<0.018		0.018	ug/g	17-MAY-21	0.05	1.9		
Toluene	<0.080		0.080	ug/g	17-MAY-21	0.2	7.8		
o-Xylene	<0.020		0.020	ug/g	17-MAY-21				
m+p-Xylenes	<0.030		0.030	ug/g	17-MAY-21	0.05			
Xylenes (Total)	<0.050		0.050	ug/g	17-MAY-21	0.05	3		
Surrogate: 4-Bromofluorobenzene Surrogate: 1,4-Difluorobenzene	105.3 107.1		50-140 50-140	% %	17-MAY-21 17-MAY-21				
Hydrocarbons	107.1		30-140	70	17-IVIA 1-21				
F1 (C6-C10)	<5.0		5.0	ug/g	17-MAY-21	25	25		
F1-BTEX	<5.0		5.0	ug/g ug/g	19-MAY-21	25 25	25		
F2 (C10-C16)	<10		10	ug/g ug/g	17-MAY-21	10	26		
F2-Naphth	<10		10	ug/g	19-MAY-21	10			
F3 (C16-C34)	50		50	ug/g	17-MAY-21	240	1700		
F3-PAH	<50		50	ug/g	19-MAY-21	-			
F4 (C34-C50)	94		50	ug/g	17-MAY-21	120	3300		
Total Hydrocarbons (C6-C50)	145		72	ug/g	19-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	17-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	85.6		60-140	%	17-MAY-21				

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

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



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46995-100 20-MAY-21 14:30 (MT) Sample Details Result Qualifier D.L. Units Grouping Analyte Analyzed **Guideline Limits** L2586911-12 BH123-21 GS1B 18"-2.5FT Sampled By: MD on 11-MAY-21 @ 11:30 #1 #2 Matrix: SOIL **Hvdrocarbons** 81.9 60-140 % 17-MAY-21 Surrogate: 3,4-Dichlorotoluene **Polycyclic Aromatic Hydrocarbons** 0.050 19-MAY-21 Acenaphthene < 0.050 0.072 15 ug/g Acenaphthylene 0.052 0.050 ug/g 19-MAY-21 0.093 0.093 Anthracene < 0.050 0.050 19-MAY-21 0.16 0.16 ug/g 19-MAY-21 Benzo(a)anthracene 0.249 0.050 ug/g 0.36 1 Benzo(a)pyrene 0.244 0.050 ug/g 19-MAY-21 0.3 0.7 0.315 0.050 19-MAY-21 Benzo(b&j)fluoranthene ug/g 0.47 7 Benzo(g,h,i)perylene 0.165 0.050 ug/g 19-MAY-21 0.68 13 Benzo(k)fluoranthene 0.103 0.050 ug/g 19-MAY-21 0.48 7 Chrysene 0.217 0.050 ug/g 19-MAY-21 2.8 14 0.050 19-MAY-21 Dibenz(a,h)anthracene < 0.050 ug/g 0.1 0.7 Fluoranthene 0.050 19-MAY-21 70 0.324 0.56 ug/g Fluorene < 0.050 0.050 19-MAY-21 0.12 6.8 ug/g 0.153 0.050 19-MAY-21 Indeno(1,2,3-cd)pyrene ug/g 0.23 0.76 1+2-Methylnaphthalenes < 0.042 0.042 ug/g 19-MAY-21 0.59 8.7 19-MAY-21 1-Methylnaphthalene < 0.030 0.030 ug/g 0.59 8.7 < 0.030 0.030 19-MAY-21 2-Methylnaphthalene ug/g 0.59 8.7 Naphthalene < 0.013 0.013 ug/g 19-MAY-21 0.09 1.8 Phenanthrene 0.067 0.046 ug/g 19-MAY-21 0.69 12 0.050 Pyrene 0.315 ug/g 19-MAY-21 1 70 Surrogate: 2-Fluorobiphenyl 50-140 84.9 % 19-MAY-21 Surrogate: d14-Terphenyl 87.3 50-140 % 19-MAY-21 L2586911-19 BH125-21 SS2 2.5-4.5FT Sampled Bv: MD on 11-MAY-21 @ 13:20 #1 #2 Matrix: SOIL Metals Antimony (Sb) <1.0 1.0 18-MAY-21 40 ug/g 1.3 Arsenic (As) 18-MAY-21 1.8 1.0 ug/g 18 18 Barium (Ba) 25.1 18-MAY-21 220 1.0 ug/g 670 < 0.50 0.50 18-MAY-21 Beryllium (Be) ug/g 2.5 8 Boron (B) <5.0 5.0 ug/g 18-MAY-21 36 120 Cadmium (Cd) < 0.50 0.50 18-MAY-21 ug/g 12 19 Chromium (Cr) 18-MAY-21 11.2 1.0 ug/g 70 160 Cobalt (Co) 18-MAY-21 3.4 1.0 ug/g 21 80 Copper (Cu) 5.0 1.0 ug/g 18-MAY-21 92 230 Lead (Pb) 6.8 1.0 ug/g 18-MAY-21 120 120 Molybdenum (Mo) <1.0 18-MAY-21 2 40 1.0 ug/g 6.7 Nickel (Ni) 1.0 ug/g 18-MAY-21 82 270 Selenium (Se) <1.0 1.0 ug/g 18-MAY-21 1.5 5.5 Silver (Ag) < 0.20 0.20 18-MAY-21 ug/g 0.5 40 Thallium (TI) < 0.50 0.50 18-MAY-21 3.3 ug/g Uranium (U) <1.0 1.0 18-MAY-21 ug/g 2.5 33 Vanadium (V) 18-MAY-21 27.7 1.0 ug/g 86 86

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

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



L2586911 CONTD.... Page 7 of 11

46995-100 20-MAY-21 14:30 (MT) Sample Details Units Grouping Analyte Result Qualifier D.L. Analyzed **Guideline Limits** L2586911-19 BH125-21 SS2 2.5-4.5FT Sampled By: MD on 11-MAY-21 @ 13:20 #1 #2 Matrix: SOIL Metals 40.1 5.0 290 Zinc (Zn) ug/g 18-MAY-21 340 L2586911-20 BH125-21 SS3 5-7FT MD on 11-MAY-21 @ 13:30 Sampled By: #1 #2 Matrix: SOIL **Physical Tests** % Moisture 8.39 0.25 % 16-MAY-21 Metals Antimony (Sb) 19-MAY-21 <1.0 1.0 ug/g 40 1.3 Arsenic (As) 3.7 1.0 19-MAY-21 18 ug/g 18 Barium (Ba) 14.7 1.0 19-MAY-21 220 670 ug/g Beryllium (Be) < 0.50 0.50 19-MAY-21 ug/g 2.5 8 Boron (B) < 5.0 5.0 ug/g 19-MAY-21 36 120 Cadmium (Cd) < 0.50 0.50 19-MAY-21 ug/g 1.2 1.9 Chromium (Cr) 11.2 1.0 ug/g 19-MAY-21 70 160 Cobalt (Co) 3.1 1.0 ug/g 19-MAY-21 21 80 Copper (Cu) 14.4 1.0 ug/g 19-MAY-21 92 230 Lead (Pb) 6.8 1.0 ug/g 19-MAY-21 120 120 <1.0 19-MAY-21 Molybdenum (Mo) 2 1.0 ug/g 40 Nickel (Ni) 7.2 1.0 19-MAY-21 82 270 ug/g Selenium (Se) 1.0 19-MAY-21 <1.0 ug/g 1.5 5.5 Silver (Ag) < 0.20 0.20 ug/g 19-MAY-21 0.5 40 Thallium (TI) < 0.50 0.50 19-MAY-21 3.3 ug/g 1 Uranium (U) <1.0 1.0 ug/g 19-MAY-21 2.5 33 Vanadium (V) 26.8 1.0 ug/g 19-MAY-21 86 86 5.0 19-MAY-21 290 Zinc (Zn) 41.9 340 ug/g **Volatile Organic Compounds** 19-MAY-21 Acetone < 0.50 0.50 ug/g 0.5 1.8 Benzene <0.0068 0.0068 ug/g 19-MAY-21 0.02 0.034 Bromodichloromethane < 0.050 0.050 19-MAY-21 ug/g 0.05 5.8 **Bromoform** < 0.050 0.050 ug/g 19-MAY-21 0.05 2.5 Bromomethane < 0.050 0.050 ug/g 19-MAY-21 0.05 0.05 Carbon tetrachloride < 0.050 0.050 ug/g 19-MAY-21 0.05 0.05 Chlorobenzene < 0.050 0.050 ug/g 19-MAY-21 0.05 0.28 19-MAY-21 Dibromochloromethane < 0.050 0.050 ug/g 0.05 5.5 < 0.050 0.050 19-MAY-21 Chloroform ug/g 0.05 0.26 < 0.050 0.050 19-MAY-21 1.2-Dibromoethane ug/g 0.05 0.05 1,2-Dichlorobenzene < 0.050 0.050 ug/g 19-MAY-21 0.05 6.8 1,3-Dichlorobenzene < 0.050 0.050 19-MAY-21 0.05 6.8 ug/g 0.050 19-MAY-21 1,4-Dichlorobenzene < 0.050 ug/g 0.05 0.05 Dichlorodifluoromethane < 0.050 0.050 ug/g 19-MAY-21 0.05 1.8 1.1-Dichloroethane < 0.050 0.050 19-MAY-21 0.57 ug/g 0.05 1,2-Dichloroethane < 0.050 0.050 ug/g 19-MAY-21 0.05 0.05 1.1-Dichloroethylene < 0.050 0.050 ug/g 19-MAY-21 0.05 0.05

< 0.050

0.050

ug/g

cis-1,2-Dichloroethylene

0.05

0.05

19-MAY-21

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

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



L2586911 CONTD....

Page 8 of 11 20-MAY-21 14-30 (MT)

Qualifier Qualifier	0.050 0.050 0.050 0.030 0.030 0.042 0.018 0.050 0.50 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	Units ug/g ug/g ug/g ug/g ug/g ug/g ug/g ug	19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21 19-MAY-21	#1 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.	#2 0.05 0.2 0.05 1.9 2.5 26 17 0.05 6.8 0.05 0.05 0.05 7.8 0.4 0.05	Limits
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^{**} Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

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

BTX-511-HS-WT

Reference Information

Sample Parameter Qualifier key listed:

Qualifier Description SAR:M Reported SAR represents a maximum value. Actual SAR may be lower if both Ca and Mg were detectable. Methods Listed (if applicable): ALS Test Code Method Reference*** Matrix **Test Description**

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

BTEX-O.Reg 153/04 (July 2011) SW846 8260

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

FC-WT Soil Conductivity (EC) **MOEE E3138**

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental

Protection Act (July 1, 2011).

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

Parameters

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

Hydrocarbon results are expressed on a dry weight basis.

Soil

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
- 3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
- 4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

- 1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- 2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- 3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
- 4. F4G: Gravimetric Heavy Hydrocarbons
- 5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
- 6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
- 7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
- 8. This method is validated for use.
- 9. Data from analysis of validation and quality control samples is available upon request.
- 10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

MET-200.2-CCMS-WT Soil Metals in Soil by CRC ICPMS

Soil

EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

METHYLNAPS-CALC-WT Soil **ABN-Calculated Parameters** SW846 8270

MOISTURE-WT Soil % Moisture CCME PHC in Soil - Tier 1 (mod)

PAH-511-WT

PAH-O.Reg 153/04 (July 2011)

SW846 3510/8270

A representative sub-sample of soil is fortified with deuterium-labelled surrogates and a mechanical shaking techniqueis used to extract the sample with a mixture of methanol and toluene. The extracts are concentrated and analyzed by GC/MS. Results for benzo(b) fluoranthene may include contributions from benzo(j)fluoranthene, if also present in the sample.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

PH-WT

Soil

MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

SAR-R511-WT

Soil

SAR-O.Reg 153/04 (July 2011) SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental

Protection Act (July 1, 2011). VOC-1,3-DCP-CALC-WT Soil

Regulation 153 VOCs

SW8260B/SW8270C

VOC-511-HS-WT

Soil

VOC-O.Reg 153/04 (July 2011)

SW846 8260 (511)

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-

WT

Soil

Sum of Xylene Isomer Concentrations

CALCULATION

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

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

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

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million. < - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	Soil							
Batch R5- WG3534502-4 Benzene	458759 DUP	WG3534502-3 <0.0068	<0.0068	RPD-NA	ug/g	N/A	40	17-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	17-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	17-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	17-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	17-MAY-21
WG3534502-2 Benzene	LCS		103.2		%		70-130	17-MAY-21
Ethylbenzene			99.2		%		70-130	17-MAY-21
m+p-Xylenes			90.8		%		70-130	17-MAY-21
o-Xylene			96.7		%		70-130	17-MAY-21
Toluene			98.4		%		70-130	17-MAY-21
WG3534502-1 Benzene	МВ		<0.0068		ug/g		0.0068	17-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	17-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	17-MAY-21
o-Xylene			<0.020		ug/g		0.02	17-MAY-21
Toluene			<0.080		ug/g		0.08	17-MAY-21
Surrogate: 1,4-E	Difluorobenzene		112.0		%		50-140	17-MAY-21
Surrogate: 4-Bro	omofluorobenzene		108.9		%		50-140	17-MAY-21
WG3534502-5 Benzene	MS	WG3534502-3	104.1		%		60-140	17-MAY-21
Ethylbenzene			102.0		%		60-140	17-MAY-21
m+p-Xylenes			93.8		%		60-140	17-MAY-21
o-Xylene			99.3		%		60-140	17-MAY-21
Toluene			103.0		%		60-140	17-MAY-21
EC-WT	Soil							
	459231							
WG3536411-4 Conductivity	DUP	WG3536411-3 0.122	0.119		mS/cm	2.4	20	18-MAY-21
WG3536411-2 Conductivity	IRM	WT SAR4	98.0		%		70-130	18-MAY-21
WG3536675-1 Conductivity	LCS		97.6		%		90-110	18-MAY-21
WG3536411-1 Conductivity	МВ		<0.0040		mS/cm		0.004	18-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT		Soil							
	5458759								
WG3534502-4	DUP		WG3534502-3						
F1 (C6-C10)			<5.0	<5.0	RPD-NA	ug/g	N/A	30	17-MAY-21
WG3534502-2 F1 (C6-C10)	LCS			121.4	LCS-H	%		80-120	17-MAY-21
WG3534502-1 F1 (C6-C10)	MB			<5.0		ua/a		5	47 MAY 04
Surrogate: 3,4-	Dichlorot	oluene		107.1		ug/g %		60-140	17-MAY-21
WG3534502-5	MS	oluene	W02524502.2	107.1		/0		00-140	17-MAY-21
F1 (C6-C10)	IVIS		WG3534502-3	114.2		%		60-140	17-MAY-21
Batch R	5459722								
WG3534616-4	DUP		WG3534616-3						
F1 (C6-C10)			<5.0	<5.0	RPD-NA	ug/g	N/A	30	20-MAY-21
WG3534616-2 F1 (C6-C10)	LCS			92.4		%		80-120	20-MAY-21
WG3534616-1 F1 (C6-C10)	MB			<5.0		ug/g		5	20-MAY-21
Surrogate: 3,4-	-Dichlorot	oluene		103.5		%		60-140	20-MAY-21
WG3534616-5	MS		WG3534616-3						
F1 (C6-C10)				100.8		%		60-140	20-MAY-21
F2-F4-511-WT		Soil							
Batch R	5458880								
WG3535709-3 F2 (C10-C16)	DUP		WG3535709-5 <10	<10	RPD-NA	ug/g	N/A	30	17-MAY-21
F3 (C16-C34)			<50	<50	RPD-NA	ug/g	N/A	30	17-MAY-21
F4 (C34-C50)			<50	<50	RPD-NA	ug/g	N/A	30	17-MAY-21
WG3535709-2	LCS								
F2 (C10-C16)				97.4		%		80-120	17-MAY-21
F3 (C16-C34)				99.4		%		80-120	17-MAY-21
F4 (C34-C50)				100.5		%		80-120	17-MAY-21
WG3535709-1 F2 (C10-C16)	МВ			<10		ug/g		10	17-MAY-21
F3 (C16-C34)				<50		ug/g		50	17-MAY-21
F4 (C34-C50)				<50		ug/g		50	17-MAY-21
Surrogate: 2-B	romobenz	zotrifluoride		101.9		%		60-140	17-MAY-21
WG3535709-4	MS		WG3535709-5						
F2 (C10-C16)				101.1		%		60-140	17-MAY-21
F3 (C16-C34)				104.1		%		60-140	17-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT	Soil							
Batch R5458880 WG3535709-4 MS F4 (C34-C50)		WG3535709-5	103.8		%		60-140	17-MAY-21
MET-200.2-CCMS-WT	Soil							
Batch R5459464								
WG3536407-2 CRM Antimony (Sb)		WT-SS-2	107.1		%		70-130	18-MAY-21
Arsenic (As)			112.8		%		70-130	18-MAY-21
Barium (Ba)			109.3		%		70-130	18-MAY-21
Beryllium (Be)			117.5		%		70-130	18-MAY-21
Boron (B)			10.8		mg/kg		3.5-13.5	18-MAY-21
Cadmium (Cd)			123.9		%		70-130	18-MAY-21
Chromium (Cr)			116.2		%		70-130	18-MAY-21
Cobalt (Co)			112.4		%		70-130	18-MAY-21
Copper (Cu)			112.8		%		70-130	18-MAY-21
Lead (Pb)			112.3		%		70-130	18-MAY-21
Molybdenum (Mo)			113.4		%		70-130	18-MAY-21
Nickel (Ni)			113.6		%		70-130	18-MAY-21
Selenium (Se)			0.15		mg/kg		0-0.34	18-MAY-21
Thallium (TI)			0.089		mg/kg		0.029-0.129	18-MAY-21
Uranium (U)			117.0		%		70-130	18-MAY-21
Vanadium (V)			116.5		%		70-130	18-MAY-21
Zinc (Zn)			111.8		%		70-130	18-MAY-21
WG3536407-6 DUP		WG3536407-5						
Antimony (Sb)		0.18	0.23		ug/g	24	30	18-MAY-21
Arsenic (As)		6.71	7.63		ug/g	13	30	18-MAY-21
Barium (Ba)		264	305		ug/g	14	40	18-MAY-21
Beryllium (Be)		1.38	1.45		ug/g	5.5	30	18-MAY-21
Boron (B)		18.4	20.8		ug/g	12	30	18-MAY-21
Cadmium (Cd)		0.117	0.145		ug/g	21	30	18-MAY-21
Chromium (Cr)		38.1	42.6		ug/g	11	30	18-MAY-21
Cobalt (Co)		17.0	18.9		ug/g	11	30	18-MAY-21
Copper (Cu)		31.7	35.1		ug/g	10	30	18-MAY-21
Lead (Pb)		12.6	14.4		ug/g	13	40	18-MAY-21
Molybdenum (Mo)		0.45	0.47		ug/g	4.3	40	18-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-	wT	Soil							
Batch R5	459464								
WG3536407-6	DUP		WG3536407-						
Nickel (Ni)			38.2	42.6		ug/g	11	30	18-MAY-21
Selenium (Se)			<0.20	<0.20	RPD-NA	ug/g	N/A	30	18-MAY-21
Silver (Ag)			<0.10	<0.10	RPD-NA	ug/g	N/A	40	18-MAY-21
Thallium (TI)			0.191	0.217		ug/g	12	30	18-MAY-21
Uranium (U)			0.944	1.08		ug/g	14	30	18-MAY-21
Vanadium (V)			54.0	61.0		ug/g	12	30	18-MAY-21
Zinc (Zn)			74.4	83.9		ug/g	12	30	18-MAY-21
WG3536407-4 Antimony (Sb)	LCS			112.7		%		80-120	18-MAY-21
Arsenic (As)				113.3		%		80-120	18-MAY-21
Barium (Ba)				108.5		%		80-120	18-MAY-21
Beryllium (Be)				113.2		%		80-120	18-MAY-21
Boron (B)				111.5		%		80-120	18-MAY-21
Cadmium (Cd)				110.2		%		80-120	18-MAY-21
Chromium (Cr)				114.9		%		80-120	18-MAY-21
Cobalt (Co)				112.0		%		80-120	18-MAY-21
Copper (Cu)				111.3		%		80-120	18-MAY-21
Lead (Pb)				112.9		%		80-120	18-MAY-21
Molybdenum (M	1o)			109.3		%		80-120	18-MAY-21
Nickel (Ni)				111.7		%		80-120	18-MAY-21
Selenium (Se)				112.4		%		80-120	18-MAY-21
Silver (Ag)				111.5		%		80-120	18-MAY-21
Thallium (TI)				112.7		%		80-120	18-MAY-21
Uranium (U)				113.1		%		80-120	18-MAY-21
Vanadium (V)				115.0		%		80-120	18-MAY-21
Zinc (Zn)				111.4		%		80-120	18-MAY-21
WG3536407-1 Antimony (Sb)	МВ			<0.10		mg/kg		0.1	18-MAY-21
Arsenic (As)				<0.10		mg/kg		0.1	18-MAY-21
Barium (Ba)				<0.50		mg/kg		0.5	18-MAY-21
Beryllium (Be)				<0.10		mg/kg		0.1	18-MAY-21
Boron (B)				<5.0		mg/kg		5	18-MAY-21
Cadmium (Cd)				<0.020		mg/kg		0.02	18-MAY-21
Chromium (Cr)				<0.50		mg/kg		0.5	18-MAY-21
22(01)				-0.00				#: #	10-WA 1-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5459464 WG3536407-1 MB			0.40		m a /lea		0.4	
Copper (Cu)			<0.10		mg/kg		0.1 0.5	18-MAY-21
Copper (Cu)			<0.50		mg/kg			18-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	18-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	18-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	18-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	18-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	18-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	18-MAY-21
Uranium (U)			<0.050		mg/kg		0.05	18-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	18-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	18-MAY-21
Batch R5459804 WG3537290-2 CRM		WT-SS-2						
Antimony (Sb)			101.3		%		70-130	19-MAY-21
Arsenic (As)			103.5		%		70-130	19-MAY-21
Barium (Ba)			109.3		%		70-130	19-MAY-21
Beryllium (Be)			99.8		%		70-130	19-MAY-21
Boron (B)			9.3		mg/kg		3.5-13.5	19-MAY-21
Cadmium (Cd)			101.3		%		70-130	19-MAY-21
Chromium (Cr)			103.2		%		70-130	19-MAY-21
Cobalt (Co)			99.9		%		70-130	19-MAY-21
Copper (Cu)			103.4		%		70-130	19-MAY-21
Lead (Pb)			102.3		%		70-130	19-MAY-21
Molybdenum (Mo)			100.6		%		70-130	19-MAY-21
Nickel (Ni)			103.1		%		70-130	19-MAY-21
Selenium (Se)			0.15		mg/kg		0-0.34	19-MAY-21
Silver (Ag)			87.8		%		70-130	19-MAY-21
Thallium (TI)			0.073		mg/kg		0.029-0.129	19-MAY-21
Uranium (U)			99.5		%		70-130	19-MAY-21
Vanadium (V)			103.2		%		70-130	19-MAY-21
Zinc (Zn)			97.9		%		70-130	19-MAY-21
WG3537290-6 DUP		WG3537290-5	;					
Antimony (Sb)		0.15	0.16		ug/g	5.5	30	19-MAY-21
Arsenic (As)		6.13	6.93		ug/g	12	30	19-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Met Met	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
Media	MET-200.2-CCMS-WT	Soil							
Barium (Ba) 90.1 101 ug/g 12 40 19-MAY-21 Beryllium (Be) 0.67 0.81 ug/g 19 30 19-MAY-21 Boron (B) 10.2 11.5 ug/g 11 30 19-MAY-21 Cadmium (Cd) 0.225 0.245 ug/g 14 30 19-MAY-21 Choral (Co) 12.1 13.9 ug/g 14 30 19-MAY-21 Copper (Cu) 31.4 35.8 ug/g 13 30 19-MAY-21 Lead (Pb) 28.8 33.3 ug/g 15 40 19-MAY-21 Molybdenum (Mo) 0.43 0.49 ug/g 14 40 19-MAY-21 Molybdenum (Mo) 0.43 0.49 ug/g 14 40 19-MAY-21 Molybdenum (Mo) 0.43 0.49 ug/g 14 30 19-MAY-21 Selenium (Se) 6.0 0.02 RPD-NA ug/g NA 40 19-MAY-21	Batch R5459804								
Beryllium (Be) 0.67 0.81 ug/g 19 30 19-MAY-21 Boron (B) 10.2 11.5 ug/g 11 30 19-MAY-21 Cadmium (Cd) 0.225 0.245 ug/g 8.5 30 19-MAY-21 Chromium (Cr) 21.9 25.3 ug/g 14 30 19-MAY-21 Cobalt (Co) 12.1 13.9 ug/g 14 30 19-MAY-21 Copper (Cu) 31.4 35.8 ug/g 13 30 19-MAY-21 Lead (Pb) 28.8 33.3 ug/g 15 40 19-MAY-21 Lead (Pb) 28.8 33.3 ug/g 14 40 19-MAY-21 Molybdenum (Mo) 0.43 0.49 ug/g 14 40 19-MAY-21 Siber (Mi) 26.3 30.2 ug/g 14 40 19-MAY-21 Siber (Ag) <0.10						ua/a	12	40	19-MAV-21
Boron (B)									-
Cadmium (Cd) 0.225 0.245 ug/g 8.5 30 19-MAY-21 Chromium (Cr) 21.9 25.3 ug/g 14 30 19-MAY-21 Cobalt (Co) 12.1 13.9 ug/g 14 30 19-MAY-21 Copper (Cu) 31.4 35.8 ug/g 13 30 19-MAY-21 Lead (Pb) 28.8 33.3 ug/g 15 40 19-MAY-21 Molybdenum (Mo) 0.43 0.49 ug/g 14 40 19-MAY-21 Nickel (Ni) 26.3 30.2 ug/g 14 30 19-MAY-21 Selenium (Se) -0.20 -0.20 RPD-NA ug/g NA 30 19-MAY-21 Silver (Ag) -0.10 -0.10 RPD-NA ug/g NA 40 19-MAY-21 Uranium (U) 0.532 0.607 ug/g 13 30 19-MAY-21 Uranium (V) 31.6 36.1 ug/g 13 30 19-MAY-21									
Chromium (Cr) 21.9 25.3 ug/g 14 30 19-MAY-21 Cobalt (Co) 12.1 13.9 ug/g 14 30 19-MAY-21 Copper (Cu) 31.4 35.8 ug/g 13 30 19-MAY-21 Lead (Pb) 28.8 33.3 ug/g 15 40 19-MAY-21 Molybdenum (Mo) 0.43 0.49 ug/g 14 40 19-MAY-21 Nickel (N) 26.3 30.2 ug/g 14 30 19-MAY-21 Selenium (Se) <0.20 <0.20 RPD-NA ug/g N/A 30 19-MAY-21 Silver (Ag) <0.10 <0.10 RPD-NA ug/g N/A 40 19-MAY-21 Thallium (TI) 0.153 0.175 ug/g 14 30 19-MAY-21 Uranium (U) 0.532 0.607 ug/g 13 30 19-MAY-21 Vanadium (Y) 31.6 36.1 ug/g 13 30 19-MAY-21 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Cobalt (Co) 12.1 13.9 ug/g 14 30 19-MAY-21 Copper (Cu) 31.4 35.8 ug/g 13 30 19-MAY-21 Lead (Pb) 28.8 33.3 ug/g 15 40 19-MAY-21 Molybdenum (Mo) 0.43 0.49 ug/g 14 40 19-MAY-21 Nickel (Ni) 26.3 30.2 ug/g 14 30 19-MAY-21 Selenium (Se) <0.20									
Copper (Cu) 31.4 35.8 ug/g 13 30 19-MAY-21 Lead (Pb) 28.8 33.3 ug/g 15 40 19-MAY-21 Molybdenum (Mo) 0.43 0.49 ug/g 14 40 19-MAY-21 Nickel (Ni) 26.3 30.2 ug/g 14 30 19-MAY-21 Selenium (Se) <0.20									
Lead (Pb) 28.8 33.3 ug/g 15 40 19-MAY-21 Molybdenum (Mo) 0.43 0.49 ug/g 14 40 19-MAY-21 Nickel (Ni) 26.3 30.2 ug/g 14 30 19-MAY-21 Selenium (Se) <0.20	Copper (Cu)		31.4	35.8		ug/g			
Molybdenum (Mo) 0.43 0.49 ug/g 14 40 19-MAY-21 Nickel (Ni) 26.3 30.2 ug/g 14 30 19-MAY-21 Selenium (Se) <0.20 <0.20 RPD-NA ug/g N/A 30 19-MAY-21 Silver (Ag) <0.10 <0.10 RPD-NA ug/g N/A 40 19-MAY-21 Thallium (TI) 0.153 0.175 ug/g 14 30 19-MAY-21 Uranium (U) 0.532 0.607 ug/g 13 30 19-MAY-21 Vanadium (V) 31.6 36.1 ug/g 13 30 19-MAY-21 Vanadium (V) 31.6 36.1 ug/g 13 30 19-MAY-21 Vanadium (V) 31.6 36.1 ug/g 13 30 19-MAY-21 Vanadium (V) 31.6 36.1 ug/g 13 30 19-MAY-21 Vanadium (V) 31.6 36.1 ug/g 18 80-120 19-	Lead (Pb)		28.8	33.3		ug/g			
Selenium (Se) <0.20 <0.20 RPD-NA ug/g N/A 30 19-MAY-21 Silver (Ag) <0.10	Molybdenum (Mo)		0.43	0.49		ug/g		40	
Silver (Ag) <0.10 <0.10 RPD-NA ug/g N/A 40 19-MAY-21 Thallium (TI) 0.153 0.175 ug/g 14 30 19-MAY-21 Uranium (U) 0.532 0.607 ug/g 13 30 19-MAY-21 Vanadium (V) 31.6 36.1 ug/g 13 30 19-MAY-21 Zinc (Zn) 115 133 ug/g 15 30 19-MAY-21 WG3537290-4 LCS LCS Antimony (Sb) 103.8 % 80-120 19-MAY-21 Arsenic (As) 100.7 % 80-120 19-MAY-21 Baryllium (Ba) 99.2 % 80-120 19-MAY-21 Beryllium (Be) 96.2 % 80-120 19-MAY-21 Boron (B) 95.5 % 80-120 19-MAY-21 Chromium (Cr) 97.0 % 80-120 19-MAY-21 Copper (Cu) 96.2 % 80-120 19-MAY-21 Molybdenum (Mo)	Nickel (Ni)		26.3	30.2		ug/g	14	30	19-MAY-21
Thallium (TI) 0.153 0.175 ug/g 14 30 19-MAY-21 Uranium (U) 0.532 0.607 ug/g 13 30 19-MAY-21 Vanadium (V) 31.6 36.1 ug/g 13 30 19-MAY-21 Zinc (Zn) 115 133 ug/g 15 30 19-MAY-21 WG3537290-4 LCS LCS Antimony (Sb) 80-120 19-MAY-21 Arsenic (As) 100.7 % 80-120 19-MAY-21 Barium (Ba) 99.2 % 80-120 19-MAY-21 Beryllium (Be) 96.2 % 80-120 19-MAY-21 Boron (B) 95.5 % 80-120 19-MAY-21 Cadmium (Cd) 98.3 % 80-120 19-MAY-21 Chromium (Cr) 97.0 % 80-120 19-MAY-21 Copper (Cu) 98.0 % 80-120 19-MAY-21 Lead (Pb) 100.3 % 80-120 19-MAY-21 <td< td=""><td>Selenium (Se)</td><td></td><td><0.20</td><td><0.20</td><td>RPD-NA</td><td>ug/g</td><td>N/A</td><td>30</td><td>19-MAY-21</td></td<>	Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	19-MAY-21
Uranium (U) 0.532 0.607 ug/g 13 30 19-MAY-21 Vanadium (V) 31.6 36.1 ug/g 13 30 19-MAY-21 Zinc (Zn) 115 133 ug/g 15 30 19-MAY-21 WG3537290-4 LCS Antimony (Sb) 103.8 % 80-120 19-MAY-21 Arsenic (As) 100.7 % 80-120 19-MAY-21 Barium (Ba) 99.2 % 80-120 19-MAY-21 Beryllium (Be) 96.2 % 80-120 19-MAY-21 Boron (B) 95.5 % 80-120 19-MAY-21 Cadmium (Cd) 98.3 % 80-120 19-MAY-21 Chromium (Cr) 97.0 % 80-120 19-MAY-21 Cobalt (Co) 98.0 80-120 19-MAY-21 Copper (Cu) 96.2 % 80-120 19-MAY-21 Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Seleni	Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	19-MAY-21
Vanadium (V) 31.6 36.1 ug/g 13 30 19-MAY-21 Zinc (Zn) 115 133 ug/g 15 30 19-MAY-21 WG3537290-4 LCS Antimony (Sb) 103.8 % 80-120 19-MAY-21 Arsenic (As) 100.7 % 80-120 19-MAY-21 Barium (Ba) 99.2 % 80-120 19-MAY-21 Beryllium (Be) 96.2 % 80-120 19-MAY-21 Boron (B) 95.5 % 80-120 19-MAY-21 Cadmium (Cd) 98.3 % 80-120 19-MAY-21 Chromium (Cr) 97.0 % 80-120 19-MAY-21 Cobalt (Co) 98.0 % 80-120 19-MAY-21 Copper (Cu) 96.2 % 80-120 19-MAY-21 Lead (Pb) 100.3 % 80-120 19-MAY-21 Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Selenium (Se) 98.8	Thallium (TI)		0.153	0.175		ug/g	14	30	19-MAY-21
Zinc (Zn) 115 133 ug/g 15 30 19-MAY-21 WG3537290-4 LCS Antimony (Sb) LCS Antimony (Sb) 103.8 % 80-120 19-MAY-21 Arsenic (As) 100.7 % 80-120 19-MAY-21 Barium (Ba) 99.2 % 80-120 19-MAY-21 Beryllium (Be) 96.2 % 80-120 19-MAY-21 Boron (B) 95.5 % 80-120 19-MAY-21 Cadmium (Cd) 98.3 % 80-120 19-MAY-21 Chromium (Cr) 97.0 % 80-120 19-MAY-21 Cobalt (Co) 98.0 % 80-120 19-MAY-21 Copper (Cu) 96.2 % 80-120 19-MAY-21 Lead (Pb) 100.3 % 80-120 19-MAY-21 Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Nickel (Ni) 96.5 % 80-120 19-MAY-21 Selenium (Se) 98.8 % 80-120 19-MAY-	Uranium (U)		0.532	0.607		ug/g	13	30	19-MAY-21
WG3537290-4 LCS Antimony (Sb) 103.8 % 80-120 19-MAY-21 Arsenic (As) 100.7 % 80-120 19-MAY-21 Barium (Ba) 99.2 % 80-120 19-MAY-21 Beryllium (Be) 96.2 % 80-120 19-MAY-21 Boron (B) 95.5 % 80-120 19-MAY-21 Cadmium (Cd) 98.3 % 80-120 19-MAY-21 Chromium (Cr) 97.0 % 80-120 19-MAY-21 Cobalt (Co) 98.0 % 80-120 19-MAY-21 Copper (Cu) 96.2 % 80-120 19-MAY-21 Lead (Pb) 100.3 % 80-120 19-MAY-21 Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Nickel (Ni) 96.5 % 80-120 19-MAY-21 Selenium (Se) 98.8 % 80-120 19-MAY-21 Silver (Ag) 92.5 % 80-120 19-MAY-21 Thallium (TI) 97.4 % 80-120 19-MAY-21 <td>Vanadium (V)</td> <td></td> <td>31.6</td> <td>36.1</td> <td></td> <td>ug/g</td> <td>13</td> <td>30</td> <td>19-MAY-21</td>	Vanadium (V)		31.6	36.1		ug/g	13	30	19-MAY-21
Antimony (Sb) 103.8 % 80-120 19-MAY-21 Arsenic (As) 100.7 % 80-120 19-MAY-21 Barium (Ba) 99.2 % 80-120 19-MAY-21 Beryllium (Be) 96.2 % 80-120 19-MAY-21 Boron (B) 95.5 % 80-120 19-MAY-21 Cadmium (Cd) 98.3 % 80-120 19-MAY-21 Chromium (Cr) 97.0 % 80-120 19-MAY-21 Cobalt (Co) 98.0 % 80-120 19-MAY-21 Copper (Cu) 96.2 % 80-120 19-MAY-21 Lead (Pb) 100.3 % 80-120 19-MAY-21 Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Nickel (Ni) 96.5 % 80-120 19-MAY-21 Selenium (Se) 98.8 % 80-120 19-MAY-21 Silver (Ag) 92.5 % 80-120 19-MAY-21 Thallium (Tl) 97.4 % 80-120 19-MAY-21	Zinc (Zn)		115	133		ug/g	15	30	19-MAY-21
Arsenic (As) 100.7 % 80-120 19-MAY-21 Barium (Ba) 99.2 % 80-120 19-MAY-21 Beryllium (Be) 96.2 % 80-120 19-MAY-21 Boron (B) 95.5 % 80-120 19-MAY-21 Cadmium (Cd) 98.3 % 80-120 19-MAY-21 Chromium (Cr) 97.0 % 80-120 19-MAY-21 Cobalt (Co) 98.0 % 80-120 19-MAY-21 Copper (Cu) 96.2 % 80-120 19-MAY-21 Lead (Pb) 100.3 % 80-120 19-MAY-21 Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Nickel (Ni) 96.5 % 80-120 19-MAY-21 Selenium (Se) 98.8 % 80-120 19-MAY-21 Silver (Ag) 92.5 % 80-120 19-MAY-21 Thallium (TI) 97.4 % 80-120 19-MAY-21									
Barium (Ba) 99.2 % 80-120 19-MAY-21 Beryllium (Be) 96.2 % 80-120 19-MAY-21 Boron (B) 95.5 % 80-120 19-MAY-21 Cadmium (Cd) 98.3 % 80-120 19-MAY-21 Chromium (Cr) 97.0 % 80-120 19-MAY-21 Cobalt (Co) 98.0 % 80-120 19-MAY-21 Copper (Cu) 96.2 % 80-120 19-MAY-21 Lead (Pb) 100.3 % 80-120 19-MAY-21 Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Nickel (Ni) 96.5 % 80-120 19-MAY-21 Selenium (Se) 98.8 % 80-120 19-MAY-21 Silver (Ag) 92.5 % 80-120 19-MAY-21 Thallium (TI) 97.4 % 80-120 19-MAY-21									
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Boron (B) 95.5 % 80-120 19-MAY-21 Cadmium (Cd) 98.3 % 80-120 19-MAY-21 Chromium (Cr) 97.0 % 80-120 19-MAY-21 Cobalt (Co) 98.0 % 80-120 19-MAY-21 Copper (Cu) 96.2 % 80-120 19-MAY-21 Lead (Pb) 100.3 % 80-120 19-MAY-21 Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Nickel (Ni) 96.5 % 80-120 19-MAY-21 Selenium (Se) 98.8 % 80-120 19-MAY-21 Silver (Ag) 92.5 % 80-120 19-MAY-21 Thallium (TI) 97.4 % 80-120 19-MAY-21									
Cadmium (Cd) 98.3 % 80-120 19-MAY-21 Chromium (Cr) 97.0 % 80-120 19-MAY-21 Cobalt (Co) 98.0 % 80-120 19-MAY-21 Copper (Cu) 96.2 % 80-120 19-MAY-21 Lead (Pb) 100.3 % 80-120 19-MAY-21 Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Nickel (Ni) 96.5 % 80-120 19-MAY-21 Selenium (Se) 98.8 % 80-120 19-MAY-21 Silver (Ag) 92.5 % 80-120 19-MAY-21 Thallium (TI) 97.4 % 80-120 19-MAY-21									
Chromium (Cr) 97.0 % 80-120 19-MAY-21 Cobalt (Co) 98.0 % 80-120 19-MAY-21 Copper (Cu) 96.2 % 80-120 19-MAY-21 Lead (Pb) 100.3 % 80-120 19-MAY-21 Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Nickel (Ni) 96.5 % 80-120 19-MAY-21 Selenium (Se) 98.8 % 80-120 19-MAY-21 Silver (Ag) 92.5 % 80-120 19-MAY-21 Thallium (Tl) 97.4 % 80-120 19-MAY-21									
Cobalt (Co) 98.0 % 80-120 19-MAY-21 Copper (Cu) 96.2 % 80-120 19-MAY-21 Lead (Pb) 100.3 % 80-120 19-MAY-21 Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Nickel (Ni) 96.5 % 80-120 19-MAY-21 Selenium (Se) 98.8 % 80-120 19-MAY-21 Silver (Ag) 92.5 % 80-120 19-MAY-21 Thallium (Tl) 97.4 % 80-120 19-MAY-21									
Copper (Cu) 96.2 % 80-120 19-MAY-21 Lead (Pb) 100.3 % 80-120 19-MAY-21 Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Nickel (Ni) 96.5 % 80-120 19-MAY-21 Selenium (Se) 98.8 % 80-120 19-MAY-21 Silver (Ag) 92.5 % 80-120 19-MAY-21 Thallium (Tl) 97.4 % 80-120 19-MAY-21									
Lead (Pb)100.3%80-12019-MAY-21Molybdenum (Mo)99.3%80-12019-MAY-21Nickel (Ni)96.5%80-12019-MAY-21Selenium (Se)98.8%80-12019-MAY-21Silver (Ag)92.5%80-12019-MAY-21Thallium (Tl)97.4%80-12019-MAY-21									
Molybdenum (Mo) 99.3 % 80-120 19-MAY-21 Nickel (Ni) 96.5 % 80-120 19-MAY-21 Selenium (Se) 98.8 % 80-120 19-MAY-21 Silver (Ag) 92.5 % 80-120 19-MAY-21 Thallium (TI) 97.4 % 80-120 19-MAY-21									
Nickel (Ni) 96.5 % 80-120 19-MAY-21 Selenium (Se) 98.8 % 80-120 19-MAY-21 Silver (Ag) 92.5 % 80-120 19-MAY-21 Thallium (TI) 97.4 % 80-120 19-MAY-21	` ,								
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Silver (Ag) 92.5 % 80-120 19-MAY-21 Thallium (TI) 97.4 % 80-120 19-MAY-21									
Thallium (TI) 97.4 % 80-120 19-MAY-21									
Uranium (U) 96.5 % 80-120 19-MAY-21	Thallium (TI)			97.4		%			
	Uranium (U)			96.5		%		80-120	19-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result (Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5459804								
WG3537290-4 LCS Vanadium (V)			100.9		%		80-120	19-MAY-21
Zinc (Zn)			96.0		%		80-120	19-MAY-21
WG3537290-1 MB Antimony (Sb)			<0.10		mg/kg		0.1	19-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	19-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	19-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	19-MAY-21
Boron (B)			<5.0		mg/kg		5	19-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	19-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	19-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	19-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	19-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	19-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	19-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	19-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	19-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	19-MAY-21
Thallium (TI)			<0.050		mg/kg		0.05	19-MAY-21
Uranium (U)			<0.050		mg/kg		0.05	19-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	19-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	19-MAY-21
MOISTURE-WT	Soil							
Batch R5458097								
WG3535337-3 DUP % Moisture		L2586911-2 4.83	4.75		%	1.7	20	16-MAY-21
WG3535337-2 LCS % Moisture			98.9		%		90-110	16-MAY-21
WG3535337-1 MB % Moisture			-0.2E		%		0.25	40 MAY 04
			<0.25		70		0.25	16-MAY-21
PAH-511-WT	Soil							
Batch R5459865		WC2E26067 F						
WG3536067-3 DUP 1-Methylnaphthalene		WG3536067-5 0.064	0.048		ug/g	27	40	19-MAY-21
2-Methylnaphthalene		0.069	0.045	J	ug/g	0.024	0.06	19-MAY-21
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Workorder: L2586911 Report Date: 20-MAY-21 Page 8 of 16

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5459865								
WG3536067-3 DUP		WG3536067-5						
Acenaphthene		0.126	0.111		ug/g	13	40	19-MAY-21
Acenaphthylene		<0.050	<0.050	RPD-NA	ug/g ,	N/A	40	19-MAY-21
Anthracene		0.065	0.056		ug/g	15	40	19-MAY-21
Benzo(a)anthracene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Benzo(a)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Benzo(b&j)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Benzo(g,h,i)perylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Benzo(k)fluoranthene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Chrysene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Dibenz(a,h)anthracene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Fluoranthene		0.086	0.080		ug/g	6.4	40	19-MAY-21
Fluorene		0.059	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Indeno(1,2,3-cd)pyrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Naphthalene		0.112	0.069	DUP-H	ug/g	47	40	19-MAY-21
Phenanthrene		0.207	0.187		ug/g	10	40	19-MAY-21
Pyrene		0.111	0.104		ug/g	6.1	40	19-MAY-21
WG3536067-2 LCS 1-Methylnaphthalene			93.1		%		50-140	19-MAY-21
2-Methylnaphthalene			89.9		%		50-140	19-MAY-21
Acenaphthene			89.0		%		50-140	19-MAY-21
Acenaphthylene			84.5		%		50-140	19-MAY-21
Anthracene			76.1		%		50-140	19-MAY-21
Benzo(a)anthracene			86.5		%		50-140	19-MAY-21
Benzo(a)pyrene			74.6		%		50-140	19-MAY-21
Benzo(b&j)fluoranthene			84.9		%		50-140	19-MAY-21
Benzo(g,h,i)perylene			72.8		%		50-140	19-MAY-21
Benzo(k)fluoranthene			79.8		%		50-140	19-MAY-21
Chrysene			87.8		%		50-140	19-MAY-21
Dibenz(a,h)anthracene			71.2		%		50-140	19-MAY-21
Fluoranthene			84.3		%		50-140	19-MAY-21
Fluorene			86.8		%		50-140	19-MAY-21
Indeno(1,2,3-cd)pyrene			76.9		%		50-140	19-MAY-21
Naphthalene			87.4		%		50-140	19-MAY-21
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Workorder: L2586911 Report Date: 20-MAY-21 Page 9 of 16

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5459865								
WG3536067-2 LCS			07.0		0/			
Phenanthrene			87.0		%		50-140	19-MAY-21
Pyrene			84.1		%		50-140	19-MAY-21
WG3536067-1 MB 1-Methylnaphthalene			<0.030		ug/g		0.03	19-MAY-21
2-Methylnaphthalene			< 0.030		ug/g		0.03	19-MAY-21
Acenaphthene			< 0.050		ug/g		0.05	19-MAY-21
Acenaphthylene			< 0.050		ug/g		0.05	19-MAY-21
Anthracene			<0.050		ug/g		0.05	19-MAY-21
Benzo(a)anthracene			<0.050		ug/g		0.05	19-MAY-21
Benzo(a)pyrene			<0.050		ug/g		0.05	19-MAY-21
Benzo(b&j)fluoranthene			< 0.050		ug/g		0.05	19-MAY-21
Benzo(g,h,i)perylene			< 0.050		ug/g		0.05	19-MAY-21
Benzo(k)fluoranthene			< 0.050		ug/g		0.05	19-MAY-21
Chrysene			< 0.050		ug/g		0.05	19-MAY-21
Dibenz(a,h)anthracene			< 0.050		ug/g		0.05	19-MAY-21
Fluoranthene			< 0.050		ug/g		0.05	19-MAY-21
Fluorene			< 0.050		ug/g		0.05	19-MAY-21
Indeno(1,2,3-cd)pyrene			< 0.050		ug/g		0.05	19-MAY-21
Naphthalene			<0.013		ug/g		0.013	19-MAY-21
Phenanthrene			<0.046		ug/g		0.046	19-MAY-21
Pyrene			< 0.050		ug/g		0.05	19-MAY-21
Surrogate: 2-Fluorobiph	enyl		80.7		%		50-140	19-MAY-21
Surrogate: d14-Terpher	nyl		78.1		%		50-140	19-MAY-21
WG3536067-4 MS		WG3536067-5						
1-Methylnaphthalene			106.5		%		50-140	19-MAY-21
2-Methylnaphthalene			104.6		%		50-140	19-MAY-21
Acenaphthene			106.7		%		50-140	19-MAY-21
Acenaphthylene			92.9		%		50-140	19-MAY-21
Anthracene			87.2		%		50-140	19-MAY-21
Benzo(a)anthracene			100.3		%		50-140	19-MAY-21
Benzo(a)pyrene			84.1		%		50-140	19-MAY-21
Benzo(b&j)fluoranthene			96.3		%		50-140	19-MAY-21
Benzo(g,h,i)perylene			83.6		%		50-140	19-MAY-21
Benzo(k)fluoranthene			90.5		%		50-140	19-MAY-21



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MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PAH-511-WT	Soil							
Batch R5459865								
WG3536067-4 MS		WG3536067-5	07.7		0/			
Chrysene			97.7		%		50-140	19-MAY-21
Dibenz(a,h)anthracene			82.0				50-140	19-MAY-21
Fluoranthene			100.4		%		50-140	19-MAY-21
Fluorene			101.3		%		50-140	19-MAY-21
Indeno(1,2,3-cd)pyrene			81.1		%		50-140	19-MAY-21
Naphthalene			103.6		%		50-140	19-MAY-21
Phenanthrene			107.2		%		50-140	19-MAY-21
Pyrene			101.2		%		50-140	19-MAY-21
PH-WT	Soil							
Batch R5459441								
WG3536350-1 DUP pH		L2587552-4 7.48	7.47		pH units	0.01	0.2	40 MAY 04
		7.40	7.47	J	pri units	0.01	0.3	18-MAY-21
WG3536695-1 LCS pH			6.96		pH units		6.9-7.1	18-MAY-21
SAR-R511-WT	Soil							
Batch R5459178								
WG3536411-4 DUP		WG3536411-3 18.1	18.1		ma/l	0.0	20	40 MAY 04
Calcium (Ca) Sodium (Na)		2.48	2.49		mg/L	0.0	30	18-MAY-21
					mg/L	0.4	30	18-MAY-21
Magnesium (Mg)		0.90	0.91		mg/L	1.1	30	18-MAY-21
WG3536411-2 IRM Calcium (Ca)		WT SAR4	88.5		%		70-130	18-MAY-21
Sodium (Na)			91.6		%		70-130	18-MAY-21
Magnesium (Mg)			89.7		%		70-130	18-MAY-21
WG3536411-5 LCS			001.		,,		70 100	10 WAT 21
Calcium (Ca)			106.3		%		80-120	18-MAY-21
Sodium (Na)			101.4		%		80-120	18-MAY-21
Magnesium (Mg)			101.0		%		80-120	18-MAY-21
WG3536411-1 MB								
Calcium (Ca)			<0.50		mg/L		0.5	18-MAY-21
Sodium (Na)			<0.50		mg/L		0.5	18-MAY-21
Magnesium (Mg)			<0.50		mg/L		0.5	18-MAY-21
VOC-511-HS-WT	Soil							



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5459	9722							
	UP	WG3534616-			,			
1,1,1,2-Tetrachlord		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
1,1,2,2-Tetrachlord		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
1,1,1-Trichloroetha		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
1,1,2-Trichloroetha		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
1,1-Dichloroethyler	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
1,2-Dibromoethane	9	<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
1,2-Dichlorobenzer	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
1,2-Dichloroethane	•	<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
1,2-Dichloropropar	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
1,3-Dichlorobenzer	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
1,4-Dichlorobenzer	ne	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	19-MAY-21
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	19-MAY-21
Bromodichloromet	hane	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Bromoform		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Bromomethane		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Carbon tetrachloric	le	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Chlorobenzene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Chloroform		< 0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
cis-1,2-Dichloroeth	ylene	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
cis-1,3-Dichloropro	pene	<0.030	< 0.030	RPD-NA	ug/g	N/A	40	19-MAY-21
Dibromochloromet	hane	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Dichlorodifluorome	thane	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	19-MAY-21
n-Hexane		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Methylene Chloride	•	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
MTBE		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	19-MAY-21
Methyl Ethyl Keton	е	<0.50	<0.50	RPD-NA	ug/g	N/A	40	19-MAY-21
Methyl Isobutyl Ket	one	<0.50	<0.50	RPD-NA	ug/g	N/A	40	19-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-MAY-21
Styrene		<0.050	<0.050		ug/g			19-MAY-21
					•			



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R54597	22							
WG3534616-4 DUI	•	WG3534616						
Styrene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Tetrachloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	19-MAY-21
trans-1,2-Dichloroeth		<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
trans-1,3-Dichloropro	pene	<0.030	<0.030	RPD-NA	ug/g	N/A	40	19-MAY-21
Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	19-MAY-21
Trichlorofluorometha	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	19-MAY-21
Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-MAY-21
WG3534616-2 LCS			95.4		%		60-130	19-MAY-21
1,1,2,2-Tetrachloroet			90.0		%		60-130	19-MAY-21
1,1,1-Trichloroethane			111.6		%		60-130	19-MAY-21
1,1,2-Trichloroethane			92.0		%		60-130	19-MAY-21
1,1-Dichloroethane			115.8		%		60-130	19-MAY-21
1,1-Dichloroethylene			116.8		%		60-130	19-MAY-21
1,2-Dibromoethane			86.9		%		70-130	19-MAY-21
1,2-Dichlorobenzene			107.8		%		70-130	19-MAY-21
1,2-Dichloroethane			116.0		%		60-130	19-MAY-21
1,2-Dichloropropane			124.2		%		70-130	19-MAY-21
1,3-Dichlorobenzene			108.5		%		70-130	19-MAY-21
1,4-Dichlorobenzene			111.8		%		70-130	19-MAY-21
Acetone			122.2		%		60-140	19-MAY-21
Benzene			121.6		%		70-130	19-MAY-21
Bromodichlorometha	ne		131.3		%		50-140	19-MAY-21
Bromoform			97.7		%		70-130	19-MAY-21
Bromomethane			108.2		%		50-140	19-MAY-21
Carbon tetrachloride			122.8		%		70-130	19-MAY-21
Chlorobenzene			101.5		%		70-130	19-MAY-21
Chloroform			127.3		%		70-130	19-MAY-21
cis-1,2-Dichloroethyle	ene		106.7		%		70-130	19-MAY-21
cis-1,3-Dichloroprope	ne		114.9		%		70-130	19-MAY-21
Dibromochlorometha	ne		91.2		%		60-130	19-MAY-21
Dichlorodifluorometha	ane		88.9		%		50-140	19-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5459722								
WG3534616-2 LCS			00.0		0/			
Ethylbenzene			93.8		%		70-130	19-MAY-21
n-Hexane			116.8	1 00 110	%		70-130	19-MAY-21
Methylene Chloride			133.6	LCS-ND	%		70-130	19-MAY-21
MTBE			111.9		%		70-130	19-MAY-21
m+p-Xylenes			103.8		%		70-130	19-MAY-21
Methyl Ethyl Ketone			109.9		%		60-140	19-MAY-21
Methyl Isobutyl Ketone			104.1		%		60-140	19-MAY-21
o-Xylene			99.3		%		70-130	19-MAY-21
Styrene			93.2		%		70-130	19-MAY-21
Tetrachloroethylene			97.7		%		60-130	19-MAY-21
Toluene			96.6		%		70-130	19-MAY-21
trans-1,2-Dichloroethyle			131.6	LCS-ND	%		60-130	19-MAY-21
trans-1,3-Dichloroprope	ene		93.0		%		70-130	19-MAY-21
Trichloroethylene			119.3		%		60-130	19-MAY-21
Trichlorofluoromethane			114.2		%		50-140	19-MAY-21
Vinyl chloride			123.7		%		60-140	19-MAY-21
WG3534616-1 MB			-O OEO		/~		0.05	40.140./.04
1,1,1,2-Tetrachloroetha			<0.050		ug/g		0.05	19-MAY-21
1,1,2,2-Tetrachloroetha	ine		<0.050		ug/g		0.05	19-MAY-21
1,1,1-Trichloroethane			<0.050		ug/g		0.05	19-MAY-21
1,1,2-Trichloroethane			<0.050		ug/g		0.05	19-MAY-21
1,1-Dichloroethane			<0.050		ug/g		0.05	19-MAY-21
1,1-Dichloroethylene			<0.050		ug/g		0.05	19-MAY-21
1,2-Dibromoethane			<0.050		ug/g		0.05	19-MAY-21
1,2-Dichlorobenzene			<0.050		ug/g		0.05	19-MAY-21
1,2-Dichloroethane			<0.050		ug/g		0.05	19-MAY-21
1,2-Dichloropropane			<0.050		ug/g		0.05	19-MAY-21
1,3-Dichlorobenzene			<0.050		ug/g		0.05	19-MAY-21
1,4-Dichlorobenzene			<0.050		ug/g		0.05	19-MAY-21
Acetone			<0.50		ug/g		0.5	19-MAY-21
Benzene			<0.0068		ug/g		0.0068	19-MAY-21
Bromodichloromethane	:		<0.050		ug/g		0.05	19-MAY-21
Bromoform			<0.050		ug/g		0.05	19-MAY-21
Bromomethane			<0.050		ug/g		0.05	19-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5459722								
WG3534616-1 MB							0.05	
Carbon tetrachloride			<0.050		ug/g		0.05	19-MAY-21
Chlorobenzene			<0.050		ug/g		0.05	19-MAY-21
Chloroform	_		<0.050		ug/g		0.05	19-MAY-21
cis-1,2-Dichloroethylene			<0.050		ug/g		0.05	19-MAY-21
cis-1,3-Dichloropropene			<0.030		ug/g		0.03	19-MAY-21
Dibromochloromethane			<0.050		ug/g		0.05	19-MAY-21
Dichlorodifluoromethan	e		<0.050		ug/g		0.05	19-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	19-MAY-21
n-Hexane			<0.050		ug/g		0.05	19-MAY-21
Methylene Chloride			<0.050		ug/g		0.05	19-MAY-21
MTBE			<0.050		ug/g		0.05	19-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03	19-MAY-21
Methyl Ethyl Ketone			<0.50		ug/g		0.5	19-MAY-21
Methyl Isobutyl Ketone			<0.50		ug/g		0.5	19-MAY-21
o-Xylene			<0.020		ug/g		0.02	19-MAY-21
Styrene			< 0.050		ug/g		0.05	19-MAY-21
Tetrachloroethylene			< 0.050		ug/g		0.05	19-MAY-21
Toluene			<0.080		ug/g		0.08	19-MAY-21
trans-1,2-Dichloroethyle	ene		< 0.050		ug/g		0.05	19-MAY-21
trans-1,3-Dichloroprope	ene		< 0.030		ug/g		0.03	19-MAY-21
Trichloroethylene			<0.010		ug/g		0.01	19-MAY-21
Trichlorofluoromethane			<0.050		ug/g		0.05	19-MAY-21
Vinyl chloride			<0.020		ug/g		0.02	19-MAY-21
Surrogate: 1,4-Difluorob	penzene		114.1		%		50-140	19-MAY-21
Surrogate: 4-Bromofluo	robenzene		89.6		%		50-140	19-MAY-21
WG3534616-5 MS		WG3534616-3						
1,1,1,2-Tetrachloroetha			113.9		%		50-140	19-MAY-21
1,1,2,2-Tetrachloroetha	ne		106.1		%		50-140	19-MAY-21
1,1,1-Trichloroethane			110.9		%		50-140	19-MAY-21
1,1,2-Trichloroethane			105.4		%		50-140	19-MAY-21
1,1-Dichloroethane			95.7		%		50-140	19-MAY-21
1,1-Dichloroethylene			105.3		%		50-140	19-MAY-21
1,2-Dibromoethane			102.5		%		50-140	19-MAY-21
1,2-Dichlorobenzene			111.7		%		50-140	19-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5459722								
WG3534616-5 MS		WG3534616-			0.4			
1,2-Dichloroethane			104.3		%		50-140	19-MAY-21
1,2-Dichloropropane			109.5		%		50-140	19-MAY-21
1,3-Dichlorobenzene			114.1		%		50-140	19-MAY-21
1,4-Dichlorobenzene			107.9		%		50-140	19-MAY-21
Acetone			111.2		%		50-140	19-MAY-21
Benzene			105.7		%		50-140	19-MAY-21
Bromodichloromethane			113.1		%		50-140	19-MAY-21
Bromoform			106.7		%		50-140	19-MAY-21
Bromomethane			89.0		%		50-140	19-MAY-21
Carbon tetrachloride			106.9		%		50-140	19-MAY-21
Chlorobenzene			112.6		%		50-140	19-MAY-21
Chloroform			112.4		%		50-140	19-MAY-21
cis-1,2-Dichloroethylene	9		102.3		%		50-140	19-MAY-21
cis-1,3-Dichloropropene)		82.3		%		50-140	19-MAY-21
Dibromochloromethane			98.7		%		50-140	19-MAY-21
Dichlorodifluoromethan	е		101.9		%		50-140	19-MAY-21
Ethylbenzene			106.7		%		50-140	19-MAY-21
n-Hexane			101.7		%		50-140	19-MAY-21
Methylene Chloride			110.2		%		50-140	19-MAY-21
MTBE			111.7		%		50-140	19-MAY-21
m+p-Xylenes			108.5		%		50-140	19-MAY-21
Methyl Ethyl Ketone			92.7		%		50-140	19-MAY-21
Methyl Isobutyl Ketone			95.9		%		50-140	19-MAY-21
o-Xylene			114.0		%		50-140	19-MAY-21
Styrene			107.5		%		50-140	19-MAY-21
Tetrachloroethylene			101.4		%		50-140	19-MAY-21
Toluene			104.9		%		50-140	19-MAY-21
trans-1,2-Dichloroethyle	ene		105.7		%		50-140	19-MAY-21
trans-1,3-Dichloroprope	ne		75.3		%		50-140	19-MAY-21
Trichloroethylene			104.4		%		50-140	19-MAY-21
Trichlorofluoromethane			105.4		%		50-140	19-MAY-21
Vinyl chloride			110.1		%		50-140	19-MAY-21

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MTE CONSULTANTS INC. (Kitchener) Client: Page 16 of 16

520 BINGEMANS CENTRE DRIVE KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Legend:

ALS Control Limit (Data Quality Objectives)

DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

Average Desorption Efficiency ADE

Method Blank MB

Internal Reference Material IRM CRM Certified Reference Material CCV Continuing Calibration Verification CVS Calibration Verification Standard LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
DUP-H	Duplicate results outside ALS DQO, due to sample heterogeneity.
J	Duplicate results and limits are expressed in terms of absolute difference.
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
LCS-ND	Lab Control Sample recovery was slightly outside ALS DQO. Reported non-detect results for associated samples were unaffected.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

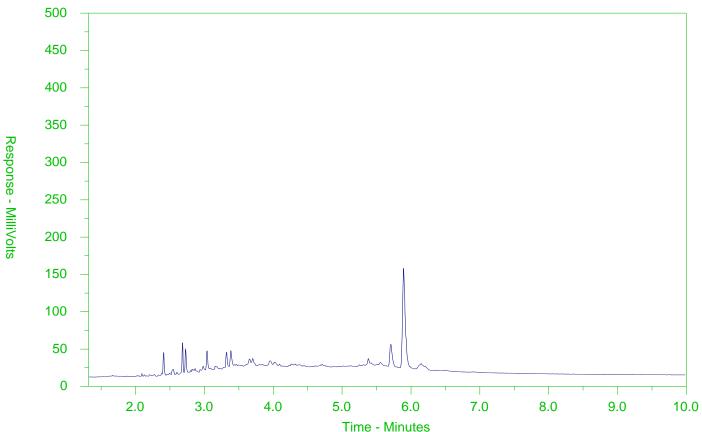
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



ALS Sample ID: L2586911-2

Client Sample ID: BH122-21 SS2 2.5-4.5FT



← -F2-	→ ←	—F3 → ← F4—	→			
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
Gasolin	Gasoline →					
←	← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

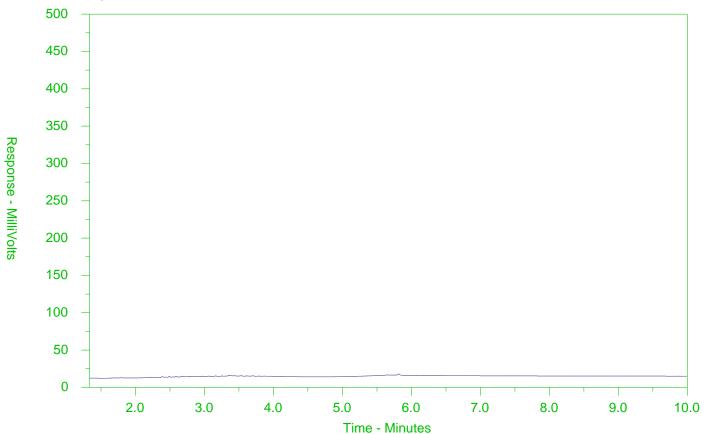
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2586911-4

Client Sample ID: BH122-21 SS4 7.5-9.5FT



← -F2-	→←	_F3 → F4-	→				
nC10	nC16	nC34	nC50				
174°C	287°C	481°C	575°C				
346°F	549°F	898°F	1067°F				
Gasolin	Gasoline → Motor Oils/Lube Oils/Grease →						
•	← Diesel/Jet Fuels →						

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

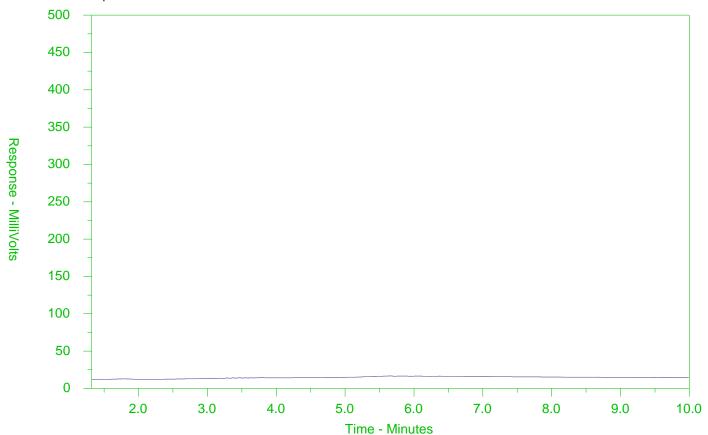
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2586911-7

Client Sample ID: BH126-21 SS2 2.5-4.5FT



← -F2-	→←	_F3 → F4-	→				
nC10	nC16	nC34	nC50				
174°C	287°C	481°C	575°C				
346°F	549°F	898°F	1067°F				
Gasolin	Gasoline → Motor Oils/Lube Oils/Grease →						
•	← Diesel/Jet Fuels →						

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

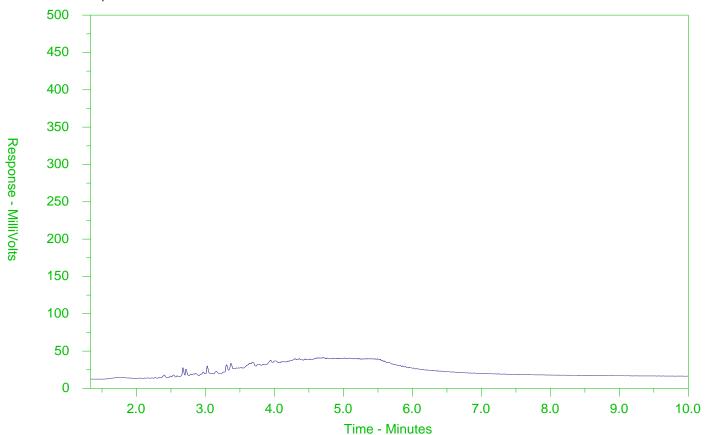
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2586911-12

Client Sample ID: BH123-21 GS1B 18"-2.5FT



← -F2-	→ ←	—F3 → ← F4—	→			
nC10	nC16	nC34	nC50			
174°C	287°C	481°C	575°C			
346°F	549°F	898°F	1067°F			
Gasolin	Gasoline →					
←	← Diesel/Jet Fuels →					

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

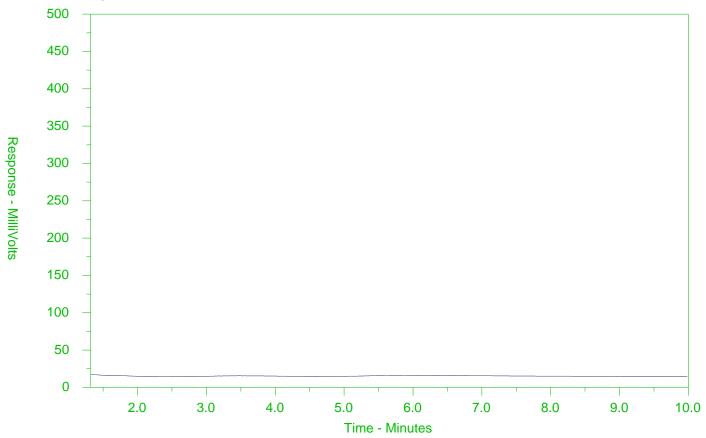
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2586911-20

Client Sample ID: BH125-21 SS3 5-7FT



← -F2-	→←	_F3 → F4-	→				
nC10	nC16	nC34	nC50				
174°C	287°C	481°C	575°C				
346°F	549°F	898°F	1067°F				
Gasolin	Gasoline → Motor Oils/Lube Oils/Grease →						
•	← Diesel/Jet Fuels →						

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



Chain of Custody (COC) / Analytical **Request Form**

L2586911-COFC

COC Number: 17 -

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	www.alsglobal.co				7-				_						Si	te	E	$, \mathcal{I}$, F,	H		
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ALS Sample #	Sa	mple Identification	n and/or Coord	dinates		Date	Time	T	∤≅	E	-	S S	l	& EC			F2 to			1 1	AM	5
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REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION



Chain of Custody (COC) / Analytical **Request Form**

L2586911-COFC

Canada Toll Free: 1 800 668 9878 www.aisgiobal.com

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Site	E,	I,	F,	H

Report To	Contact and	company name	below will ap	pear on the fin	al report		Repo	ort Forma	t / Distribution	Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)							1)									
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Contact:	Jen Lambke					Quality Control	(QC) Re _l	port with F	Report 🕗 YES	□ NO	> Î	4 day	[P4-	20%]			NCY	1 Bu	sines	s day	(E - 10	0%]				
Phone:	519-502-3268					☑Compare Result	s to Criteria	a on Report	provide details below	v if box checked	PORIT Pess D	3 day	[P3-	25%]			ERGE	Same	Day.	Week	end or	Statu	tory he	olidav I	E2 -200%	_
	Company address to	below will app	ear on the fir	nal report		Select Distributi	ion: [Z EMAIL	MAIL F	AX	1 4	2 day	[P2-	50%]			3	(Labo	rator	y oper	ning fe	es ma	y apply	y)]		
Street:	520 Bingemans C	Centre Drive				Email 1 or Fax	ilambke	@mte85.c	<u>com</u>			Date and	Time	Requi	ed for	all E&	P TATs	:			o	ld-mmi	n-yy h	h:mm		
City/Province:	Kitchener					Email 2	jball@m	te85.com			For te	sts that ca	n not l	be perfo	rmed a	cordin	g to the	service	level se	lected, y	ou will be	e contact	ed.			
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MTE CONSULTANTS INC. (Kitchener)

ATTN: JEN LAMBKE

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Date Received: 14-MAY-21

Report Date: 25-MAY-21 10:40 (MT)

Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2587890

Project P.O. #: NOT SUBMITTED

Job Reference: 46995-100

C of C Numbers: Legal Site Desc:

Comments: ADDITIONAL 17-MAY-21 13:03

Emily Hansen Account Manager

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

ADDRESS: 60 Northland Road, Unit 1, Waterloo, ON N2V 2B8 Canada | Phone: +1 519 886 6910 | Fax: +1 519 886 9047

ALS CANADA LTD Part of the ALS Group An ALS Limited Company





ANALYTICAL GUIDELINE REPORT

L2587890 CONTD....

Page 2 of 9 5-MAY-21 10:40 (MT)

46995-100							2	5-MAY-21 10:40 (MT)
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed	1	Guidelin	
L2587890-3 BH130-21 SS2 2.5-3.5FT								
Sampled By: MATT D on 13-MAY-21 @ 09:35								
Matrix: SOIL						#1	#2	
Physical Tests								
Conductivity	1.33		0.0040	mS/cm	21-MAY-21	*0.57	1.4	
% Moisture	4.01		0.25	%	19-MAY-21			
Saturated Paste Extractables								
SAR	57.5	SAR:M	0.10	SAR	21-MAY-21	*2.4	*12	
Calcium (Ca)	1.48		0.50	mg/L	21-MAY-21			
Magnesium (Mg)	< 0.50		0.50	mg/L	21-MAY-21			
Sodium (Na)	254		0.50	mg/L	21-MAY-21			
Volatile Organic Compounds								
Benzene	<0.0068		0.0068	ug/g	25-MAY-21	0.02	0.034	
Ethylbenzene	<0.018		0.018	ug/g	25-MAY-21	0.05	1.9	
Toluene	<0.080		0.080	ug/g	25-MAY-21	0.2	7.8	
o-Xylene	< 0.020		0.020	ug/g	25-MAY-21			
m+p-Xylenes	< 0.030		0.030	ug/g	25-MAY-21			
Xylenes (Total)	< 0.050		0.050	ug/g	25-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene	101.5		50-140	%	25-MAY-21			
Surrogate: 1,4-Difluorobenzene	102.8		50-140	%	25-MAY-21			
Hydrocarbons								
F1 (C6-C10)	<5.0		5.0	ug/g	25-MAY-21	25	25	
F1-BTEX	<5.0		5.0	ug/g	25-MAY-21	25	25	
F2 (C10-C16)	<10		10	ug/g	19-MAY-21	10	26	
F3 (C16-C34)	<50		50	ug/g	19-MAY-21	240	1700	
F4 (C34-C50)	<50		50	ug/g	19-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	25-MAY-21			
Chrom. to baseline at nC50	YES			No Unit	19-MAY-21			
Surrogate: 2-Bromobenzotrifluoride	83.6		60-140	%	19-MAY-21			
Surrogate: 3,4-Dichlorotoluene	92.6		60-140	%	25-MAY-21			
Polychlorinated Biphenyls								
Aroclor 1242	<0.010		0.010	ug/g	20-MAY-21			
Aroclor 1248	<0.010		0.010	ug/g	20-MAY-21			
Aroclor 1254	<0.010		0.010	ug/g	20-MAY-21			
Aroclor 1260	<0.010		0.010	ug/g	20-MAY-21			
Total PCBs	<0.020		0.020	ug/g	20-MAY-21	0.3	0.78	
Surrogate: d14-Terphenyl	112.6		60-140	%	20-MAY-21			
L2587890-5 BH131-21 SS2 2.5-3.5FT								
Sampled By: MATT D on 13-MAY-21 @ 10:30								
Matrix: SOIL						#1	#2	
Physical Tests								
% Moisture	3.82		0.25	%	19-MAY-21			
pH	8.20		0.10	pH units	18-MAY-21			
Metals				'				
Antimony (Sb)	<1.0		1.0	ug/g	21-MAY-21	1.3	40	
Arsenic (As)	2.7		1.0	ug/g	21-MAY-21	18	18	
Barium (Ba)	25.9		1.0	ug/g	21-MAY-21	220	670	
Beryllium (Be)	<0.50		0.50	ug/g	21-MAY-21	2.5	8	
Boron (B)	8.5		5.0	ug/g	21-MAY-21	36	120	
` '		1	_	3.3	1	1		

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

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



ANALYTICAL GUIDELINE REPORT

L2587890 CONTD....

Page 3 of 9 25-MAY-21 10:40 (MT)

46993-100 25-MAY-21 10:40 (MT) Sample Details										
Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelin	e Limits		
L2587890-5 BH131-21 SS2 2.5-3.5FT										
Sampled By: MATT D on 13-MAY-21 @ 10:30										
Matrix: SOIL						#1	#2			
Metals										
Cadmium (Cd)	<0.50		0.50	ug/g	21-MAY-21	1.2	1.9			
Chromium (Cr)	9.4		1.0	ug/g	21-MAY-21	70	160			
Cobalt (Co)	3.3		1.0	ug/g ug/g	21-MAY-21	21	80			
Copper (Cu)	13.0		1.0	ug/g ug/g	21-MAY-21	92	230			
Lead (Pb)	29.4		1.0	ug/g	21-MAY-21	120	120			
Molybdenum (Mo)	<1.0		1.0	ug/g	21-MAY-21	2	40			
Nickel (Ni)	7.1		1.0	ug/g	21-MAY-21	82	270			
Selenium (Se)	<1.0		1.0	ug/g	21-MAY-21	1.5	5.5			
Silver (Ag)	<0.20		0.20	ug/g	21-MAY-21	0.5	40			
Thallium (TI)	<0.50		0.50	ug/g	21-MAY-21	1	3.3			
Uranium (U)	<1.0		1.0	ug/g	21-MAY-21	2.5	33			
Vanadium (V)	17.1		1.0	ug/g	21-MAY-21	86	86			
Zinc (Zn)	60.4		5.0	ug/g	21-MAY-21	290	340			
Volatile Organic Compounds				3.3						
Benzene	0.0237		0.0068	ug/g	25-MAY-21	*0.02	0.034			
Ethylbenzene	<0.018		0.018	ug/g	25-MAY-21	0.05	1.9			
Toluene	<0.080		0.080	ug/g	25-MAY-21	0.2	7.8			
o-Xylene	<0.020		0.020	ug/g	25-MAY-21					
m+p-Xylenes	< 0.030		0.030	ug/g	25-MAY-21					
Xylenes (Total)	< 0.050		0.050	ug/g	25-MAY-21	0.05	3			
Surrogate: 4-Bromofluorobenzene	100.1		50-140	%	25-MAY-21					
Surrogate: 1,4-Difluorobenzene	102.2		50-140	%	25-MAY-21					
Hydrocarbons										
F1 (C6-C10)	<5.0		5.0	ug/g	25-MAY-21	25	25			
F1-BTEX	<5.0		5.0	ug/g	25-MAY-21	25	25			
F2 (C10-C16)	<10		10	ug/g	19-MAY-21	10	26			
F3 (C16-C34)	<50		50	ug/g	19-MAY-21	240	1700			
F4 (C34-C50)	126		50	ug/g	19-MAY-21	*120	3300			
F4G-SG (GHH-Silica)	670		250	ug/g	20-MAY-21	*120	3300			
Total Hydrocarbons (C6-C50)	126		72	ug/g	25-MAY-21					
Chrom. to baseline at nC50	NO			No Unit	19-MAY-21					
Surrogate: 2-Bromobenzotrifluoride	85.6		60-140	%	19-MAY-21					
Surrogate: 3,4-Dichlorotoluene	102.4		60-140	%	25-MAY-21					
L2587890-7 BH132-21 SS2 2.5-4.5FT										
Sampled By: MATT D on 13-MAY-21 @ 11:10										
Matrix: SOIL						#1	#2			
Physical Tests										
% Moisture	5.44		0.25	%	19-MAY-21					
Metals	÷									
Antimony (Sb)	1.0		1.0	ug/g	21-MAY-21	1.3	40			
Arsenic (As)	2.1		1.0	ug/g	21-MAY-21	18	18			
Barium (Ba)	26.3		1.0	ug/g	21-MAY-21	220	670			
Beryllium (Be)	< 0.50		0.50	ug/g	21-MAY-21	2.5	8			
Boron (B)	<5.0		5.0	ug/g	21-MAY-21	36	120			
Cadmium (Cd)	< 0.50		0.50	ug/g	21-MAY-21	1.2	1.9			
** Detection Limit for regult exceeds Cuideline Limit										

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

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



ANALYTICAL GUIDELINE REPORT

L2587890 CONTD....

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Sample Details Grouping Analyte Result Qualifier D.L. Units Analyzed Guideline Limits	
L2587890-7 BH132-21 SS2 2.5-4.5FT	
Sampled By: MATT D on 13-MAY-21 @ 11:10	
Matrix: SOIL #1 #2	
Metals	
Chromium (Cr) 10.1 1.0 ug/g 21-MAY-21 70 160	
Cobalt (Co) 3.0 1.0 ug/g 21-MAY-21 21 80	
Copper (Cu) 8.9 1.0 ug/g 21-MAY-21 92 230	
Lead (Pb) 32.0 1.0 ug/g 21-MAY-21 120 120	
Molybdenum (Mo) <1.0 1.0 ug/g 21-MAY-21 2 40	
Nickel (Ni) 6.1 1.0 ug/g 21-MAY-21 82 270	
Selenium (Se) <1.0 1.0 ug/g 21-MAY-21 1.5 5.5	
Silver (Ag)	
Thallium (TI)	
Uranium (U) <1.0	
Vanadium (V) 24.0 1.0 ug/g 21-MAY-21 86 86	
Zinc (Zn) 45.9 5.0 ug/g 21-MAY-21 290 340 Volatile Organic Compounds	
Xylenes (Total) <0.050 0.050 ug/g 25-MAY-21 0.05 3 Surrogate: 4-Bromofluorobenzene 102.3 50-140 % 25-MAY-21 0.05 3	
Surrogate: 1,4-Difluorobenzene 104.1 50-140 % 25-MAY-21	
Hydrocarbons	
F1 (C6-C10) <5.0 5.0 ug/g 25-MAY-21 25 25	
F1-BTEX \$5.0 5.0 ug/g 25-MAY-21 25 25	
F2 (C10-C16)	
F3 (C16-C34) <50 50 ug/g 19-MAY-21 240 1700	
F4 (C34-C50)	
Total Hydrocarbons (C6-C50)	
Chrom. to baseline at nC50 YES No Unit 19-MAY-21	
Surrogate: 2-Bromobenzotrifluoride 84.1 60-140 % 19-MAY-21	
Surrogate: 3,4-Dichlorotoluene 106.8 60-140 % 25-MAY-21	
L2587890-9 BH132-21 SS4 7.5-9.5FT	
Sampled By: MATT D on 13-MAY-21 @ 11:30 #1 #2	
Matrix: SOIL #1 #2	
Physical Tests	
Conductivity 1.15 0.0040 mS/cm 21-MAY-21 *0.57 1.4	
% Moisture 6.73 0.25 % 19-MAY-21	
Saturated Paste Extractables	
SAR 47.8 SAR:M 0.10 SAR 21-MAY-21 *2.4 *12	
Calcium (Ca) 1.65 0.50 mg/L 21-MAY-21	
Magnesium (Mg) <0.50 0.50 mg/L 21-MAY-21	
Sodium (Na) 223 0.50 mg/L 21-MAY-21	
Metals	
Antimony (Sb) <1.0 1.0 ug/g 21-MAY-21 1.3 40	
Arsenic (As) 1.4 1.0 ug/g 21-MAY-21 18 18	

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

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



ANALYTICAL GUIDELINE REPORT

L2587890 CONTD....

Page 5 of 9 25-MAY-21 10:40 (MT)

\$6995-100 25-MAY-21 10:40 (MT) Sample Details										
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits		
L2587890-9 BH132-21 SS4 7.5-9.5FT										
Sampled By: MATT D on 13-MAY-21 @ 11:30										
Matrix: SOIL						#1	#2			
Metals										
Barium (Ba)	9.0		1.0	ug/g	21-MAY-21	220	670			
` '	<0.50		0.50		21-MAY-21	2.5	8			
Beryllium (Be) Boron (B)	<0.50 <5.0		5.0	ug/g	21-MAY-21	36				
` '	<0.50		0.50	ug/g	21-MAY-21		120 1.9			
Cadmium (Cd) Chromium (Cr)	7.2		1.0	ug/g	21-MAY-21	1.2	1.9			
` '	1.8		1.0	ug/g	21-MAY-21	70				
Cobalt (Co)	5.0		1.0	ug/g	21-MAY-21	21	80			
Copper (Cu)	5.0 4.4		1.0	ug/g	21-MAY-21	92	230			
Lead (Pb)				ug/g		120	120			
Molybdenum (Mo)	<1.0		1.0	ug/g	21-MAY-21	2	40			
Nickel (Ni)	3.8		1.0	ug/g	21-MAY-21	82	270			
Selenium (Se)	<1.0		1.0	ug/g	21-MAY-21	1.5	5.5			
Silver (Ag)	<0.20		0.20	ug/g	21-MAY-21	0.5	40			
Thallium (TI)	<0.50		0.50	ug/g	21-MAY-21	1	3.3			
Uranium (U)	<1.0		1.0	ug/g	21-MAY-21	2.5	33			
Vanadium (V)	20.9		1.0	ug/g	21-MAY-21	86	86			
Zinc (Zn)	28.9		5.0	ug/g	21-MAY-21	290	340			
Volatile Organic Compounds										
Acetone	<0.50		0.50	ug/g	21-MAY-21	0.5	1.8			
Benzene	<0.0068		0.0068	ug/g	21-MAY-21	0.02	0.034			
Bromodichloromethane	< 0.050		0.050	ug/g	21-MAY-21	0.05	5.8			
Bromoform	< 0.050		0.050	ug/g	21-MAY-21	0.05	2.5			
Bromomethane	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.05			
Carbon tetrachloride	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.05			
Chlorobenzene	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.28			
Dibromochloromethane	< 0.050		0.050	ug/g	21-MAY-21	0.05	5.5			
Chloroform	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.26			
1,2-Dibromoethane	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.05			
1,2-Dichlorobenzene	< 0.050		0.050	ug/g	21-MAY-21	0.05	6.8			
1,3-Dichlorobenzene	< 0.050		0.050	ug/g	21-MAY-21	0.05	6.8			
1,4-Dichlorobenzene	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.05			
Dichlorodifluoromethane	< 0.050		0.050	ug/g	21-MAY-21	0.05	1.8			
1,1-Dichloroethane	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.57			
1,2-Dichloroethane	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.05			
1,1-Dichloroethylene	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.05			
cis-1,2-Dichloroethylene	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.05			
trans-1,2-Dichloroethylene	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.05			
Methylene Chloride	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.2			
1,2-Dichloropropane	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.05			
cis-1,3-Dichloropropene	< 0.030		0.030	ug/g	21-MAY-21					
trans-1,3-Dichloropropene	< 0.030		0.030	ug/g	21-MAY-21					
1,3-Dichloropropene (cis & trans)	< 0.042		0.042	ug/g	21-MAY-21	0.05	0.05			
Ethylbenzene	<0.018		0.018	ug/g	21-MAY-21	0.05	1.9			
n-Hexane	< 0.050		0.050	ug/g	21-MAY-21	0.05	2.5			
Methyl Ethyl Ketone	< 0.50		0.50	ug/g	21-MAY-21	0.5	26			
Methyl Isobutyl Ketone	< 0.50		0.50	ug/g	21-MAY-21	0.5	17			
MTBE	< 0.050		0.050	ug/g	21-MAY-21	0.05	0.05			

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

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



ANALYTICAL GUIDELINE REPORT

L2587890 CONTD....

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mple Details puping Analyte 87890-9 BH132-21 SS4 7.5-9.5FT mpled By: MATT D on 13-MAY-21 @ 11:30 rix: SOIL stile Organic Compounds Styrene	Result 0	Qualifier	D.L.	Units	Analyzed		Guidelin	e Limits	
npled By: MATT D on 13-MAY-21 @ 11:30 rix: SOIL latile Organic Compounds	0								-
rix: SOIL atile Organic Compounds	0								
atile Organic Compounds									
					-	#1	#2		
Styrene									
	<0.050		0.050	ug/g	21-MAY-21	0.05	6.8		
1,1,1,2-Tetrachloroethane	<0.050		0.050	ug/g	21-MAY-21	0.05	0.05		
1,1,2,2-Tetrachloroethane	<0.050		0.050	ug/g	21-MAY-21	0.05	0.05		
Tetrachloroethylene	<0.050		0.050	ug/g	21-MAY-21	0.05	0.05		
Toluene	<0.080		0.080	ug/g	21-MAY-21	0.2	7.8		
1,1,1-Trichloroethane	<0.050		0.050	ug/g	21-MAY-21	0.05	0.4		
1,1,2-Trichloroethane	<0.050		0.050	ug/g	21-MAY-21	0.05	0.05		
Trichloroethylene	<0.010		0.010	ug/g	21-MAY-21	0.05	0.05		
Trichlorofluoromethane	<0.050		0.050	ug/g	21-MAY-21	0.25	0.46		
Vinyl chloride	<0.020		0.020	ug/g	21-MAY-21	0.02	0.02		
o-Xylene	<0.020		0.020	ug/g	21-MAY-21				
m+p-Xylenes	< 0.030		0.030	ug/g	21-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	21-MAY-21	0.05	3		
Surrogate: 4-Bromofluorobenzene	101.2		50-140	%	21-MAY-21				
Surrogate: 1,4-Difluorobenzene drocarbons	107.0		50-140	%	21-MAY-21				
F1 (C6-C10)	<5.0		5.0	ug/g	21-MAY-21	25	25		
F1-BTEX	<5.0		5.0	ug/g	21-MAY-21	25	25		
F2 (C10-C16)	<10		10	ug/g	19-MAY-21	10	26		
F3 (C16-C34)	<50		50	ug/g	19-MAY-21	240	1700		
F4 (C34-C50)	<50		50	ug/g	19-MAY-21	120	3300		
Total Hydrocarbons (C6-C50)	<72		72	ug/g	21-MAY-21				
Chrom. to baseline at nC50	YES			No Unit	19-MAY-21				
Surrogate: 2-Bromobenzotrifluoride	86.5		60-140	%	19-MAY-21				
Surrogate: 3,4-Dichlorotoluene	109.9		60-140	%	21-MAY-21				

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

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

BTX-511-HS-WT

Reference Information

Sample Parameter Qualifier key listed:

Qualifier Description SAR:M Reported SAR represents a maximum value. Actual SAR may be lower if both Ca and Mg were detectable. Methods Listed (if applicable): ALS Test Code Method Reference*** Matrix **Test Description**

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

BTEX-O.Reg 153/04 (July 2011) SW846 8260

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

FC-WT Soil Conductivity (EC) **MOEE E3138**

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

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

Parameters

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

Hydrocarbon results are expressed on a dry weight basis.

Soil

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
- 3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
- 4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

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

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

- 1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- 2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- 3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
- 4. F4G: Gravimetric Heavy Hydrocarbons
- 5. F4G-sg: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
- 6. Where both F4 (C34-C50) and F4G-sg are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
- 7. F4G-sg cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
- 8. This method is validated for use.
- 9. Data from analysis of validation and quality control samples is available upon request.
- 10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

Reference Information

F4G-ADD-511-WT

Soil

Soil

F4G SG-O.Reg 153/04 (July

MOE DECPH-E3398/CCME TIER 1

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

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental

Protection Act (July 1, 2011).

MET-200.2-CCMS-WT

Metals in Soil by CRC ICPMS

EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MOISTURE-WT

Soil

% Moisture

рΗ

CCME PHC in Soil - Tier 1 (mod)

PCB-511-WT

Soil

PCB-O.Reg 153/04 (July 2011)

SW846 3510/8082

An aliquot of a solid sample is extracted with a solvent, extract is cleaned up and analyzed on the GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental

Protection Act (July 1, 2011).

PH-WT Soil

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental

Protection Act (July 1, 2011).

SAR-R511-WT

Soil

SAR-O.Reg 153/04 (July 2011)

MOEE E3137A

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

VOC-1,3-DCP-CALC-WT Regulation 153 VOCs SW8260B/SW8270C Soil VOC-511-HS-WT VOC-O.Reg 153/04 (July 2011) Soil SW846 8260 (511)

Soil and sediment samples are extracted in methanol and analyzed by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

XYLENES-SUM-CALC-

Soil

Sum of Xylene Isomer

CALCULATION

WT Concentrations

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

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

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

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million. < - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



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MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BTX-511-HS-WT	Soil							
Batch R546	55822							
WG3537846-4 Benzene	DUP	WG3537846-3 <0.0068	<0.0068	RPD-NA	ug/g	N/A	40	25-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	25-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	25-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	25-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	25-MAY-21
WG3537846-2 Benzene	LCS		108.8		%		70-130	25-MAY-21
Ethylbenzene			99.3		%		70-130	25-MAY-21
m+p-Xylenes			104.8		%		70-130	25-MAY-21
o-Xylene			108.4		%		70-130	25-MAY-21
Toluene			111.2		%		70-130	25-MAY-21
WG3537846-1 Benzene	МВ		<0.0068		ua/a		0.0068	
Ethylbenzene			<0.008		ug/g		0.008	25-MAY-21
m+p-Xylenes			<0.030		ug/g ug/g		0.018	25-MAY-21
o-Xylene			<0.020		ug/g ug/g		0.03	25-MAY-21 25-MAY-21
Toluene			<0.020		ug/g ug/g		0.02	25-MAY-21
Surrogate: 1,4-Dif	luorobenzene		114.0		~g/g %		50-140	25-MAY-21
Surrogate: 4-Bron			114.4		%		50-140	25-MAY-21
_	MS	WG3537846-3			70		00 1 10	25-WA1-21
Benzene		11 00007040 0	119.7		%		60-140	25-MAY-21
Ethylbenzene			108.2		%		60-140	25-MAY-21
m+p-Xylenes			106.8		%		60-140	25-MAY-21
o-Xylene			117.5		%		60-140	25-MAY-21
Toluene			120.3		%		60-140	25-MAY-21
EC-WT	Soil							
Batch R546	52399							
WG3539020-4 Conductivity	DUP	WG3539020-3 0.223	0.219		mS/cm	1.8	20	21-MAY-21
WG3539020-2 Conductivity	IRM	WT SAR4	104.0		%		70-130	21-MAY-21
WG3539238-1 Conductivity	LCS		103.5		%		90-110	21-MAY-21
WG3539020-1 Conductivity	MB		<0.0040		mS/cm		0.004	21-MAY-21
•								



Workorder: L2587890 Report Date: 25-MAY-21 Page 2 of 13

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F1-HS-511-WT		Soil							
	5462019 DUP		WG3537420-3 <5.0	<5.0	RPD-NA	ug/g	N/A	30	21-MAY-21
WG3537420-2 F1 (C6-C10)	LCS			104.4		%		80-120	21-MAY-21
WG3537420-1 F1 (C6-C10)	MB			<5.0		ug/g		5	21-MAY-21
Surrogate: 3,4-	Dichloroto	oluene		115.3		%		60-140	21-MAY-21
WG3537420-5 F1 (C6-C10)	MS		WG3537420-3	120.1		%		60-140	21-MAY-21
Batch R5	465822								
WG3537846-4 F1 (C6-C10)	DUP		WG3537846-3 <5.0	<5.0	RPD-NA	ug/g	N/A	30	25-MAY-21
WG3537846-2 F1 (C6-C10)	LCS			104.0		%		80-120	25-MAY-21
WG3537846-1 F1 (C6-C10)	МВ			<5.0		ug/g		5	25-MAY-21
Surrogate: 3,4-	Dichlorote	oluene		116.7		%		60-140	25-MAY-21
WG3537846-5 F1 (C6-C10)	MS		WG3537846-3	79.0		%		60-140	25-MAY-21
F2-F4-511-WT		Soil							
Batch R5	460240								
WG3537274-3 F2 (C10-C16)	DUP		WG3537274-5 <10	<10	RPD-NA	ug/g	N/A	30	19-MAY-21
F3 (C16-C34)			<50	<50	RPD-NA	ug/g	N/A	30	19-MAY-21
F4 (C34-C50)			<50	<50	RPD-NA	ug/g	N/A	30	19-MAY-21
WG3537274-2 F2 (C10-C16)	LCS			92.1		%		80-120	19-MAY-21
F3 (C16-C34)				94.2		%		80-120	19-MAY-21
F4 (C34-C50)				90.5		%		80-120	19-MAY-21
WG3537274-1 F2 (C10-C16)	MB			<10		ug/g		10	19-MAY-21
F3 (C16-C34)				<50		ug/g		50	19-MAY-21
F4 (C34-C50)				<50		ug/g		50	19-MAY-21
Surrogate: 2-Br	omobenz	otrifluoride		90.8		%		60-140	19-MAY-21
WG3537274-4 F2 (C10-C16)	MS		WG3537274-5	97.2		%		60-140	19-MAY-21
F3 (C16-C34)				101.2		%		60-140	19-MAY-21



Workorder: L2587890 Report Date: 25-MAY-21 Page 3 of 13

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
1631	IVIALI IA	Veleteline	veani	«uaiiiiei	Oille	NFD	LIIIII	Analyzeu
F2-F4-511-WT	Soil							
Batch R5460240 WG3537274-4 MS F4 (C34-C50)		WG3537274-5	101.3		%		60-140	19-MAY-21
F4G-ADD-511-WT	Soil							
Batch R5460830								
WG3538815-2 LCS F4G-SG (GHH-Silica)			73.3		%		60-140	20-MAY-21
WG3538815-1 MB F4G-SG (GHH-Silica)			<250		ug/g		250	20-MAY-21
MET-200.2-CCMS-WT	Soil							
Batch R5461837								
WG3539006-2 CRM		WT-SS-2	100 5		0/			
Antimony (Sb)			120.5		%		70-130	21-MAY-21
Arsenic (As)			121.2		%		70-130	21-MAY-21
Barium (Ba)			124.5		%		70-130	21-MAY-21
Beryllium (Be)			125.6		%		70-130	21-MAY-21
Boron (B)			11.4		mg/kg		3.5-13.5	21-MAY-21
Cadmium (Cd)			121.5		%		70-130	21-MAY-21
Chromium (Cr)			121.5		%		70-130	21-MAY-21
Cobalt (Co)			120.5		%		70-130	21-MAY-21
Copper (Cu)			117.8		%		70-130	21-MAY-21
Lead (Pb)			123.0		%		70-130	21-MAY-21
Molybdenum (Mo)			109.8		%		70-130	21-MAY-21
Nickel (Ni)			123.3		%		70-130	21-MAY-21
Selenium (Se)			0.16		mg/kg		0-0.34	21-MAY-21
Silver (Ag)			106.6		%		70-130	21-MAY-21
Thallium (TI)			0.100		mg/kg		0.029-0.129	
Uranium (U)			123.5		%		70-130	21-MAY-21
Vanadium (V)			122.8		%		70-130	21-MAY-21
Zinc (Zn)			113.9		%		70-130	21-MAY-21
WG3539006-6 DUP Antimony (Sb)		WG3539006-5 0.13	0.11		ug/g	17	30	21-MAY-21
Arsenic (As)		4.40	3.68		ug/g	18	30	21-MAY-21
Barium (Ba)		101	87.0		ug/g	15	40	21-MAY-21
Beryllium (Be)		0.65	0.57		ug/g	13	30	21-MAY-21
501 y (100)		3.00	3.01		~3′3	10	30	∠ 1 - IVI\\\ 1 - \2



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5461837								
WG3539006-6 DUP		WG3539006-5			,			
Boron (B)		14.3	12.0		ug/g	17	30	21-MAY-21
Cadmium (Cd)		0.110	0.090		ug/g	20	30	21-MAY-21
Chromium (Cr)		23.3	20.3		ug/g	14	30	21-MAY-21
Cobalt (Co)		9.41	8.26		ug/g	13	30	21-MAY-21
Copper (Cu)		19.8	17.0		ug/g	15	30	21-MAY-21
Lead (Pb)		9.41	8.27		ug/g	13	40	21-MAY-21
Molybdenum (Mo)		0.41	0.34		ug/g	20	40	21-MAY-21
Nickel (Ni)		20.4	17.6		ug/g	15	30	21-MAY-21
Selenium (Se)		<0.20	<0.20	RPD-NA	ug/g	N/A	30	21-MAY-21
Silver (Ag)		<0.10	<0.10	RPD-NA	ug/g	N/A	40	21-MAY-21
Thallium (TI)		0.122	0.114		ug/g	6.2	30	21-MAY-21
Uranium (U)		0.737	0.584		ug/g	23	30	21-MAY-21
Vanadium (V)		37.0	31.8		ug/g	15	30	21-MAY-21
Zinc (Zn)		65.0	52.2		ug/g	22	30	21-MAY-21
WG3539006-4 LCS								
Antimony (Sb)			117.2		%		80-120	21-MAY-21
Arsenic (As)			115.2		%		80-120	21-MAY-21
Barium (Ba)			117.7		%		80-120	21-MAY-21
Beryllium (Be)			112.6		%		80-120	21-MAY-21
Boron (B)			107.0		%		80-120	21-MAY-21
Cadmium (Cd)			114.8		%		80-120	21-MAY-21
Chromium (Cr)			115.8		%		80-120	21-MAY-21
Cobalt (Co)			115.0		%		80-120	21-MAY-21
Copper (Cu)			113.5		%		80-120	21-MAY-21
Lead (Pb)			117.1		%		80-120	21-MAY-21
Molybdenum (Mo)			119.6		%		80-120	21-MAY-21
Nickel (Ni)			115.1		%		80-120	21-MAY-21
Selenium (Se)			114.1		%		80-120	21-MAY-21
Silver (Ag)			118.8		%		80-120	21-MAY-21
Thallium (TI)			115.5		%		80-120	21-MAY-21
Uranium (U)			116.3		%		80-120	21-MAY-21
Vanadium (V)			118.0		%		80-120	21-MAY-21
Zinc (Zn)			111.8		%		80-120	21-MAY-21
1								



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5461837								
WG3539006-1 MB Antimony (Sb)			<0.10		mg/kg		0.1	21-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	21-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	21-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	21-MAY-21
Boron (B)			<5.0		mg/kg		5	21-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	21-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	21-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	21-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	21-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	21-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	21-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	21-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	21-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	21-MAY-21
Thallium (TI)			< 0.050		mg/kg		0.05	21-MAY-21
Uranium (U)			< 0.050		mg/kg		0.05	21-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	21-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	21-MAY-21
MOISTURE-WT	Soil							
Batch R5459585								
WG3536481-3 DUP % Moisture		L2587135-14 13.1	13.4		%	2.0	20	19-MAY-21
WG3536481-2 LCS % Moisture			100.2		%		90-110	19-MAY-21
WG3536481-1 MB							00	
% Moisture			<0.25		%		0.25	19-MAY-21
PCB-511-WT	Soil							
Batch R5460996								
WG3537391-3 DUP Aroclor 1242		WG3537391- 5 < 0.010	<0.010	RPD-NA	ug/g	N/A	40	20-MAY-21
Aroclor 1248		<0.010	<0.010	RPD-NA	ug/g	N/A	40	20-MAY-21
Aroclor 1254		<0.010	<0.010	RPD-NA	ug/g	N/A	40	20-MAY-21
Aroclor 1260		<0.010	<0.010	RPD-NA	ug/g	N/A	40	20-MAY-21
WG3537391-2 LCS								



Qualifier

Workorder: L2587890 Report Date: 25-MAY-21

Units

RPD

Limit

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Analyzed

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

Reference

Result

KITCHENER ON N2B 3X9

Matrix

Contact: JEN LAMBKE

Test

rest	Wallix	Reference	Result	Qualifier	Ullits	KPD	LIIIII	Anaryzeu
PCB-511-WT	Soil							
Batch R5460								
WG3537391-2 LG Aroclor 1242	CS		104.1		%		60-140	20-MAY-21
Aroclor 1248			113.6		%		60-140	20-MAY-21
Aroclor 1254			115.2		%		60-140	20-MAY-21
Aroclor 1260			123.9		%		60-140	20-MAY-21
	IB		0.0		,0		00 140	20 WAT 21
Aroclor 1242			<0.010		ug/g		0.01	20-MAY-21
Aroclor 1248			<0.010		ug/g		0.01	20-MAY-21
Aroclor 1254			<0.010		ug/g		0.01	20-MAY-21
Aroclor 1260			<0.010		ug/g		0.01	20-MAY-21
Surrogate: d14-Ter	rphenyl		116.1		%		60-140	20-MAY-21
WG3537391-4 M	ıs	WG3537391-5						
Aroclor 1242			113.2		%		60-140	20-MAY-21
Aroclor 1254			122.9		%		60-140	20-MAY-21
Aroclor 1260			132.7		%		60-140	20-MAY-21
PH-WT	Soil							
Batch R5459	9154							
	UP	L2587580-5	7.40		al Lunita	0.00		
pH		7.25	7.19	J	pH units	0.06	0.3	18-MAY-21
WG3536700-1 L0	CS		6.99		pH units		6.9-7.1	18-MAY-21
	0 "		0.00		p		0.0 7.1	10 WAT 21
SAR-R511-WT	Soil							
Batch R5463 WG3539020-4 D	3020 UP	WG3539020-3						
Calcium (Ca)	OF	30.4	30.1		mg/L	1.0	30	21-MAY-21
Sodium (Na)		3.57	3.47		mg/L	2.8	30	21-MAY-21
Magnesium (Mg)		6.28	6.20		mg/L	1.3	30	21-MAY-21
WG3539020-2 IR	RM	WT SAR4						
Calcium (Ca)			111.0		%		70-130	21-MAY-21
Sodium (Na)			95.0		%		70-130	21-MAY-21
Magnesium (Mg)			106.8		%		70-130	21-MAY-21
	cs							
Calcium (Ca)			106.3		%		80-120	21-MAY-21
Sodium (Na)			99.8		%		80-120	21-MAY-21
Magnesium (Mg)			101.4		%		80-120	21-MAY-21
WG3539020-1 M	IB							



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MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-R511-WT	Soil							
Batch R546302 WG3539020-1 MB Calcium (Ca)	20		<0.50		mg/L		0.5	21-MAY-21
Sodium (Na)			<0.50		mg/L		0.5	21-MAY-21
Magnesium (Mg)			<0.50		mg/L		0.5	21-MAY-21
	0 - 11		10.00		9/=		0.0	Z1-W/A1-Z1
VOC-511-HS-WT	Soil							
Batch R546201 WG3537420-4 DUF 1,1,1,2-Tetrachloroeth	•	WG3537420 -<0.050	- 3 <0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
1,1,2,2-Tetrachloroeth		<0.050	<0.050	RPD-NA	ug/g	N/A N/A	40	21-MAY-21 21-MAY-21
1,1,1-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A N/A	40	21-MAY-21 21-MAY-21
1.1.2-Trichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
1,1-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A N/A	40	21-MAY-21
1,1-Dichloroethylene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
1.2-Dibromoethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
1.2-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
1,2-Dichloroethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
1,2-Dichloropropane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
1,3-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
1,4-Dichlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
Acetone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	21-MAY-21
Benzene		<0.0068	<0.0068	RPD-NA	ug/g	N/A	40	21-MAY-21
Bromodichloromethar	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
Bromoform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
Bromomethane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
Carbon tetrachloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
Chlorobenzene		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
Chloroform		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
cis-1,2-Dichloroethyle	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
cis-1,3-Dichloroprope	ne	<0.030	<0.030	RPD-NA	ug/g	N/A	40	21-MAY-21
Dibromochloromethan	ne	<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
Dichlorodifluorometha	ane	<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
Ethylbenzene		<0.018	<0.018	RPD-NA	ug/g	N/A	40	21-MAY-21
n-Hexane		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
Methylene Chloride		<0.050	<0.050	RPD-NA	ug/g	N/A	40	21-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
Wassarazo-4 DUP Wassarazo-3 Vanos RPD-NA ugg N/A 40 21-MAY-21 mHDE <0.050 <0.050 RPD-NA ugg N/A 40 21-MAY-21 Methyl Ethyl Ketone <0.50 <0.50 RPD-NA ugg N/A 40 21-MAY-21 0-Xylene <0.50 <0.50 RPD-NA ugg N/A 40 21-MAY-21 0-Xylene <0.050 <0.050 RPD-NA ugg N/A 40 21-MAY-21 Syrene <0.050 <0.050 RPD-NA ug/g N/A 40 21-MAY-21 Tetrachloroethylene <0.050 <0.050 RPD-NA ug/g N/A 40 21-MAY-21 Trans-1,3-Dichloroethylene <0.080 <0.050 RPD-NA ug/g N/A 40 21-MAY-21 Trans-1,3-Dichloroethylene <0.030 <0.050 RPD-NA ug/g N/A 40 21-MAY-21 Trichlorofluoromethane <0.050 <0.050 RPD-NA	VOC-511-HS-WT	Soil							
MTBE <0.050	Batch R5462019)							
Methyl Ethyl Ketone 0.50 RPD-NA ug/g N/A 40 21-MAY-21 Methyl Isobutyl Ketone <0.50					RPD-NA	ug/g	N/A	40	21-MAY-21
Methyl Isobutyl Ketone <0.50 <0.50 RPD-NA ug/g N/A 40 21-MAY-21 0-Xylene <0.020	m+p-Xylenes		<0.030	< 0.030	RPD-NA	ug/g	N/A	40	21-MAY-21
o-Xylene <0.020 <0.020 RPD-NA ug/g N/A 40 21-MAY-21 Styrene <0.050	Methyl Ethyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	21-MAY-21
Styrene <0.050 <0.050 RPD-NA ug/g N/A 40 21-MAY-21 Tetrachloroethylene <0.050	Methyl Isobutyl Ketone		<0.50	<0.50	RPD-NA	ug/g	N/A	40	21-MAY-21
Tetrachloroethylene <0.050 <0.050 RPD-NA ug/g N/A 40 21-MAY-21 Toluene <0.080	o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	21-MAY-21
Toluene <0.080 <0.080 RPD-NA ug/g N/A 40 21-MAY-21 trans-1,2-Dichloroethylene <0.050	Styrene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
trans-1,2-Dichloroethylene <0.050 <0.050 RPD-NA ug/g N/A 40 21-MAY-21 trans-1,3-Dichloropropene <0.030	Tetrachloroethylene		<0.050	< 0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
trans-1,3-Dichloropropene <0.030 <0.030 RPD-NA ug/g N/A 40 21-MAY-21 Trichloroethylene <0.010	Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	21-MAY-21
Trichloroethylene <0.010 <0.010 RPD-NA ug/g N/A 40 21-MAY-21 Trichlorofluoromethane <0.050	trans-1,2-Dichloroethyl	ene	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
Trichloroffluoromethane <0.050 <0.050 RPD-NA ug/g N/A 40 21-MAY-21 Vinyl chloride <0.020 <0.020 RPD-NA ug/g N/A 40 21-MAY-21 WG3537420-2 LCS 1,1,1,2-Tetrachloroethane 113.5 % 60-130 21-MAY-21 1,1,2-Tetrachloroethane 105.5 % 60-130 21-MAY-21 1,1,1-Trichloroethane 110.1 % 60-130 21-MAY-21 1,1,2-Trichloroethane 107.5 % 60-130 21-MAY-21 1,1-Dichloroethane 122.1 % 60-130 21-MAY-21 1,1-Dichloroethylene 104.5 % 60-130 21-MAY-21 1,2-Dibroroethane 103.9 % 70-130 21-MAY-21 1,2-Dichlorobenzene 113.0 % 70-130 21-MAY-21 1,2-Dichloroethane 109.1 % 70-130 21-MAY-21 1,3-Dichloropenzene 111.8 % 70-130 21-MAY-21 1,4-Dichlorobenzen	trans-1,3-Dichloroprope	ene	<0.030	< 0.030	RPD-NA	ug/g	N/A	40	21-MAY-21
Vinyl chloride <0.020 RPD-NA ug/g N/A 40 21-MAY-21 WG3537420-2 LCS 1,1,1,2-Tetrachloroethane 113.5 % 60-130 21-MAY-21 1,1,2-Tetrachloroethane 105.5 % 60-130 21-MAY-21 1,1,1-Trichloroethane 110.1 % 60-130 21-MAY-21 1,1,2-Trichloroethane 107.5 % 60-130 21-MAY-21 1,1-Dichloroethane 122.1 % 60-130 21-MAY-21 1,1-Dichloroethylene 104.5 % 60-130 21-MAY-21 1,2-Dibromoethane 103.9 % 70-130 21-MAY-21 1,2-Dichlorobenzene 113.0 % 70-130 21-MAY-21 1,2-Dichloroptopane 111.8 % 70-130 21-MAY-21 1,3-Dichloroptopane 111.8 % 70-130 21-MAY-21 1,4-Dichlorobenzene 108.2 % 70-130 21-MAY-21 1,4-Dichlorobenzene 115.5 % 70-130 21-MAY-21 </td <td>Trichloroethylene</td> <td></td> <td><0.010</td> <td><0.010</td> <td>RPD-NA</td> <td>ug/g</td> <td>N/A</td> <td>40</td> <td>21-MAY-21</td>	Trichloroethylene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	21-MAY-21
WG3537420-2 LCS 1,1,1,2-Tetrachloroethane 113.5 % 60-130 21-MAY-21 1,1,2,2-Tetrachloroethane 105.5 % 60-130 21-MAY-21 1,1,1-Trichloroethane 110.1 % 60-130 21-MAY-21 1,1,2-Trichloroethane 107.5 % 60-130 21-MAY-21 1,1-Dichloroethane 122.1 % 60-130 21-MAY-21 1,1-Dichloroethylene 104.5 % 60-130 21-MAY-21 1,2-Dibromoethane 103.9 % 70-130 21-MAY-21 1,2-Dichlorobenzene 113.0 % 70-130 21-MAY-21 1,2-Dichloroethane 109.1 % 60-130 21-MAY-21 1,2-Dichloropropane 111.8 % 70-130 21-MAY-21 1,2-Dichloropropane 111.8 % 70-130 21-MAY-21 1,3-Dichlorobenzene 115.5 % 70-130 21-MAY-21 1,4-Dichlorobenzene 108.2 % 70-130 21-MAY-21 Acet	Trichlorofluoromethane)	<0.050	< 0.050	RPD-NA	ug/g	N/A	40	21-MAY-21
1,1,1,2-Tetrachloroethane 113.5 % 60-130 21-MAY-21 1,1,2,2-Tetrachloroethane 105.5 % 60-130 21-MAY-21 1,1,1-Trichloroethane 110.1 % 60-130 21-MAY-21 1,1,2-Trichloroethane 107.5 % 60-130 21-MAY-21 1,1-Dichloroethane 122.1 % 60-130 21-MAY-21 1,1-Dichloroethylene 104.5 % 60-130 21-MAY-21 1,2-Dibromoethane 103.9 % 70-130 21-MAY-21 1,2-Dichlorobenzene 113.0 % 70-130 21-MAY-21 1,2-Dichloroethane 109.1 % 60-130 21-MAY-21 1,2-Dichloropropane 111.8 % 70-130 21-MAY-21 1,2-Dichlorobenzene 115.5 % 70-130 21-MAY-21 1,3-Dichlorobenzene 118.8 % 70-130 21-MAY-21 1,4-Dichlorobenzene 115.5 % 70-130 21-MAY-21 Acetone 117.7 % 60-140 21-MAY-21 Benzene 107.8 % 70-130<	Vinyl chloride		<0.020	<0.020	RPD-NA	ug/g	N/A	40	21-MAY-21
1,1,2,2-Tetrachloroethane 105.5 % 60-130 21-MAY-21 1,1,1-Trichloroethane 110.1 % 60-130 21-MAY-21 1,1,2-Trichloroethane 107.5 % 60-130 21-MAY-21 1,1-Dichloroethane 122.1 % 60-130 21-MAY-21 1,1-Dichloroethylene 104.5 % 60-130 21-MAY-21 1,2-Dibromoethane 103.9 % 70-130 21-MAY-21 1,2-Dichlorobenzene 113.0 % 70-130 21-MAY-21 1,2-Dichloroethane 109.1 % 60-130 21-MAY-21 1,2-Dichloropropane 111.8 % 70-130 21-MAY-21 1,3-Dichlorobenzene 115.5 % 70-130 21-MAY-21 1,4-Dichlorobenzene 108.2 % 70-130 21-MAY-21 Acetone 117.7 % 60-140 21-MAY-21 Benzene 107.8 % 70-130 21-MAY-21 Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromomethane 103.4 % 50-140 <		ane		113.5		%		60-130	21-MAY-21
1,1,1-Trichloroethane 110.1 % 60-130 21-MAY-21 1,1,2-Trichloroethane 107.5 % 60-130 21-MAY-21 1,1-Dichloroethane 122.1 % 60-130 21-MAY-21 1,1-Dichloroethylene 104.5 % 60-130 21-MAY-21 1,2-Dibromoethane 103.9 % 70-130 21-MAY-21 1,2-Dichlorobenzene 113.0 % 70-130 21-MAY-21 1,2-Dichloroethane 109.1 % 60-130 21-MAY-21 1,2-Dichloropropane 111.8 % 70-130 21-MAY-21 1,3-Dichlorobenzene 115.5 % 70-130 21-MAY-21 1,4-Dichlorobenzene 108.2 % 70-130 21-MAY-21 Acetone 117.7 % 60-140 21-MAY-21 Benzene 107.8 % 70-130 21-MAY-21 Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromoform 114.2 % 70-130 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 <td></td> <td></td> <td></td> <td>105.5</td> <td></td> <td>%</td> <td></td> <td></td> <td></td>				105.5		%			
1,1-Dichloroethane 122.1 % 60-130 21-MAY-21 1,1-Dichloroethylene 104.5 % 60-130 21-MAY-21 1,2-Dibromoethane 103.9 % 70-130 21-MAY-21 1,2-Dichlorobenzene 113.0 % 70-130 21-MAY-21 1,2-Dichloroethane 109.1 % 60-130 21-MAY-21 1,2-Dichloropropane 111.8 % 70-130 21-MAY-21 1,3-Dichlorobenzene 115.5 % 70-130 21-MAY-21 1,4-Dichlorobenzene 108.2 % 70-130 21-MAY-21 Acetone 117.7 % 60-140 21-MAY-21 Benzene 107.8 % 70-130 21-MAY-21 Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	1,1,1-Trichloroethane			110.1		%		60-130	
1,1-Dichloroethylene 104.5 % 60-130 21-MAY-21 1,2-Dibromoethane 103.9 % 70-130 21-MAY-21 1,2-Dichlorobenzene 113.0 % 70-130 21-MAY-21 1,2-Dichloroethane 109.1 % 60-130 21-MAY-21 1,2-Dichloropropane 111.8 % 70-130 21-MAY-21 1,3-Dichlorobenzene 115.5 % 70-130 21-MAY-21 1,4-Dichlorobenzene 108.2 % 70-130 21-MAY-21 Acetone 117.7 % 60-140 21-MAY-21 Benzene 107.8 % 70-130 21-MAY-21 Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromoform 114.2 % 70-130 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	1,1,2-Trichloroethane			107.5		%			21-MAY-21
1,2-Dibromoethane 103.9 % 70-130 21-MAY-21 1,2-Dichlorobenzene 113.0 % 70-130 21-MAY-21 1,2-Dichloroethane 109.1 % 60-130 21-MAY-21 1,2-Dichloropropane 111.8 % 70-130 21-MAY-21 1,3-Dichlorobenzene 115.5 % 70-130 21-MAY-21 1,4-Dichlorobenzene 108.2 % 70-130 21-MAY-21 Acetone 117.7 % 60-140 21-MAY-21 Benzene 107.8 % 70-130 21-MAY-21 Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromoform 114.2 % 70-130 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	1,1-Dichloroethane			122.1		%		60-130	21-MAY-21
1,2-Dichlorobenzene 113.0 % 70-130 21-MAY-21 1,2-Dichloroethane 109.1 % 60-130 21-MAY-21 1,2-Dichloropropane 111.8 % 70-130 21-MAY-21 1,3-Dichlorobenzene 115.5 % 70-130 21-MAY-21 1,4-Dichlorobenzene 108.2 % 70-130 21-MAY-21 Acetone 117.7 % 60-140 21-MAY-21 Benzene 107.8 % 70-130 21-MAY-21 Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromoform 114.2 % 70-130 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	1,1-Dichloroethylene			104.5		%		60-130	21-MAY-21
1,2-Dichloroethane 109.1 % 60-130 21-MAY-21 1,2-Dichloropropane 111.8 % 70-130 21-MAY-21 1,3-Dichlorobenzene 115.5 % 70-130 21-MAY-21 1,4-Dichlorobenzene 108.2 % 70-130 21-MAY-21 Acetone 117.7 % 60-140 21-MAY-21 Benzene 107.8 % 70-130 21-MAY-21 Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromoform 114.2 % 70-130 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	1,2-Dibromoethane			103.9		%		70-130	21-MAY-21
1,2-Dichloropropane 111.8 % 70-130 21-MAY-21 1,3-Dichlorobenzene 115.5 % 70-130 21-MAY-21 1,4-Dichlorobenzene 108.2 % 70-130 21-MAY-21 Acetone 117.7 % 60-140 21-MAY-21 Benzene 107.8 % 70-130 21-MAY-21 Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromoform 114.2 % 70-130 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	1,2-Dichlorobenzene			113.0		%		70-130	21-MAY-21
1,3-Dichlorobenzene 115.5 % 70-130 21-MAY-21 1,4-Dichlorobenzene 108.2 % 70-130 21-MAY-21 Acetone 117.7 % 60-140 21-MAY-21 Benzene 107.8 % 70-130 21-MAY-21 Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromoform 114.2 % 70-130 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	1,2-Dichloroethane			109.1		%		60-130	21-MAY-21
1,4-Dichlorobenzene 108.2 % 70-130 21-MAY-21 Acetone 117.7 % 60-140 21-MAY-21 Benzene 107.8 % 70-130 21-MAY-21 Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromoform 114.2 % 70-130 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	1,2-Dichloropropane			111.8		%		70-130	21-MAY-21
Acetone 117.7 % 60-140 21-MAY-21 Benzene 107.8 % 70-130 21-MAY-21 Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromoform 114.2 % 70-130 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	1,3-Dichlorobenzene			115.5		%		70-130	21-MAY-21
Benzene 107.8 % 70-130 21-MAY-21 Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromoform 114.2 % 70-130 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	1,4-Dichlorobenzene			108.2		%		70-130	21-MAY-21
Bromodichloromethane 116.2 % 50-140 21-MAY-21 Bromoform 114.2 % 70-130 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	Acetone			117.7		%		60-140	21-MAY-21
Bromoform 114.2 % 70-130 21-MAY-21 Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	Benzene			107.8		%		70-130	21-MAY-21
Bromomethane 103.4 % 50-140 21-MAY-21 Carbon tetrachloride 105.6 % 70-130 21-MAY-21	Bromodichloromethane	e		116.2		%		50-140	21-MAY-21
Carbon tetrachloride 105.6 % 70-130 21-MAY-21	Bromoform			114.2		%		70-130	21-MAY-21
	Bromomethane			103.4		%		50-140	21-MAY-21
Chlorobenzene 112.9 % 70-130 21-MAY-21	Carbon tetrachloride			105.6		%		70-130	21-MAY-21
	Chlorobenzene			112.9		%		70-130	21-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5462019								
WG3537420-2 LCS			444.5		0/			
Chloroform			114.5		%		70-130	21-MAY-21
cis-1,2-Dichloroethylene			115.8		%		70-130	21-MAY-21
cis-1,3-Dichloropropene			106.2		%		70-130	21-MAY-21
Dibromochloromethane			100.4		%		60-130	21-MAY-21
Dichlorodifluoromethane			78.0		%		50-140	21-MAY-21
Ethylbenzene			105.4		%		70-130	21-MAY-21
n-Hexane			99.3		%		70-130	21-MAY-21
Methylene Chloride			117.0		%		70-130	21-MAY-21
MTBE			108.9		%		70-130	21-MAY-21
m+p-Xylenes			108.6		%		70-130	21-MAY-21
Methyl Ethyl Ketone			99.7		%		60-140	21-MAY-21
Methyl Isobutyl Ketone			100.6		%		60-140	21-MAY-21
o-Xylene			112.9		%		70-130	21-MAY-21
Styrene			106.7		%		70-130	21-MAY-21
Tetrachloroethylene			102.5		%		60-130	21-MAY-21
Toluene			104.5		%		70-130	21-MAY-21
trans-1,2-Dichloroethylen	е		110.4		%		60-130	21-MAY-21
trans-1,3-Dichloropropend	е		109.2		%		70-130	21-MAY-21
Trichloroethylene			103.8		%		60-130	21-MAY-21
Trichlorofluoromethane			99.3		%		50-140	21-MAY-21
Vinyl chloride			103.1		%		60-140	21-MAY-21
WG3537420-1 MB								
1,1,1,2-Tetrachloroethane			<0.050		ug/g		0.05	21-MAY-21
1,1,2,2-Tetrachloroethane	e		<0.050		ug/g		0.05	21-MAY-21
1,1,1-Trichloroethane			<0.050		ug/g		0.05	21-MAY-21
1,1,2-Trichloroethane			<0.050		ug/g		0.05	21-MAY-21
1,1-Dichloroethane			<0.050		ug/g		0.05	21-MAY-21
1,1-Dichloroethylene			<0.050		ug/g		0.05	21-MAY-21
1,2-Dibromoethane			<0.050		ug/g		0.05	21-MAY-21
1,2-Dichlorobenzene			<0.050		ug/g		0.05	21-MAY-21
1,2-Dichloroethane			<0.050		ug/g		0.05	21-MAY-21
1,2-Dichloropropane			<0.050		ug/g		0.05	21-MAY-21
1,3-Dichlorobenzene			<0.050		ug/g		0.05	21-MAY-21
1,4-Dichlorobenzene			<0.050		ug/g		0.05	21-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

No. Soli Salach R5462019 WG3337420-1 MB Acetono	Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MG2837420-1 MB	VOC-511-HS-WT	Soil							
Acotore <0.50 ug/g 0.5 21-MAY-21 Benzene <0.0068	Batch R5462019								
Benzene				<0.50		ug/g		0.5	04 MAN/ 04
Bromodichloromethane									
Bromoform									
Brommethane									
Carbon tetrachloride									
Chlorobenzene <0.050 ug/g 0.05 21-MAY-21 Chloroform <0.050									
Chloroform									
cis-1,2-Dichloroethylene <0.050									
cis-1,3-Dichloropropene <0.030									
Dibromochloromethane <0.050 ug/g 0.05 21-MAY-21 Dichlorodiffluoromethane <0.050	•								
Dichlorodifluoromethane <0.050 ug/g 0.05 21-MAY-21 Ethylbenzene <0.018	• •								
Ethylbenzene <0.018 ug/g 0.018 21-MAY-21 n-Hexane <0.050									
n-Hexane									
Methylene Chloride 0.050 ug/g 0.05 21-MAY-21 MTBE <0.050	•								
MTBE <0.050 ug/g 0.05 21-MAY-21 m+p-Xylenes <0.030									
m+p-Xylenes <0.030 ug/g 0.03 21-MAY-21 Methyl Ethyl Ketone <0.50	-								
Methyl Ethyl Ketone <0.50 ug/g 0.5 21-MAY-21 Methyl Isobutyl Ketone <0.50									
Methyl Isobutyl Ketone <0.50									
o-Xylene <0.020									
Styrene <0.050 ug/g 0.05 21-MAY-21 Tetrachloroethylene <0.050									
Tetrachloroethylene <0.050 ug/g 0.05 21-MAY-21 Toluene <0.080 ug/g 0.08 21-MAY-21 trans-1,2-Dichloroethylene <0.050 ug/g 0.05 21-MAY-21 trans-1,3-Dichloropropene <0.030 ug/g 0.03 21-MAY-21 Trichloroethylene <0.010 ug/g 0.01 21-MAY-21 Trichlorofluoromethane <0.050 ug/g 0.01 21-MAY-21 Trichlorofluoromethane <0.050 ug/g 0.05 21-MAY-21 Vinyl chloride <0.020 ug/g 0.05 21-MAY-21 Surrogate: 1,4-Difluorobenzene 106.4 % 50-140 21-MAY-21 Surrogate: 4-Bromofluorobenzene 98.4 % 50-140 21-MAY-21 WG3537420-5 MS WG3537420-3 1,1,2-Tetrachloroethane 130.7 % 50-140 21-MAY-21 1,1,2-Tetrachloroethane 136.4 % 50-140 21-MAY-21	•								
Toluene <0.080 ug/g 0.08 21-MAY-21 trans-1,2-Dichloroethylene <0.050	•								
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Trichloroethylene <0.010	•								
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Vinyl chloride <0.020 ug/g 0.02 21-MAY-21 Surrogate: 1,4-Difluorobenzene 106.4 % 50-140 21-MAY-21 Surrogate: 4-Bromofluorobenzene 98.4 % 50-140 21-MAY-21 WG3537420-5 MS WG3537420-3 VG3537420-3	•								
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Surrogate: 4-Bromofluorobenzene 98.4 % 50-140 21-MAY-21 WG3537420-5 MS WG3537420-3 WG3537420-3 WG3537420-3 WG3537420-3 Solid (Control of the property) 1,1,2-Tetrachloroethane 130.7 % 50-140 21-MAY-21 1,1,2,2-Tetrachloroethane 136.4 % 50-140 21-MAY-21	•	nzene							
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)		130.7		%		50-140	21-MAY-21
1,1,1-Trichloroethane 119.0 % 50-140 21-MAY-21	1,1,2,2-Tetrachloroethane)		136.4		%		50-140	21-MAY-21
	1,1,1-Trichloroethane			119.0		%		50-140	21-MAY-21



Workorder: L2587890 Report Date: 25-MAY-21 Page 11 of 13

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-511-HS-WT	Soil							
Batch R5462019)							
WG3537420-5 MS		WG3537420-			0/			
1,1,2-Trichloroethane			131.7		%		50-140	21-MAY-21
1,1-Dichloroethane			118.4		%		50-140	21-MAY-21
1,1-Dichloroethylene			112.8		%		50-140	21-MAY-21
1,2-Dibromoethane			126.7		%		50-140	21-MAY-21
1,2-Dichlorobenzene			128.6		%		50-140	21-MAY-21
1,2-Dichloroethane			125.5		%		50-140	21-MAY-21
1,2-Dichloropropane			129.7		%		50-140	21-MAY-21
1,3-Dichlorobenzene			126.2		%		50-140	21-MAY-21
1,4-Dichlorobenzene			117.5		%		50-140	21-MAY-21
Acetone			142.4	MES	%		50-140	21-MAY-21
Benzene			121.7		%		50-140	21-MAY-21
Bromodichloromethane	•		131.5		%		50-140	21-MAY-21
Bromoform			145.0	MES	%		50-140	21-MAY-21
Bromomethane			118.3		%		50-140	21-MAY-21
Carbon tetrachloride			112.4		%		50-140	21-MAY-21
Chlorobenzene			130.4		%		50-140	21-MAY-21
Chloroform			127.9		%		50-140	21-MAY-21
cis-1,2-Dichloroethylen	е		129.3		%		50-140	21-MAY-21
cis-1,3-Dichloropropene	е		119.9		%		50-140	21-MAY-21
Dibromochloromethane)		119.6		%		50-140	21-MAY-21
Dichlorodifluoromethan	е		105.4		%		50-140	21-MAY-21
Ethylbenzene			122.8		%		50-140	21-MAY-21
n-Hexane			107.1		%		50-140	21-MAY-21
Methylene Chloride			126.7		%		50-140	21-MAY-21
MTBE			127.1		%		50-140	21-MAY-21
m+p-Xylenes			122.2		%		50-140	21-MAY-21
Methyl Ethyl Ketone			122.8		%		50-140	21-MAY-21
Methyl Isobutyl Ketone			126.1		%		50-140	21-MAY-21
o-Xylene			133.4		%		50-140	21-MAY-21
Styrene			128.1		%		50-140	21-MAY-21
Tetrachloroethylene			117.4		%		50-140	21-MAY-21
Toluene			121.8		%		50-140	21-MAY-21
trans-1,2-Dichloroethyle	ene		114.4		%		50-140	21-MAY-21



Workorder: L2587890 Report Date: 25-MAY-21 Page 12 of 13

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Reference Result	Qualifier Units	RPD Limit	Analyzed
	%	50.1	40 21-MAY-21
-			
122.1	%	50-1	
	WG3537420-3 129.5 112.5 109.1	WG3537420-3 129.5 112.5 109.1 %	WG3537420-3 129.5 % 50-1-1-12.5 % 50-1-1-12.5 % 50-1-1-12.5 % 50-1-1-12.5 % 50-1-1-12.5 % 50-1-1-12.5 % 50-1-1-12.5 % 50-1-

Report Date: 25-MAY-21 Workorder: L2587890

MTE CONSULTANTS INC. (Kitchener) Client:

520 BINGEMANS CENTRE DRIVE KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Legend:

ALS Control Limit (Data Quality Objectives)

DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

Average Desorption Efficiency ADE

Method Blank MB

IRM Internal Reference Material CRM Certified Reference Material CCV Continuing Calibration Verification CVS Calibration Verification Standard LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

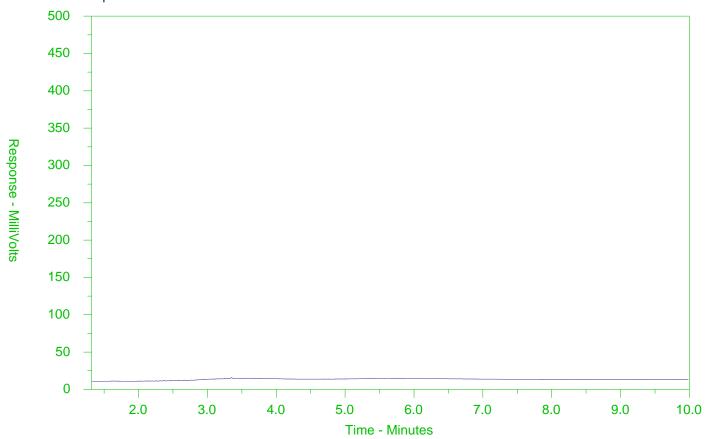
Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Page 13 of 13



ALS Sample ID: L2587890-3

Client Sample ID: BH130-21 SS2 2.5-3.5FT



← -F2-	→ ←	—F3—→ ← F4—	>
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067⁰F
Gasolin	e →	← Mot	or Oils/Lube Oils/Grease
•	-Diesel/J	et Fuels→	

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

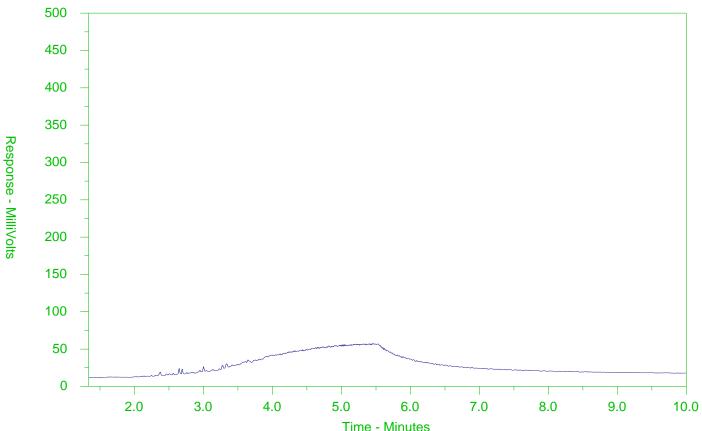
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2587890-5

Client Sample ID: BH131-21 SS2 2.5-3.5FT



← -F2-	→ ←	—F3—→ ← F4—	>
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067⁰F
Gasolin	e →	← Mot	or Oils/Lube Oils/Grease
•	-Diesel/J	et Fuels→	

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

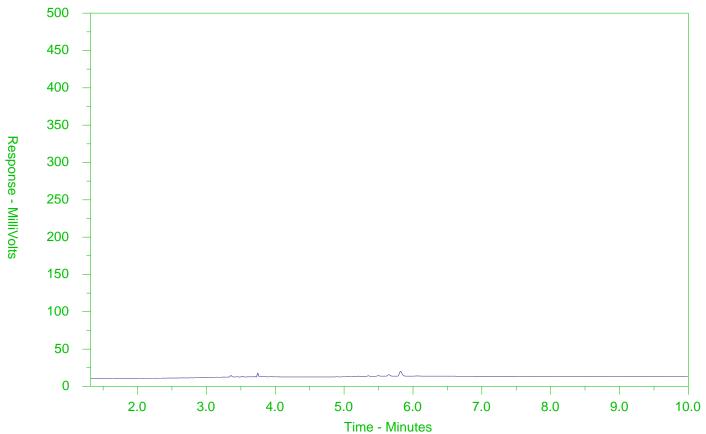
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2587890-7

Client Sample ID: BH132-21 SS2 2.5-4.5FT



← -F2-	→-	—F3—→←—F4—	>
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasolin	e →	← Mot	or Oils/Lube Oils/Grease-
←	-Diesel/Je	et Fuels→	

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

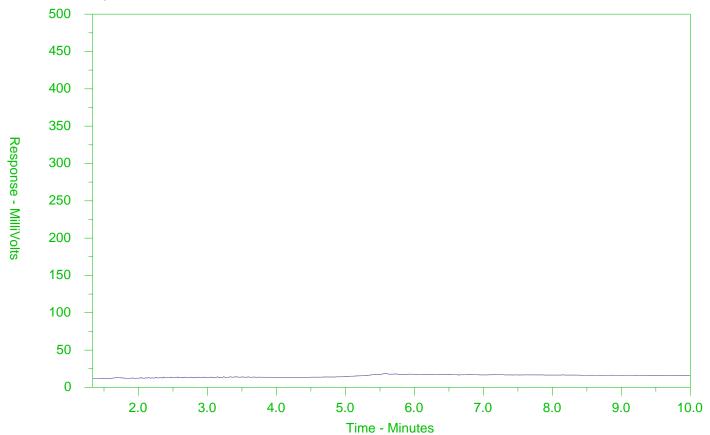
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2587890-9

Client Sample ID: BH132-21 SS4 7.5-9.5FT



← -F2-	→-	—F3—→←—F4—	>
nC10	nC16	nC34	nC50
174°C	287°C	481°C	575°C
346°F	549°F	898°F	1067°F
Gasolin	e →	← Mot	or Oils/Lube Oils/Grease-
←	-Diesel/Je	et Fuels→	

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



Chain of Custody (COC) / Analytical **Request Form**

L2587890-COFC

Page 1 of Z
Site 5

Canada Toll Free: 1 800 668 9878

	www.aisgiobai.com																i	re.	/			
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Chain of Custody (COC) / Analytical **Request Form**

Canada Toll Free: 1 800 668 9878

L2587890-COFC

OC Number: 17 -

	www.aisglobai.com																<u> </u>					
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	<u> </u>	Special Instructions / S	nacify Criteria to	add on report by cli	rking on the dron	adown liet below	+-	Ll			SAI	MPLE	CON	DITIO	N AS	RECI	EIVED	(lab us	e only	<u> </u>	-	
Drinking	g Water (DW) Samples¹ (client	use)		ctronic COC only)	cking on the drop	-down list below	Froz	en							vation		Yes	<u></u>	,	No		
Are samples tal	ken from a Regulated DW System	?	• •				_	acks	প্র	Ice C	ubes	M					Yes	□		No	Ì	
	res 🗌 no							ing Init					•	, -								_
Are samples for	r human consumption/ use?	Table 1 Res, Table 3.1	R/P/I. Table 3.1 I	I/C/C (ESQS. O.Re	g. 406/19) - coa	rse. AND		-		COOLE	R TEN	IPERA	TURES	°C		····	FII	NAL CO	OLER TE	MPERAT	JRES °C	
	res 🗌 NO	Table 3 I/C/C (SCS, O.			J, 500	1 1 2.61																
	SHIPMENT RELEASE	(client use)	T	INITIAL SHIPMEN	T RECEPTION	(lab use only)	I				<u> </u>		INA	SHIP	MEN)		ON (lab	use o	nlv)		
Released by:	Date:	Time:	Received by:		Date:	(add Omy)	Time):	Rece	eived	by:				Date			/ (101)	4	··· · •	Time:	
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REFER TO BAC	K PAGE FOR ALS LOCATIONS AN	ND SAMPLING INFORMATION		WH	ITE - LABORATO	RY COPY YEL	LOW -	CLIEN	T COI	PY	7	T				7	· ·	, -			JUNE	2018 FRONT



MTE CONSULTANTS INC. (Kitchener)

ATTN: JEN LAMBKE

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Date Received: 12-MAY-21

Report Date: 26-MAY-21 13:40 (MT)

Version: FINAL

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2586898

Project P.O. #: NOT SUBMITTED

Job Reference: 46995-100

C of C Numbers: Legal Site Desc:

Comments: ADDITIONAL 13-MAY-21 15:40

ADDITIONAL 12-MAY-21 17:00

Emily Hansen Account Manager

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

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ANALYTICAL GUIDELINE REPORT

L2586898 CONTD....

Page 2 of 8

16995-100	ANALII	ICAL	GUID	CLINE	KEFOR	\ I	2	Page 2 of 8 6-MAY-21 13:40 (M
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed			ne Limits
L2586898-3 BH124-21 SS3 5-7FT								
Sampled By: MD on 12-MAY-21 @ 08:50								
Matrix: SOIL						#1	#2	
Physical Tests								
Conductivity	0.502		0.0040	mS/cm	25-MAY-21	0.57	1.4	
% Moisture	2.42		0.25	%	16-MAY-21			
pH Saturated Paste Extractables	7.98		0.10	pH units	21-MAY-21			
	25.5	CADIM	0.40	CAD	05 MAY 04	* O. 4	*12	
SAR	35.5 0.67	SAR:M	0.10 0.50	SAR	25-MAY-21 25-MAY-21	*2.4	"12	
Calcium (Ca) Magnesium (Mg)	<0.50		0.50	mg/L mg/L	25-MAY-21			
Sodium (Na)	105		0.50	mg/L	25-MAY-21			
Metals	103		0.50	IIIg/L	25-WA1-21			
Antimony (Sb)	<1.0		1.0	ug/g	25-MAY-21	1.3	40	
Arsenic (As)	2.7		1.0	ug/g ug/g	25-MAY-21	1.3	18	
Barium (Ba)	12.5		1.0	ug/g ug/g	25-MAY-21	220	670	
Beryllium (Be)	<0.50		0.50	ug/g ug/g	25-MAY-21	2.5	8	
Boron (B)	<5.0		5.0	ug/g	25-MAY-21	36	120	
Cadmium (Cd)	<0.50		0.50	ug/g	25-MAY-21	1.2	1.9	
Chromium (Cr)	7.7		1.0	ug/g ug/g	25-MAY-21	70	160	
Cobalt (Co)	2.8		1.0	ug/g	25-MAY-21	21	80	
Copper (Cu)	14.2		1.0	ug/g	25-MAY-21	92	230	
Lead (Pb)	7.0		1.0	ug/g	25-MAY-21	120	120	
Molybdenum (Mo)	<1.0		1.0	ug/g	25-MAY-21	2	40	
Nickel (Ni)	6.3		1.0	ug/g	25-MAY-21	82	270	
Selenium (Se)	<1.0		1.0	ug/g	25-MAY-21	1.5	5.5	
Silver (Ag)	<0.20		0.20	ug/g	25-MAY-21	0.5	40	
Thallium (TI)	<0.50		0.50	ug/g	25-MAY-21	1	3.3	
Uranium (U)	<1.0		1.0	ug/g	25-MAY-21	2.5	33	
Vanadium (V)	14.5		1.0	ug/g	25-MAY-21	86	86	
Zinc (Zn)	49.6		5.0	ug/g	25-MAY-21	290	340	
Volatile Organic Compounds								
Benzene	<0.0068		0.0068	ug/g	21-MAY-21	0.02	0.034	
Ethylbenzene	<0.018		0.018	ug/g	21-MAY-21	0.05	1.9	
Toluene	<0.080		0.080	ug/g	21-MAY-21	0.2	7.8	
o-Xylene	<0.020		0.020	ug/g	21-MAY-21			
m+p-Xylenes	<0.030		0.030	ug/g	21-MAY-21			
Xylenes (Total)	<0.050		0.050	ug/g	21-MAY-21	0.05	3	
Surrogate: 4-Bromofluorobenzene	113.7		50-140	%	21-MAY-21			
Surrogate: 1,4-Difluorobenzene	114.0		50-140	%	21-MAY-21			
Hydrocarbons								
F1 (C6-C10)	<5.0		5.0	ug/g	21-MAY-21	25	25	
F1-BTEX	<5.0		5.0	ug/g	21-MAY-21	25	25	
F2 (C10-C16)	<10		10	ug/g	18-MAY-21	10	26	
F3 (C16-C34)	<50		50	ug/g	18-MAY-21	240	1700	
F4 (C34-C50)	<50		50	ug/g	18-MAY-21	120	3300	
Total Hydrocarbons (C6-C50)	<72		72	ug/g	21-MAY-21			
Chrom. to baseline at nC50	YES			No Unit	18-MAY-21			
Surrogate: 2-Bromobenzotrifluoride	89.7		60-140	%	18-MAY-21			
Surrogate: 3,4-Dichlorotoluene	114.0		60-140	%	21-MAY-21			

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

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



ANALYTICAL GUIDELINE REPORT

L2586898 CONTD....

Page 3 of 8 26-MAY-21 13-40 (MT)

46995-100		ICAL	GUID	LLINL	KLFOR	X I	2	Page 3 26-MAY-21 1	
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits	
L2586898-8 BH127-21 SS3 5-7FT									
Sampled By: MD on 12-MAY-21 @ 09:50									
Matrix: SOIL						#1	#2		
Physical Tests									
Conductivity	0.771		0.0040	mS/cm	25-MAY-21	*0.57	1.4		
% Moisture	5.26		0.25	%	16-MAY-21	0.07			
Saturated Paste Extractables	0.20		0.20	,,,					
SAR	36.2	SAR:M	0.10	SAR	25-MAY-21	*2.4	*12		
Calcium (Ca)	1.32	0,	0.50	mg/L	25-MAY-21	2.7	12		
Magnesium (Mg)	<0.50		0.50	mg/L	25-MAY-21				
Sodium (Na)	151		0.50	mg/L	25-MAY-21				
Metals									
Antimony (Sb)	<1.0		1.0	ug/g	25-MAY-21	1.3	40		
Arsenic (As)	2.4		1.0	ug/g	25-MAY-21	18	18		
Barium (Ba)	32.7		1.0	ug/g	25-MAY-21	220	670		
Beryllium (Be)	<0.50		0.50	ug/g	25-MAY-21	2.5	8		
Boron (B)	5.3		5.0	ug/g	25-MAY-21	36	120		
Cadmium (Cd)	<0.50		0.50	ug/g	25-MAY-21	1.2	1.9		
Chromium (Cr)	15.6		1.0	ug/g	25-MAY-21	70	160		
Cobalt (Co)	3.0		1.0	ug/g	25-MAY-21	21	80		
Copper (Cu)	12.9		1.0	ug/g	25-MAY-21	92	230		
Lead (Pb)	20.4		1.0	ug/g	25-MAY-21	120	120		
Molybdenum (Mo)	<1.0		1.0	ug/g	25-MAY-21	2	40		
Nickel (Ni)	6.6		1.0	ug/g	25-MAY-21	82	270		
Selenium (Se)	<1.0		1.0	ug/g	25-MAY-21	1.5	5.5		
Silver (Ag)	<0.20		0.20	ug/g	25-MAY-21	0.5	40		
Thallium (TI)	<0.50		0.50	ug/g	25-MAY-21	1	3.3		
Uranium (U)	<1.0		1.0	ug/g	25-MAY-21	2.5	33		
Vanadium (V)	15.5		1.0	ug/g	25-MAY-21	86	86		
Zinc (Zn)	53.9		5.0	ug/g	25-MAY-21	290	340		
Volatile Organic Compounds									
Benzene	<0.0068		0.0068	ug/g	21-MAY-21	0.02	0.034		
Ethylbenzene	<0.018		0.018	ug/g	21-MAY-21	0.05	1.9		
Toluene	<0.080		0.080	ug/g	21-MAY-21	0.2	7.8		
o-Xylene	<0.020		0.020	ug/g	21-MAY-21				
m+p-Xylenes	<0.030		0.030	ug/g	21-MAY-21				
Xylenes (Total)	<0.050		0.050	ug/g	21-MAY-21	0.05	3		
Surrogate: 4-Bromofluorobenzene	111.3		50-140	%	21-MAY-21				
Surrogate: 1,4-Difluorobenzene	110.5		50-140	%	21-MAY-21				
Hydrocarbons				,					
F1 (C6-C10)	<5.0		5.0	ug/g	21-MAY-21	25	25		
F1-BTEX	<5.0		5.0	ug/g	21-MAY-21	25	25		
F2 (C10-C16)	<10		10	ug/g	18-MAY-21	10	26		
F3 (C16-C34)	79		50	ug/g	18-MAY-21	240	1700		
F4 (C34-C50)	168		50	ug/g	18-MAY-21	*120	3300		
F4G-SG (GHH-Silica)	700		250	ug/g	18-MAY-21	*120	3300		
Total Hydrocarbons (C6-C50)	248		72	ug/g	21-MAY-21				
Chrom. to baseline at nC50 Surrogate: 2-Bromobenzotrifluoride	NO 86.8		60-140	No Unit %	18-MAY-21 18-MAY-21				
Surrogate: 3,4-Dichlorotoluene	108.1		60-140	% %	21-MAY-21				
Surrogate. 3,4-Dichiorotoluene	100.1		00-140	70	Z 1-1VIA Y -Z I				

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

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



46995-100

ANALYTICAL GUIDELINE REPORT

L2586898 CONTD....

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46995-100											
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guidelir	ne Limits			
L2586898-13 BH128-21 SS2 2.5-4.5FT											
Sampled By: MD on 12-MAY-21 @ 11:20											
Matrix: SOIL						#1	#2				
Physical Tests											
% Moisture	4.06		0.25	%	16-MAY-21						
Metals			0.20	, ,							
Antimony (Sb)	<1.0		1.0	ug/g	25-MAY-21	1.3	40				
Arsenic (As)	2.4		1.0	ug/g	25-MAY-21	18	18				
Barium (Ba)	22.0		1.0	ug/g	25-MAY-21	220	670				
Beryllium (Be)	<0.50		0.50	ug/g	25-MAY-21	2.5	8				
Boron (B)	<5.0		5.0	ug/g	25-MAY-21	36	120				
Cadmium (Cd)	<0.50		0.50	ug/g	25-MAY-21	1.2	1.9				
Chromium (Cr)	8.0		1.0	ug/g	25-MAY-21	70	160				
Cobalt (Co)	2.9		1.0	ug/g	25-MAY-21	21	80				
Copper (Cu)	12.8		1.0	ug/g	25-MAY-21	92	230				
Lead (Pb)	28.8		1.0	ug/g	25-MAY-21	120	120				
Molybdenum (Mo)	<1.0		1.0	ug/g	25-MAY-21	2	40				
Nickel (Ni)	5.8		1.0	ug/g	25-MAY-21	82	270				
Selenium (Se)	<1.0		1.0	ug/g	25-MAY-21	1.5	5.5				
Silver (Ag)	<0.20		0.20	ug/g	25-MAY-21	0.5	40				
Thallium (TI)	<0.50		0.50	ug/g	25-MAY-21	1	3.3				
Uranium (U)	<1.0		1.0	ug/g	25-MAY-21	2.5	33				
Vanadium (V)	14.7		1.0	ug/g	25-MAY-21	86	86				
Zinc (Zn)	51.6		5.0	ug/g	25-MAY-21	290	340				
Volatile Organic Compounds											
Benzene	<0.0068		0.0068	ug/g	21-MAY-21	0.02	0.034				
Ethylbenzene	<0.018		0.018	ug/g	21-MAY-21	0.02	1.9				
Toluene	<0.080		0.080	ug/g	21-MAY-21	0.2	7.8				
o-Xylene	<0.020		0.020	ug/g	21-MAY-21	0.2	7.0				
m+p-Xylenes	<0.030		0.030	ug/g	21-MAY-21						
Xylenes (Total)	<0.050		0.050	ug/g	21-MAY-21	0.05	3				
Surrogate: 4-Bromofluorobenzene	114.2		50-140	%	21-MAY-21						
Surrogate: 1,4-Difluorobenzene	113.3		50-140	%	21-MAY-21						
Hydrocarbons											
F1 (C6-C10)	<5.0		5.0	ug/g	21-MAY-21	25	25				
F1-BTEX	<5.0		5.0	ug/g	25-MAY-21	25	25				
F2 (C10-C16)	<10		10	ug/g	25-MAY-21	10	26				
F3 (C16-C34)	<50		50	ug/g	25-MAY-21	240	1700				
F4 (C34-C50)	<50		50	ug/g	25-MAY-21	120	3300				
Total Hydrocarbons (C6-C50)	<72		72	ug/g	25-MAY-21	0					
Chrom. to baseline at nC50	YES			No Unit	25-MAY-21						
Surrogate: 2-Bromobenzotrifluoride	90.1		60-140	%	25-MAY-21						
Surrogate: 3,4-Dichlorotoluene	116.2		60-140	%	21-MAY-21						
L2586898-14 BH128-21 SS3 5-7FT											
Sampled By: MD on 12-MAY-21 @ 11:30											
Matrix: SOIL						#1	#2				
Physical Tests											
-	6.40		0.25	0/	16 MAY 24						
% Moisture	6.12		0.25	%	16-MAY-21						
Metals											

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

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



ANALYTICAL GUIDELINE REPORT

L2586898 CONTD....

Page 5 of 8 26-MAY-21 13-40 (MT)

Unite			20	5-MAY-21 13:40 (M		
Units	Analyzed		Guideline Limits			
		#1	#2			
	=					
ug/g	25-MAY-21	1.3	40			
ug/g ug/g	25-MAY-21	1.3	18			
ug/g ug/g	25-MAY-21	220	670			
ug/g ug/g	25-MAY-21	2.5	8			
ug/g ug/g	25-MAY-21	36	120			
ug/g ug/g	25-MAY-21	36	2			
ug/g ug/g	25-MAY-21	1.2	1.9			
ug/g ug/g	25-MAY-21	70	160			
	25-MAY-21	21	80			
ug/g	25-MAY-21	92	230			
ug/g	25-MAY-21	92 120	120			
ug/g	25-MAY-21					
ug/g		0.27	0.27			
ug/g	25-MAY-21	2	40			
ug/g	25-MAY-21	82	270			
ug/g	25-MAY-21	1.5	5.5			
ug/g	25-MAY-21	0.5	40			
ug/g	25-MAY-21	1	3.3			
ug/g	25-MAY-21	2.5	33			
ug/g	25-MAY-21	86	86			
ug/g	25-MAY-21	290	340			
ug/g	19-MAY-21	0.66	8			
ug/g	21-MAY-21	0.02	0.034			
ug/g	21-MAY-21	0.05	1.9			
ug/g	21-MAY-21	0.2	7.8			
ug/g	21-MAY-21					
ug/g	21-MAY-21					
ug/g	21-MAY-21	0.05	3			
%	21-MAY-21					
%	21-MAY-21					
ug/g	21-MAY-21	25	25			
ug/g	25-MAY-21	25	25			
	25-MAY-21	10	26			
	25-MAY-21	240	1700			
	25-MAY-21	120	3300			
	25-MAY-21	-				
No Unit	25-MAY-21					
%	25-MAY-21					
%	21-MAY-21					
%	21-MAY-21					
	ug/g ug/g ug/g ug/g ug/g ug/g ug/g ug/g	ug/g 19-MAY-21 ug/g 21-MAY-21 ug/g 21-MAY-21 ug/g 21-MAY-21 ug/g 21-MAY-21 ug/g 21-MAY-21 ug/g 21-MAY-21 % 21-MAY-21 % 21-MAY-21 wg/g 21-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 vg/g 25-MAY-21 vg/g 25-MAY-21 vg/g 25-MAY-21 vg/g 25-MAY-21 vg/g 25-MAY-21 vg/g 25-MAY-21	ug/g 19-MAY-21 0.66 ug/g 21-MAY-21 0.02 ug/g 21-MAY-21 0.05 ug/g 21-MAY-21 0.2 ug/g 21-MAY-21 0.2 ug/g 21-MAY-21 ug/g 21-MAY-21 ug/g 21-MAY-21 wg/g 21-MAY-21 % 21-MAY-21 % 21-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 ug/g 25-MAY-21 No Unit 25-MAY-21 % 25-MAY-21	ug/g 19-MAY-21 0.66 8 ug/g 21-MAY-21 0.02 0.034 ug/g 21-MAY-21 0.05 1.9 ug/g 21-MAY-21 0.2 7.8 ug/g 21-MAY-21 0.2 7.8 ug/g 21-MAY-21 0.05 3 % 21-MAY-21 0.05 3 % 21-MAY-21 25 25 ug/g 25-MAY-21 25 25 ug/g 25-MAY-21 10 26 ug/g 25-MAY-21 240 1700 ug/g 25-MAY-21 120 3300 ug/g 25-MAY-21 120 3300 No Unit 25-MAY-21 25-MAY-21 25-MAY-21 % 25-MAY-21 25-MAY-21 25-MAY-21		

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

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

Sample Parameter Qualifier key listed:

 Qualifier
 Description

 SAR:M
 Reported SAR represents a maximum value. Actual SAR may be lower if both Ca and Mg were detectable.

 Methods Listed (if applicable):

 ALS Test Code
 Matrix
 Test Description
 Method Reference****

 B-HWS-R511-WT
 Soil
 Boron-HWE-O.Reg 153/04 (July HW EXTR, EPA 6010B

A dried solid sample is extracted with calcium chloride, the sample undergoes a heating process. After cooling the sample is filtered and analyzed by ICP/OES.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

BTX-511-HS-WT Soil BTEX-O.Reg 153/04 (July 2011) SW846 8260

BTX is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/MS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

CR-CR6-IC-WT Soil Hexavalent Chromium in Soil SW846 3060A/7199

This analysis is carried out using procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846, Method 7199, published by the United States Environmental Protection Agency (EPA). The procedure involves analysis for chromium (VI) by ion chromatography using diphenylcarbazide in a sulphuric acid solution.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

EC-WT Soil Conductivity (EC) MOEE E3138

A representative subsample is tumbled with de-ionized (DI) water. The ratio of water to soil is 2:1 v/w. After tumbling the sample is then analyzed by a conductivity meter.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

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

Parameters

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

Hydrocarbon results are expressed on a dry weight basis.

In cases where results for both F4 and F4G are reported, the greater of the two results must be used in any application of the CWS PHC guidelines and the gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.

In samples where BTEX and F1 were analyzed, F1-BTEX represents a value where the sum of Benzene, Toluene, Ethylbenzene and total Xylenes has been subtracted from F1.

In samples where PAHs, F2 and F3 were analyzed, F2-Naphth represents the result where Naphthalene has been subtracted from F2. F3-PAH represents a result where the sum of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene. Phenanthrene, and Pyrene has been subtracted from F3.

Unless otherwise qualified, the following quality control criteria have been met for the F1 hydrocarbon range:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing response factors for C6 and C10 within 30% of the response factor for toluene.
- 3. Linearity of gasoline response within 15% throughout the calibration range.

Unless otherwise qualified, the following quality control criteria have been met for the F2-F4 hydrocarbon ranges:

- 1. All extraction and analysis holding times were met.
- 2. Instrument performance showing C10, C16 and C34 response factors within 10% of their average.
- 3. Instrument performance showing the C50 response factor within 30% of the average of the C10, C16 and C34 response factors.
- 4. Linearity of diesel or motor oil response within 15% throughout the calibration range.

F1-HS-511-WT Soil F1-O.Reg 153/04 (July 2011) E3398/CCME TIER 1-HS

Fraction F1 is determined by extracting a soil or sediment sample as received with methanol, then analyzing by headspace-GC/FID.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F2-F4-511-WT

Soil

F2-F4-O.Reg 153/04 (July 2011) CCME Tier 1

Petroleum Hydrocarbons (F2-F4 fractions) are extracted from soil with 1:1 hexane:acetone using a rotary extractor. Extracts are treated with silica gel to remove polar organic interferences. F2, F3, & F4 are analyzed by GC-FID. F4G-sg is analyzed gravimetrically.

Notes:

- 1. F2 (C10-C16): Sum of all hydrocarbons that elute between nC10 and nC16.
- 2. F3 (C16-C34): Sum of all hydrocarbons that elute between nC16 and nC34.
- 3. F4 (C34-C50): Sum of all hydrocarbons that elute between nC34 and nC50.
- 4. F4G: Gravimetric Heavy Hydrocarbons
- 5. F4G-sq: Gravimetric Heavy Hydrocarbons (F4G) after silica gel treatment.
- 6. Where both F4 (C34-C50) and F4G-sq are reported for a sample, the larger of the two values is used for comparison against the relevant CCME guideline for F4.
- 7. F4G-sq cannot be added to the C6 to C50 hydrocarbon results to obtain an estimate of total extractable hydrocarbons.
- 8. This method is validated for use.
- 9. Data from analysis of validation and quality control samples is available upon request.
- 10. Reported results are expressed as milligrams per dry kilogram, unless otherwise indicated.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

F4G-ADD-511-WT

F4G SG-O.Reg 153/04 (July

MOE DECPH-E3398/CCME TIER 1

2011)
F4G, gravimetric analysis, is determined if the chromatogram does not return to baseline at or before C50. A soil sample is extracted with a solvent mix, the solvent is evaporated and the weight of the residue is determined.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

HG-200.2-CVAA-WT

Soil

Mercury in Soil by CVAAS

EPA 200.2/1631E (mod)

Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

MET-200.2-CCMS-WT

Metals in Soil by CRC ICPMS

EPA 200.2/6020B (mod)

Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.

Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).

MOISTURE-WT

Soil

% Moisture

CCME PHC in Soil - Tier 1 (mod)

PH-WT

Soil

pΗ

MOEE E3137A

A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

SAR-R511-WT

Soil

SAR-O.Reg 153/04 (July 2011) SW846 6010C

A dried, disaggregated solid sample is extracted with deionized water, the aqueous extract is separated from the solid, acidified and then analyzed using a ICP/OES. The concentrations of Na, Ca and Mg are reported as per CALA requirements for calculated parameters. These individual parameters are not for comparison to any guideline.

Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).

XYLENES-SUM-CALC-

Soil

Sum of Xvlene Isomer Concentrations

CALCULATION

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

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

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

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



Workorder: L2586898 Report Date: 26-MAY-21 Page 1 of 8

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
B-HWS-R511-WT	Soil							
Batch R546856 WG3540297-4 DUP Boron (B), Hot Water		L2587864-4 <0.10	<0.10	RPD-NA	ug/g	N/A	30	25-MAY-21
WG3540297-2 IRM Boron (B), Hot Water		WT SAR4	92.4		%		70-130	25-MAY-21
WG3540297-3 LCS Boron (B), Hot Water	Ext.		99.9		%		70-130	25-MAY-21
WG3540297-1 MB Boron (B), Hot Water	Ext.		<0.10		ug/g		0.1	25-MAY-21
BTX-511-HS-WT	Soil							
Batch R546178	7							
WG3534902-4 DUP Benzene		WG3534902-3 <0.0068	<0.0068	RPD-NA	ug/g	N/A	40	24 MAV 24
Ethylbenzene		<0.008	<0.008	RPD-NA	ug/g ug/g	N/A N/A	40	21-MAY-21 21-MAY-21
m+p-Xylenes		<0.030	<0.030	RPD-NA	ug/g	N/A	40	21-MAY-21
o-Xylene		<0.020	<0.020	RPD-NA	ug/g	N/A	40	21-MAY-21
Toluene		<0.080	<0.080	RPD-NA	ug/g	N/A	40	21-MAY-21
WG3534902-2 LCS		10.000	10.000	IN D IVA	~9 [,] 9	14/74	40	21-IVIA1-21
Benzene			98.2		%		70-130	21-MAY-21
Ethylbenzene			100.1		%		70-130	21-MAY-21
m+p-Xylenes			93.8		%		70-130	21-MAY-21
o-Xylene			99.8		%		70-130	21-MAY-21
Toluene			96.7		%		70-130	21-MAY-21
WG3534902-1 MB					,			
Benzene			<0.0068		ug/g		0.0068	21-MAY-21
Ethylbenzene			<0.018		ug/g		0.018	21-MAY-21
m+p-Xylenes			<0.030		ug/g		0.03 0.02	21-MAY-21
o-Xylene Toluene			<0.020 <0.080		ug/g ug/g		0.02	21-MAY-21
Surrogate: 1,4-Difluoro	nhenzene		110.5		ug/g %		50-140	21-MAY-21
Surrogate: 4-Bromoflu			112.2		%		50-140	21-MAY-21 21-MAY-21
WG3534902-5 MS	0.0001120110	WG3534902-3			70		00 170	Z 1-1VIM 1 -Z 1
Benzene		VVG5554902-5	101.0		%		60-140	21-MAY-21
Ethylbenzene			105.0		%		60-140	21-MAY-21
m+p-Xylenes			98.6		%		60-140	21-MAY-21
o-Xylene			104.0		%		60-140	21-MAY-21
Toluene			101.7		%		60-140	21-MAY-21



Qualifier

Workorder: L2586898 Report Date: 26-MAY-21 Page 2 of 8

RPD

Limit

Analyzed

Units

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

Reference

Result

KITCHENER ON N2B 3X9

Matrix

Contact: JEN LAMBKE

Test

CR-CR6-IC-WT	Soil				
Batch R5459780					
WG3536443-4 CRM	WT-SQC012				
Chromium, Hexavalent		100.6	%	70-130	19-MAY-21
WG3536443-3 DUP	L2587115-1				
Chromium, Hexavalent	<0.20	<0.20 RPD-NA	ug/g	N/A 35	19-MAY-21
WG3536443-2 LCS					
Chromium, Hexavalent		96.9	%	80-120	19-MAY-21
WG3536443-1 MB					
Chromium, Hexavalent		<0.20	ug/g	0.2	19-MAY-21
EC-WT	Soil				
Batch R5466681					
WG3539684-4 DUP	WG3539684-	3			
Conductivity	0.168	0.166	mS/cm	1.0 20	25-MAY-21
WG3539684-2 IRM	WT SAR4				
Conductivity		106.8	%	70-130	25-MAY-21
WG3540588-1 LCS					
Conductivity		101.4	%	90-110	25-MAY-21
WG3539684-1 MB					
Conductivity		<0.0040	mS/cm	0.004	25-MAY-21
F1-HS-511-WT	Soil				
Batch R5461787					
WG3534902-4 DUP	WG3534902- 3 <5.0			N/A 00	
F1 (C6-C10)	<5.0	<5.0 RPD-NA	ug/g	N/A 30	21-MAY-21
WG3534902-2 LCS		400.0	0/		
F1 (C6-C10)		108.0	%	80-120	21-MAY-21
WG3534902-1 MB			,	_	
F1 (C6-C10)		<5.0	ug/g	5	21-MAY-21
Surrogate: 3,4-Dichlorote	oluene	119.1	%	60-140	21-MAY-21
WG3534902-5 MS	WG3534902-				
F1 (C6-C10)		104.5	%	60-140	21-MAY-21
F2-F4-511-WT	Soil				
Batch R5459258					
WG3536323-3 DUP	WG3536323-	5			
F2 (C10-C16)	<10	<10 RPD-NA	ug/g	N/A 30	18-MAY-21
F3 (C16-C34)	<50	<50 RPD-NA		N/A 30	18-MAY-21
F4 (C34-C50)					
	<50	<50 RPD-NA	ug/g	N/A 30	18-MAY-21
WG3536323-2 LCS		400.0	0/		
F2 (C10-C16)		106.6	%	80-120	18-MAY-21



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
F2-F4-511-WT		Soil							
Batch R	5459258								
WG3536323-2 F3 (C16-C34)	LCS			107.1		%		80-120	18-MAY-21
F4 (C34-C50)				104.0		%		80-120	18-MAY-21
WG3536323-1	MB								
F2 (C10-C16)				<10		ug/g		10	18-MAY-21
F3 (C16-C34)				<50		ug/g ,		50	18-MAY-21
F4 (C34-C50)				<50		ug/g		50	18-MAY-21
Surrogate: 2-Bi		totrifluoride		77.6		%		60-140	18-MAY-21
WG3536323-4 F2 (C10-C16)	MS		WG3536323-5	104.8		%		60-140	18-MAY-21
F3 (C16-C34)				102.7		%		60-140	18-MAY-21
F4 (C34-C50)				100.0		%		60-140	18-MAY-21
Batch R	5465866								
WG3536632-3 F2 (C10-C16)	DUP		WG3536632-5 <10	<10	RPD-NA	ug/g	N/A	30	25-MAY-21
F3 (C16-C34)			<50	<50	RPD-NA	ug/g	N/A	30	25-MAY-21
F4 (C34-C50)			<50	<50	RPD-NA	ug/g	N/A	30	25-MAY-21
WG3536632-2	1.00		\ 30	\ 30	RPD-NA	ug/g	IN/A	30	25-IVIA Y -2 I
F2 (C10-C16)	LCS			96.6		%		80-120	25-MAY-21
F3 (C16-C34)				100.1		%		80-120	25-MAY-21
F4 (C34-C50)				99.5		%		80-120	25-MAY-21
WG3536632-1 F2 (C10-C16)	MB			<10		ug/g		10	25-MAY-21
F3 (C16-C34)				<50		ug/g		50	25-MAY-21
F4 (C34-C50)				<50		ug/g		50	25-MAY-21
Surrogate: 2-Bi	romobenz	otrifluoride		95.3		%		60-140	25-MAY-21
WG3536632-4	MS		WG3536632-5					-	20 111111 21
F2 (C10-C16)				93.7		%		60-140	25-MAY-21
F3 (C16-C34)				98.7		%		60-140	25-MAY-21
F4 (C34-C50)				100.2		%		60-140	25-MAY-21
F4G-ADD-511-WT		Soil							
Batch R	5459431								
WG3537073-2 F4G-SG (GHH-				73.6		%		60-140	18-MAY-21
WG3537073-1 F4G-SG (GHH	МВ			<250		ug/g		250	18-MAY-21
,	,								



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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-200.2-CVAA-WT		Soil							
Batch R546									
WG3540295-2 C Mercury (Hg)	CRM		WT-SS-2	103.8		%		70-130	25-MAY-21
WG3540295-6 D Mercury (Hg)	OUP		WG3540295-5 0.0070	0.0077		ug/g	9.5	40	25-MAY-21
WG3540295-3 L Mercury (Hg)	_cs			104.0		%		80-120	25-MAY-21
WG3540295-1 N Mercury (Hg)	ИΒ			<0.0050		mg/kg		0.005	25-MAY-21
MET-200.2-CCMS-WT	Г	Soil							
Batch R546	6856								
WG3539551-9 C	CRM		WT-SS-2	101.4		%		70-130	25-MAY-21
Arsenic (As)				109.9		%		70-130	25-MAY-21
Barium (Ba)				109.1		%		70-130	25-MAY-21
Beryllium (Be)				90.7		%		70-130	25-MAY-21
Boron (B)				7.9		mg/kg		3.5-13.5	25-MAY-21
Cadmium (Cd)				106.4		%		70-130	25-MAY-21
Chromium (Cr)				103.3		%		70-130	25-MAY-21
Cobalt (Co)				96.7		%		70-130	25-MAY-21
Copper (Cu)				107.0		%		70-130	25-MAY-21
Lead (Pb)				106.2		%		70-130	25-MAY-21
Molybdenum (Mo)				105.1		%		70-130	25-MAY-21
Nickel (Ni)				101.7		%		70-130	25-MAY-21
Selenium (Se)				0.13		mg/kg		0-0.34	25-MAY-21
Silver (Ag)				108.6		%		70-130	25-MAY-21
Thallium (TI)				0.073		mg/kg		0.029-0.129	25-MAY-21
Uranium (U)				95.3		%		70-130	25-MAY-21
Vanadium (V)				101.0		%		70-130	25-MAY-21
Zinc (Zn)				100.3		%		70-130	25-MAY-21
WG3539551-12 DAntimony (Sb)	OUP		L2587614-4 <1.0	<1.0	RPD-NA	ug/g	N/A	30	25-MAY-21
Arsenic (As)			3.3	3.2		ug/g	0.6	30	25-MAY-21
Barium (Ba)			51.1	49.6		ug/g	3.0	40	25-MAY-21
Beryllium (Be)			<0.50	<0.50	RPD-NA	ug/g	N/A	30	25-MAY-21
Boron (B)			6.6	6.2		ug/g	5.0	30	25-MAY-21



Workorder: L2586898 Report Date: 26-MAY-21 Page 5 of 8

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

est	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5466856								
WG3539551-12 DUP Cadmium (Cd)		L2587614-4 < 0.50	<0.50	DDD MA	ug/g	NI/A	20	05 MANY 04
Chromium (Cr)		<0.50 13.7	13.0	RPD-NA	ug/g	N/A	30	25-MAY-21
					ug/g	4.5	30	25-MAY-21
Cobalt (Co)		6.1	6.1		ug/g	0.8	30	25-MAY-21
Copper (Cu)		13.9	13.7		ug/g	1.0	30	25-MAY-21
Lead (Pb)		9.0	8.9		ug/g	1.4	40	25-MAY-21
Molybdenum (Mo)		<1.0	<1.0	RPD-NA	ug/g	N/A	40	25-MAY-21
Nickel (Ni)		12.5	12.8		ug/g	2.3	30	25-MAY-21
Selenium (Se)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	25-MAY-21
Silver (Ag)		<0.20	<0.20	RPD-NA	ug/g	N/A	40	25-MAY-21
Thallium (TI)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	25-MAY-21
Uranium (U)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	25-MAY-21
Vanadium (V)		24.7	24.2		ug/g	1.9	30	25-MAY-21
Zinc (Zn)		48.6	49.5		ug/g	1.8	30	25-MAY-21
WG3539551-10 LCS Antimony (Sb)			105.5		%		80-120	25-MAY-21
Arsenic (As)			98.4		%		80-120	25-MAY-21
Barium (Ba)			92.7		%		80-120	25-MAY-21
Beryllium (Be)			89.7		%		80-120	25-MAY-21
Boron (B)			86.7		%		80-120	25-MAY-21
Cadmium (Cd)			98.5		%		80-120	25-MAY-21
Chromium (Cr)			96.4		%		80-120	25-MAY-21
Cobalt (Co)			89.5		%		80-120	25-MAY-21
Copper (Cu)			91.0		%		80-120	25-MAY-21
Lead (Pb)			104.0		%		80-120	25-MAY-21
Molybdenum (Mo)			99.5		%		80-120	25-MAY-21
Nickel (Ni)			91.4		%		80-120	25-MAY-21
Selenium (Se)			101.2		%		80-120	25-MAY-21
Silver (Ag)			84.5		%		80-120	25-MAY-21
Thallium (TI)			100.8		%		80-120	25-MAY-21
Uranium (U)			96.0		%		80-120	25-MAY-21
Vanadium (V)			98.5		%		80-120	25-MAY-21
Zinc (Zn)			92.7		%		80-120	25-MAY-21



Workorder: L2586898 Report Date: 26-MAY-21

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Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT	Soil							
Batch R5466856 WG3539551-8 MB								
Antimony (Sb)			<0.10		mg/kg		0.1	25-MAY-21
Arsenic (As)			<0.10		mg/kg		0.1	25-MAY-21
Barium (Ba)			<0.50		mg/kg		0.5	25-MAY-21
Beryllium (Be)			<0.10		mg/kg		0.1	25-MAY-21
Boron (B)			<5.0		mg/kg		5	25-MAY-21
Cadmium (Cd)			<0.020		mg/kg		0.02	25-MAY-21
Chromium (Cr)			<0.50		mg/kg		0.5	25-MAY-21
Cobalt (Co)			<0.10		mg/kg		0.1	25-MAY-21
Copper (Cu)			<0.50		mg/kg		0.5	25-MAY-21
Lead (Pb)			<0.50		mg/kg		0.5	25-MAY-21
Molybdenum (Mo)			<0.10		mg/kg		0.1	25-MAY-21
Nickel (Ni)			<0.50		mg/kg		0.5	25-MAY-21
Selenium (Se)			<0.20		mg/kg		0.2	25-MAY-21
Silver (Ag)			<0.10		mg/kg		0.1	25-MAY-21
Thallium (TI)			< 0.050		mg/kg		0.05	25-MAY-21
Uranium (U)			<0.050		mg/kg		0.05	25-MAY-21
Vanadium (V)			<0.20		mg/kg		0.2	25-MAY-21
Zinc (Zn)			<2.0		mg/kg		2	25-MAY-21
MOISTURE-WT	Soil							
Batch R5458097								
WG3535337-3 DUP % Moisture		L2586911-2 4.83	4.75		%	1.7	20	16-MAY-21
WG3535337-2 LCS % Moisture			98.9		%		90-110	16-MAY-21
WG3535337-1 MB % Moisture			<0.25		%		0.25	16-MAY-21
PH-WT	Soil							
Batch R5462643 WG3536477-1 DUP pH		L2587864-5 7.81	7.84	J	pH units	0.03	0.3	21-MAY-21
WG3539233-1 LCS pH			6.97		pH units		6.9-7.1	21-MAY-21
SAR-R511-WT	Soil							



Workorder: L2586898 Report Date: 26-MAY-21

Page 7 of 8

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
SAR-R511-WT		Soil							
Batch R5	466984								
WG3539684-4	DUP		WG3539684-3						
Calcium (Ca)			24.6	24.1		mg/L	2.1	30	25-MAY-21
Sodium (Na)			4.56	4.38		mg/L	4.0	30	25-MAY-21
Magnesium (Mg	g)		3.00	2.95		mg/L	1.7	30	25-MAY-21
WG3539684-2	IRM		WT SAR4						
Calcium (Ca)				116.4		%		70-130	25-MAY-21
Sodium (Na)				97.0		%		70-130	25-MAY-21
Magnesium (Mg	g)			115.4		%		70-130	25-MAY-21
WG3539684-5	LCS								
Calcium (Ca)				107.0		%		80-120	25-MAY-21
Sodium (Na)				101.4		%		80-120	25-MAY-21
Magnesium (Mg	g)			102.4		%		80-120	25-MAY-21
WG3539684-1	МВ								
Calcium (Ca)				<0.50		mg/L		0.5	25-MAY-21
Sodium (Na)				<0.50		mg/L		0.5	25-MAY-21
Magnesium (Mo	g)			<0.50		mg/L		0.5	25-MAY-21

Workorder: L2586898 Report Date: 26-MAY-21

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

Page 8 of 8

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Legend:

Limit ALS Control Limit (Data Quality Objectives)

DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

ADE Average Desorption Efficiency

MB Method Blank

IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

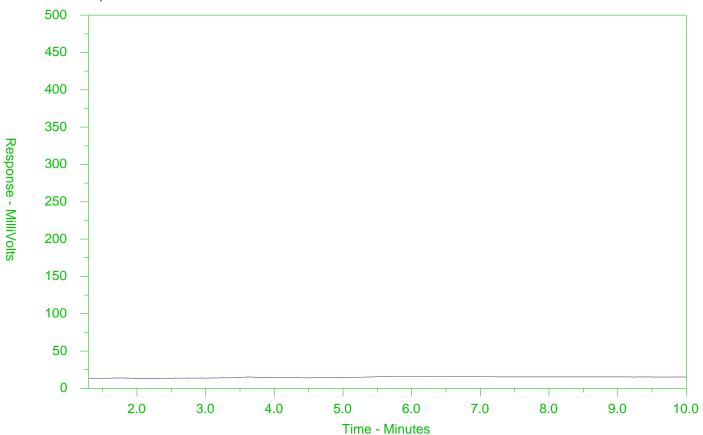
The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



ALS Sample ID: L2586898-3

Client Sample ID: BH124-21 SS3 5-7FT



← -F2-	→ ←	—F3 —→←—F4—	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ıe →	← Mot	tor Oils/Lube Oils/Grease——	-
←	– Diesel/Je	t Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

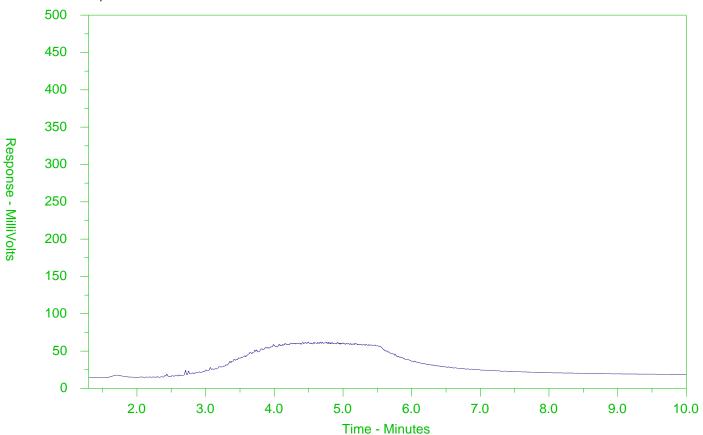
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2586898-8

Client Sample ID: BH127-21 SS3 5-7FT



← -F2-	→ ←	—F3 → ← F4—	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ıe →	← Mot	or Oils/Lube Oils/Grease-	
←	- Diesel/Je	t Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

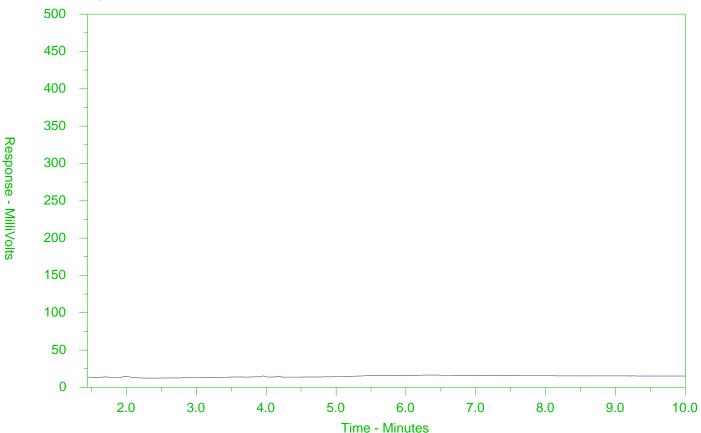
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2586898-13

Client Sample ID: BH128-21 SS2 2.5-4.5FT



← -F2-	→←	_F3 → F4-	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	tor Oils/Lube Oils/Grease	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

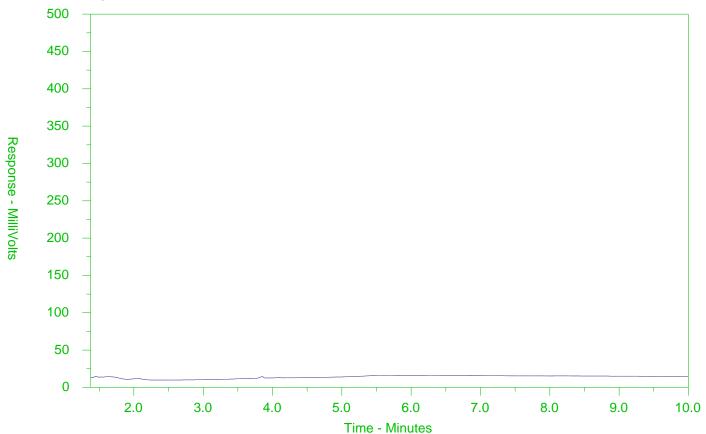
The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



ALS Sample ID: L2586898-14

Client Sample ID: BH128-21 SS3 5-7FT



← -F2-	→←	_F3 F4_	→	
nC10	nC16	nC34	nC50	
174°C	287°C	481°C	575°C	
346°F	549°F	898°F	1067°F	
Gasolin	ie →	← Mo	otor Oils/Lube Oils/Grease——	-
←	-Diesel/Jet	Fuels→		

The CCME F2-F4 Hydrocarbon Distribution Report (HDR) is intended to assist you in characterizing hydrocarbon products that may be present in your sample.

The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products and four n-alkane hydrocarbon marker compounds. Retention times may vary between samples, but general patterns and distributions will remain similar.

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



Chain of Custody (COC) / Analytical **Request Form**

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Phone:	519-502-3268					I (QC) Report with				4 da	y [P4	-20%]		Т	1 Business day [E - 100%]									
	Company address be	Blow will oppo			✓ Compare Resu	lts to Criteria on Report	- provide details bel	ow if box checked	PER		y [P3			- 1	- T									
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Chain of Custody (COC) / Analytical **Request Form**



OC Number: 17 -

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Company:	MTE		Select Report	Format: 🔽 PDF	☑ EXCEL ☑ E	DD (DIGITAL)							Contact your AM to confirm all E&P TATs (surcharges may apply) TAT if received by 3 pm - business days - no surcharges apply									
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Phone:	519-502-3268		☑Compare Resu	its to Criteria on Report	- provide details bek	ow if box checked	E 2	1	y [P3-	_			RGEN	1					•			_
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Drinking '	Water (DW) Samples¹ (client use)	Special Instructions / S	pecify Criteria to a	add on report by clic	cking on the drop	-down list below					SAN	IPLE	CON	DITIO	N AS	RECI	EIVED	(lab	use on	ly)		
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	numan consumption/ use?	Table 4 Bas Table 5 :	D/D/I T : - :				Cool		tiated			•									•	
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Date:

WHITE - LABORATORY COPY YELLOW - CLIENT COPY Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy. 1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

Received by:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION



MTE CONSULTANTS INC. (Kitchener)

ATTN: JEN LAMBKE

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Date Received: 04-MAY-21

Report Date: 18-MAY-21 09:53 (MT)

Version: FINAL REV. 2

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2583163

Project P.O. #: NOT SUBMITTED

Job Reference: 46995-100

C of C Numbers: Legal Site Desc:

Comments: ADDITIONAL 12-MAY-21 14:14

Emily Hansen Account Manager

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ADDRESS: 60 Northland Road, Unit 1, Waterloo, ON N2V 2B8 Canada | Phone: +1 519 886 6910 | Fax: +1 519 886 9047

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ANALYTICAL GUIDELINE REPORT

L2583163 CONTD....

Page 2 of 4 8-MAY-21 09:53 (MT

Sample Details Grouping Analyte 2583163-6 BH117-21 MSPLP 5-6'6" sampled By: MATT D on 30-APR-21 @ 14:20 Matrix: SOIL Sample Preparation Initial pH Final pH FCLP Extractables Cyanide, Weak Acid Diss	9.24 5.03	Qualifier	D.L. 0.10	Units pH units	Analyzed	#1	Guideline Limits	
sampled By: MATT D on 30-APR-21 @ 14:20 Matrix: SOIL Sample Preparation Initial pH Final pH FCLP Extractables			0.10	nH unito		#1		
Matrix: SOIL Sample Preparation Initial pH Final pH ICLP Extractables			0.10	nH unita		#1		
Sample Preparation Initial pH Final pH FCLP Extractables			0.10	nH unito		#1		
Initial pH Final pH ICLP Extractables			0.10	nU unita				
Initial pH Final pH ICLP Extractables			0.10	nH unito				
Final pH FCLP Extractables				DH UHIIS	14-MAY-21			
TCLP Extractables			0.10	pH units	14-MAY-21			
Cyanide, Weak Acid Diss								
	<0.10		0.10	mg/L	14-MAY-21	20		
Fluoride (F)	<10		10	mg/L	14-MAY-21	150.0		
Nitrate and Nitrite as N	<4.0		4.0	mg/L	14-MAY-21	1000		
Nitrate-N	<2.0		2.0	mg/L	14-MAY-21			
Nitrite-N	<2.0		2.0	mg/L	14-MAY-21			
CLP Metals				· ·				
Arsenic (As)	<0.050		0.050	mg/L	14-MAY-21	2.5		
Barium (Ba)	1.72		0.50	mg/L	14-MAY-21	100		
Boron (B)	<2.5		2.5	mg/L	14-MAY-21	500		
Cadmium (Cd)	<0.0050		0.0050	mg/L	14-MAY-21	0.5		
Chromium (Cr)	<0.050		0.050	mg/L	14-MAY-21	5.0		
Lead (Pb)	0.224		0.025	mg/L	14-MAY-21	5.0		
Mercury (Hg)	<0.00010		0.00010	mg/L	14-MAY-21	0.1		
Selenium (Se)	<0.025		0.025	mg/L	14-MAY-21	1.0		
Silver (Ag)	<0.0050		0.0050	mg/L	14-MAY-21	5.0		
Uranium (U)	<0.25		0.25	mg/L	14-MAY-21	10		
TCLP VOCs								
1,1-Dichloroethylene	<0.025		0.025	mg/L	18-MAY-21	1.4		
1,2-Dichlorobenzene	<0.025		0.025	mg/L	18-MAY-21	20.0		
1,2-Dichloroethane	<0.025		0.025	mg/L	18-MAY-21	0.5		
1,4-Dichlorobenzene	<0.025		0.025	mg/L	18-MAY-21	0.5		
Benzene	<0.025		0.025	mg/L	18-MAY-21	0.5		
Carbon tetrachloride	<0.025		0.025	mg/L	18-MAY-21	0.5		
Chlorobenzene	<0.025		0.025	mg/L	18-MAY-21	8		
Chloroform	<0.10		0.10	mg/L	18-MAY-21	10		
Dichloromethane	<0.50		0.50	mg/L	18-MAY-21	5.0		
Methyl Ethyl Ketone	<1.0		1.0	mg/L	18-MAY-21	200.0		
Tetrachloroethylene	<0.025		0.025	mg/L	18-MAY-21	3		
Trichloroethylene	<0.025		0.025	mg/L	18-MAY-21	5		
Vinyl chloride	<0.050		0.050	mg/L	18-MAY-21	0.2		
Surrogate: 4-Bromofluorobenzene /olatile Organic Compounds	99.7		70-130	%	18-MAY-21			
Surrogate: 1,4-Difluorobenzene	99.9		70-130	%	18-MAY-21			

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

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

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
CN-TCLP-WT	Waste	Cyanide for O. Reg 347	APHA 4500CN I

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

F-TCLP-WT

Fluoride (F) for O. Rea 347

EPA 300.1

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from EPA 300.1 and is analyzed by Ion Chromatography with conductivity and/or UV detection.

HG-TCLP-WT

Waste

Mercury (CVAA) for O.Reg 347 EPA 1631E

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter and analysed using atomic absorption spectrophotometry (EPA 1631E).

LEACH-TCLP-WT

Waste

Leachate Procedure for Reg 347 EPA 1311

Inorganic and Semi-Volatile Organic contaminants are leached from waste samples in strict accordance with US EPA Method 1311, "Toxicity Characteristic Leaching Procedure" (TCLP). Test results are reported in leachate concentration units (normally mg/L).

MET-TCLP-WT

O.Reg 347 TCLP Leachable

EPA 6020B

Metals

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter. Instrumental analysis of the digested extract is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020B).

N2N3-TCLP-WT

Waste

Nitrate/Nitrite-N for O. Reg 347 EPA 300.1

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from EPA 300.1 and is analyzed by Ion Chromatography with conductivity and/or UV detection.

VOC-TCLP-WT

Waste

VOC for O. Reg 347

SW846 8260

A sample of waste is leached in a zero headspace extractor at 30-2 rpm for 18-2.0 hours with the appropriate leaching solution. After tumbling the leachate is analyzed directly by headspace technology, followed by GC/MS using internal standard quantitation.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

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

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Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million. < - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



Workorder: L2583163 Report Date: 18-MAY-21 Page 1 of 5

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CN-TCLP-WT	Waste							
Batch R5458649 WG3534764-3 DUP Cyanide, Weak Acid Di		L2583163-6 <0.10	<0.10	RPD-NA	mg/L	N/A	50	17-MAY-21
WG3534764-2 LCS Cyanide, Weak Acid Di	ss		105.7		%		70-130	14-MAY-21
WG3534764-1 MB Cyanide, Weak Acid Di	ss		<0.10		mg/L		0.1	14-MAY-21
WG3534764-4 MS Cyanide, Weak Acid Di	ss	L2583163-6	104.8		%		50-140	17-MAY-21
F-TCLP-WT	Waste							
Batch R5458766								
WG3535296-3 DUP Fluoride (F)		L2583163-6 <10	<10	RPD-NA	mg/L	N/A	30	14-MAY-21
WG3535296-2 LCS Fluoride (F)			91.1		%		70-130	14-MAY-21
WG3535296-1 MB Fluoride (F)			<10		mg/L		10	14-MAY-21
WG3535296-4 MS Fluoride (F)		L2583163-6	97.8		%		50-150	14-MAY-21
HG-TCLP-WT	Waste							
Batch R5457715								
WG3534785-3 DUP Mercury (Hg)		L2586929-1 <0.00010	<0.00010	RPD-NA	mg/L	N/A	50	14-MAY-21
WG3534785-2 LCS Mercury (Hg)			109.0		%		70-130	14-MAY-21
WG3534785-1 MB Mercury (Hg)			<0.00010		mg/L		0.0001	14-MAY-21
WG3534785-4 MS Mercury (Hg)		L2586929-1	102.6		%		50-140	14-MAY-21
MET-TCLP-WT	Waste							
Batch R5458421								
WG3534819-4 DUP Silver (Ag)		WG3534819-3 < 0.0050	<0.0050	RPD-NA	mg/L	N/A	50	14-MAY-21
Arsenic (As)		<0.050	<0.050	RPD-NA	mg/L	N/A	50	14-MAY-21
Boron (B)		<2.5	<2.5	RPD-NA	mg/L	N/A	50	14-MAY-21
Barium (Ba)		0.59	0.60		mg/L	1.6	50	14-MAY-21
Cadmium (Cd)		<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	14-MAY-21
Chromium (Cr)		<0.050	<0.050	RPD-NA	mg/L	N/A	50	14-MAY-21



Workorder: L2583163 Report Date: 18-MAY-21 Page 2 of 5

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TCLP-WT		Waste							
Batch R5	458421								
WG3534819-4 Lead (Pb)	DUP		WG3534819-3 < 0.025	<0.025	RPD-NA	mg/L	N/A	50	14-MAY-21
Selenium (Se)			<0.025	<0.025	RPD-NA	mg/L	N/A	50	14-MAY-21
Uranium (U)			<0.25	<0.25	RPD-NA	mg/L	N/A	50	14-MAY-21
WG3534819-2 Silver (Ag)	LCS			109.2		%		70-130	14-MAY-21
Arsenic (As)				99.4		%		70-130	14-MAY-21
Boron (B)				104.2		%		70-130	14-MAY-21
Barium (Ba)				106.1		%		70-130	14-MAY-21
Cadmium (Cd)				99.1		%		70-130	14-MAY-21
Chromium (Cr)				97.1		%		70-130	14-MAY-21
Lead (Pb)				104.3		%		70-130	14-MAY-21
Selenium (Se)				94.0		%		70-130	14-MAY-21
Uranium (U)				103.7		%		70-130	14-MAY-21
WG3534819-1 Silver (Ag)	MB			<0.0050		mg/L		0.005	14-MAY-21
Arsenic (As)				< 0.050		mg/L		0.05	14-MAY-21
Boron (B)				<2.5		mg/L		2.5	14-MAY-21
Barium (Ba)				<0.50		mg/L		0.5	14-MAY-21
Cadmium (Cd)				<0.0050		mg/L		0.005	14-MAY-21
Chromium (Cr)				<0.050		mg/L		0.05	14-MAY-21
Lead (Pb)				<0.025		mg/L		0.025	14-MAY-21
Selenium (Se)				<0.025		mg/L		0.025	14-MAY-21
Uranium (U)				<0.25		mg/L		0.25	14-MAY-21
WG3534819-5 Silver (Ag)	MS		WG3534819-3	133.3		%		50-140	14-MAY-21
Arsenic (As)				111.8		%		50-140	14-MAY-21
Boron (B)				116.6		%		50-140	14-MAY-21
Barium (Ba)				112.3		%		50-140	14-MAY-21
Cadmium (Cd)				112.2		%		50-140	14-MAY-21
Chromium (Cr)				109.5		%		50-140	14-MAY-21
Lead (Pb)				118.4		%		50-140	14-MAY-21
Selenium (Se)				106.2		%		50-140	14-MAY-21
Uranium (U)				117.1		%		50-140	14-MAY-21
NONG-TOLD-WT		Wasto							

N2N3-TCLP-WT Waste



Workorder: L2583163 Report Date: 18-MAY-21 Page 3 of 5

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Name	Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
Migrate-N Nigrate-N Nigrate-N RPD-NA mg/L N/A 25	N2N3-TCLP-WT		Waste							
Nirate-N	Batch	R5458766								
Nitrite-N		3 DUP								
MG3535296-2 LCS Nitrate-N 101.2 % 70-130 14-MAY-21 Mitrate-N 70-130 14-MAY-21 Mitrate-N 2.0 mg/L 2 14-MAY-21 Mitrate-N 2.0 mg/L 2 14-MAY-21 Mitrate-N 2.0 mg/L 2 14-MAY-21 Mitrate-N 2.0 mg/L 2 14-MAY-21 Mitrate-N 2.0 mg/L 2 14-MAY-21 Mitrate-N 101.2 % 50-150 14-MAY-21 Mitrate-N 105.2 % 50-150 14-MAY-21 Mitrate-N Massassassassassassassassassassassassass						RPD-NA		N/A	25	14-MAY-21
Nitrate-N Nitrite-N Nitra	Nitrite-N			<2.0	<2.0	RPD-NA	mg/L	N/A	25	14-MAY-21
WG3535296-1 MB Nitrate-N		2 LCS			101.2		%		70-130	14-MAY-21
Nitrate-N	Nitrite-N				99.1		%		70-130	14-MAY-21
Nitrite-N MS L2583163-6 Nitrate-N Nitrite-N 101.2 % 50-150 14-MAY-21 MS MS MS MS MS MS MS M		1 MB			<2.0		mg/L		2	14-MAY-21
Nitrate-N Nitr										
Nitrate-N 101.2 % 50-150 14-MAY-21 Nitrite-N 105.2 % 50-150 14-MAY-21 Nitrite-N 105.2 % 50-150 14-MAY-21 NITRITE-N 105.2 % 50-150 14-MAY-21 NITRITE-N 105.2 % 50-150 14-MAY-21 NITRITE-N 105.2 % 50-150 14-MAY-21 NITRITE-N 105.2 % 50-150 14-MAY-21 NITRITE-N 105.2 NITRITE-N		4 MS		1 2583163-6	-2.0		g/ =		-	14-WA 1-21
Name		T 1913		L2303103-0	101.2		%		50-150	14-MAY-21
Batch R5458978 WG3536235-1 LCS 1,1-Dichloroethylene 104,3 % 70-130 18-MAY-21 1,2-Dichloroebanzene 107,7 % 70-130 18-MAY-21 1,2-Dichloroethane 106,0 % 70-130 18-MAY-21 1,4-Dichlorobenzene 106,1 % 70-130 18-MAY-21 Benzene 103,2 % 70-130 18-MAY-21 Carbon tetrachloride 104,7 % 60-140 18-MAY-21 Chloroform 105,9 % 70-130 18-MAY-21 Chloroform 107,1 % 70-130 18-MAY-21 Dichloromethane 108,6 % 70-130 18-MAY-21 Methyl Ethyl Ketone 116,7 % 50-150 18-MAY-21 Tetrachloroethylene 99.1 % 70-130 18-MAY-21 Trichloroethylene 103.4 % 70-130 18-MAY-21 Vinyl chloride 110.8 % 60-130 18-MAY-21 <td< td=""><td>Nitrite-N</td><td></td><td></td><td></td><td>105.2</td><td></td><td>%</td><td></td><td>50-150</td><td>14-MAY-21</td></td<>	Nitrite-N				105.2		%		50-150	14-MAY-21
WG3536235-1 LCS 1,1-Dichloroethylene 104.3 % 70-130 18-MAY-21 1,2-Dichloroebnzene 107.7 % 70-130 18-MAY-21 1,2-Dichloroethane 106.0 % 70-130 18-MAY-21 1,4-Dichlorobenzene 106.1 % 70-130 18-MAY-21 Benzene 103.2 % 70-130 18-MAY-21 Carbon tetrachloride 104.7 % 60-140 18-MAY-21 Chlorobenzene 105.9 % 70-130 18-MAY-21 Chloroform 107.1 % 70-130 18-MAY-21 Dichloromethane 108.6 % 70-130 18-MAY-21 Methyl Ethyl Ketone 116.7 % 50-150 18-MAY-21 Tetrachloroethylene 99.1 % 70-130 18-MAY-21 Trichloroethylene 103.4 % 70-130 18-MAY-21 Vinyl chloride 110.8 % 60-130 18-MAY-21 WG3536235-2 MB 1,1-	VOC-TCLP-WT		Waste							
1,1-Dichloroethylene 104.3 % 70-130 18-MAY-21 1,2-Dichlorobenzene 107.7 % 70-130 18-MAY-21 1,2-Dichloroethane 106.0 % 70-130 18-MAY-21 1,4-Dichlorobenzene 106.1 % 70-130 18-MAY-21 Benzene 103.2 % 70-130 18-MAY-21 Carbon tetrachloride 104.7 % 60-140 18-MAY-21 Chlorobenzene 105.9 % 70-130 18-MAY-21 Chloroform 107.1 % 70-130 18-MAY-21 Dichloromethane 108.6 % 70-130 18-MAY-21 Methyl Ethyl Ketone 116.7 % 50-150 18-MAY-21 Tetrachloroethylene 99.1 % 70-130 18-MAY-21 Trichloroethylene 103.4 % 70-130 18-MAY-21 Vinyl chloride 110.8 % 60-130 18-MAY-21 WG3536235-2 MB 1,1-Dichloroethylene <0.025	Batch	R5458978								
1,2-Dichlorobenzene 107.7 % 70-130 18-MAY-21 1,2-Dichloroethane 106.0 % 70-130 18-MAY-21 1,4-Dichlorobenzene 106.1 % 70-130 18-MAY-21 Benzene 103.2 % 70-130 18-MAY-21 Carbon tetrachloride 104.7 % 60-140 18-MAY-21 Chlorobenzene 105.9 % 70-130 18-MAY-21 Chloroform 107.1 % 70-130 18-MAY-21 Dichloromethane 108.6 % 70-130 18-MAY-21 Methyl Ethyl Ketone 116.7 % 50-150 18-MAY-21 Tetrachloroethylene 99.1 % 70-130 18-MAY-21 Trichloroethylene 103.4 % 70-130 18-MAY-21 Vinyl chloride 110.8 % 60-130 18-MAY-21 WG3536235-2 MB 1,1-Dichloroethylene <0.025					104.3		%		70-130	18-MAY-21
1,2-Dichloroethane 106.0 % 70-130 18-MAY-21 1,4-Dichlorobenzene 106.1 % 70-130 18-MAY-21 Benzene 103.2 % 70-130 18-MAY-21 Carbon tetrachloride 104.7 % 60-140 18-MAY-21 Chlorobenzene 105.9 % 70-130 18-MAY-21 Chloroform 107.1 % 70-130 18-MAY-21 Dichloromethane 108.6 % 70-130 18-MAY-21 Methyl Ethyl Ketone 116.7 % 50-150 18-MAY-21 Tetrachloroethylene 99.1 % 70-130 18-MAY-21 Trichloroethylene 103.4 % 70-130 18-MAY-21 Vinyl chloride 110.8 % 60-130 18-MAY-21 WG3536235-2 MB 1,1-Dichloroethylene 0.025 mg/L 0.025 18-MAY-21 1,2-Dichlorobenzene <0.025		•								-
1,4-Dichlorobenzene 106.1 % 70-130 18-MAY-21 Benzene 103.2 % 70-130 18-MAY-21 Carbon tetrachloride 104.7 % 60-140 18-MAY-21 Chlorobenzene 105.9 % 70-130 18-MAY-21 Chloroform 107.1 % 70-130 18-MAY-21 Dichloromethane 108.6 % 70-130 18-MAY-21 Methyl Ethyl Ketone 116.7 % 50-150 18-MAY-21 Tetrachloroethylene 99.1 % 70-130 18-MAY-21 Trichloroethylene 103.4 % 70-130 18-MAY-21 Vinyl chloride 110.8 % 60-130 18-MAY-21 WG3536235-2 MB 1,1-Dichlorobehylene <0.025										
Benzene 103.2 % 70-130 18-MAY-21 Carbon tetrachloride 104.7 % 60-140 18-MAY-21 Chlorobenzene 105.9 % 70-130 18-MAY-21 Chloroform 107.1 % 70-130 18-MAY-21 Dichloromethane 108.6 % 70-130 18-MAY-21 Methyl Ethyl Ketone 116.7 % 50-150 18-MAY-21 Tetrachloroethylene 99.1 % 70-130 18-MAY-21 Trichloroethylene 103.4 % 70-130 18-MAY-21 Vinyl chloride 110.8 % 60-130 18-MAY-21 WG3536235-2 MB 1,1-Dichloroethylene <0.025	·									
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Chlorobenzene 105.9 % 70-130 18-MAY-21 Chloroform 107.1 % 70-130 18-MAY-21 Dichloromethane 108.6 % 70-130 18-MAY-21 Methyl Ethyl Ketone 116.7 % 50-150 18-MAY-21 Tetrachloroethylene 99.1 % 70-130 18-MAY-21 Trichloroethylene 103.4 % 70-130 18-MAY-21 Vinyl chloride 110.8 % 60-130 18-MAY-21 WG3536235-2 MB 1,1-Dichloroethylene <0.025	Carbon tetrad	chloride			104.7					
Chloroform 107.1 % 70-130 18-MAY-21 Dichloromethane 108.6 % 70-130 18-MAY-21 Methyl Ethyl Ketone 116.7 % 50-150 18-MAY-21 Tetrachloroethylene 99.1 % 70-130 18-MAY-21 Trichloroethylene 103.4 % 70-130 18-MAY-21 Vinyl chloride 110.8 % 60-130 18-MAY-21 WG3536235-2 MB 1,1-Dichloroethylene <0.025	Chlorobenzei	ne			105.9		%		70-130	18-MAY-21
Methyl Ethyl Ketone 116.7 % 50-150 18-MAY-21 Tetrachloroethylene 99.1 % 70-130 18-MAY-21 Trichloroethylene 103.4 % 70-130 18-MAY-21 Vinyl chloride 110.8 % 60-130 18-MAY-21 WG3536235-2 MB 1,1-Dichloroethylene <0.025	Chloroform				107.1		%		70-130	18-MAY-21
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Trichloroethylene 103.4 % 70-130 18-MAY-21 Vinyl chloride 110.8 % 60-130 18-MAY-21 WG3536235-2 MB mg/L 0.025 18-MAY-21 1,1-Dichloroethylene <0.025 mg/L 0.025 18-MAY-21 1,2-Dichlorobenzene <0.025 mg/L 0.025 18-MAY-21 1,4-Dichlorobenzene <0.025 mg/L 0.025 18-MAY-21 Benzene <0.025 mg/L 0.025 18-MAY-21	Methyl Ethyl I	Ketone			116.7		%		50-150	18-MAY-21
Vinyl chloride 110.8 % 60-130 18-MAY-21 WG3536235-2 MB MB Mg/L 0.025 18-MAY-21 1,1-Dichloroethylene <0.025	Tetrachloroet	thylene			99.1		%		70-130	18-MAY-21
WG3536235-2 MB 1,1-Dichloroethylene <0.025	Trichloroethy	lene			103.4		%		70-130	18-MAY-21
1,1-Dichloroethylene <0.025	Vinyl chloride)			110.8		%		60-130	18-MAY-21
1,2-Dichlorobenzene <0.025	WG3536235-2	2 MB								
1,2-Dichloroethane <0.025	1,1-Dichloroe	ethylene			<0.025		mg/L		0.025	18-MAY-21
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Benzene <0.025 mg/L 0.025 18-MAY-21	1,2-Dichloroe	ethane			<0.025		mg/L		0.025	18-MAY-21
· · · · · · · · · · · · · · · · · · ·	1,4-Dichlorob	enzene			<0.025		mg/L		0.025	18-MAY-21
Carbon tetrachloride <0.025 mg/L 0.025 18-MAY-21	Benzene				<0.025		mg/L		0.025	18-MAY-21
	Carbon tetrad	chloride			<0.025		mg/L		0.025	18-MAY-21



Workorder: L2583163 Report Date: 18-MAY-21 Page 4 of 5

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test M	latrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-TCLP-WT V	Vaste							
Batch R5458978								
WG3536235-2 MB Chlorobenzene			<0.025		mg/L		0.025	18-MAY-21
Chloroform			<0.10		mg/L		0.1	18-MAY-21
Dichloromethane			<0.50		mg/L		0.5	18-MAY-21
Methyl Ethyl Ketone			<1.0		mg/L		1	18-MAY-21
Tetrachloroethylene			<0.025		mg/L		0.025	18-MAY-21
Trichloroethylene			<0.025		mg/L		0.025	18-MAY-21
Vinyl chloride			<0.050		mg/L		0.05	18-MAY-21
Surrogate: 1,4-Difluorobenz	zene		100.7		%		70-130	18-MAY-21
Surrogate: 4-Bromofluorobe	enzene		100.4		%		70-130	18-MAY-21
WG3536235-3 MS		L2587088-2						
1,1-Dichloroethylene			119.9		%		50-140	18-MAY-21
1,2-Dichlorobenzene			120.9		%		50-140	18-MAY-21
1,2-Dichloroethane			108.8		%		50-140	18-MAY-21
1,4-Dichlorobenzene			122.8		%		50-140	18-MAY-21
Benzene			116.6		%		50-140	18-MAY-21
Carbon tetrachloride			125.4		%		50-140	18-MAY-21
Chlorobenzene			119.9		%		50-140	18-MAY-21
Chloroform			120.4		%		50-140	18-MAY-21
Dichloromethane			121.6		%		50-140	18-MAY-21
Methyl Ethyl Ketone			106.3		%		50-140	18-MAY-21
Tetrachloroethylene			120.4		%		50-140	18-MAY-21
Trichloroethylene			122.5		%		50-140	18-MAY-21
Vinyl chloride			116.8		%		50-140	18-MAY-21

Workorder: L2583163 Report Date: 18-MAY-21

Client: MTE CONSULTANTS INC. (Kitchener) Page 5 of 5
520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Legend:

Limit ALS Control Limit (Data Quality Objectives)

DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

ADE Average Desorption Efficiency

MB Method Blank

IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Chain of Custody (COC) / Analytical Request Form

DC Number: 17 -

THE CONTROL OF STREET OF STREET Page 3 of 3Page 3 of 3 M Disy 3 S. H. D + 148 Atact your AM to confirm all E&P TATs (surcharges may apply) Canada Toll Free: 1 800 668 9878 www.alsglobal.com L2583163-COFC Report To Contact and company name below will appear on the final report Report Format / Dist Company MTE Select Report Format: PDF PEXCEL PEDD (DIGITAL) Regular [R] Standard TAT if received by 3 pm - business days - no surcharges apply Contact: Jen Lambke Quality Control (QC) Report with Report 🗵 YES 📋 NO 4 day [P4-20%] Phone: 519-502-3268 1 Business day [E - 100%] Compare Results to Criteria on Report - provide details below if box checked 3 day [P3-25%] Company address below will appear on the final report Same Day, Weekend or Statutory holiday [E2 -200% 2 day [P2-50%] Street: 520 Bingemans Centre Drive (Laboratory opening fees may apply)] Email 1 or Fax ilambke@mte85.com Date and Time Required for all E&P TATs: City/Province Kitchener dd-mmm-yy hh:mm Email 2 iball@mte85.com For tests that can not be performed according to the service level selected, you will be contacted. Postal Code Email 3 Invoice To Same as Report To **Analysis Request** YES NO Invoice Distribution Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below Copy of Invoice with Report ഗ ☐ YES ☐ NO HOLD œ Company: Email 1 or Fax ilambke@mte85.com ш Contact: CONTAIN Email 2 **Project Information** Oil and Gas Required Fields (client use) ALS Account # / Quote #: Q75730 NO O AFE/Cost Center Job # 46995-100 Major/Minor Code: Routing Code: PO / AFE: Requisitioner: ES Р SD: Location: NUMBER ALS Lab Work Order # (lab use only): SAMPL Metals Complete ALS Contact: **Emily H** Sampler: Matt D PHC F1 to F4 fetals Scan 9 ALS Sample # Sample Identification and/or Coordinates ₽ PHC F1 t Date Time (lab use only) F2 (This description will appear on the report) Sample Type CBs 2.5Ft (dd-mmm-yy) 무 (hh:mm) 픗 BH118-21 MSPLP 30-04-21 1:20 50.1 BH117-21 30-04-21 1:45 2.5-4.5H 1:50 7:00 2:10 2:20 Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below Drinking Water (DW) Samples¹ (client use) SAMPLE CONDITION AS RECEIVED (lab use only) (electronic COC only) Are samples taken from a Regulated DW System? Frozen SIF Observations No ☐ YES ☐ NO ice Packs Ice Cubes Custody seal intact П No Are samples for human consumption/ use? Cooling Initiated Table 1 Res, Table 3.1 R/P/I, Table 3.1 I/C/C (ESQS, O.Reg. 406/19) - coarse, AND INITIAL COOLER TEMPERATURES °C YES NO Table 3 I/C/C (SCS, O.Reg. 153/04) - coarse SHIPMENT RELEASE (client use) INITIAL SHIPMENT RECEPTION (lab use only) Released by: Date: FINAL SHIPMENT RECEPTION (lab use only) Time: Received by: Date: Time: Received by: REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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

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



Chain of Custody (COC) / Analytical **Request Form**

Canada Toll Free: 1 800 668 9878

L2583163-COFC

OC Number: 17 -

Page 7	of 3	
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	519-502-3268			Quality Contro	Quality Control (QC) Report with Report 💟 YES 🗌 NO					4 day [P4-20%]													
rnone.					ults to Criteria on Report	- provide details be	low if box checked	8 8	E W 2 days ma answer and														
L	Company address below will appear	r on the final report		Select Distribu	Select Distribution:						Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)]												
	520 Bingemans Centre Drive			Email 1 or Fax	ilambke@mte85.	.com		╅	Date and Time Countries (# 200 - 200														
City/Province:	Kitchener			Email 2	Email 2 jball@mte85.com															ım-yy h	1:mm		
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	Copy of Invoice with Report [YES NO		Select Invoice	Select Invoice Distribution:					Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below													
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Chain of Custody (COC) / Analytical Request Form

COC Number: 17 -

Canada	Toll	Free: 1	800	668 9878
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ater samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



MTE CONSULTANTS INC. (Kitchener)

ATTN: JEN LAMBKE

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Date Received: 07-MAY-21

Report Date: 26-MAY-21 14:25 (MT)

Version: FINAL REV. 2

Client Phone: 519-743-6500

Certificate of Analysis

Lab Work Order #: L2585314

Project P.O. #: NOT SUBMITTED

Job Reference: 46995-100

C of C Numbers: Legal Site Desc:

Comments: ADDITIONAL 18-MAY-21 12:57

Emily Hansen Account Manager

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

ADDRESS: 60 Northland Road, Unit 1, Waterloo, ON N2V 2B8 Canada | Phone: +1 519 886 6910 | Fax: +1 519 886 9047

ALS CANADA LTD Part of the ALS Group An ALS Limited Company





ANALYTICAL GUIDELINE REPORT

L2585314 CONTD....

Page 2 of 4

995-100				CLINE			Page 2 of 4 26-MAY-21 14:25 (M				
Sample Details Grouping Analyte	Result	Qualifier	D.L.	Units	Analyzed		Guideline Limits				
.2585314-3 BH104-21 MSPLP 2'2-5 FT											
Sampled By: CLIENT											
Matrix:						#1					
Sample Preparation											
Initial pH	10.04		0.10	pH units	20-MAY-21						
Final pH	5.53		0.10	pH units	20-MAY-21						
TCLP Extractables	0.00		0.10	priums	20-IVIA 1-21						
Benzo(a)pyrene	<0.0010		0.0010	mg/L	21-MAY-21	0.001					
Cyanide, Weak Acid Diss	<5.0		5.0	mg/L	20-MAY-21	20					
Fluoride (F)	<10		10	mg/L	20-MAY-21	150.0					
Nitrate and Nitrite as N	<4.0		4.0	mg/L	20-MAY-21	1000					
Nitrate-N	<2.0		2.0	mg/L	20-MAY-21	1000					
Nitrite-N	<2.0		2.0	mg/L	20-MAY-21						
Surrogate: Chrysene d12	90.75		-	%	21-MAY-21						
TCLP Metals											
Arsenic (As)	<0.050		0.050	mg/L	21-MAY-21	2.5					
Barium (Ba)	<0.50		0.50	mg/L	21-MAY-21	100					
Boron (B)	<2.5		2.5	mg/L	21-MAY-21	500					
Cadmium (Cd)	<0.0050		0.0050	mg/L	21-MAY-21	0.5					
Chromium (Cr)	<0.050		0.050	mg/L	21-MAY-21	5.0					
Lead (Pb)	<0.025		0.025	mg/L	21-MAY-21	5.0					
Mercury (Hg)	<0.00010		0.00010	mg/L	20-MAY-21	0.1					
Selenium (Se)	<0.025		0.025	mg/L	21-MAY-21	1.0					
Silver (Ag)	<0.0050		0.0050	mg/L	21-MAY-21	5.0					
Uranium (U)	<0.25		0.25	mg/L	21-MAY-21	10					
TCLP VOCs	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		0.20	liig/L	21-101/41-21	10					
1,1-Dichloroethylene	<0.025		0.025	mg/L	26-MAY-21	1.4					
1,2-Dichlorobenzene	<0.025		0.025	mg/L	26-MAY-21	20.0					
1,2-Dichloroethane	<0.025		0.025	mg/L	26-MAY-21	0.5					
1,4-Dichlorobenzene	<0.025		0.025	mg/L	26-MAY-21	0.5					
Benzene	<0.025		0.025	mg/L	26-MAY-21	0.5					
Carbon tetrachloride	<0.025		0.025	mg/L	26-MAY-21	0.5					
Chlorobenzene	<0.025		0.025	mg/L	26-MAY-21	8					
Chloroform	<0.10		0.023	mg/L	26-MAY-21	10					
Dichloromethane	<0.10		0.50	mg/L	26-MAY-21	5.0					
Methyl Ethyl Ketone	<1.0		1.0	mg/L	26-MAY-21	200.0					
Tetrachloroethylene	<0.025		0.025	mg/L	26-MAY-21	3					
Trichloroethylene	<0.025		0.025	mg/L	26-MAY-21	5					
Vinyl chloride	<0.023		0.023	mg/L	26-MAY-21	0.2					
Surrogate: 4-Bromofluorobenzene	97.5		70-130	IIIg/L %	26-MAY-21	0.2					
Sulfocate, 4-biolifolicopetizette	91.5		70-130	%							
Volatile Organic Compounds Surrogate: 1,4-Difluorobenzene	101.1		70-130		26-MAY-21						

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

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

Reference Information

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference***
BAP-ONT-TCLP-WT	Waste	Benzo(a)pyrene for O. Reg 347	SW 846 8270-GC-MS on TCLP Leachate
CN-TCLP-WT	Waste	Cyanide for O. Reg 347	APHA 4500CN I

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from APHA Method 4500-CN I. "Weak Acid Dissociable Cyanide". Weak Acid Dissociable (WAD) cyanide is determined by in-line sample distillation with final determination by colourimetric analysis.

F-TCLP-WT Waste Fluoride (F) for O. Reg 347 EPA 300.1

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from EPA 300.1 and is analyzed by Ion Chromatography with conductivity and/or UV detection.

HG-TCLP-WT Waste Mercury (CVAA) for O.Reg 347 EPA 1631E

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter and analysed using atomic absorption spectrophotometry (EPA 1631E).

LEACH-TCLP-WT Waste Leachate Procedure for Reg 347 EPA 1311

Inorganic and Semi-Volatile Organic contaminants are leached from waste samples in strict accordance with US EPA Method 1311, "Toxicity Characteristic Leaching Procedure" (TCLP). Test results are reported in leachate concentration units (normally mg/L).

MET-TCLP-WT Waste O.Reg 347 TCLP Leachable EPA 6020B

Metals

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fibre filter. Instrumental analysis of the digested extract is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020B).

N2N3-TCLP-WT Waste Nitrate/Nitrite-N for O. Reg 347 EPA 300.1

This analysis is carried out in accordance with the extraction procedure outlined in "Test Methods for Evaluating Solid Waste - Physical/Chemical Methods Volume 1C" SW-846 EPA Method 1311, published by the United States Environmental Protection Agency (EPA). In summary, the sample is extracted at a 20:1 liquid to solids ratio for 16 to 20 hours using either extraction fluid #1 (glacial acetic acid, water and sodium hydroxide) or extraction fluid #2 (glacial acetic acid), depending on the pH of the original sample. The extract is then filtered through a 0.6 to 0.8 micron glass fiber filter. The extract is then analyzed using procedures adapted from EPA 300.1 and is analyzed by Ion Chromatography with conductivity and/or UV detection.

VOC-TCLP-WT Waste VOC for O. Reg 347 SW846 8260

A sample of waste is leached in a zero headspace extractor at 30–2 rpm for 18–2.0 hours with the appropriate leaching solution. After tumbling the leachate is analyzed directly by headspace technology, followed by GC/MS using internal standard quantitation.

*** ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

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

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million. < - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

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



Workorder: L2585314 Report Date: 26-MAY-21 Page 1 of 7

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
BAP-ONT-TCLP-WT	Waste							
Batch R5462		WG3539003-4 <0.0010	<0.0010	RPD-NA	mg/L	N/A	50	21-MAY-21
WG3539003-2 L Benzo(a)pyrene	cs		112.4		%		50-150	21-MAY-21
WG3539003-1 M Benzo(a)pyrene	IB		<0.0010		mg/L		0.001	21-MAY-21
Surrogate: Chryser	ne d12		95.34		%		-	21-MAY-21
WG3539003-3 M Benzo(a)pyrene	IB		<0.0010		mg/L		0.001	21-MAY-21
Surrogate: Chryser	ne d12		99.53		%		-	21-MAY-21
WG3539003-6 M Benzo(a)pyrene	ıs	WG3539003-4	112.8		%		50-150	21-MAY-21
CN-TCLP-WT	Waste							
Batch R5463 WG3538578-3 D Cyanide, Weak Aci	UP	L2585314-3 <5.0	<5.0	RPD-NA	mg/L	N/A	50	20-MAY-21
WG3538578-2 L Cyanide, Weak Aci			106.4		%		70-130	20-MAY-21
WG3538578-1 M Cyanide, Weak Aci	IB id Diss		<5.0		mg/L		5	20-MAY-21
WG3538578-4 M Cyanide, Weak Aci	IS id Diss	L2585314-3	111.6		%		50-140	20-MAY-21
F-TCLP-WT	Waste							
	2640 UP	L2585314-3	40		4			
Fluoride (F) WG3538943-2 Lo Fluoride (F)	cs	<10	<10 91.5	RPD-NA	mg/L %	N/A	30	20-MAY-21
WG3538943-1 M	IB						70-130	20-MAY-21
Fluoride (F)			<10		mg/L		10	20-MAY-21
WG3538943-4 M Fluoride (F)	IS	L2585314-3	91.8		%		50-150	20-MAY-21
HG-TCLP-WT	Waste							
Mercury (Hg)	0641 UP CS	L2588975-1 <0.00010	<0.00010	RPD-NA	mg/L	N/A	50	20-MAY-21



Workorder: L2585314 Report Date: 26-MAY-21 Page 2 of 7

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
HG-TCLP-WT		Waste							
Batch R5 WG3538332-2 Mercury (Hg)	460641 LCS			102.0		%		70-130	20-MAY-21
WG3538332-1 Mercury (Hg)	МВ			<0.00010		mg/L		0.0001	20-MAY-21
WG3538332-4 Mercury (Hg)	MS		L2588975-1	101.0		%		50-140	20-MAY-21
MET-TCLP-WT		Waste							
Batch R5	462537								
WG3538295-4 Silver (Ag)	DUP		WG3538295- 3	3 <0.0050	RPD-NA	mg/L	N/A	50	21-MAY-21
Arsenic (As)			<0.050	<0.050	RPD-NA	mg/L	N/A	50	21-MAY-21
Boron (B)			<2.5	<2.5	RPD-NA	mg/L	N/A	50	21-MAY-21
Barium (Ba)			0.56	0.55	THE THAT	mg/L	1.3	50	21-MAY-21
Cadmium (Cd)			<0.0050	<0.0050	RPD-NA	mg/L	N/A	50	21-MAY-21
Chromium (Cr)			<0.050	<0.050	RPD-NA	mg/L	N/A	50	21-MAY-21
Lead (Pb)			<0.025	<0.025	RPD-NA	mg/L	N/A	50	21-MAY-21
Selenium (Se)			<0.025	<0.025	RPD-NA	mg/L	N/A	50	21-MAY-21
Uranium (U)			<0.25	<0.25	RPD-NA	mg/L	N/A	50	21-MAY-21
WG3538295-2	LCS		10.20	10.20	INI D INA	9/ =	N/A	30	21-IVIA1-21
Silver (Ag)	LOO			108.0		%		70-130	21-MAY-21
Arsenic (As)				96.8		%		70-130	21-MAY-21
Boron (B)				105.7		%		70-130	21-MAY-21
Barium (Ba)				106.3		%		70-130	21-MAY-21
Cadmium (Cd)				98.0		%		70-130	21-MAY-21
Chromium (Cr)				102.1		%		70-130	21-MAY-21
Lead (Pb)				102.3		%		70-130	21-MAY-21
Selenium (Se)				91.3		%		70-130	21-MAY-21
Uranium (U)				104.0		%		70-130	21-MAY-21
WG3538295-1	MB			0.0050				0.005	
Silver (Ag)				<0.0050		mg/L		0.005	21-MAY-21
Arsenic (As)				<0.050		mg/L		0.05	21-MAY-21
Boron (B)				<2.5		mg/L		2.5	21-MAY-21
Barium (Ba)				<0.50		mg/L		0.5	21-MAY-21
Cadmium (Cd)				<0.0050		mg/L		0.005	21-MAY-21
Chromium (Cr)				<0.050		mg/L		0.05	21-MAY-21



Workorder: L2585314 Report Date: 26-MAY-21 Page 3 of 7

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test		Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-TCLP-WT		Waste							
	5462537 MB			<0.025		mg/L		0.025	21-MAY-21
Selenium (Se)				<0.025		mg/L		0.025	21-MAY-21
Uranium (U)				<0.25		mg/L		0.25	21-MAY-21
WG3538295-5 Silver (Ag)	MS		WG3538295-3	142.4	MES	%		50-140	21-MAY-21
Arsenic (As)				115.4		%		50-140	21-MAY-21
Boron (B)				118.5		%		50-140	21-MAY-21
Barium (Ba)				109.3		%		50-140	21-MAY-21
Cadmium (Cd)				112.5		%		50-140	21-MAY-21
Chromium (Cr)				115.5		%		50-140	21-MAY-21
Lead (Pb)				116.4		%		50-140	21-MAY-21
Selenium (Se)				113.1		%		50-140	21-MAY-21
Uranium (U)				113.3		%		50-140	21-MAY-21
N2N3-TCLP-WT		Waste							
Batch R5	5462640								
WG3538943-3 Nitrate-N	DUP		L2585314-3 <2.0	<2.0	RPD-NA	mg/L	N/A	25	20-MAY-21
Nitrite-N			<2.0	<2.0	RPD-NA	mg/L	N/A	25	20-MAY-21
WG3538943-2 Nitrate-N	LCS			99.9		%		70-130	20-MAY-21
Nitrite-N				101.0		%		70-130	20-MAY-21
WG3538943-1 Nitrate-N	МВ			<2.0		mg/L		2	20-MAY-21
Nitrite-N				<2.0		mg/L		2	20-MAY-21
WG3538943-4 Nitrate-N	MS		L2585314-3	101.9		%		50-150	20-MAY-21
Nitrite-N				103.6		%		50-150	20-MAY-21
VOC-TCLP-WT		Waste							
Batch R5	5467296								
WG3540366-1 1,1-Dichloroeth	LCS ylene			90.7		%		70-130	25-MAY-21
1,2-Dichlorober	nzene			97.8		%		70-130	25-MAY-21
1,2-Dichloroeth	ane			90.7		%		70-130	25-MAY-21
1,4-Dichlorober	nzene			94.3		%		70-130	25-MAY-21
Benzene				85.1				70-130	



Workorder: L2585314 Report Date: 26-MAY-21 Page 4 of 7

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-TCLP-WT	Waste							
Batch R5467296								
WG3540366-1 LCS			05.4		0/		70.400	
Benzene			85.1		%		70-130	25-MAY-21
Carbon tetrachloride			87.7		%		60-140	25-MAY-21
Chlorobenzene			89.9		%		70-130	25-MAY-21
Chloroform			89.8		%		70-130	25-MAY-21
Dichloromethane			90.2		%		70-130	25-MAY-21
Methyl Ethyl Ketone			102.0		%		50-150	25-MAY-21
Tetrachloroethylene			96.9		%		70-130	25-MAY-21
Trichloroethylene			86.9		%		70-130	25-MAY-21
Vinyl chloride			94.9		%		60-130	25-MAY-21
WG3540366-2 MB 1,1-Dichloroethylene			<0.025		mg/L		0.025	25-MAY-21
1,2-Dichlorobenzene			<0.025		mg/L		0.025	25-MAY-21
1,2-Dichloroethane			<0.025		mg/L		0.025	25-MAY-21
1,4-Dichlorobenzene			<0.025		mg/L		0.025	25-MAY-21
Benzene			<0.025		mg/L		0.025	25-MAY-21
Carbon tetrachloride			<0.025		mg/L		0.025	25-MAY-21
Chlorobenzene			<0.025		mg/L		0.025	25-MAY-21
Chloroform			<0.10		mg/L		0.1	25-MAY-21
Dichloromethane			<0.50		mg/L		0.5	25-MAY-21
Methyl Ethyl Ketone			<1.0		mg/L		1	25-MAY-21
Tetrachloroethylene			<0.025		mg/L		0.025	25-MAY-21
Trichloroethylene			<0.025		mg/L		0.025	25-MAY-21
Vinyl chloride			< 0.050		mg/L		0.05	25-MAY-21
Surrogate: 1,4-Difluorobe	enzene		101.9		%		70-130	25-MAY-21
Surrogate: 4-Bromofluoro	obenzene		98.9		%		70-130	25-MAY-21
WG3540366-4 MB								
1,1-Dichloroethylene			<0.025		mg/L		0.025	26-MAY-21
1,2-Dichlorobenzene			<0.025		mg/L		0.025	26-MAY-21
1,2-Dichloroethane			<0.025		mg/L		0.025	26-MAY-21
1,4-Dichlorobenzene			<0.025		mg/L		0.025	26-MAY-21
Benzene			<0.025		mg/L		0.025	26-MAY-21
Carbon tetrachloride			<0.025		mg/L		0.025	26-MAY-21
Chlorobenzene			<0.025		mg/L		0.025	26-MAY-21
Chloroform			<0.10		mg/L		0.1	26-MAY-21



Workorder: L2585314 Report Date: 26-MAY-21 Page 5 of 7

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

No. No.	
WG3540366-4 MB Dichloromethane <0.50	
Dichloromethane <0.50	
Methyl Ethyl Ketone <1.0	
Tetrachloroethylene <0.025 mg/L 0.025 26-MAY-21 Trichloroethylene <0.025	
Trichloroethylene <0.025 mg/L 0.025 26-MAY-21 Vinyl chloride <0.050	
Vinyl chloride <0.050	
Surrogate: 1,4-Difluorobenzene 100.7 % 70-130 26-MAY-21 Surrogate: 4-Bromofluorobenzene 99.7 % 70-130 26-MAY-21 WG3540366-5 MB MB 0.025 mg/L 0.025 26-MAY-21 1,2-Dichloroethylene <0.025	
Surrogate: 4-Bromofluorobenzene 99.7 % 70-130 26-MAY-21 WG3540366-5 MB MB Mg/L 0.025 26-MAY-21 1,2-Dichloroethylene <0.025	
WG3540366-5 MB 1,1-Dichloroethylene <0.025	
1,1-Dichloroethylene <0.025	
1,2-Dichlorobenzene <0.025	i
1,2-Dichloroethane <0.025	
1,4-Dichlorobenzene <0.025	
Carbon tetrachloride < 0.025 mg/L 0.025 26-MAY-21 Chlorobenzene < 0.025	
Chlorobenzene <0.025 mg/L 0.025 26-MAY-21	
Chloroform 0.40 mg/l 0.4 co MAY on	
Chloroform <0.10 mg/L 0.1 26-MAY-21	
Dichloromethane <0.50 mg/L 0.5 26-MAY-21	
Methyl Ethyl Ketone <1.0 mg/L 1 26-MAY-21	
Tetrachloroethylene <0.025 mg/L 0.025 26-MAY-21	
Trichloroethylene <0.025 mg/L 0.025 26-MAY-21	
Vinyl chloride <0.050 mg/L 0.05 26-MAY-21	
Surrogate: 1,4-Difluorobenzene 100.4 % 70-130 26-MAY-21	
Surrogate: 4-Bromofluorobenzene 95.2 % 70-130 26-MAY-21	
WG3540366-3 MS L2590014-1	
1,1-Dichloroethylene 101.2 % 50-140 26-MAY-21	
1,2-Dichlorobenzene 102.9 % 50-140 26-MAY-21	
1,2-Dichloroethane 90.4 % 50-140 26-MAY-21	
1,4-Dichlorobenzene 107.7 % 50-140 26-MAY-21	
Benzene 96.0 % 50-140 26-MAY-21	
Carbon tetrachloride 101.8 % 50-140 26-MAY-21	
Chlorobenzene 101.1 % 50-140 26-MAY-21	
Chloroform 99.9 % 50-140 26-MAY-21	
Dichloromethane 94.6 % 50-140 26-MAY-21	
Methyl Ethyl Ketone 94.0 % 50-140 26-MAY-21	



Workorder: L2585314 Report Date: 26-MAY-21

Page 6 of 7

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

KITCHENER ON N2B 3X9

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-TCLP-WT	Waste							
Batch R5467296								
WG3540366-3 MS		L2590014-1						
Tetrachloroethylene			105.6		%		50-140	26-MAY-21
Trichloroethylene			101.1		%		50-140	26-MAY-21
Vinyl chloride			99.8		%		50-140	26-MAY-21

Workorder: L2585314 Report Date: 26-MAY-21

Client: MTE CONSULTANTS INC. (Kitchener)

520 BINGEMANS CENTRE DRIVE

Page 7 of 7

KITCHENER ON N2B 3X9

Contact: JEN LAMBKE

Legend:

Limit ALS Control Limit (Data Quality Objectives)

DUP Duplicate

RPD Relative Percent Difference

N/A Not Available

LCS Laboratory Control Sample SRM Standard Reference Material

MS Matrix Spike

MSD Matrix Spike Duplicate

ADE Average Desorption Efficiency

MB Method Blank

IRM Internal Reference Material
CRM Certified Reference Material
CCV Continuing Calibration Verification
CVS Calibration Verification Standard
LCSD Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
MES	Data Quality Objective was marginally exceeded (by < 10% absolute) for < 10% of analytes in a Multi-Element Scan / Multi-Parameter Scan (considered acceptable as per OMOE & CCME).
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

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

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



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

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

L2585314-COFC

OC Number: 17 -

Page 3 of 3

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Phone:	519-502-3268					(QC) Report with F			} } }	4 day [F				:NCY	1 Business day [E - 100%]										
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Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

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

L2585314-COFC

COC Number: 17 -

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Chain of Custody (COC) / Analytical **Request Form**

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OC Number: 17 -

Page 3 of 3

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