Phase Two Environmental Site Assessment

1300, 1316, 1326 and 1342 Bronte Road

Oakville, Ontario

Prepared For:

Argo Development Corporation

4900 Palladium Way, Suite 105

Burlington, Ontario

L7M 0W7

DS Project No : 20-186-100

Date: 2020-10-02

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Executive Summary

DS Consultants Ltd. (DS) was retained by Argo Development Corporation to complete a Phase Two Environmental Site Assessment (ESA) of a Site comprised of the municipal addresses: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario, herein referred to as the "Phase Two Property" or "Site". It is DS' understanding that this Phase Two ESA has been requested for due diligence purposes in association with the proposed acquisition of the Property and proposed redevelopment of the Site. It is further understood that the proposed redevelopment will consist of a residential townhouses and detached homes.

The Phase Two ESA was completed in general accordance with the requirements, methodology and practices for a Phase Two ESA as described in Ontario Regulation 153/04 (as amended). The objective of this Phase Two ESA is to confirm whether contaminants are present, and at what concentration are they present on the Phase Two Property, as related to the Areas of Potential Environmental Concern (APEC) identified in the Phase One ESA.

The Phase Two Property is a 3.56 hectare (8.8 acres) parcel of land comprised of four residential properties, namely: 1300, 1316, 1326 and 1342 Bronte Road. The Site is situated within mixed residential, commercial and parkland neighborhood in the Town of Oakville, Ontario. The Phase Two Property is located approximately 700 metres south of the intersection of Bronte Road and Upper Middle Road West. The Site included the following features at the time of this assessment:

- 1300 Bronte Road consists of a large L-shaped parcel of land extending from Bronte Road in the east to the border of the Bronte Creek Provincial Park in the west. The property includes large two story residential dwelling approximately 270 m^2 in area, located in the south-western portion of the property containing one underground storage tank (AST) within the north-western corner of the basement, containing heating oil. One recreational pond (Pond 1) located within the central portion of the property, and one smaller stormwater retention pond (Pond 2) located within the south-eastern portion of the Property. Two vehicle parking garages located within the central and southern portion of the property (Shed 1 and 2 respectively). A single above ground tank (AST) containing diesel was located adjacent to Shed 2. Additionally, an orchard was located alongside the driveway within the northern portion of this property;

- 1316 Bronte Road consists of a rectangular shaped parcel of land and includes a single story residential dwelling approximately 80 m^2 in area containing a heating fuel oil AST located immediately north of the house;
- 1326 Bronte Road consists of a rectangular shaped parcel of land and includes a two-story residential dwelling approximately 170 m^2 with a separate barn (Shed 3) used as a general storage space. The residential dwelling has a heating fuel oil AST within the northwestern corner of the basement.
- 1342 Bronte Road consists of a rectangular shaped parcel of land and includes a two-story residential dwelling approximately 140 m^2 in area with a separate barn (Shed 4) used as a general storage space. The residential dwelling has a heating fuel oil AST within the northwestern corner of the basement.

The Phase One ESA completed in August, 2020 by DS indicated that the date of patent for the Site was 1825, and it is inferred that the Site was used for agricultural purposes from 1825 until the early 1900s (between 1909 and 1934) when the houses at 1316, 1326, and 1342 Bronte Road were constructed. The first developed use for the Site is considered to be prior to 1934.

The Phase One ESA completed by DS also indicated that a total of eighteen (18) Potentially Contaminating Activities (PCAs) were identified, which were considered to be contributing to twelve (12) APECs on the Phase Two Property. A summary of the APECs, associated PCAs, and contaminants of potential concern (copc) identified is presented in the table below:

Table E-1: Summary of APECs

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground water, soil and/or sediment)
APEC-1	Fuel Oil tank at the residential dwelling at 1300 Bronte Road	PCA-1: #28 – Gasoline and associated products storage in fixed tanks	On Site	PHCs, PAHs, BTEX	Soil and groundwater
APEC-2	Fuel Oil tank at the residential dwelling at 1326 Bronte Road	PCA-2: #28 – Gasoline and associated products storage in fixed tanks	On Site	PHCs, PAHs, BTEX	Soil and groundwater

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground water, soil and/or sediment)
APEC-3	Fuel Oil tank at the residential dwelling at 1342 Bronte Road	PCA-3: #28 – Gasoline and associated products storage in fixed tanks	On Site	PHCs, PAHs, BTEX	Soil and groundwater
APEC-4	Fuel Oil tank at the residential dwelling at 1316 Bronte Road	PCA-4: #28 – Gasoline and associated products storage in fixed tanks	On Site	PHCs, PAHs, BTEX	Soil and groundwater
APEC-5	Soil berm east of Pond 1 at 1300 Bronte Road	PCA-5: #30 - Importation of Fill Material of Unknown Quality	On Site	PHC, PAHs, VOCs Metals, As, Sb, Se, B-HWS, CN-, electrical conductivity, Cr (VI), Hg, low or high pH, SAR	Soil
APEC-6a	Entire Phase One Property	PCA-6: #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On Site	OCPs, metals As, Sb, Se, CN-	Soil
APEC – 6b	Graded land at the residential dwelling at 1300 Bronte Road	PCA-7: #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On Site	OCPs, metals As, Sb, Se, CN-	Soil
APEC-7A	Southeast portion of the Property, within current orchard	#N/S – Impacted Soil – Soil-Mat (2020) sample S3, associated with a depth of 0.1 mbgs	On Site	DDE Arsenic Lead	Soil
APEC-7B	Southeast portion of the Property, within current orchard	#N/S – Impacted Soil - Soil-Mat (2020) sample sample S4 & 5 taken at the same location, associated with a depth of	On Site	DDE Arsenic Lead	Soil

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground water, soil and/or sediment)
		0.1 mbgs and 0.2-0.3 mbgs respectively			
APEC-7C	Southeast portion of the Property, within current orchard	#N/S – Impacted Soil - Soil-Mat (2020) sample S6, associated with a depth of 0.1 mbgs	On Site	DDE Arsenic	Soil
APEC-8	Diesel AST in the vicinity of Shed 2	PCA-15: #28 – Gasoline and associated products storage in fixed tanks	On site	PHCs, PAHs, BTEX	Soil and groundwater
APEC-9	East adjacent to Pond 2	PCA-16: #55 - Transformer Manufacturing, Processing and Use	On site	PHCs	Soil

Based on the findings of the Phase One ESA it was concluded that a Phase Two ESA was warranted in order to assess the soil and groundwater conditions on the Phase Two Property.

The Phase Two ESA involved the advancement of fourteen (14) boreholes, which were completed between August 12, 2020 and August 19, 2020. The boreholes were advanced to a maximum depth of 6.7 metres below ground surface (mbgs) under the supervision of DS personnel. Groundwater monitoring wells were installed in eight (8) of the boreholes to facilitate the collection of groundwater samples and the assessment of groundwater flow direction.

Additional soil sampling was also conducted on August 20, 2020 for the purpose of delineation of the DDE impacts identified and to assess the soil quality with respect to APECs 6A, 6B, 7A, 7B, 7C and 9. A total of thirty-five (35) hand-augered boreholes were advanced to a maximum depth of 0.5 mbgs including: thirty (30) boreholes located across the entire property and advanced to a depth of 0.5 mbgs in order to investigate potential and confirmed pesticide impacts (APECs 6 and 7), four boreholes (SB1 to SB4) located atop the soil berm to the east of Pond 1 advanced to a depth of 0.1 mbgs in order to identify potential impacts from fill material (APEC 5), and a single borehole (TR1) located immediately downgradient of the onsite transformer advanced to a depth of 0.1 mbgs (APEC 9).

The borehole locations were determined based on the findings of the Phase One ESA. Soil samples were collected and submitted for chemical analysis as follows:

- Twenty-eight (28) soil samples (including 3 QAQC duplicates) for analysis of metals and hydride forming metals
- Seven (7) soil samples for analysis of metals and ORPs
- Seventeen (17) soil samples (including 2 QAQC duplicates) for analysis of PHCs F1-F4 and BTEX
- Eight (8) soil samples for analysis of VOCs
- Ten (10) soil samples (including 1 QAQC duplicate) for analysis of PAHs
- Fifty-four (54) soil samples (including 7 QAQC duplicates) for analysis of OC Pesticides
- One (1) soil sample for analysis of PCBs

Groundwater samples were collected from the monitoring wells installed and submitted for chemical analysis as follows:

- Six (6) groundwater samples (including 2 QAQC duplicates) for analysis of metals and ORPs
- Three (3) groundwater samples for analysis of PHCs F1-F4 and BTEX
- Three (3) groundwater samples (including 1 trip blank) for analysis of VOCs
- Three (3) groundwater samples for analysis of PAHs
- Two (2) groundwater samples for analysis of OC Pesticides

The Phase Two Property adjoins two Areas of Natural Significance – 1) the Bronte Creek Provincial Park Natural Reserve Zone, an Area of Natural and Scientific Interest located to the west and south of the Site, and 2) an Ontario Greenbelt, including a Natural Heritage System (Greenbelt Reference Square 99) which is protected as per O. Reg 59/05 and is located south of the Site. In accordance with Section 41 of O.Reg 153/04, the MECP Table 1 Site Condition Standards (SCS) are applicable to the portions of the Site which are located within 30 m of the Areas of Natural Significance. The MECP Table 2 RPI Standards with medium-fine textures soils were considered most applicable for the remaining portions of the Site that are located at more than 30 m from the Areas of Natural Significance.

Based on the results of the Phase Two ESA, DS presents the following findings:

- A surficial layer of topsoil ranging in thickness from 75mm to 150mm was found in the boreholes. It should be noted that the thickness of the topsoil explored at the borehole locations may not be representative for the site and should not be relied on to calculate the amount of topsoil at the site. Shallow hand-dug test-pits should be carried out to measure the topsoil thickness at site. Fill material consisting of sandy

silt to silty sand, sand and gravel and clayey silt was found in boreholes, extending to depths varying from 0.8 to 3.0m below the ground surface. The fill was present in a very loose to compact state, and included topsoil/organics were in varying proportions. The fill was also found to lack any visual indications of deleterious materials. Below the fill, cohesionless deposits (silt, silty sand to sandy silt, and gravelly sand to sand and gravel) were encountered in all boreholes except MW20-5 to BH20-7 and MW20-11, extending to depths ranging from 2.3 mbgs to 6.0 mbgs. A lower layer of sand and gravel was found in boreholes MW20-8 and BH20-14 below the sandy silt till deposits, extending to the termination depths of boreholes. Cohesive deposits of silty clay and clayey silt till were encountered in all boreholes below the upper cohesionless deposits, extending to maximum drilled depths of BH20-1 to BH20-3 and underlain by sandy silt till deposits in other boreholes. Sandy silt till deposits were encountered below the cohesive deposits in Boreholes BH20-4 through BH20-14, extending to depths ranging from 6.0 mbgs to 8.2 mbgs. Boreholes BH20-4 to BH20-7, BH20-9 to BH20-11 and BH20-13 were terminated in sandy silt till deposit. Bedrock was identified in a previous geotechnical assessment at depths ranging between 6.1 to 12.2 mbgs, with associated elevations of 124.9 to 117.6 masl.

- The depth to groundwater was measured in five (5) monitoring wells installed during the course of this investigation. The groundwater levels were found to range between 1.24 to 3.07 mbgs, with corresponding elevations of 127.03 to 129.17 metres above sea level (masl). Monitoring wells BH20-8 and BH20-11 remained dry throughout the course of the investigation. Based on the groundwater elevations calculated, the shallow groundwater flow direction on the Site is interpreted to be south parallel to surface water flow in Bronte Creek. It is possible that the groundwater levels may vary seasonally. The groundwater levels may also be impacted by other factors such as historical infilling activities, subsurface utility trenches, and similar subsurface anomalies. The groundwater flow direction can only be confirmed through long term monitoring.
- The results of the soil chemical analyses identified trace concentrations of OCPs and metals across the site. Elevated concentrations of metals and OC Pesticides in excess of the applicable Site Condition Standards were identified as follows:

Table E-2: Summary of Soil Impacts Identified

Sample ID	Sample Depth (mbgs)	Parameter	Units	Table 1 SCS	Table 2 SCS	Reported Value
D1 S1	0 - 0.1	Arsenic	µg/g	N/A	18	**20**
D5 S1	0 - 0.1	Arsenic	µg/g	18	N/A	**34**
		Lead	µg/g	120	N/A	**150**
D12 S1	0 - 0.1	Arsenic	µg/g	18	N/A	**24**
D14 S1	0 - 0.1	Arsenic	µg/g	18	N/A	**30**
		Lead	µg/g	120	N/A	**150**
D16 S1	0 - 0.1	Arsenic	µg/g	N/A	18	**20**
SDUP7	0 - 0.1	Arsenic	µg/g	N/A	18	**20**
D18 S1	0 - 0.1	Arsenic	µg/g	N/A	18	**21**
D1 S1	0 - 0.1	DDE	µg/g	18	0.33	**0.45**
D5 S1	0 - 0.1		µg/g	0.05	N/A	**0.45**
D8 S1	0 - 0.1		µg/g	0.05	N/A	**0.31**
D10 S1	0 - 0.1		µg/g	0.05	N/A	**0.39**
D18 S1	0 - 0.1		µg/g	N/A	0.33	**0.54**
D12 S1	0 - 0.1		µg/g	0.05	N/A	**0.44**
D14 S1	0 - 0.1		µg/g	0.05	N/A	**0.48**

- The results of the chemical analyses conducted indicated that all of the groundwater samples analyzed met the applicable Site Condition Standards. Monitoring wells MW20-8 and MW20-11 could not be sampled as both monitoring wells were dry at the time of this assessment.

Based on a review of the findings of this Phase Two ESA, DS presents the following conclusions and recommendations:

- The results of this Phase Two ESA indicate that the applicable Site Condition Standards for soil have not been met for soil. Soil impacts (DDE, Lead, and Arsenic) relating to historic pesticide use were identified in surface soil in the southeastern portion of the Phase Two Property where an orchard is currently operated. The vertical extent of the soil impacts is considered to be 0.5 mbgs based on the findings to date. The soil impacts appear to be localized within general vicinity of the existing orchard.

- The groundwater quality in the vicinity of MW20-8 and MW20-11 is currently unknown and will require assessment to confirm the groundwater quality in relation to APECs 2 and 3.
- The soil impacts identified may be managed through excavation and off-site disposal followed by confirmatory soil sampling in accordance with the requirements of O.Reg. 153/04 (as amended). The remedial excavation activity will be required before a Record of Site Condition may be filed for the Site (if required).
- All monitoring wells should be decommissioned in accordance with O.Reg. 903 when no longer required.

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1.0 Introduction

DS Consultants Ltd. (DS) was retained by Argo Development Corporation to complete a Phase Two Environmental Site Assessment (ESA) of a Site comprised of the municipal addresses: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario, herein referred to as the "Phase Two Property" or "Site". It is DS' understanding that this Phase One ESA has been requested for due diligence purposes in association with the proposed acquisition and redevelopment of the Site. It is further understood that the proposed redevelopment will consist of a residential townhouses and detached homes.

It is the opinion of DS that the intended future property use (residential) is not considered to be a more sensitive property use as defined under O.Reg. 153/04 (as amended) than the current residential use; therefore the filing of a Record of Site Condition (RSC) with the Ontario Ministry of Environment, Conservation and Parks (MECP) is not mandated under O.Reg. 153/04.

The Phase Two ESA was completed in general accordance with the requirements, methodology and practices for a Phase One ESA as described in Ontario Regulation 153/04 (as amended). The objective of this Phase Two ESA is to confirm whether contaminants are present, and at what concentration are they present on the Phase Two Property, as related to the Areas of Potential Environmental Concern (APEC) identified in the Phase One ESA.

1.1 Site Description

The Phase Two Property is a 3.56 hectare (8.8 acres) parcel of land comprised of four residential properties, namely: 1300, 1316, 1326 and 1342 Bronte Road. The Site is situated within mixed residential, commercial and parkland neighborhood in the Town of Oakville, Ontario. The Phase Two Property is located approximately 700 metres south of the intersection of Bronte Road and Upper Middle Road West. A Site Location Plan is provided in Figure 1. The Site included the following features at the time of this assessment:

- 1300 Bronte Road consists of a large L-shaped parcel of land extending from Bronte Road in the east to the border of the Bronte Creek Provincial Park in the west. The property includes large two story residential dwelling approximately 270 m^2 in area, located in the south-western portion of the property containing one underground storage tank (AST) within the north-western corner of the basement, containing heating oil. One recreational pond (Pond 1) located within the central portion of the property, and one smaller stormwater retention pond (Pond 2) located within the south-eastern portion of the Property. Two vehicle parking garages located within the central and southern portion of the property (Shed 1 and 2 respectively). A single above ground tank (AST) containing diesel was located adjacent to Shed 2. Additionally, an orchard was located alongside the driveway within the northern portion of this property;
- 1316 Bronte Road consists of a rectangular shaped parcel of land and includes a single story residential dwelling approximately 80 m^2 in area containing a heating fuel oil AST located immediately north of the house;
- 1326 Bronte Road consists of a rectangular shaped parcel of land and includes a two-story residential dwelling approximately 170 m^2 with a separate barn (Shed 3) used as a general storage space. The residential dwelling has a heating fuel oil AST within the northwestern corner of the basement.
- 1342 Bronte Road consists of a rectangular shaped parcel of land and includes a two-story residential dwelling approximately 140 m^2 in area with a separate barn (Shed 4) used as a general storage space. The residential dwelling has a heating fuel oil AST within the northwestern corner of the basement.

For the purposes of this report, Upper Middle Rd. West is assumed to be aligned in an east-west orientation, and Bronte Road in a north-south orientation. A Plan of Survey was not provided at the time of this investigation. A Plan of Survey will be required prior to the

submission of a Record of Site Condition (if applicable). A Site Location Plan is provided in Figure 1 and 2.

Additional details regarding the Phase Two Property are provided in the table below.

Table 1-1: Phase One Property Information

Criteria	Information	Source
Legal Description	1300 Bronte Rd PT LT 31, CON 2 TRAFALGAR SOUTH OF DUNDAS STREET, AS IN 609762; OAKVILLE 1316 Bronte Rd PT LT 31, CON 2 TRAFALGAR, SOUTH OF DUNDAS STREET, AS IN 159261; OAKVILLE/TRAFALGAR 1326 Bronte Rd PT LT 31, CON 2 TRAFALGAR, SOUTH OF DUNDAS STREET, AS IN 488493; OAKVILLE/TRAFALGAR 1342 Bronte Rd PT LT 31, CON 2 TRAFALGAR, SOUTH OF DUNDAS STREET, PART 2, 20R2730; OAKVILLE/TRAFALGAR	Chain of Title
Property Identification Number (PIN)	1300 Bronte Rd 24926-0038 1316 Bronte Rd 24926-0037 1326 Bronte Rd 24926-0036 1342 Bronte Rd 24926-0035	Chain of Title
Municipal Address	1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario	Chain of Title
Zoning	1300 Bronte Rd ED – Existing Development N- Natural Area 1316 Bronte Rd ED – Existing Development 1326 Bronte Rd ED – Existing Development 1342 Bronte Rd ED – Existing Development N- Natural Area	By-law 2014-014 Town of Oakville
Site Area	3.56 hectares (8.8 acres)	Client
Centroid UTM Coordinates	Northing: 4807851.00 m N Easting: 600955.00 m E Zone: 17T	Google Earth

1.2 Property Ownership

The ownership details for the Phase Two Property are provided in the table below.

Table 1-2: Phase Two Property Ownership

Property Owner	Address	Contact
1300 Bronte Rd Joyce Enns 1316 Bronte Rd Victor Peter Enns 1326 Bronte Rd 1442839 Ontario Limited 1342 Bronte Rd Victor Peter Enns	1300 Bronte Road, Oakville, Ontario	Mr. Victor Enns 1300 Bronte Road, Oakville, Ontario

1.3 Current and Proposed Future Use

The Phase Two Property is currently occupied by residential houses which is considered to be Residential Property Use under O.Reg. 153/04 (as amended). It is DS' understanding that the Client intends to redevelop the Site with a residential subdivision.

1.4 Applicable Site Condition Standards

The applicable Site Condition Standards (SCS) for the Phase Two Property are considered by the Qualified Person (QP) to be both the MECP Table 1 and MECP Table 2 SCS, as follows:

- Table 1 SCS: Full Depth Generic Site Condition Standards for Residential/Parkland/Institutional Use with coarse-textured soils as contained in the April 15, 2011 Ontario Ministry of Environment, Conservation and Parks (MECP) document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", herein referred to as the "Table 1 SCS".
- Table 2 SCS: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional Use with fine/medium-textured soils as contained in the April 15, 2011 Ontario Ministry of Environment, Conservation and Parks (MECP) document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", herein referred to as the "Table 2 SCS".

The selection of the Table 1 and 2 SCS is considered appropriate based on the following rationale:

- The Phase Two Property adjoins two Areas of Natural Significance:
  - The Bronte Creek Provincial Park Natural Reserve Zone, an Area of Natural and Scientific Interest located to the west and south of the Site; and
  - The Ontario Greenbelt, including a Natural Heritage System (Greenbelt Reference Square 99) which is protected as per O. Reg 59/05 and is located south of the Site.

In accordance with Section 41 of O.Reg 153/04, the MECP Table 1 Site Condition Standards (SCS) are applicable to the portions of the Site which are located within 30 m of the Areas of Natural Significance.

The MECP Table 2 RPI Standards with medium-fine textures soils were considered most applicable for the remaining portions of the Site that are located at more than 30 m from the Areas of Natural Significance based on the following rationale:

- The Phase Two Property does not rely on groundwater as a potable water source;
- The proposed future use of the Phase Two Property will be residential;
- More than two-thirds of the soil at the Site is considered to be medium-fine textured;
- The pH of the soils analyzed during this Phase Two ESA are within the accepted range specified under O.Reg. 153/04 (as amended); and
- Bedrock was not encountered within 2 metres of the ground surface.

2.0 Background Information

2.1 Physical Setting

2.1.1 Water Bodies and Areas of Natural Significance

The nearest body of water to the Phase Two Property is Bronte Creek, located approximately 30 metres to the west. Environmentally Significant Areas are natural areas that have been identified as significant and worthy of protection on three criteria – ecology, hydrology and geology. Municipalities has developed policies to protect natural heritage features. The Region uses Areas of Natural Significance as a means to protect natural areas like wetlands, fish habitat, woodlands, habitat of rare species, groundwater recharge and discharge areas, and Areas of Natural and Scientific Interest.

An “area of natural significance” is defined under O.Reg. 153/04 (as amended) as any of the following:

1. An area reserved or set apart as a provincial park or conservation reserve under the Provincial Parks and Conservation Reserves Act, 2006.

2. An area of natural and scientific interest (life science or earth science) identified by the Ministry of Natural Resources as having provincial significance.
3. A wetland identified by the Ministry of Natural Resources as having provincial significance.
4. An area designated by a municipality in its official plan as environmentally significant, however expressed, including designations of areas as environmentally sensitive, as being of environmental concern and as being ecologically significant.
5. An area designated as an escarpment natural area or an escarpment protection area by the Niagara Escarpment Plan under the Niagara Escarpment Planning and Development Act.
6. An area identified by the Ministry of Natural Resources as significant habitat of threatened or endangered species
7. An area which is habitat of species that is classified under section 7 of the Endangered Species Act, 2007 as a threatened or endangered species
8. Property within an area designated as a natural core area or natural linkage area within the area to which the Oak Ridges Moraine Conservation Plan under the Oak Ridges Moraine Conservation Act, 2001 applies
9. An area set apart as a wilderness area under the Wilderness Areas Act.

A review of the databases and the Oakville Official Plan indicated that the west and southwest side of the Site is directly adjacent to an Area of Natural and Scientific Interest (ANSI) designated as the *Bronte Creek Provincial Park Natural Reserve Zone*.

Additionally, the southern border of the Phase Two Property is directly adjacent to an Ontario Greenbelt, including a Natural Heritage System (Greenbelt Reference Square 99) which is protected as per O. Reg 59/05.

A review of the above-listed databases also indicated that Redside Dace, Northern Bobwhite, Eastern Flowering Dogwood and the American Eel as endangered, and the Spiny Softshell, Lake Sturgeon, and the White Wood Aster as threatened species within 1 km of the Site.

According to the MNRF, the Redside Dace, is an aquatic species found in pools and slow-moving areas of small streams. The Northern Bobwhite is a small squid that lives in grasslands, around abandoned farm fields and along brushy fencerows. The Eastern Flowering Dogwood is a small tree that reaches 3-10m in height, it grows under taller trees in mixed forests, it mostly grows in floodplains sometimes fencerows. The American Eel is an endangered species under Endangered Species Act, it is a type of fish with a long, snake-

like body that can be found in fresh water within the Great Lakes and Niagara Falls. Since the nearest body of water, Bronte Creek is located within 30m of the Site, two (2) ponds were observed and the Site is within 30m of a woodland and Bronte Creek National Park, it is anticipated that these species may be found on the Phase Two Study Area, and may provide a viable habitat for such species.

Per Section 41 of O.Reg. 153/04 (as amended), a property is considered to be environmentally sensitive under the following circumstances:

- The Site is within an area of natural significance
- The Site includes or is adjacent to an area of natural significance of part of such an area, or
- The Site includes land that is within 30 metres of an area of natural significance or part of such an area.

Based on the presence of the areas of natural significance within 30m of the Site, the portion of the Phase Two Property that is located within 30m of the areas of natural significance is considered under O.Reg 153/04 (as amended) to be environmentally sensitive. The area of natural significance associated with the Bronte Creek Provincial Park is illustrated on Figure 2.

2.1.2 Topography and Surface Water Draining Features

The topography of the Phase Two Property is generally flat, with a surface elevation of 130 masl. The topography within the Phase Two Study Area generally slopes to the southwest, towards Bronte Creek, which is the nearest body of water, located approximately 30 metres to the west of the Phase Two Property. Based on a review of the MECP well records, the depth to groundwater in the vicinity of the Phase Two Property is approximately 8-12 mbgs. The shallow groundwater flow direction within the Phase Two Study Area is inferred to be southwesterly towards Bronte Creek.

The Site is situated within a South Slope physiographic region. The surficial geology within the Phase Two Study area is described as Halton Till, predominantly silt to silty clay matrix, high in matrix carbonate content and clast poor, and the bedrock is described as shale, limestone, dolostone, siltstone of the Queenston Formation. Based on a the Terraprobe 2016 Geotechnical Slope Stability and Streambank Erosion Analysis (discussed in detail below), the bedrock in the Phase Two Study Area is anticipated to be encountered at an approximate depth range of 6.1 to 12.2 mbgs.

2.2 Past Investigations

2.2.1 Previous Report Summary

DS completed a Phase One ESA in June 2020, the pertinent findings of which are summarized in section 3.3 below. Additionally, the following environmental reports were provided for DS to review:

- *Geotechnical Slope Stability and Streambank Erosion Analysis, 1300 Bronte Road, Oakville, Ontario",* prepared for Mr. Victor Enns & Ms. Joyce Enns, prepared by Terraprobe Inc., dated May 19, 2016 (Terraprobe 2016 Geotechnical Slope Stability and Streambank Erosion Analysis)*;*
- *"Phase One Environmental Site Assessment, 1300 – 1342 Bronte Road, Oakville, Ontario", prepared* for Mr. Victor Enns, prepared by Soil-Mat Engineers & Consultants Ltd., dated December 11, 2018 (Soil-Mat 2018 Phase One ESA), and;
- *"Environmental Soil testing, 1300 – 1342 Bronte Road, Oakville, Ontario"*, prepared for Mr. Victor Enns, prepared by Soil-Mat Engineers & Consultants Ltd., dated July 21, 2020 (Soil-Mat 2020 Environmental Soil Testing).

These reports were reviewed in order to assess for the presence of known or suspected PCAs and APECs, and to determine if there are known soil and/or groundwater impacts on the Phase One Property or on Properties within the Phase One Study Area.

Based on the information reviewed by DS, the location of the Phase One Property, and the proposed future land use (residential), the most applicable Site Condition Standards as defined by the Ministry of the Environment, Conservation, and Parks (MECP) in the document "*Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act*", dated April 15, 2011 are considered to be:

- Table 1 SCS: Full Depth Background Site Condition Standards for all property uses other than agricultural (Table 1 SCS), and;
- Table 2 SCS: Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional Use with coarse-textured soils.

As per the above, two Site Condition Standards are considered to be applicable for the Phase One Property – the Table 1 SCS are applicable for areas that are located within 30m of the Bronte Creek Provincial Park/Greenbelt. At areas not within 30m of the Bronte Creek Provincial Park, or any other Area of Natural and Scientific Interest, the MECP Table 2 SCS Full Depth Generic Site Condition Standards for use in a Potable Ground Water Condition for

Residential / Parkland / Institutional land uses having coarse textured soils should be applied.

The analytical data provided in the previous reports were compared to the Table 1 SCS or Table 2 SCS (as applicable) in order to assess whether there are known areas of impacted soil and/or groundwater on the Phase One Property. A summary of the pertinent details of the reports reviewed is provided below, as is a detailed summary of the Soil-Mat (2020) Environmental Soil Testing Report:

Terraprobe 2016 Geotechnical Slope Stability and Streambank Erosion Analysis

The Geotechnical Slope Stability and Streambank Erosion Analysis completed by Terraprobe consisted of advancing three (3) borehole within the valley slope situated within the far south western portion of 1300 Bronte Road – adjacent to the border with the Provincial Park which sloped steeply for approximately 30-40 metres before meeting the Bronte Creek riverbed within the Park. The report provided geotechnical engineering recommendations for the long-term stability of the Site slope.

The following pertinent information was noted by DS:

- Disturbed/weathered soil material was encountered in all three (3) boreholes beneath the surficial topsoil layer, it extended to depths ranging from 0.8 to 2.3 metres below ground surface (mbgs). The disturbed soil material predominantly consisted of sandy silt with trace gravel and trace amounts of clay as well as trace organics;
- Bedrock was encounter in all three (3) boreholes at depths ranging from 6.1 to 12.2 mbgs; and
- Two (2) piezometers were installed upon the advancement of the boreholes. The groundwater level on February 24, 2016 was between 9.8 and 11.8 mbgs.

Soil-Mat 2018 Phase One ESA

The Soil-Mat Report included a review of readily available historical records and reasonably ascertainable regulatory information, a Site Reconnaissance, interviews, evaluation of information, and reporting. The following pertinent information was noted by DS:

- The four (4) properties that comprised the Phase One Property are owned by Victor Peter Enns, 144839 Ontario Limited and Joyce Enns;
- A chain of title was performed to the four properties comprising the Phase One Property. A summary is provided in Section 3.1.4 above.

- The Property was first developed use was established to be for residential purposes between 1909 and 1938;
- During the Site reconnaissance the following was observed:
  - One (1) heating fuel AST was observed in the basement of 1300 Bronte Road (**PCA-1**);
  - One (1) heating fuel AST was observed in the basement of 1326 Bronte Road (**PCA-2**);
  - One (1) heating fuel AST was observed in the basement of 1342 Bronte Road (**PCA-3**);
  - One (1) heating fuel AST was observed on the exterior ground adjacent to the eastern wall of the dwellings at 1316 Bronte Road (**PCA-4**);
- A berm was observed adjacent of the man-made pond, from the interview with Mr. Enns it was suggested that the material in the berm is comprised of excess material generated during the road widening of Bronte Road near the Site, no chemical analysis was performed to the soil previous to the importation of the material to the Phase One Property (**PCA-5**); and
- An orchard used to operate on the majority of the Site, remnants of it was observed at the southeast corner of the Site (**PCA-6**); and
- From an interview with Mr. Enns, it was mentioned that the fill surrounding the dwelling at 1300 Bronte Road was comprised of excess material generated during a man-made pond. DS considers that the fill material moved to the dwelling may be impacted with the pesticides applied on the Property when operating as an orchard **(PCA-7)**.

Soil-Mat provided the following recommendations and conclusions:

- Importation of fill material within the footprint of the demolished building previously located to the south end of the Property was identified as a PCA. It was recommended the advancement of two (2) hand auger boreholes within the footprint of a demolished building located at 1300 Bronte Road. It is noted that the reportedly demolished building was found to be still intact (Shed 2) at the time of the Phase One Site Reconnaissance completed by DS;
- The majority of the Site was formerly utilized as an orchard. Ten (10) to twelve (12) hand augured boreholes across the Site were recommended to investigate the topsoil and native material of the Site for OCPs lead and arsenic;

- A berm was observed adjacent of the man-made pond, and the material is comprised of material generated during the road widening of Bronte Road near the Site. Four (4) to five (5) hand augured boreholes within the on-Site berm was recommended to investigate the fill material brought to the berm; and
- Four (4) heating fuel ASTs were observed on the Property. Due to visual evidence, the ASTs were not considered to contribute to an APEC.

Soil-Mat 2020 Environmental Soil Testing

The Soil-Mat Environmental Soil testing investigation was completed to investigate the aforementioned PCAs identified in the Soil-Mat 2018 Phase One ESA. The investigation involved the advancement of twenty (20) hand augered boreholes advanced to a maximum depth of 0.9 mbgs. The majority of the samples were collected from the existing surficial topsoil and surficial soil. Four (4) samples were collected within the berm just east of the on-Site pond to a maximum depth of 0.3 mbgs.

Select soil samples were submitted for analysis of metals and inorganics, OCPs, arsenic and lead. All of the locations tested by Soil-Mat (2020) were within the portions of the Site which are greater than 30m from the Bronte Creek Provincial Park, and as such the MECP Table 2 SCS were considered applicable.

The results of the chemical analyses indicated the following exceedances of the Table 2 SCS:

Table 2-1: Summary of Impacts Previously Identified in Soil

Sample ID	Sample Depth (mbgs)	Parameter	Units	Table 1 SCS	Table 2 SCS	Reported Value
S2	0.0-0.1	DDE	µg/g	N/A	0.33	**0.12***
S3	0.0-0.1	DDE	µg/g		0.33	**0.85**
		Arsenic	µg/g		18	**33**
		Lead	µg/g		150	**156**
S4	0.0-0.1	DDE	µg/g		0.33	**0.84**
		Arsenic	µg/g		18	**31**
		Lead	µg/g		150	**163**
S5	0.2-0.3	DDE	µg/g		0.33	**1.0**

Sample ID	Sample Depth (mbgs)	Parameter	Units	Table 1 SCS	Table 2 SCS	Reported Value
		DDD	µg/g		0.33	**0.052***
		Arsenic	µg/g		18	**38**
		Lead	µg/g		150	**189**
S6	0.0-0.1	DDE	µg/g		0.33	**0.44**
		Arsenic	µg/g		18	**31**
		Lead	µg/g		150	**149***
S7	0.0-0.1	DDE	µg/g		0.33	**0.081***
S8	0.2-0.3	DDE	µg/g		0.33	**0.069***
S9	0.0-0.1	DDE	µg/g		0.33	**0.22***

Notes: **0.0** - Exceeds Table 1 SCS
0.0 – Exceeds Table 2 SCS
*Reported by Soil-Mat as exceeding the Table 1 SCS, but as these samples are located 30m away from any environmentally sensitive areas, the Table 2 SCS can be applied and the result then meets the SCS

Soil-Mat concluded that residual Organochlorine Pesticide (OCP) components are present on the southeast portion of the Site (**PCA-8**), thus additional sampling is warranted to further delineate the horizontal extent of the adverse impacts with OCPs in the topsoil and near surface soil.

Previous Report Summary

Based on a review of the previous environmental investigations completed for the Site, the following potentially contaminating activities were noted:

- #28 - Gasoline and Associated Products Storage in Fixed Tanks – Fuel oil tanks ASTs are present in each dwelling comprising the Site:
  - **PCA-1:** One (1) heating fuel AST was observed in the basement of 1300 Bronte Road;
  - **PCA-2:** One (1) heating fuel AST was observed in the basement of 1326 Bronte Road;
  - **PCA-3:** One (1) heating fuel AST was observed in the basement of 1342 Bronte Road;

- **PCA-4:** One (1) heating fuel AST was observed on the exterior ground adjacent to the eastern wall of the dwellings at 1316 Bronte Road.

- **PCA-5**: #30 - Importation of Fill Material of Unknown Quality – The berm built east of the man-made pond at 1300 Bronte Road was comprised of fill material brought from soil generated from the road widening of Bronte Road.
- #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications:
  - **PCA-6:** An orchard used to operate on the majority of the Site;
  - **PCA-7**: The grading material used to surround the dwelling at 1300 Bronte Road was comprised of excess material generated during the excavation of the man-made pond at the same Property, the fill may be contaminated with pesticides from the former orchard operation.
- #N/S – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications - Soil samples more than 30 m outside of an Area of Natural Significance were identified on the southeast portion of the Site in the Soil-Mat 2020 Environmental Soil Testing investigation. The results of the analyses were found to exceed the applicable Table 2 SCS as follows:
  - **PCA-8a**: Sample S3;
  - **PCA-8b**: Sample S4 and S5;
  - **PCA-8C**: Sample S6.

2.2.2 Use of Previous Analytical Results

The soil data obtained from Soil-Mat (2020) is considered to be of adequate quality, and therefore has been used to assess the soil conditions at the Phase Two Property for reference purposes. The samples documented in the Soil-Mat (2020) report were collected within the last year, and as such are considered to be representative of the current conditions for the purposes of this report. However, the sampling methodology was not in accordance with O. Reg 153/04 whereby individual metal parameters (namely lead and arsenic) were tested for, as opposed to the full metals and metal hydride groups. In addition, the quality assurance/quality control (QA/QC) procedures were not in accordance with O.Reg. 153/04 (as amended) as no duplicate samples were analysed. On this basis, the information contained within the Soil-Mat (2020) report was considered as a reference resource for the purposes of delineating soil impacts at the Site but were not relied upon. A summary of the previous laboratory data has been appended to this report.

3.0 Scope of the Investigation

The scope of the Phase Two ESA was designed to investigate the portions of the Site determined in the Phase One ESA to be Areas of Potential Environmental Concern. This Phase Two ESA was conducted in general accordance with O.Reg. 153/04 (as amended). The scope of the investigation including the subsurface investigation, sampling, and laboratory analysis was based on the findings of the Phase One ESA and was limited to the portions of the site which were accessible.

3.1 Overview of Site Investigation

The following tasks were completed as part of the Phase Two ESA:

- Preparation of a Health and Safety Plan to ensure that all work was executed safely;
- Clearance of public private underground utility services prior to commencement of subsurface investigative operations;
- Preparation of a Sampling and Analysis Plan (SAP);
- Retained a MECP licenced driller to advance a total of fourteen (14) boreholes on the Phase Two Property, to depths ranging between 5.3 to 8.2 mbgs. Eight (8) of the boreholes were instrumented with groundwater monitoring wells upon completion, between August 12, 2020 to August 19, 2020. The soil lithology was logged during drilling, and representative soil samples were collected at regular intervals. The soil samples were screened for organic vapours using RKI Eagle 2 MultiGas Detector and examined for visual and olfactory indications of soil impacts;
- Submitted "worst case" soil samples collected from the boreholes for laboratory analysis of relevant contaminants of potential concern (COPCs) as identified in the Phase One ESA;
- Conducted groundwater level measurements in the monitoring wells in order to determine the groundwater elevation, and to establish the local groundwater flow direction;
- Supplementary soil sampling was conducted on August 20, 2020 using a hand auger for the purpose of delineating the DDE impacts identified and to assess APECs 6A, 6B, 7A, 7B and 7C. Thirty-five (35) hand-augered boreholes were advanced to a maximum depth of 0.5 mbgs. Thirty (30) of the hand augered boreholes were distributed across the entire property and advanced to a depth of 0.5 mbgs to investigate potential pesticide impacts. Four (4) hand augered boreholes (SB1 to SB4) were completed atop the soil berm to the east of Pond 1 advanced to a depth of 0.1

mbgs in order to identify potential impacts from fill material associated with Bronte Road. Lastly, hand augered borehole TR1 was advanced adjacent to the onsite transformer to a maximum depth of 0.1 mbgs.

- Surveyed all monitoring wells to a geodetic benchmark;
- Developed and purged all monitoring wells prior to sampling. Groundwater samples were collected for all COPCs identified in the Phase One ESA;
- Compared all soil and groundwater analytical data to the applicable MECP SCS; and
- Prepared a Phase Two ESA Report in general accordance with O.Reg. 153/04 (as amended).

3.2 Media Investigated

3.2.1 Rationale for Inclusion or Exclusion of Media

Table 3-1: Rationale of Sampling Media

Media	Included or Excluded	Rationale
Soil	Included	Soil was identified as a media of potential impact in the Phase One ESA, based on the historical operations conducted on-Site.
Groundwater	Included	Groundwater was identified as a media of potential impact in the Phase One ESA, based on the historic operations conducted on-Site.
Sediment	Excluded	Sediment was not identified as a media of potential concern.
Surface Water	Excluded	Surface water was not identified as a media of potential impact in the Phase One ESA, based on the historical operations conducted on-Site.

3.2.2 Overview of Field Investigation of Media

Table 3-2: Field Investigation of Media

Media	Methodology of Investigation
Soil	A total of fourteen (14) boreholes were advanced on the Phase Two Property, to depths ranging from 5.3 to 8.2 mbgs. Additionally, Thirty-five (35) hand-augered boreholes were advanced to depths ranging from 0.1 to 0.5 mbgs. Soil samples were collected and submitted for analysis of all relevant PCOCs.
Groundwater	A total of eight (8) monitoring wells were present on the Phase Two Property at the time of the investigation. Representative groundwater samples were collected from each monitoring well and submitted for analysis of all relevant PCOCs.

3.3 Phase One Conceptual Site Model

A Conceptual Site Model was developed for the Phase One Property, located at 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario. The Phase One Conceptual Site Model is presented in Figures 2A, 2B, 3, 4, and 5 and visually depict the following:

- Any existing buildings and structures
- Water bodies located in whole, or in part, on the Phase One Study Area
- Areas of natural significance located in whole, or in part, on the Phase One Study Area
- Water wells at the Phase One Property or within the Phase One Study Area
- Roads, including names, within the Phase One Study Area
- Uses of properties adjacent to the Phase One Property
- Areas where any PCAs have occurred, including location of any tanks and historic soil impacts
- Areas of Potential Environmental Concern

3.3.1 Potentially Contaminating Activity Affecting the Phase One Property

All PCAs identified within the Phase One Study Area are presented on Figure 4. The PCAs which are considered to contribute to APECs on, in or under the Phase One Property are summarized in the table below:

Table 3-3: Summary of PCAs Contributing to APECs

PCA Item.	PCA Description (Per. Table 2, Schedule D of O.Reg. 153/04)	Description	Rationale
1	#28 – Gasoline and associated products storage in fixed tanks	One (1) heating fuel AST was observed in the basement of 1300 Bronte Road.	PCA is on the Phase One Property.
2	#28 – Gasoline and associated products storage in fixed tanks	One (1) heating fuel AST was observed in the basement of 1326 Bronte Road.	PCA is on the Phase One Property.

PCA Item.	PCA Description (Per. Table 2, Schedule D of O.Reg. 153/04)	Description	Rationale
3	#28 – Gasoline and associated products storage in fixed tanks	One (1) heating fuel AST was observed in the basement of 1342 Bronte Road.	PCA is on the Phase One Property.
4	#28 – Gasoline and associated products storage in fixed tanks	One (1) heating fuel AST was observed on the exterior ground adjacent to the eastern wall of the dwellings at 1316 Bronte Road.	PCA is on the Phase One Property.
5	#30 - Importation of Fill Material of Unknown Quality	The berm built east of the man-made pond at 1300 Bronte Road was comprised of fill material of soil material generated from the road widening of Bronte Road.	PCA is on the Phase One Property.
6	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	The Phase One Property formerly contained an orchard across its entire extent, upon which pesticide use is inferred.	PCA is on the Phase One Property.
7	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	The grading material surrounding the dwelling at 1300 Bronte Road is inferred to potentially contain pesticides associated with the excavation of Pond 1.	PCA is on the Phase One Property.
8a	#40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	Environmental testing (Soil-Mat, 2020) identified pesticide (DDE), arsenic and lead impacted soil with the northern portion of the current orchard on-Site (sample S3, associated with a depth of 0.1 mbgs) which exceeded the applicable SCS (MECP Table 2).	PCA is on the Phase One Property.
8b		Environmental testing (Soil-Mat, 2020) identified pesticide (DDE and DDD), arsenic and lead impacted soil with the central portion of the current orchard on-Site (sample S4 & 5 taken at the same location, associated with a depth of 0.1 mbgs and 0.2-0.3 mbgs respectively) which exceeded the applicable SCS (MECP Table 2).	
8c		Environmental testing (Soil-Mat, 2020) identified pesticide (DDE), arsenic and lead impacted soil with the southern portion of the current orchard	

PCA Item.	PCA Description (Per. Table 2, Schedule D of O.Reg. 153/04)	Description	Rationale
		on-Site (sample S6, associated with a depth of 0.1 mbgs) which exceeded the applicable SCS (MECP Table 2).	
13	#28 – Gasoline and associated products storage in fixed tanks	One (1) diesel tank with a 1,360-gallon capacity and which appeared to be in good condition, but without secondary containment, was located adjacent to Shed 2 to the south of 1300 Bronte Road.	PCA is on the Phase One Property.
14	#55 - Transformer Manufacturing, Processing and Use	One transformer was observed to be on Site at 1300 Bronte Road.	PCA is on the Phase One Property.

N/S - not specified in Table 2, Schedule D, of O.Reg. 153/04

3.3.2 Contaminants of Potential Concern

The following contaminants of potential concern were identified for the Phase One Property: PHCs, VOCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, electrical conductivity, Cr (VI), Hg, low or high pH, SAR, PAHs, PCBs, and OCPs.

3.3.3 Underground Utilities and Contaminant Distribution and Transport

Underground utilities can affect contaminant distribution and transport. Trenches excavated to install utility services, and the associated granular backfill may provide preferential pathways for horizontal contaminant migration in the shallow subsurface.

Underground utilities were identified at the Phase One Property, including water, electrical, and sewer services to the existing Site Building. Plans were not available to confirm the depths of these utilities; however, they are estimated to be installed at depths ranging from 2 to 3 metres below ground surface.

The depth to groundwater at the Phase One Property is inferred to be approximately 8-12 metres below ground surface, therefore the utility corridors are expected to be well above the water table and would not act as preferential pathways for contaminant distribution and transport in the event that shallow subsurface contaminants exist at the Phase One Property.

3.3.4 Geological and Hydrogeological Information

The topography of the Phase One Property is generally flat, with a surface elevation of 130 masl. The topography within the Phase One Study Area generally slopes to the southwest, towards Bronte Creek, which is the nearest body of water, located approximately 30 metres

to the west of the Phase One Property. Based on a review of the MECP well records, the depth to groundwater in the vicinity of the Phase One Property is approximately 8-12 mbgs. The shallow groundwater flow direction within the Phase One Study Area is inferred to be southwesterly towards Bronte Creek.

The Site is situated within a South Slope physiographic region. The surficial geology within the Phase One Study area is described as Halton Till, predominantly silt to silty clay matrix, high in matrix carbonate content and clast poor, and the bedrock is described as shale, limestone, dolostone, siltstone of the Queenston Formation. Based on a the Terraprobe 2016 Geotechnical Slope Stability and Streambank Erosion Analysis, the bedrock in the Phase One Study Area is anticipated to be encountered at an approximate depth range of 6.1 to 12.2 mbgs.

3.3.5 Uncertainty and Absence of Information

DS has relied upon information obtained from federal, provincial, municipal, and private databases, in addition to records and summaries provided by EcoLog ERIS. All information obtained was reviewed and assessed for consistency, however the conclusions drawn by DS are subject to the nature and accuracy of the records reviewed.

All reasonable inquiries were made to obtain reasonably accessible information, as mandated by O.Reg.153/04 (as amended). All responses to database requests were received prior to completion of this report, with the exception of the MECP FOI and City Directory request. If the MECP FOI request or City Directory search produces information which may alter the conclusions of this report, an addendum will be provided to the Client. This report reflects the best judgement of DS based on the information available at the time of the investigation.

Information used in this report was evaluated based on proximity to the Phase One Property, anticipated direction of local groundwater flow, and the potential environmental impact on the Phase One Property as a result of potentially contaminating activities.

The QP has determined that the uncertainty does not affect the validity of the Phase One ESA Conceptual Site Model or the conclusions of this report.

3.4 Deviations from Sampling and Analysis Plan

The Phase Two ESA was completed in accordance with the SAP.

3.5 Impediments

DS was granted complete access to the Phase Two Property throughout the course of the investigation. No impediments were encountered.

4.0 Investigation Method

4.1 General

The Phase Two ESA followed the methodology outlined in the following documents:

- Ontario Ministry of the Environment "Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario" (December 1996);
- Ontario Ministry of the Environment "Guide for Completing Phase Two Environmental Site Assessments under Ontario regulation 153/04" (June 2011);
- Ontario Ministry of the Environment "Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act" (July 2011) (Analytical Protocol);

The methods used in the Phase Two ESA investigation did not differ from the associated standard operating procedures.

4.2 Drilling and Excavating

A site visit was conducted prior to drilling in order to identify the borehole locations based on the APECs identified in the Phase One ESA. The selected borehole locations are presented on Figure 4. The borehole locations were cleared of underground public and private utility services prior to commencement of drilling. A summary of the drilling activities is provided in the table below.

Table 4-1: Summary of Drilling Activities

Parameter	Details		
Drilling Contractor	Davis Drilling Ltd.	Pontil Drilling	DS Consultants (Hand Auger)
Boreholes Drilled	MW20-1, BH20-3 to MW20-10, BH20-12 to BH20-14	MW20-2 and MW20-11	D1 to D30, SB1 to SB4, TR1
Drilling Dates	August 12 to August 14, 2020	August 19, 2020	August 20, 2020

Parameter	Details		
Drilling Equipment Used	Truck-mounted CME 55	Truck-mounted CME 45	Hand-Auger
Measures taken to minimize the potential for cross contamination	◆ Soil sampling was conducted using a 50 mm stainless steel split spoon sampler. The split spoon sampler was brushed clean of soil, washed in municipal water containing phosphate free detergent, rinsed in municipal water, and then rinsed with distilled water for each sampling interval in order to reduce the potential for cross contamination; ◆ Soil samples were extracted from the interior of the sampler rather than from areas in contact with the sampler sidewalls; ◆ Use of dedicated and disposable nitrile gloves for the handling of soil samples. A new set of gloves was used for each sample.		◆ The hand auger was brushed free of debris in between samples and rinsed with a combination of alconox and distilled water. ◆ Use of dedicated and disposable nitrile gloves for the handling of soil samples. A new set of gloves was used for each sample.
Sample collection frequency	Samples were collected at a frequency of every 0.6 m per 0.8 m from the ground surface to 3.1 mbgs, followed by one sample per 1.5 m to borehole termination depth.		Soil samples associated with D1 to D30 were collected at intervals of 0.1, 0.3 and 0.5 mbgs. Soil samples associated with SB1 to SB4 were collected within 0.1 m of the top grade of the soil berm. TR1 was collected at 0.1 mbgs.

4.3 Soil Sampling

Soil samples were collected using a 50 mm stainless steel split spoon sampler or hand-held AMS auger. Discrete soil samples were collected from the split-spoon samplers or hand auger by DS personnel using dedicated nitrile gloves.

A portion of each sample was placed in a resealable plastic bag for field screening, and the remaining portion was placed into laboratory supplied glass sampling jars. Samples intended for VOC and the F1 fraction of petroleum hydrocarbons analysis were collected using a laboratory-supplied soil core sampler, placed into the vials containing methanol for

preservation purposes and sealed using Teflon lined septa lids. All sample jars were stored in dedicated coolers with ice for storage, pending transport to the analytical laboratory. A formal chain of custody was maintained for all samples submitted to the laboratory.

The subsurface soil conditions were logged by DS personnel at the time of drilling, and recorded on field borehole logs. The borehole logs are presented under Appendix B. Additional detail regarding the lithology encountered in the boreholes is presented under Section 5.1.

4.4 Field Screening Measurements

All retrieved soil samples were screened in the field for visual and olfactory observations. No obvious visual or olfactory evidence of potential contamination were noted. No aesthetic impacts (e.g. cinders, slag, hydrocarbon odours) were encountered during this investigation. The soil sample headspace vapour concentrations for all soil samples recovered during the investigation were screened using portable organic vapour testing equipment in accordance with the procedure outlined in the MECP's '*Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario'.*

The soil samples were inspected and examined to assess soil type, ground water conditions, and possible chemical contamination by visual and olfactory observations or by organic vapour screening. Samples submitted for chemical analysis were collected from locations judged by the assessor to be most likely to exhibit the highest concentrations of contaminants based on several factors including (i) visual or olfactory observations, (ii) sample location, depth, and soil type (iii) ground water conditions and headspace reading. A summary of the equipment used for field screening is provided below:

Table 4-2: Field Screening Equipment

Parameter	Details
Make and Model of Field Screening Instrument	RKI Eagle 2, Model 5101-P2 Serial Number: E2G721
Chemicals the equipment can detect and associated detection limits	VOCs with dynamic range of 0 parts per million (ppm) to 2,000 ppm PHCs with range of 0 to 50, 000 ppm
Precision of the measurements	3 significant figures
Accuracy of the measurements	VOCs: ± 10% display reading + one digit Hydrocarbons: ± 5% display reading + one digit
Calibration reference standards	PID: Isobutylene CGD: Hexane

Parameter	Details
Procedures for checking calibration of equipment	In-field re-calibration of the CGI was conducted (using the gas standard in accordance with the operator's manual instructions) if the calibration check indicated that the calibration had drifted by more than +/- 10%.

A summary of the soil headspace measurements are provided in the borehole logs, provided under Appendix B.

4.5 Groundwater Monitoring Well Installation

Monitoring wells were installed upon completion of eight (8) of the boreholes advanced on the Phase Two Property. The monitoring wells were constructed of 51-millimetre (2-inch) inner diameter (ID) flush-threaded schedule 40 polyvinyl chloride (PVC) risers, equipped with a 3.1 m length of No. 10 slot PVC screen. The well screens were sealed at the bottom using a threaded cap and at the top with a lockable J-plug.

Silica sand was placed around and up to 0.6m above the well screen to act as a filter pack. Bentonite was placed from the ground surface to the top of the sand pack. The wells were completed with protective flush mount casings.

Details regarding the monitoring well construction can be found in Table 1 (enclosed), and on the borehole logs provided in Appendix B.

Disposable nitrile gloves were used to minimize the potential for cross-contamination during well installation. Dedicated equipment was used for well development and sampling for further minimize the risk of cross contamination.

The monitoring wells were developed on August 18, 2020 and on August 20, 2020 .In accordance with DS SOPs for monitoring well development, the wells were developed by removing a minimum of three standing water column volumes using dedicated inertial pumps comprised of Waterra polyethylene tubing and dedicated foot valves.

4.6 Groundwater Field Measurement of Water Quality Parameters

Field measurements of water quality parameters including temperature, specific conductivity, pH, turbidity, dissolved oxygen, oxidation-reduction potential and turbidity were collected using a flow-through cell and a YSI Water Quality Meter (YSI-556™). The YSI Water Quality Meter was calibrated by the supplier (Maxim Environmental And Safety Inc.) in accordance with the manufacturer's specifications.

The measurements were conducted at regular intervals in order to determine whether stabilized geochemical conditions had been established in the monitoring well, indicating representative groundwater conditions.

The field measurements have been archived and can be provided upon request.

4.7 Groundwater Sampling

Groundwater samples were collected a minimum of 24 hours after the development of the monitoring wells. The groundwater samples were collected using low flow sampling methodology (<0.5L/minute) using a peristaltic pump with dedicated 6.4 mm ID polyethylene tubing.

Groundwater samples for metals analysis were field filtered using dedicated 0.45 micro in-line filters. The groundwater was transferred directly into laboratory supplied containers, and preserved as appropriate using the containers supplied by the analytical laboratory. The samples were placed in coolers upon completion of sampling and stored on ice for storage, pending transport to the analytical laboratory. A formal chain of custody was maintained for all samples submitted to the laboratory.

4.8 Sediment Sampling

Sediment was not identified as a media of potential concern by the Phase One ESA. Sediment sampling was not conducted as a result.

4.9 Analytical Testing

The soil and groundwater samples collected were submitted to SGS Canada Inc. (SGS) under chain of custody protocols. SGS is an independent laboratory accredited by the Canadian Association for Laboratory Accreditation. SGS conducted the analyses in accordance with the MECP document "*Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act*" dated March 9, 2004 (revised on July 1, 2011).

4.10 Residue Management Procedures

4.10.1 Soil Cuttings From Drilling and Excavations

The soil cuttings generated by the borehole drilling program were stored in 205 L drums, and left on-site for disposal by a MECP approved waste-hauler for disposal at a MECP-approved waste management facility.

4.10.2 Water from Well Development and Purging

Excess water derived from well purging activities was stored in 20-L sealed plastic pails, and temporarily stored on site. Upon receipt of the analytical results it was determined that the purged groundwater met the applicable site condition standards. Based on this the purged groundwater was allowed to re-infiltrate adjacent to the monitoring wells.

4.10.3 Fluids from Equipment Cleaning

Excess equipment cleaning fluids were stored in 20-L sealed plastic pails and temporarily stored on site for disposal by a MECP approved waste-hauler for disposal at a MECP-approved waste management facility.

4.11 Elevation Surveying

The ground surface elevations of the boreholes/monitoring wells were surveyed using a Sokkia GCX-2 GNSS RTK receiver, referenced to geodetic benchmark 04320111615 located west boulevard cul-de-sac at the end of Burloak Drive, across from the Bronte Creek Park maintenance entrance.

The ground surface elevations can be found on the borehole logs presented in Appendix B.

4.12 Quality Assurance and Quality Control Measures

4.12.1 Sample containers, preservation, labelling, handling and custody for samples submitted for laboratory analysis, including any deviations from the SAP

All soil and groundwater samples were stored in laboratory-supplied sample containers in accordance with the MECP Analytical Protocol. A summary of the preservatives supplied by the laboratory is provided in the table below.

Table 4-3: Summary of Sample Bottle Preservatives

Media	Parameter	Sample Container
Soil	PHCs F1 VOCs	40 mL methanol preserved glass vial with septum lid.
	PHCs F2-F4 metals and ORPs PAHs OCPs	120 mL or 250 mL unpreserved glass jar with Teflon™-lined lid.
Groundwater	PHCs F1 VOCs	40 mL glass vial with septum lid, containing sodium bisulphate preservative.
	PHCs F2-F4	250 mL amber glass bottle with sodium bisulphate preservative

Media	Parameter	Sample Container
	PAHs OCPs	250 mL amber glass bottle (unpreserved)
	Inorganics	500 mL high density polyethylene bottle (unpreserved)
Groundwater	Metals	125 mL high density polyethylene bottle containing nitric acid preservative
	Hexavalent Chromium	125 mL high density polyethylene bottle containing ammonium sulphate/ammonium hydroxide preservative
	Mercury	125 mL glass bottle containing hydrochloric acid preservative
	Cyanide	125 mL high density polyethylene bottle containing sodium hydroxide preservative

Groundwater samples were collected using dedicated equipment for each well. Groundwater samples collected for analysis of dissolved metals, mercury and hexavalent chromium were filtered in the field using a dedicated 0.45-micron in-line filter. Each sample container was labelled with a unique sample identification, the project number, and the sampling date. All samples were placed in an ice-filled cooler upon completion of sampling, and kept under refrigerated conditions until the time of delivery to the analytical laboratory. A formal chain of custody was maintained for all samples submitted to the laboratory.

4.12.2 Description of equipment cleaning procedures followed during all sampling

Dedicated, disposable nitrile gloves were used for each sampling event to reduce the potential for cross-contamination.

The split spoon sampler was brushed clean of soil, washed in municipal water containing phosphate free detergent, rinsed in municipal water, and then rinsed with distilled water for each sampling interval in order to reduce the potential for cross contamination Dedicated equipment was used for well development and sampling for further minimize the risk of cross contamination. Non-dedicated equipment (i.e. interface probe) was cleaned before initial use and between all measurement points with a solution of Alconox™ and distilled water. The Alconox™ solution was rinsed off using distilled water.

4.12.3 Description of how the field quality control measures referred to in subsection 3 (3) were carried out

Field duplicate samples were collected at the time of sampling. In accordance with O.Reg. 153/04, one duplicate sample was analyzed per ten samples submitted for analysis. A laboratory prepared trip blank accompanied the groundwater samples during each sampling event and was submitted for laboratory analysis of VOCs.

All field screening devices (i.e. PID, CGD, YSI Water Quality Meter) were calibrated prior to use by the supplier. Calibration checks were completed, and re-calibrations were conducted as required.

4.12.4 Description of, and rational for, any deviations from the procedures set out in the quality assurance and quality control program set out in the SAP

There were no deviations from the QA/QC program described in the SAP.

5.0 Review and Evaluation

5.1 Geology

A summary of the subsurface conditions is presented below. Additional details may be found in the borehole logs appended in Appendix B.

A surficial layer of topsoil ranging in thickness from 75mm to 150mm was found in the boreholes. It should be noted that the thickness of the topsoil explored at the borehole locations may not be representative for the site and should not be relied on to calculate the amount of topsoil at the site. Shallow hand-dug test-pits should be carried out to measure the topsoil thickness at site. Fill material consisting of sandy silt to silty sand, sand and gravel and clayey silt was found in boreholes, extending to depths varying from 0.8 to 3.0m below the ground surface. The fill was present in a very loose to compact state, and included topsoil/organics were in varying proportions. The fill was also found to lack any visual indications of deleterious materials.

Below the fill, cohesionless deposits (silt, silty sand to sandy silt, and gravelly sand to sand and gravel) were encountered in all boreholes except MW20-5 to BH20-7 and MW20-11, extending to depths ranging from 2.3 mbgs to 6.0 mbgs. A lower layer of sand and gravel was found in boreholes MW20-8 and BH20-14 below the sandy silt till deposits, extending to the termination depths of boreholes. These deposits were water bearing and found in a very loose to compact state, with occasional very dense layers.

Cohesive deposits of silty clay and clayey silt till were encountered in all boreholes below the upper cohesionless deposits, extending to maximum drilled depths of BH20-1 to BH20-3 and underlain by sandy silt till deposits in other boreholes. These deposits were found to generally have a firm to stiff consistency with occasional very stiff to hard layers.

Sandy silt till deposits were encountered below the cohesive deposits in Boreholes BH20-4 through BH20-14, extending to depths ranging from 6.0 mbgs to 8.2 mbgs. Boreholes BH20-4 to BH20-7, BH20-9 to BH20-11 and BH20-13 were terminated in sandy silt till deposit. The sandy silt till deposits were found in a dense to very dense state.

Bedrock was not encountered within any of the boreholes, per Terraprobe (2016), shale bedrock was encountered from 6.1 to 12.2 mbgs, or from an elevation of between 124.9 and 117.6 masl, within the far western portion of the property.

Table 5-1: Summary of Geologic Units Investigated

Geologic Unit	Inferred Thickness (m)	Top Elevation (masl)	Bottom Elevation (masl)	Properties
Topsoil	0.1 – 0.2	131.9	128.9	Topsoil Like
Fill (Sand/Silty Sand)	0.8 – 2.9	129.9	127.6	Brown, Moist
Sandy Silt/Silty Sand	0.6 – 3.0	130.5	124.2	Brown, Moist
Silty Clay Till / Clayey Silt Till	1.5 – 4.0	128.4	122.3	Brown, Very Moist
Sandy Silt Till	~3.0	124.9	123.7	Grey, Moist/Very Moist
Sand and Gravel	>0.7	122.4	121.7	Saturated

5.2 Ground Water Elevations and Flow Direction

5.2.1 Rationale for Monitoring Well Location and Well Screen Intervals

A total of eight (8) monitoring wells were installed on the Phase Two Property in order to assess the groundwater quality in relation to APECs 1, 2, 3, 4 and 8.The COPCs associated with these APECs were OCPs, PAHs, PHCs, BTEX. The monitoring wells were screened to intersect the first water bearing formation encountered, in order to allow for the assessment of LNAPL, and to provide information regarding the quality of the groundwater at the water table. The monitoring wells were generally screened within the sand, sand and gravel, sandy silt to silty sand till unit encountered at an approximate depth of 1.5 to 4.5 mbgs. This unit is inferred to be an unconfined aquifer.

5.2.2 Results of Interface Probe Measurements

A summary of the groundwater level measurements is provided in Table 1 (Enclosed). The groundwater level measurements were collected using a Solinst interface probe (model 122). The depth to groundwater was found to range between 1.24 to 3.07 mbgs on August 19, 2020. Monitoring wells MW20-8 and MW20-11 were dry at the time of this assessment. There was no indication of DNAPL or LNAPL in the monitoring wells at this time.

5.2.3 Product Thickness and Free Flowing Product

No evidence of product was observed in the monitoring wells at the time of the investigation.

5.2.4 Groundwater Elevation

The groundwater elevation was calculated by subtracting the depth to groundwater from the surface elevation determined by the surface elevation survey conducted as part of this

investigation. A summary of the groundwater elevations calculated is presented in Table 1 (Enclosed). Generally the groundwater elevation was found to range from 127.03 to 129.17 masl in the upper aquifer investigated.

5.2.5 Groundwater Flow Direction

The groundwater flow direction was interpreted using the groundwater elevations calculated for the monitoring wells installed on the Phase Two Property. Based on the groundwater elevations calculated, the shallow groundwater flow direction within the Phase One Study Area is inferred to be south parallel to flow within Bronte Creek.

The groundwater elevation contours and flow direction are presented on Figure 6.

5.2.6 Assessment of Potential for Temporal Variability in Groundwater Flow Direction

The shallow aquifer investigated is inferred to be an unconfined aquifer, based on the soil stratigraphy observed in the boreholes advanced on the Phase Two Property. It is possible that temporal variations in groundwater elevations may occur on the Phase Two Property in response to seasonal weather patterns.

Temporal variability in groundwater level has the ability to influence the groundwater flow direction. The degree of variation in groundwater levels on the Phase Two Property can only be confirmed with long-term monitoring.

5.2.7 Evaluation of Potential Interaction Between Buried Utilities and the Water Table

The groundwater table was encountered at depths ranging from 1.24 to 3.07 mbgs on the Phase Two Property. Buried utility services are present on the Phase Two Property, and are inferred to be situated at depths ranging between 2 and 3 mbgs. Based on this there is the potential for the utility trenches to act as preferential pathways. However no groundwater impacts were identified, therefore the potential for preferential migration of contaminants is not of concern at this time.

5.3 Ground Water Hydraulic Gradients

5.3.1 Horizontal Hydraulic Gradient

The horizontal hydraulic gradient was calculated based on the groundwater levels recorded on August 14, 2020.

Table 5-2: Summary of Horizontal Hydraulic Gradient Calculations

Hydrogeological Unit	Calculated Horizontal Hydraulic Gradient
Overburden – (sandy silt to silty sand till)	Minimum: 0.002 Average: 0.008 Maximum: 0.02

5.3.2 Vertical Hydraulic Gradient

The vertical hydraulic gradient was not calculated, as no groundwater impacts were identified on the Phase Two Property and no nested wells were installed.

5.4 Fine-Medium Soil Texture

Not Applicable – more than two-thirds of the soils encountered on the Phase Two Property are considered to be fine/medium textured. For the purposes of evaluating the SCS, all soils on the Phase Two Property are considered fine/medium textured.

5.4.1 Results of Grain Size Analysis

A summary of the soil samples analyzed and the corresponding grain size results is presented in the table below:

Table 5-3: Summary of Grain Size Analyses

Sample	% Gravel	% Sand	% Silt	% Clay	Classification
BH20-1 SS5	0	15	78	7	Fine/Medium
BH20-1 SS8	8	29	48	15	Fine/Medium
BH20-3 SS5	2	13	72	13	Fine/Medium
BH20-6 SS4	1	18	74	7	Fine/Medium
BH20-8 SS10	25	57	14	4	Coarse
BH20-10 SS4	0	12	81	7	Fine/Medium
BH20-13 SS5	1	9	82	8	Fine/Medium

5.4.1 Rational for the Number of Samples Collected and Analyzed

The grain size analyses were conducted for the purposes of this Phase Two ESA, in addition to a geotechnical investigation which was conducted concurrently. In general, one sample was analyzed per stratigraphic unit encountered in order to characterize the various strata encountered.

5.5 Soil Field Screening

Soil vapour headspace readings were collected at the time of sample collection, the results of which are presented on the borehole logs (Appendix B). The soil vapour headspace readings were collected using a PID and CGD in methane elimination mode. The PID readings ranged between 0 and 1 ppm. The CGD readings ranged between 0 and 100 ppm.

The soil samples were also screened for visual and olfactory indicators of impacts (e.g. staining, odours). No aesthetic impacts (e.g. cinders, slag, hydrocarbon odours) were encountered during this investigation. The organic vapour measurements are considered to be within the standard background range with no indication of potential contamination identified.

5.6 Soil Quality

The results of the chemical analyses conducted are presented in Tables 5 through 15 (enclosed). A visual summary of the location of the sample locations is provided in Figures 6A through 6F. The laboratory certificates of analysis have been provided under Appendix C.

5.6.1 Metals and ORPs

Twenty-eight (28) samples (including 3 QAQC duplicates) were submitted for analysis of metals and hydride forming metals. Seven (7) samples were submitted for analysis of the full metals and inorganics package.

The results of the analyses are tabulated in Tables 5 and 6 (enclosed), and presented on Figure 6A. The results of the analyses indicated the following exceedances of the Table 1 SCS and 2 SCS:

Table 5-3: Summary of Metals and ORPs Exceedances in Soil

Sample ID	Sample Depth (mbgs)	Parameter	Units	Table 1 SCS	Table 2 SCS	Reported Value
D1 S1	0 - 0.1	Arsenic	µg/g	N/A	18	**20**
D5 S1	0 - 0.1	Arsenic	µg/g	18	N/A	**34**
		Lead	µg/g	120	N/A	**150**
D12 S1	0 - 0.1	Arsenic	µg/g	18	N/A	**24**
D14 S1	0 - 0.1	Arsenic	µg/g	18	N/A	**30**
		Lead	µg/g	120	N/A	**150**

D16 S1	0 - 0.1	Arsenic	µg/g	N/A	18	**20**
SDUP7	0 - 0.1	Arsenic	µg/g	N/A	18	**20**
D18 S1	0 - 0.1	Arsenic	µg/g	N/A	18	**21**

5.6.2 Petroleum Hydrocarbons

A total of seventeen (17) samples, including two (2) field duplicates for QA/QC purposes were submitted for analysis of PHCs (incl. BTEX). The results of the analyses are tabulated in Tables 7 and (enclosed), and presented on Figure 6B. The results of the chemical analyses conducted indicated that all samples analyzed met the applicable Site Condition Standards.

5.6.3 Volatile Organic Compounds

A total of seven (7) samples were submitted for analysis of VOCs. The results of the analyses are tabulated in Tables 9 and 10 (enclosed), and presented on Figure 6C. The results of the chemical analyses conducted indicated that all samples analyzed met the applicable Site Condition Standards.

5.6.4 Polycyclic Aromatic Hydrocarbons

A total of ten (10) samples, including one (1) field duplicate for QA/QC purposes were submitted for analysis of PAHs. The results of the analyses are tabulated in Tables 11 and 12 (enclosed), and presented on Figure 6D. The results of the chemical analyses conducted indicated that all samples analyzed met the applicable Site Condition Standards.

5.6.5 OC Pesticides

A total of fifty-four (54) samples, including seven (7) field duplicates for QA/QC purposes were submitted for analysis of OCPs. The results of the analyses are tabulated in Tables 13 and 14 (enclosed), and presented on Figure 6E. The results of the analyses indicated the following exceedances of the Table 1 SCS and 2 SCS:

Table 5-4: Summary of OCPs Exceedances in Soil

Sample ID	Sample Depth (mbgs)	Parameter	Units	Table 1 SCS	Table 2 SCS	Reported Value
D1 S1	0 - 0.1	DDE	µg/g	18	0.33	**0.45**
D5 S1	0 - 0.1		µg/g	0.05	N/A	**0.45**
D8 S1	0 - 0.1		µg/g	0.05	N/A	**0.31**
D10 S1	0 - 0.1		µg/g	0.05	N/A	**0.39**
D12 S1	0 - 0.1		µg/g	0.05	N/A	**0.44**

D18 S1	0 - 0.1		µg/g	N/A	0.33	**0.54**
D14 S1	0 - 0.1		µg/g	0.05	N/A	**0.48**

5.6.6 PCBs

One (1) sample within 30 m of an Area of Natural Significance was submitted for analysis of PCBs. The results of the analyses are tabulated in Table 15 (enclosed), and presented on Figure 6F. The results of the chemical analyses conducted indicated that the sample analyzed met the applicable Site Condition Standards.

5.6.7 Commentary on Soil Quality

No evidence of chemical or biological transformations of the parameters analyzed was observed.

In general, surficial soil impacts associated with historical pesticide use (OCP, lead and arsenic impact) were found to be present across the majority of the existing orchard area located in the south-eastern portion of the Site and extending to Bronte Road in the north. The soil impacts (OCPs, lead and arsenic) were found to extend to a maximum depth of 0.5 mbgs in boreholes D3, D4, and D6 located within the existing orchard area associated with 1300 Bronte Road. Horizontal and vertical delineation of the impacted soil was achieved.

Trace concentrations of OCPs and metals below the applicable MECP Table 2 RPI Standards were noted across the site.

5.7 Ground Water Quality

The results of the chemical analyses conducted are presented in Tables 16 through 24 (enclosed). A visual summary of the location of the sample locations is provided in Figures 7A through 7E. The laboratory certificates of analysis have been provided under Appendix C.

5.7.1 Metals and ORPs

A total of six (6) samples, including two (2) field duplicates for QA/QC purposes were submitted for analysis of metals, including metal hydrides. A total of three (3) samples, including one (1) field duplicates for QA/QC purposes were submitted for analysis of ORPs The results of the analyses are tabulated in Tables 16 and 17, and presented on Figure 7A. The groundwater samples transferred into the metals, mercury, and hexavalent chromium bottles were field filtered using a 0.45-micron in-line filter. The results of the chemical

analyses conducted indicated that all samples analyzed met the applicable Site Condition Standards.

5.7.2 Petroleum Hydrocarbons

A total of three (3) samples were submitted for analysis of PHCs (incl. BTEX). The results of the analyses are tabulated in Tables 18 and 19 (enclosed), and presented on Figure 7B. The results of the chemical analyses conducted indicated that all samples analyzed met the applicable Site Condition Standards.

5.7.3 Volatile Organic Compounds

A total of two (2) samples and a trip blank for QA/QC purposes were submitted for analysis of VOCs. The results of the analyses are tabulated in Tables 20 and 21 (enclosed), and presented on Figure 7C. The results of the chemical analyses conducted indicated that all samples analyzed met the applicable Site Condition Standards.

5.7.4 Polycyclic Aromatic Hydrocarbons

A total of three (3) samples were submitted for analysis of PAHs. The results of the analyses are tabulated in Tables 22 and 23 (enclosed), and presented on Figure 7D. The results of the chemical analyses conducted indicated that all samples analyzed met the applicable Site Condition Standards.

5.7.1 OC Pesticides

A total of two (2) samples were submitted for analysis of OCPs. The results of the analyses are tabulated in Table 24 (enclosed), and presented on Figure 7E. The results of the chemical analyses conducted indicated that all samples analyzed met the applicable Site Condition Standards.

5.7.2 Commentary on Groundwater Quality

All of the groundwater samples analysed met the MECP Table 2 Standards for the parameters of concern as identified in the Phase One ESA. Monitoring wells MW20-8 and MW20-11 remained dry at the time of this investigation, the groundwater quality in the vicinity of these wells is currently unknown and will require assessment.

No evidence of chemical or biological transformations of the parameters analyzed was observed.

5.8 Sediment Quality

Sediment was not identified as a media of potential concern by the Phase One ESA, and was not investigated as a result.

5.9 Quality Assurance and Quality Control Results

Collection of soil and groundwater samples was conducted in general accordance with the MECP *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*. As described in Section 5.12, dedicated equipment was used where possible, and all non-dedicated equipment was decontaminated before and between sampling events. All soil and groundwater samples were transferred directly into laboratory-supplied containers. The laboratory containers were prepared by the laboratory with suitable preservative, as required. All samples were stored and transported under refrigerated conditions. Chain of custody protocols were maintained from the time of sampling to delivery to the analytical laboratory.

The field QA/QC program involved the collection of field duplicate soil and groundwater samples, and the use of a trip blank for each groundwater sampling event (when suitable). In addition to the controls listed above, the analytical laboratory employed method blanks, internal laboratory duplicates, surrogate spike samples, matrix spike samples, and standard reference materials.

A summary of the field duplicate samples analyzed and an interpretation of the efficacy of the QA/QC program is provided in the table below.

Table 5-5: Summary of QA/QC Results

Sample ID	QA/QC duplicate	Medium	Parameter Analyzed	QA/QC Result
MW20-5 SS3	SDUP1	Soil	PHCs	All results were within the analytical protocol criteria for RPD
MW20-5 SS8	SDUP2	Soil	PHCs, PAHs	All results were within the analytical protocol criteria for RPD
BH20-6 SS1	SDUP3	Soil	OCPs	All results were within the analytical protocol criteria for RPD
BH20-7 SS1	SDUP4	Soil	OCPs, Metals	All results were within the analytical protocol criteria for RPD
MW20-10 SS1	SDUP5	Soil	OCPs, Metals	All results were within the analytical protocol criteria for RPD
BH20-9 SS1	SDUP6	Soil	Metals	All results were within the analytical protocol criteria for RPD

Sample ID	QA/QC duplicate	Medium	Parameter Analyzed	QA/QC Result
D16 S1	SDUP7	Soil	Metals	All results were within the analytical protocol criteria for RPD
D26 S1	SDUP8	Soil	OCPs	All results were within the analytical protocol criteria for RPD
D27 S1	SDUP9	Soil	OCPs	All results were within the analytical protocol criteria for RPD
D28 S1	SDUP10	Soil	OCPs	All results were within the analytical protocol criteria for RPD
D29 S1	SDUP11	Soil	OCPs	All results were within the analytical protocol criteria for RPD
MW20-1	DUP1	Groundwater	Metals & ORPs	All results were within the analytical protocol criteria for RPD
MW20-3	DUP2	Groundwater	Metals	All results were within the analytical protocol criteria for RPD

Based on the interpretation of the laboratory results and the QA/QC program, it is the opinion of the QP that the laboratory analytical data can be relied upon.

All samples were handled in accordance with the MECP Analytical Protocol regarding sample holding time, preservation methods, storage requirements, and type of container.

With respect to subsection 47(3) of O.Reg 153/04 (as amended), all certificates of analysis or analytical reports pursuant to clause 47(2) (b) of the regulation comply with subsection 47(3). A certificate of analysis has been received for each sample submitted for analysis and have been provided (in full) in Appendix C.

A review of the QA/QC sample results indicated that no issues were identified with respect to both the field collection methodology and the laboratory reporting. It is the opinion of the QP that the analytical data obtained are representative of the soil and groundwater conditions at the Phase Two Property for the purpose of assessing whether the soil and groundwater at the Phase Property meets the applicable MECP SCS.

6.0 Conclusions

This Phase Two ESA involved that advancement of fourteen (14) boreholes, the installation of eight (8) monitoring wells on the Phase Two Property, and the collection of soil and groundwater samples for analysis of the potential contaminants of concern, including: PHCs, BTEX, Metals, As, Sb, Se, B-HWS, CN-, EC, Cr (VI), Hg, low or high pH, SAR, PAHs.

Based on the results of the information gathered through the course of the investigation, DS presents the following conclusions:

- The results of this Phase Two ESA indicate that the applicable Site Condition Standards for soil have not been met. Soil impacts (DDE, Lead, and Arsenic) relating to historic pesticide use were identified in surface soil in the southeastern portion of the Phase Two Property where an orchard is currently operated. The vertical extent of the soil impacts is considered to be 0.5 mbgs based on the findings to date. The soil impacts appear to be localized within general vicinity of the existing orchard.
- The groundwater quality in the vicinity of MW20-8 and MW20-11 is currently unknown and will require assessment to confirm the groundwater quality in relation to APECs 2 and 3.
- The soil impacts identified may be managed through excavation and off-site disposal followed by confirmatory soil sampling in accordance with the requirements of O.Reg. 153/04 (as amended). The remedial excavation activity will be required before a Record of Site Condition may be filed for the Site (if required).
- All monitoring wells should be decommissioned in accordance with O.Reg. 903 when no longer requiredThe results of this Phase Two ESA indicate that the applicable Site Condition Standards for soil have not been met for soil. Soil impacts (DDE, Lead, and Arsenic) relating to historic pesticide use were identified in surface soil in the southeastern portion of the Phase Two Property where an orchard is currently operated. Vertical delineation of the impacted soils indicated that the impact is contained within 0.5 mbgs. Horizontal delineation of the impacted soil indicates that the impacts are confined to the existing orchard area.
- Trace concentrations of OCPs and metals below the applicable MECP SCS were noted across the site.
- Remediation of the impacted soils via excavation and off-site disposal followed by verification sampling is recommended and may be completed at the time of development of the Site. Disposal premiums may be incurred for the disposal of DDE, lead and arsenic impacted soils.

- Post-remediation verification sampling would be required per O. Reg 153/04 in order to document the remediation activities.
- The results of this Phase Two ESA indicate that the applicable Site Condition Standards for groundwater have been met.
- All monitoring wells should be decommissioned in accordance with O.Reg. 903 when no longer required.

6.1 Qualifications of the Assessors

Mr. Patrick (Rick) Fioravanti, B.Sc., P.Geo., QP_{ESA}

Mr. Fioravanti is the Manager of Environmental Services with DS Consultants Limited. Patrick holds an Honours Bachelor of Science with distinction in Toxicology from the University of Guelph, and is a practicing member of the Association of Professional Geoscientists of Ontario (APGO). Patrick has over seven years of environmental consulting experience and has conducted and/or managed over 100 projects in his professional experience. Patrick has extensive experience conducting Phase One and Phase Two Environmental Site Assessments in support of brownfields redevelopment in urban settings, and been involved in numerous remediation projects, supported many risk assessments, and successfully filed Records of Site Condition with the Ministry of Environment and Climate Change. He has conducted work across southern and eastern Ontario, and Quebec in his professional experience. Patrick is considered a Qualified Person to conduct Environmental Site Assessments as defined by Ontario Regulation 153/04 (as amended).

Kirstin Olsen, MSc.

Ms. Olsen is a Project Manager in the Environmental Services Department at DS Consultants Limited. Ms. Olsen has a Bachelor's Degree in Animal, Plant and Environmental Science, as well as a Master of Science Degree in Environmental Science, Ecology and Conservation from the University of the Witwatersrand (Johannesburg, South Africa). Ms. Olsen has personally completed over three hundred detailed environmental assessments across a wide array of scientific disciplines including: Phase One & Two Environmental Site Assessments, Remedial Excavation & Injection Oversight, Hydrogeological Investigations, EASR Registration/PTTW Application, Aquatic Ecological Delineation, Assessment & Planning, Toxicological, Soil & Water Impact and Risk Assessment, as well as Environmental Construction Monitoring & Performance Auditing.

Sarth Sheth, M.Sc., EIT

Mr. Sheth is an Engineer-in-Training (EIT) with DS Consultants Ltd. Sarth holds a Master Degree in Water Security from the University of Saskatchewan and has several years of experience working in the environmental industry. Sarth has experience in conducting Phase One and Phase Two Environmental Site Assessments, soil and groundwater remediation, and has supported several risk assessment projects.

6.2 Signatures

This Phase Two ESA was conducted under the supervision of Mr. Rick Fioravanti, B.Sc., P.Geo., QP_{ESA} in accordance with the requirements of O.Reg. 153/04 (as amended). The findings and conclusions presented have been determined based on the information obtained at the time of the investigation, and on an assessment of the conditions of the Site at this time.

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

Yours truly,

DS Consultants Ltd

Prepared by:

Sarth Sheth, M.Sc., EIT
Environmental EIT

Reviewed by:

Kirstin Olsen, M.Sc.
Environmental Project Manger

Rick Fioravanti, B.Sc., P.Geo., QP_{ESA}
Manager – Environmental Services

6.3 Limitations

This report was prepared for the sole use of Argo Development Corporation and is intended to provide an assessment of the environmental condition on the property located at 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario. The information presented in this report is based on information collected during the completion of the Phase Two Environmental Site Assessment by DS Consultants Ltd. The material in this report reflects DS' judgment in light of the information available at the time of report preparation. This report may not be relied upon by any other person or entity without the written authorization of DS Consultants Ltd. The scope of services performed in the execution of this investigation may not be appropriate to satisfy the needs of other users, and any use or reuse of this documents or findings, conclusions and recommendations represented herein, is at the sole risk of said users.

The conclusions drawn from the Phase Two ESA were based on information at selected observation and sampling locations. Conditions between and beyond these locations may become apparent during future investigations or on-site work, which could not be detected or anticipated at the time of this investigation. The sampling locations were chosen based upon a cursory historical search, visual observations and limited information provided by persons knowledgeable about past and current activities on this site during the Phase Two ESA activities. As such, DS Consultants Ltd. cannot be held responsible for environmental conditions at the site that was not apparent from the available information.

7.0 References

- Armstrong, D.K. and Dodge, J.E.P. *Paleozoic Geology Map of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release--Data 219.
- Chapman, L.J. and Putnam, D.F. 2007. *The Physiography of Southern Ontario*. Ontario Geological Survey, Miscellaneous Release--Data 228.
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- Ontario Ministry of the Environment, December 1996. *Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario.*
- Ontario Ministry of Environment, 15 April 2011. *Soil, Ground Water and Sediment Standards for use under part XV.1of the Environmental Protection Act.*
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- Ontario Ministry of the Environment, July 2011. *Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.*
- The Ontario Geological Survey. 2003. *Surficial Geology of Southern Ontario*.
- "*Phase One Environmental Site Assessment, 1300, 1316, 1326 and 1342 Bronte Road Oakville, Ontario*", dated September 24, 2020, prepared for Argo Development, prepared by DS Consultants Ltd.
- *"Geotechnical Slope Stability and Streambank Erosion Analysis, 1300 Bronte Road, Oakville, Ontario",* prepared for Mr. Victor Enns & Ms. Joyce Enns, prepared by Terraprobe Inc., dated May 19, 2016
- *"Phase One Environmental Site Assessment, 1300 – 1342 Bronte Road, Oakville, Ontario", prepared* for Mr. Victor Enns, prepared by Soil-Mat Engineers & Consultants Ltd., dated December 11, 2018
- *"Environmental Soil testing, 1300 – 1342 Bronte Road, Oakville, Ontario"*, prepared for Mr. Victor Enns, prepared by Soil-Mat Engineers & Consultants Ltd., dated July 21, 2020.

Figures

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 1 - Site Location Plan.qgs Sep-25 22:52

Legend

Approx Property Boundary

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1300, 1316, 1326, 1346 Bronte Road, Oakville, ON

Title: **SITE LOCATION PLAN**

N

Client: ARGO DEVELOPMENT

Size: 8.5 x 11	Approved By: K.O	Drawn By: S.Y	Date: September 2020
Rev: 0	Scale: As Shown	Project No.: 20-186-100	Figure No.: 1
	Image/Map Source: *Google Street Map*		

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 2 – Phase Two Property Site Plan.qgs Sep-25 22:53

Legend

- Approx Property Boundary
- Approx Berm Location
- Fuel Oil AST
- Diesil AST

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Title: **PHASE TWO PROPERTY SITE PLAN**

N

Client: ARGO DEVELOPMENT

Size: 8.5 x 11	Approved By: K.O	Drawn By: S.Y	Date: September 2020
Rev: 0	Scale: As Shown	Project No.: 20-186-100	Figure No.: **2**

Image/Map Source: *Google Satellite Image*

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase One\Figure 2A - Phase One Property Site Plan.qgs Sep-23 23:08

Legend

- Approx Property Boundary
- Soil Berm
- Fuel AST
- Diesil AST

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1300, 1316, 1326, and 1342 Bronte Road, Oakville, ON

Title: **PHASE TWO PROPERTY SITE PLAN**

N

Client: ARGO DEVELOPMENT

Size: 8.5 x 11	Approved By: K.O	Drawn By: S.Y	Date: September 2020
Rev: 0	Scale: As Shown	Project No.: 20-186-100	Figure No.: **2A**

Image/Map Source: *Google Satellite Image*

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 2B - Historic Soil Exceedances for OCPs, Pb and As.qgs Sep-25 23:49

S9	
Sample ID:	S9
Sample Depth (mbgs):	0 - 0.1
DDE	0.22
Met SCS (excl. above)	OCPs, As, Pb

S7	
Sample ID:	S7
Sample Depth (mbgs):	0 - 0.1
DDE	0.081
Met SCS (excl. above)	OCPs, As, Pb

S8	
Sample ID:	S8
Sample Depth (mbgs):	0 - 0.1
DDE	0.069
Met SCS (excl. above)	OCPs, As, Pb

S2	
Sample ID:	S2
Sample Depth (mbgs):	0 - 0.1
DDE	0.12
Met SCS	OCPs, As, Pb

S3	
Sample ID:	S3
Sample Depth (mbgs):	0 - 0.1
DDE	0.85
Arsenic	33
Lead	156
Met SCS (excl. above)	OCPs, As, Pb

S4	
Sample ID:	S4
Sample Depth (mbgs):	0 - 0.1
DDE	0.84
Arsenic	31
Lead	163
Met SCS (excl. above)	OCPs, As, Pb

S5	
Sample ID:	S5
Sample Depth (mbgs):	0.2 - 0.3
DDE	1
Arsenic	0.052
Lead	38
Met SCS (excl. above)	OCPs, As, Pb

S6	
Sample ID:	S6
Sample Depth (mbgs):	0 - 0.1
DDE	0.44
Arsenic	31
Lead	149
Met SCS (excl. above)	OCPs, As, Pb

Parameter	Table 2 SCS
Arsenic	18
Lead	120
DDE	0.26

Legend

- Approx Property Boundary
- Borehole (Soil-Mat 2020)
- Sample Met Applicable Standards
- Sample Exceeds Applicable Standards

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1300, 1316, 1326, and 1342 Bronte Road, Oakville, ON

Title: **HISTORIC SOIL EXCEEDANCES FOR OCPs, Pb & As**

N

Size: 8.5 x 11	Approved By: K.O	Drawn By: S.Y	Date: September 2020
Rev: 0	Scale: As Shown	Project No.: 20-186-100	Figure No.: **2B**

Image/Map Source: *Google Satellite Image*

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 3 - Phase One Study Area.qgs Sep-25 22:54

Legend

- Approx Property Boundary
- 250m Buffer
- Residential
- Institutional
- Parkland/Open Space

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1300, 1316, 1326, 1346 Bronte Road, Oakville, ON

Title: **PHASE ONE STUDY AREA**

N

Client: ARGO DEVELOPMENT

Size: 8.5 x 11	Approved By: K.O	Drawn By: S.Y	Date: September 2020
Rev: 0	Scale: As Shown	Project No.: 20-186-100	Figure No.: 3

Image/Map Source: *Google Satellite Image*

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 4 - PCA within Phase One Study Area.qgs Sep-25 22:56

Legend

- Approx Property Boundary
- 250m Buffer
- Registered Water Well (MECP WWR)
- PCA not contributing to APEC
- PCA contributing to APEC
- Inferred Groundwater Flow Direction
- Fuel Oil AST
- Diesil AST

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Title: **PCA WITHIN PHASE ONE STUDY AREA**

N

Client: ARGO DEVELOPMENT

Size: 8.5 x 11	Approved By: K.O	Drawn By: S.Y	Date: September 2020
Rev: 0	Scale: As Shown	Project No.: 20-186-100	Figure No.: 4

Image/Map Source: *Esri Topo Map*

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Well
- Soil Sample
- Surficial Sample
- APEC 1 & 6b
- APEC 2
- APEC 3
- APEC 4
- APEC 5
- APEC 6a
- APEC 7
- APEC 8
- APEC 9
- Fuel Oil AST
- Diesil AST

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1300, 1316, 1326, 1346 Bronte Road, Oakville, ON

Title: **BOREHOLE LOCATION PLAN WITH APECs**

N

Client: ARGO DEVELOPMENT

Size:	Approved By: K.O	Drawn By: S.Y	Date: September 2020
11x17	Scale: As Shown	Project No.: 20-186-100	Figure No.: **5**
Rev. 0	Image/Map Source: *Google Satellite Image*		

C:\0Sharon\20-186-100 1326 Bronte Road1-QGIS\Phase Two\Figure 5 – Borehole Location Plan with APECs.qgs Sep-25 22:57

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Wells
- Soil Samples
- Surficial Samples
- AST
- APEC 1 & 6b
- APEC 10
- APEC 2
- APEC 3
- APEC 4
- APEC 5
- APEC 6a
- APEC 7
- APEC 8
- APEC 9

scrap APEC 8
APEC 9 becomes 8
APEC 10 becomes 9

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1326 Bronte Road, Oakville, ON

Title: **BOREHOLE LOCATION PLAN WITH APECs**

N

Client: ARGO DEVELOPMENT

Size:	Approved By: K.O	Drawn By: S.Y	Date: September 2020
11x17	Scale: As Shown	Project No.: 20-186-100	Figure No.: **5**
Rev. 0	Image/Map Source: *Google Satellite Image*		

C:\0Sharon\20-186-100 1326 Bronte Road1-QGIS\Phase Two\Figure 5 – Borehole Location Plan with APECs.qgs Sep-21 10:10

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Well
- Soil Sample
- Surficial Sample
- Groundwater Flow Direction
- Groundwater Elevation Contour

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
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Title: **GROUNDWATER ELEVATION CONTOURS AND FLOW DIRECTION**

N

Client: ARGO DEVELOPMENT

Size: 11x17	Approved By: K.O	Drawn By: S.Y	Date: September 2020
Rev. 0	Scale: As Shown	Project No.: 20-186-100	Figure No.: **6A**
	Image/Map Source: *Google Satellite Image*		

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 6A – Groundwater Elevation Contours and Flow.qgs Sep-25 22:59

Legend

- Approx Property Boundary
- 30m Buffer
- Borehole
- Monitoring Well
- Soil Sample
- Surficial Sample
- MECP Table 1 SCS
- MECP Table 2 SCS

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1300, 1316, 1326, 1346 Bronte Road, Oakville, ON

Title: **SITE CONDITION STANDARDS MAP**

N

Client: ARGO DEVELOPMENT CORPORATION

Size:	Approved By: K.O	Drawn By: S.Y	Date: September 2020
11x17	Scale: As Shown	Project No.: 20-186-100	Figure No.: **6B**
Rev. 0	Image/Map Source: *Google Satellite Image*		

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 6B - Standard Conditions Map.qgs Sep-25 23:03

BH20-11	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
Arsenic	4.3
Lead	33
Metals & ORPs (excl. above)	Met T2 SCS

BH20-8	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
Arsenic	6.3
Lead	36
Metals & ORPs (excl. above)	Met T2 SCS

BH20-6	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
Arsenic	8.3
Lead	39
Metals & ORPs (excl. above)	Met T2 SCS

BH20-9		
Sample ID:	SS1	SDUP6
Sample Depth (mbgs):	0-0.6	
Arsenic	3.5	3.8
Lead	13	14
Metals & ORPs (excl. above)	Met T2 SCS	

BH20-5	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
Arsenic	6.1
Lead	26
Metals & ORPs (excl. above)	Met T2 SCS

D1	
Sample ID:	S1
Sample Depth (mbgs):	0-0.1
Arsenic	20
Lead	120
Metals & ORPs (excl. above)	Met T2 SCS

BH20-12	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
Arsenic	4.7
Lead	18
Metals & ORPs (excl. above)	Met T2 SCS

BH20-3	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
Arsenic	14
Lead	55
Metals & ORPs (excl. above)	Met T2 SCS

D5	
Sample ID:	S1
Sample Depth (mbgs):	0-0.1
Arsenic	34
Lead	150
Metals & ORPs (excl. above)	Met T1 SCS

BH20-10		
Sample ID:	SS1	SDUP5
Sample Depth (mbgs):	0-0.6	
Arsenic	6.4	7.8
Lead	24	35
Metals & ORPs (excl. above)	Met T2 SCS	

SB2	
Sample ID:	S1
Sample Depth (mbgs):	0-0.1
Arsenic	4.7
Lead	24
Metals & ORPs (excl. above)	Met T2 SCS

SB1	
Sample ID:	S1
Sample Depth (mbgs):	0-0.1
Arsenic	4.6
Lead	26
Metals & ORPs (excl. above)	Met T2 SCS

D18	
Sample ID:	S1
Sample Depth (mbgs):	0-0.1
Arsenic	21
Lead	110
Metals & ORPs (excl. above)	Met T2 SCS

D3	
Sample ID:	S3
Sample Depth (mbgs):	0.3-0.5
Arsenic	7.2
Lead	24
Metals & ORPs (excl. above)	Met T2 SCS

SB3	
Sample ID:	S1
Sample Depth (mbgs):	0-0.1
Arsenic	6.6
Lead	24
Metals & ORPs (excl. above)	Met T2 SCS

BH20-13	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
Arsenic	5.4
Lead	22
Metals & ORPs (excl. above)	Met T2 SCS

D4	
Sample ID:	S3
Sample Depth (mbgs):	0.3-0.5
Arsenic	18
Lead	64
Metals & ORPs (excl. above)	Met T2 SCS

D8	
Sample ID:	S1
Sample Depth (mbgs):	0-0.1
Arsenic	9.3
Lead	50
Metals & ORPs (excl. above)	Met T1 SCS

BH20-14	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
Arsenic	5.9
Lead	32
Metals & ORPs (excl. above)	Met T1 SCS

BH20-4	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
Arsenic	14
Lead	74
Metals & ORPs (excl. above)	Met T2 SCS

D10	
Sample ID:	S1
Sample Depth (mbgs):	0-0.1
Arsenic	13
Lead	62
Metals & ORPs (excl. above)	Met T1 SCS

D12	
Sample ID:	S1
Sample Depth (mbgs):	0-0.1
Arsenic	24
Lead	120
Metals & ORPs (excl. above)	Met T1 SCS

D16		
Sample ID:	S1	SDUP7
Sample Depth (mbgs):	0-0.1	
Arsenic	20	20
Lead	89	88
Metals & ORPs (excl. above)	Met T2 SCS	

BH20-7		
Sample ID:	SS1	SDUP4
Sample Depth (mbgs):	0-0.6	
Arsenic	7.6	8.7
Lead	30	37
Metals & ORPs (excl. above)	Met T2 SCS	

D13	
Sample ID:	S1
Sample Depth (mbgs):	0-0.1
Arsenic	4
Lead	19
Metals & ORPs (excl. above)	Met T1 SCS

D6	
Sample ID:	S3
Sample Depth (mbgs):	0.3-0.5
Arsenic	7.3
Lead	23
Metals & ORPs (excl. above)	Met T2 SCS

SB4	
Sample ID:	S1
Sample Depth (mbgs):	0-0.1
Arsenic	5.8
Lead	23
Metals & ORPs (excl. above)	Met T2 SCS

BH20-1	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
Arsenic	2.1
Lead	11
Metals & ORPs (excl. above)	Met T2 SCS

D14	
Sample ID:	S1
Sample Depth (mbgs):	0-0.1
Arsenic	30
Lead	150
Metals & ORPs (excl. above)	Met T1 SCS

BH20-2	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
Arsenic	5
Lead	16
Metals & ORPs (excl. above)	Met T2 SCS

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Wells
- Soil Sample
- Surficial Sample
- Sample Met Applicable Standards
- Sample Exceeds Applicable Standards

Parameter	Table 1 SCS	Table 2 SCS
Arsenic	18	18
Lead	120	120

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1300, 1316, 1326, 1346 Bronte Road, Oakville, ON

Title: **SOIL CHARACTERIZATION – METALS AND ORPs**

Client: ARGO DEVELOPMENT

Size:	Approved By: K.O	Drawn By: S.Y	Date: September 2020
11x17	Scale: As Shown	Project No.: 20-186-100	Figure No.: 7A
Rev. 0	Image/Map Source: *Google Satellite Image*		

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 7A – Soil Characterization – Metals and ORPs.qgs Sep-25 23:07

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Wells
- Soil Sample
- Surficial Sample
- Sample Met Applicable Standards
- () Sample Depth

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Project: PHASE TWO ENVIRONMENTAL SITE ASSESSMENT
1300, 1316, 1326, 1346 Bronte Road, Oakville, ON

Title: **SOIL CHARACTERIZATION – PHCs**

N

Client: ARGO DEVELOPMENT

Size:	Approved By:	K.O	Drawn By:	S.Y	Date:	September 2020
11x17	Scale:	As Shown	Project No.:	20-186-100	Figure No.:	**7B**
Rev. 0	Image/Map Source: *Google Satellite Image*					

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 7B – Soil Characterization – PHCs.qgs Sep-25 23:10

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Wells
- Soil Samples
- Surficial Samples
- Sample Met Applicable Standards

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Title: **SOIL CHARACTERIZATION – VOCs**

N

Client: ARGO DEVELOPMENT

Size:	Approved By:	K.O	Drawn By:	S.Y	Date:	September 2020
11x17	Scale:	As Shown	Project No.:	20-186-100	Figure No.:	**7C**
Rev. 0	Image/Map Source: *Google Satellite Image*					

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 7C – Soil Characterization – VOCs.qgs Sep-25 23:18

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Well
- Soil Sample
- Surficial Sample
- Sample Met Applicable Standards
- () Sample Depth (metres below ground surface)

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Title: **SOIL CHARACTERIZATION – PAHs**

N

Client: ARGO DEVELOPMENT

Size:	Approved By: K.O	Drawn By: S.Y	Date: September 2020
11x17	Scale: As Shown	Project No.: 20-186-100	Figure No.: **7D**
Rev. 0	Image/Map Source: *Google Satellite Image*		

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 7D – Soil Characterization – PAHs.qgs Sep-25 23:16

BH20-9	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

BH20-11	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

BH20-8	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

D17	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

D23	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	0.06
OCPs (excl. above)	Met T2 SCS

BH20-6		
Sample ID:	SS1	SDUP3
Sample Depth (mbgs):	0-0.6	
DDE	<0.05	<0.05
OCPs (excl. above)	Met T2 SCS	

D2	
Sample ID:	S3
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

BH20-5		
Sample ID:	SS1	SS2
Sample Depth (mbgs):	0-0.6	0.8-1.4
DDE	0.09	<0.05
OCPs (excl. above)	Met T2 SCS	

D1	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	0.45
OCPs (excl. above)	Met T1 SCS

D9	
Sample ID:	S3
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

BH20-12	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

BH20-3		
Sample ID:	SS1	SS2
Sample Depth (mbgs):	0-0.6	0.8-1.4
DDE	0.21	<0.05
OCPs (excl. above)	Met T2 SCS	

D5	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	0.45
OCPs (excl. above)	Met T1 SCS

D22	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

D11	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

D19	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

D18	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	0.54
OCPs (excl. above)	Met T2 SCS

BH20-10		
Sample ID:	SS1	SDUP5
Sample Depth (mbgs):	0-0.6	
DDE	<0.05	<0.05
OCPs (excl. above)	Met T2 SCS	

D3	
Sample ID:	S3
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

D20	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	0.14
OCPs (excl. above)	Met T2 SCS

D24	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T1 SCS

D4	
Sample ID:	S3
Sample Depth (mbgs):	0.3-0.5
DDE	0.17
OCPs (excl. above)	Met T2 SCS

D8	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	0.31
OCPs (excl. above)	Met T1 SCS

D21	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

BH20-13	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

D10	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	0.39
OCPs (excl. above)	Met T1 SCS

D7	
Sample ID:	S3
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

D15	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	0.1
OCPs (excl. above)	Met T2 SCS

D12	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	0.44
OCPs (excl. above)	Met T1 SCS

BH20-4		
Sample ID:	SS1	SS2
Sample Depth (mbgs):	0-0.6	0.8-1.4
DDE	0.28	<0.05
OCPs (excl. above)	Met T2 SCS	

D13	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T1 SCS

D16	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	0.31
OCPs (excl. above)	Met T2 SCS

D6	
Sample ID:	S3
Sample Depth (mbgs):	0.3-0.5
DDE	0.06
OCPs (excl. above)	Met T2 SCS

D26		
Sample ID:	S1	SDUP8
Sample Depth (mbgs):	0.3-0.5	
DDE	<0.05	<0.05
OCPs (excl. above)	Met T1 SCS	

D14	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	0.48
OCPs (excl. above)	Met T1 SCS

D27		
Sample ID:	S1	SDUP9
Sample Depth (mbgs):	0.3-0.5	
DDE	<0.05	<0.05
OCPs (excl. above)	Met T1 SCS	

BH20-2	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

BH20-7		
Sample ID:	SS1	SDUP4
Sample Depth (mbgs):	0-0.6	
DDE	<0.05	<0.05
OCPs (excl. above)	Met T2 SCS	

BH20-14	
Sample ID:	SS1
Sample Depth (mbgs):	0-0.6
DDE	<0.05
OCPs (excl. above)	Met T1 SCS

D25	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

D28		
Sample ID:	S1	SDUP10
Sample Depth (mbgs):	0.3-0.5	
DDE	<0.05	<0.05
OCPs (excl. above)	Met T1 SCS	

D30	
Sample ID:	S1
Sample Depth (mbgs):	0.3-0.5
DDE	<0.05
OCPs (excl. above)	Met T2 SCS

D29		
Sample ID:	S1	SDUP11
Sample Depth (mbgs):	0.3-0.5	
DDE	<0.05	<0.05
OCPs (excl. above)	Met T2 SCS	

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Well
- Soil Sample
- Surficial Sample
- Sample Met Applicable Standards
- Sample Exceeds Applicable Standards

Parameter	Table 1 SCS	Table 2 SCS
DDE	0.05	0.33

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Title: **SOIL CHARACTERIZATION – OCPs**

Client: ARGO DEVELOPMENT

Size:	Approved By: K.O	Drawn By: S.Y	Date: September 2020
11x17	Scale: As Shown	Project No.: 20-186-100	Figure No.: **7E**
Rev. 0	Image/Map Source: *Google Satellite Image*		

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 7E – Soil Characterization – OCPs.qgs Sep-25 23:21

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Wells
- Soil Samples
- Surficial Samples
- Sample Met Applicable Standards

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Title: **SOIL CHARACTERIZATION – PCBs**

N

Client: ARGO DEVELOPMENT

Size:	Approved By:	K.O	Drawn By:	S.Y	Date:	September 2020
11x17	Scale:	As Shown	Project No.:	20-186-100	Figure No.:	**7F**
Rev. 0	Image/Map Source: *Google Satellite Image*					

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 7F – Soil Characterization – PCBs.qgs Sep-25 23:24

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Well
- Soil Sample
- Surficial Sample
- Sample Met Applicable Standards

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Title: **GROUNDWATER CHARACTERIZATION – METALS**

N

Client: ARGO DEVELOPMENT

Size:	Approved By:	K.O	Drawn By:	S.Y	Date:	September 2020
11x17	Scale:	As Shown	Project No.:	20-186-100	Figure No.:	**8A**
Rev. 0	Image/Map Source: *Google Satellite Image*					

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 8A – Groundwater Characterization – Metals.qgs Sep-25 23:26

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Well
- Soil Sample
- Surficial Sample
- Sample Met Applicable Standards

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Title: **GROUNDWATER CHARACTERIZATION – PHCs**

N

Client: ARGO DEVELOPMENT

Size:	Approved By:	K.O	Drawn By:	S.Y	Date:	September 2020
11x17	Scale:	As Shown	Project No.:	20-186-100	Figure No.:	**8B**
Rev. 0	Image/Map Source: *Google Satellite Image*					

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 8B – Groundwater Characterization – PHCs.qgs Sep-25 23:30

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Well
- Soil Sample
- Surficial Sample
- Sample Met Applicable Standards

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Title: **GROUNDWATER CHARACTERIZATION – VOCs**

N

Client: ARGO DEVELOPMENT

Size:	Approved By:	K.O	Drawn By:	S.Y	Date:	September 2020
11x17	Scale:	As Shown	Project No.:	20-186-100	Figure No.:	**8C**
Rev. 0	Image/Map Source: *Google Satellite Image*					

C:\0Sharon\20-186-100 1326 Bronte Road\1-QGIS\Phase Two\Figure 8C – Groundwater Characterization – VOCs.qgs Sep-25 23:34

Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Well
- Soil Sample
- Surficial Sample
- Sample Met Applicable Standards

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Title: **GROUNDWATER CHARACTERIZATION – PAHs**

N

Client: ARGO DEVELOPMENT

Size:	Approved By: K.O	Drawn By: S.Y	Date: September 2020
11x17	Scale: As Shown	Project No.: 20-186-100	Figure No.: **8D**
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Legend

- Approx Property Boundary
- Borehole
- Monitoring Well
- TerraProbe Well
- Soil Sample
- Surficial Sample
- Sample Met Applicable Standards

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Title: **GROUNDWATER CHARACTERIZATION – OCPs**

N

Client: ARGO DEVELOPMENT

Size:	Approved By:	K.O	Drawn By:	S.Y	Date:	September 2020
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Tables

Table 1: Summary of Monitoring Well Installation and Groundwater Data

Well ID			MW20-1	MW20-2	MW20-3	MW20-5	MW20-8	MW20-10	MW20-11	MW20-13
Installed By:			DS	DS	DS	DS	DS	DS	DS	DS
Installation Date:			13-Aug-20	13-Aug-20	13-Aug-20	14-Aug-20	12-Aug-20	12-Aug-20	18-Aug-20	13-Aug-20
Well Status:			Active	Active	Active	Active	Active	Active	Active	Active
Inner Diameter		mm	50	50	50	50	50	50	50	50
Surface Elevation		masl	129.00	131.92	130.22	129.92	129.86	130.41	129.73	130.98
Bottom of Concrete Seal/Top of Bentonite Seal		mbgs	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
		masl	128.70	131.62	129.92	129.62	129.56	130.11	129.43	130.68
Bottom of Bentonite Seal/Top of Sand Pack		mbgs	0.90	1.22	0.90	0.90	2.45	0.60	0.90	0.90
		masl	128.10	130.70	129.32	129.02	127.41	129.81	128.83	130.08
Top of Well Screen		mbgs	1.50	1.80	1.20	1.52	3.00	1.20	1.50	1.50
		masl	127.50	130.12	129.02	128.40	126.86	129.21	128.23	129.48
Well Screen Length		m	3.10	3.10	3.10	2.75	3.10	3.10	3.10	3.10
Bottom of Well Screen		mbgs	4.60	4.90	4.30	4.27	6.10	4.30	4.60	4.60
		masl	124.40	127.02	125.92	125.65	123.76	126.11	125.13	126.08
GW Monitoring										
19-Aug-20	Depth to GW	mbgs	1.97	3.07	2.71	1.63	dry	1.24	dry	-
	GW Elevation	masl	127.03	128.85	127.51	128.29	dry	129.17	dry	-

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 2: Summary of Soil Samples Submitted for Chemical Analysis

Borehole ID	Sample No.	Sample Depth (mbgs)	Soil Description	Parameter Analyzed	APEC Investigated
SB1	S1	0.1	-	M&I, PAHs, PHCs, VOCs	APEC-5
SB2	S1	0.1	-	M&I, PAHs	APEC-5
SB3	S1	0.1	-	M&I, PAHs, PHCs, VOCs	APEC-5
SB4	S1	0.1	-	M&I, PAHs	APEC-5
D1	S1	0.1	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC- 6a, 7a, 7b, 7c
D2	S3	0.5	Topsoil/Silty Sand	OCPs	APEC-6a
D3	S3	0.5	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC- 6a, 7a, 7b, 7c
D4	S3	0.5	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC- 6a, 7a, 7b, 7c
D5	S1	0.1	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC- 6a, 7a, 7b, 7c
D6	S3	0.5	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC- 6a, 7a, 7b, 7c
D7	S3	0.5	Topsoil/Silty Sand	OCPs	APEC-6a
D8	S1	0.1	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC- 6a, 7a, 7b, 7c
D9	S3	0.5	Topsoil/Silty Sand	OCPs	APEC-6a
D10	S1	0.1	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC- 6a, 7a, 7b, 7c
D11	S1	0.1	Topsoil/Silty Sand	OCPs	APEC-6a
D12	S1	0.1	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC- 6a, 7a, 7b, 7c
D13	S1	0.1	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC- 6a, 7a, 7b, 7c
D14	S1	0.1	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC- 6a, 7a, 7b, 7c
D15	S1	0.1	Topsoil/Silty Sand	OCPs	APEC-6a
D16	S1	0.1	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC-6a
SDUP7	-	0.1	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC-6a
D17	S1	0.1	Topsoil/Silty Sand	OCPs	APEC-6a
D18	S1	0.1	Topsoil/Silty Sand	Metals, Hydride Forming Metals, OCPs	APEC- 6a, 7a, 7b, 7c
D19	S1	0.1	Topsoil/Silty Sand	OCPs	APEC-6a
D20	S1	0.1	Topsoil/Sand	OCPs	APEC-6a
D21	S1	0.1	Topsoil/Sand	OCPs	APEC-6a
D22	S1	0.1	Topsoil/Silty Sand	OCPs	APEC-6a
D23	S1	0.1	Topsoil/Silty Sand	OCPs	APEC-6a

Table 2: Summary of Soil Samples Submitted for Chemical Analysis

Borehole ID	Sample No.	Sample Depth (mbgs)	Soil Description	Parameter Analyzed	APEC Investigated
D24	S1	0.1	Topsoil/Sand	OCPs	APEC-6a
D25	S1	0.1	Topsoil/Sand	OCPs	APEC-6a
D26	S1	0.1	Topsoil/Sand	OCPs	APEC-6a
SDUP8	-	0.1	Topsoil/Sand	OCPs	APEC-6a
D27	S1	0.1	Topsoil/Silty Sand	OCPs	APEC-6a
SDUP9	-	0.1	Topsoil/Silty Sand	OCPs	APEC-6a
D28	S1	0.1	Topsoil/Silty Sand	OCPs	APEC-6a
SDUP10	-	0.1	Topsoil/Silty Sand	OCPs	APEC-6a
D29	S1	0.1	Topsoil/Silty Sand	OCPs	APEC-1, 6a, 6b
SDUP11	-	0.1	Topsoil/Silty Sand	OCPs	APEC-6a
D30	S1	0.1	Topsoil/Silty Sand	OCPs	APEC-6a
TR1	S1	0.1	Topsoil/Silty Sand	PHCs	APEC- 9
				PCBs	Soil Characterization
BH/MW20-1	SS1	0.0-0.6	Topsoil/Silty Sand	M&I	APEC-6a
	SS3	1.5-2.1	Silty Sand	PAHs, PHCs	APEC-8
	SS4	2.3-2.9	Sandy Silt	VOCs	APEC-8
BH/MW20-2	SS1	0.0-0.6	Topsoil/Sand and Gravel	M&I, OCPs	APEC, 6a, 6b
	SS3	1.5-2.1	Silty Sand	PAHs, PHCs	APEC-1
	SS7	6.1-6.7	Clay Till	VOCs	APEC-1
BH/MW20-3	SS1	0.0-0.6	Topsoil/Silty Sand	M&I, OCPs	APEC-6a
BH20-4	SS1	0.0-0.6	Topsoil/Silty Sand	M&I, OCPs	APEC-6a
BH/MW20-5	SS1	0.0-0.6	Topsoil/Silty Sand	M&I, OCPs	APEC-6a
	SS3	1.5-2.1	Sand and Gravel	PHCs	APEC-4, 6a
SDUP1	-			PHCs	APEC-4, 6a
BH/MW20-5	SS8	5.3-5.9	Sandy Silt Till	PAHs, PHCs	APEC-4, 6a
SDUP2	-			PAHs, PHCs	APEC-4, 6a
BH20-6	SS1	0.0-0.6	Topsoil/Silty Sand	M&I, OCPs, PHCs, VOCs	APEC-6a
SDUP3	-			OCPs	APEC-6a
BH20-7	SS1	0.0-0.6	Topsoil/Silty Sand	M&I, OCPs	APEC-6a
SDUP4	-			M&I, OCPs	APEC-6a
BH/MW20-8	SS1	0.0-0.6	Fill: Sand	M&I, OCPs	APEC-6a
	SS6	3.8-4.4	Silty Clay	PHCs	APEC-2, 6a
	SS8	5.3-5.9	Silty Sand	PAHs, PHCs	APEC-2, 6a
BH20-9	SS1	0.0-0.6	Topsoil/Silty Sand	M&I, OCPs	APEC-6a
SDUP6	-			M&I	APEC-6a
BH/MW20-10	SS1	0.0-0.6	Topsoil/Sand	M&I, OCPs	APEC-6a
SDUP5	-			M&I, OCPs	APEC-6a
BH/MW20-11	SS1	0.0-0.6	Topsoil/Silty Sand	M&I, PAHs, OCPs	APEC-6a
	SS5	3.1-3.7	Silty Clay Till	PHCs	APEC-3, 6a
BH20-12	SS1	0.0-0.6	Topsoil/Silty Sand	M&I, OCPs	APEC-6a
	SS5	3.1-3.7	Silty Clay Till	PHCs, VOCs	APEC-6a
BH/MW20-13	SS1	0.0-0.6	Topsoil/Sand	M&I, OCPs	APEC-6a
	SS9	6.1-6.7	Sandy Silt Till	PHCs, VOCs	APEC-6a
BH20-14	SS1	0.0-0.6	Topsoil/Silty Sand	M&I, OCPs	APEC-6a

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 3: Summary of Groundwater Samples Submitted for Chemical Analysis

Well ID	Well Screen Interval (masl)			Sample Date	Parameter Analyzed	APEC Investigated
MW20-1	124.40	-	127.50	14-Aug-20	M&I, PAHs, PHCs, VOCs	APEC-8
DUP-1					M&I	
MW20-2	127.02	-	130.12	14-Aug-20	M&I, PAHs, PHCs, VOCs	APEC-1
MW20-3	125.92	-	129.02	14-Aug-20	M&I, OCPs	Delineation
DUP-2					M&I	
MW20-5	125.65	-	128.40	14-Aug-20	PAHs, PHCs	APEC-4
MW20-10	126.11	-	129.21	14-Aug-20	M&I, OCPs	Delineation

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section

Table 4: Summary of APECs Investigated

APEC	Description	PCOCs	Media	Boreholes Within APEC	Samples Analysed	Parameter Analyzed
APEC-1	One (1) heating fuel AST was observed in the basement of 1300 Bronte Road.	PHCs, PAHs, BTEX	Soil	BH/MW20-2	SS3	PHCs, BTEX
					SS7	VOCs
			Groundwater	MW20-2	-	PHCs, VOCs
APEC-2	One (1) heating fuel AST was observed in the basement of 1326 Bronte Road.	PHCs, PAHs, BTEX	Soil	BH/MW20-8	SS8	PHC, BTEX
APEC-3	One (1) heating fuel AST was observed in the basement of 1342 Bronte Road.	PHCs, PAHs, BTEX	Soil	BH/MW20-11	SS5	PHC, BTEX
APEC-4	One (1) heating fuel AST was observed on the exterior ground adjacent to the eastern wall of the dwellings at 1316 Bronte Road.	PHCs, PAHs, BTEX	Soil	BH/MW20-5	SS3	PHC, BTEX
			Groundwater	MW20-5	-	PHC, BTEX
APEC-5	The berm built east of the man-made pond at 1300 Bronte Road was comprised of fill material of soil material generated from the road widening of Bronte Road.	M&I, PAHs, PHCs, VOCs	Soil	SB1	S1	M&I, PAHs, PHCs, VOCs
				SB2	S1	M&I, PAHs, PHCs, VOCs
				SB3	S1	M&I, PAHs, PHCs, VOCs
APEC-6a	The Property formally contained an orchard with inferred pesticide used.	Metals, As, Sb, Se, CN-, OCPs	Soil	SB1	S1	M&I, PAHs, PHCs, VOCs
				SB2	S1	M&I, PAHs
				SB3	S1	M&I, PAHs, PHCs, VOCs
				D1	S1	Metals, Hydride Forming Metals, OCPs
				D2	S3	OCPs
				D3	S3	Metals, Hydride Forming Metals, OCPs
				D4	S3	Metals, Hydride Forming Metals, OCPs
				D5	S1	Metals, Hydride Forming Metals, OCPs
				D7	S3	OCPs
				D8	S1	Metals, Hydride Forming Metals, OCPs
				D9	S3	OCPs
				D10	S1	Metals, Hydride Forming Metals, OCPs
				D11	S1	OCPs
				D12	S1	Metals, Hydride Forming Metals, OCPs
				D13	S1	Metals, Hydride Forming Metals, OCPs

Table 4: Summary of APECs Investigated

APEC	Description	PCOCs	Media	Boreholes Within APEC	Samples Analysed	Parameter Analyzed
				D14	S1	Metals, Hydride Forming Metals, OCPs
				D15	S1	OCPs
				D16	S1	Metals, Hydride Forming Metals, OCPs
				SDUP7	-	Metals, Hydride Forming Metals
				D17	S1	OCPs
				D18	S1	Metals, Hydride Forming Metals, OCPs
				D19	S1	OCPs
				D20	S1	OCPs
				D21	S1	OCPs
				D22	S1	OCPs
APEC-6a (continued)	The Property formally contained an orchard with inferred pesticide used.	Metals, As, Sb, Se, CN-, OCPs	Soil	D23	S1	OCPs
APEC-6b	The grading material surrounding the dwelling at 1300 Bronte Road is inferred to contained pesticides from excess material coming from excavations of the same at 1300 Bronte Road.	Metals, As, Sb, Se, CN-, OCPs	Soil	D24	S1	OCPs
				D25	S1	OCPs
				D26	S1	OCPs
				SDUP8	-	OCPs
				D27	S1	OCPs
				SDUP9	-	OCPs
				D28	S1	OCPs
				SDUP10	-	OCPs
				D29	S1	OCPs
				SDUP11	-	OCPs
				D30	S1	OCPs
				BH/MW20-1	SS1	M&I
				BH/MW20-2	SS1	M&I, OCPs
				BH/MW20-3	SS1	M&I, OCPs
				BH20-4	SS1	M&I, OCPs
				BH/MW20-5	SS1	M&I, OCPs
				BH20-6	SS1	M&I, OCPs, PHCs, VOCs
				SDUP3	-	OCPs
				BH20-7	SS1	M&I, OCPs
				SDUP4	-	M&I, OCPs
				BH20-6	SS1	M&I, OCPs
				BH20-9	SS1	M&I, OCPs
				SDUP6	-	M&I

Table 4: Summary of APECs Investigated

APEC	Description	PCOCs	Media	Boreholes Within APEC	Samples Analysed	Parameter Analyzed
				BH/MW20-10	SS1	M&I, OCPs
				SDUP5	-	M&I, OCPs
				BH/MW20-11	SS1	M&I, OCPs
				BH20-12	SS1	M&I, OCPs
					SS5	PHCs, VOCs
				BH/MW20-13	SS1	M&I, OCPs
				BH20-14	SS1	M&I, OCPs
				BH/MW20-2	SS1	M&I, OCPs
APEC-7a, 7b, 7c	Soil sample S3, S4, S6 was identified in the Soil-Mat 2020 Environmental Soil Testing to exceed Table 1 SCS.	DDE Arsenic Lead	Soil	D1	S1	Metals, Hydride Forming Metals, OCPs
				D3	S3	
				D4	S3	
				D5	S1	
				D6	S3	
				D8	S1	
				D10	S1	
				D12	S1	
				D13	S1	
				D14	S1	
				D18	S1	
APEC-8	One (1) diesel tank with 1,360-gallon volume capacity was located adjacent to Shed 2 to the south of 1300 Bronte Road.	PHCs, PAHs, BTEX	Soil	BH/MW20-1	SS3	PHCs
					SS4	VOCs
			Groundwater	MW20-1	-	PHCs, VOCs
APEC-9	One transformer was observed to be on Site at 1300 Bronte Road, east of Pond 2.	PHCs	Soil	TR1	S1	PHCs

Table 5: Summary of Metals and Inorganics in Soil - Samples within 30m of an Area of Natural Significance

Parameter	MECP Table 1 SCS	D5-S1	D8-S1	D10-S1	D12-S1	D13-S1	D14-S1
Date of Collection		20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20
Date Reported		31-Aug-20	31-Aug-20	31-Aug-20	31-Aug-20	31-Aug-20	31-Aug-20
Sampling Depth (mbgs)		0.1	0.1	0.1	0.1	0.1	0.1
Analytical Report Reference No.		CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20
Antimony	1.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	18	**34**	9.3	13	**24**	4	**30**
Barium	220	54	48	46	49	53	48
Beryllium	2.5	0.38	0.36	0.37	0.34	0.37	0.3
Boron	36	3	4	4	3	3	2
Boron (Hot Water Soluble)	NA	-	-	-	-	-	-
Cadmium	1.2	0.18	0.19	0.14	0.18	0.2	0.18
Chromium	70	12	12	11	11	11	9.6
Chromium VI	0.66	-	-	-	-	-	-
Cobalt	21	5.4	5.5	5	4.7	4.9	4.3
Copper	92	29	20	25	21	21	26
Cyanide	0.051	-	-	-	-	-	-
Lead	120	**150**	50	62	120	19	**150**
Mercury	0.27	-	-	-	-	-	-
Molybdenum	2	0.5	0.4	0.4	0.4	0.4	0.4
Nickel	82	11	11	11	9.6	11	8.9
Selenium	1.5	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silver	0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Thallium	1	0.11	0.11	0.1	0.1	0.1	0.1
Uranium	2.5	0.47	0.54	0.45	0.42	0.45	0.45
Vanadium	86	19	18	17	16	17	15
Zinc	290	65	63	55	57	46	56
Electrical Conductivity (2:1)	0.57	-	-	-	-	-	-
Sodium Adsorption Ratio	2.4	-	-	-	-	-	-
pH, 2:1 CaCl2 Extraction	NA	-	-	-	-	-	-

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 5: Summary of Metals and Inorganics in Soil - Samples within 30m of an Area of Natural Significance

Parameter	MECP Table 1 SCS	MW/BH20-14 SS1
Date of Collection		13-Aug-20
Date Reported		25-Aug-20
Sampling Depth (mbgs)		0.0-0.6
Analytical Report Reference No.		CA14406-AUG20
Antimony	1.3	< 0.8
Arsenic	18	5.9
Barium	220	49
Beryllium	2.5	0.4
Boron	36	3
Boron (Hot Water Soluble)	NA	< 0.5
Cadmium	1.2	0.13
Chromium	70	12
Chromium VI	0.66	< 0.2
Cobalt	21	4.8
Copper	92	19
Cyanide	0.051	-
Lead	120	32
Mercury	0.27	< 0.05
Molybdenum	2	0.2
Nickel	82	11
Selenium	1.5	< 0.7
Silver	0.5	< 0.05
Thallium	1	0.09
Uranium	2.5	0.39
Vanadium	86	16
Zinc	290	38
Electrical Conductivity (2:1)	0.57	-
Sodium Adsorption Ratio	2.4	-
pH, 2:1 CaCl2 Extraction	NA	-

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 6: Summary of Metals and Inorganics in Soil

Parameter	MECP Table 2 SCS	SB1-S1	SB2-S1	SB3-S1	SB4-S1	D1-S1	D3-S3
Date of Collection		20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20
Date Reported		31-Aug-20	31-Aug-20	31-Aug-20	31-Aug-20	31-Aug-20	31-Aug-20
Sampling Depth (mbgs)		0.1	0.1	0.1	0.1	0.1	0.5
Analytical Report Reference No.		CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20
Antimony	7.5	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	18	4.6	4.7	6.6	5.8	**20**	7.2
Barium	390	86	86	48	80	47	40
Beryllium	5	0.65	0.64	0.4	0.58	0.35	0.49
Boron	120	7	8	6	8	3	3
Boron (Hot Water Soluble)	1.5	< 0.5	< 0.5	< 0.5	< 0.5	-	-
Cadmium	1.2	0.25	0.28	0.11	0.16	0.17	0.11
Chromium	160	22	24	13	19	11	15
Chromium VI	10	< 0.2	0.3	< 0.2	< 0.2	-	-
Cobalt	22	11	11	6.5	11	4.9	7.5
Copper	180	30	29	25	29	30	29
Cyanide	0.051	< 0.05	< 0.05	< 0.05	< 0.05	-	-
Lead	120	26	24	24	23	120	24
Mercury	1.8	< 0.05	< 0.05	< 0.05	< 0.05	-	-
Molybdenum	6.9	0.5	0.5	0.3	0.5	0.4	0.4
Nickel	130	22	22	14	22	10	16
Selenium	2.4	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silver	25	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Thallium	1	0.14	0.15	0.09	0.15	0.09	0.1
Uranium	23	0.58	0.57	0.4	0.5	0.46	0.42
Vanadium	86	28	28	19	25	17	22
Zinc	340	89	95	45	72	61	45
Electrical Conductivity (2:1)	0.7	0.18	0.18	0.16	0.16	-	-
Sodium Adsorption Ratio	5	< 0.2	0.3	0.2	< 0.2	-	-
pH, 2:1 CaCl2 Extraction	NA	7.49	7.61	7.7	7.73	-	-

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 6: Summary of Metals and Inorganics in Soil

Parameter	MECP Table 2 SCS	D4-S3	D6-S3	D8-S1	D10-S1	D16-S1	SDUP7 (D16-S1)
Date of Collection		20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20
Date Reported		31-Aug-20	31-Aug-20	31-Aug-20	31-Aug-20	31-Aug-20	31-Aug-20
Sampling Depth (mbgs)		0.5	0.5	0.1	0.1	0.1	0.1
Analytical Report Reference No.		CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20
Antimony	7.5	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	18	18	7.3	9.3	13	**20**	**20**
Barium	390	70	56	48	46	57	58
Beryllium	5	0.69	0.42	0.36	0.37	0.41	0.41
Boron	120	6	2	4	4	3	3
Boron (Hot Water Soluble)	1.5	-	-	-	-	-	-
Cadmium	1.2	0.26	0.09	0.19	0.14	0.16	0.2
Chromium	160	22	13	12	11	13	12
Chromium VI	10	-	-	-	-	-	-
Cobalt	22	11	6.6	5.5	5	6	6
Copper	180	46	26	20	25	24	24
Cyanide	0.051	-	-	-	-	-	-
Lead	120	64	23	50	62	89	88
Mercury	1.8	-	-	-	-	-	-
Molybdenum	6.9	0.5	0.4	0.4	0.4	0.4	0.4
Nickel	130	27	13	11	11	12	12
Selenium	2.4	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silver	25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Thallium	1	0.13	0.1	0.11	0.1	0.11	0.11
Uranium	23	0.53	0.36	0.54	0.45	0.39	0.39
Vanadium	86	27	20	18	17	18	18
Zinc	340	72	50	63	55	63	62
Electrical Conductivity (2:1)	0.7	-	-	-	-	-	-
Sodium Adsorption Ratio	5	-	-	-	-	-	-
pH, 2:1 CaCl2 Extraction	NA	-	-	-	-	-	-

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 6: Summary of Metals and Inorganics in Soil

Parameter	MECP Table 2 SCS	D18-S1	BH/MW20-2 SS1	BH/MW20-3 SS1	BH20-4 SS1	BH/MW20-5 SS1	BH20-6 SS1
Date of Collection		20-Aug-20	13-Aug-20	13-Aug-20	13-Aug-20	14-Aug-20	14-Aug-20
Date Reported		31-Aug-20	25-Aug-20	25-Aug-20	25-Aug-20	25-Aug-20	25-Aug-20
Sampling Depth (mbgs)		0.1	0.0-0.6	0.0-0.6	0.0-0.6	0.0-0.6	0.0-0.6
Analytical Report Reference No.		CA14587-AUG20	CA14406-AUG20	CA14406-AUG20	CA14406-AUG20	CA14406-AUG20	CA14406-AUG20
Antimony	7.5	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	18	**21**	5	14	14	6.1	8.3
Barium	390	49	64	41	62	56	49
Beryllium	5	0.37	0.29	0.42	0.44	0.39	0.39
Boron	120	2	7	2	3	4	2
Boron (Hot Water Soluble)	1.5	-	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	1.2	0.15	0.22	0.1	0.18	0.15	0.13
Chromium	160	12	11	11	13	13	12
Chromium VI	10	-	< 0.2	0.3	0.3	< 0.2	0.2
Cobalt	22	5.3	4.6	6	6.4	6.1	5
Copper	180	22	24	22	25	25	22
Cyanide	0.051	-	< 0.05	-	-	-	-
Lead	120	110	16	55	74	26	39
Mercury	1.8	-	< 0.05	0.07	0.1	< 0.05	< 0.05
Molybdenum	6.9	0.4	1.2	0.4	0.4	0.3	0.3
Nickel	130	11	8.5	11	13	12	9.5
Selenium	2.4	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silver	25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Thallium	1	0.1	0.09	0.1	0.1	0.08	0.09
Uranium	23	0.39	0.7	0.41	0.41	0.38	0.43
Vanadium	86	18	14	19	20	19	17
Zinc	340	61	89	43	56	50	45
Electrical Conductivity (2:1)	0.7	-	0.24	-	-	-	-
Sodium Adsorption Ratio	5	-	0.3	-	-	-	-
pH, 2:1 CaCl2 Extraction	NA	-	7.84	-	-	-	-

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 6: Summary of Metals and Inorganics in Soil

Parameter	MECP Table 2 SCS	BH20-7 SS1	SDUP4 (BH20-7 SS1)	BH/MW20-8 SS1	BH20-9 SS1	SDUP6 (BH20-9 SS1)
Date of Collection		12-Aug-20	12-Aug-20	12-Aug-20	12-Aug-20	12-Aug-20
Date Reported		25-Aug-20	25-Aug-20	25-Aug-20	25-Aug-20	25-Aug-20
Sampling Depth (mbgs)		0.0-0.6	0.0-0.6	0.0-0.6	0.0-0.6	0.0-0.6
Analytical Report Reference No.		CA14406-AUG20	CA14406-AUG20	CA14406-AUG20	CA14406-AUG20	CA14406-AUG20
Antimony	7.5	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	18	7.6	8.7	6.3	3.5	3.8
Barium	390	53	58	47	25	27
Beryllium	5	0.46	0.48	0.42	0.31	0.37
Boron	120	3	3	3	2	2
Boron (Hot Water Soluble)	1.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	1.2	0.1	0.15	0.11	0.05	0.06
Chromium	160	13	14	11	9.1	10
Chromium VI	10	0.5	0.3	< 0.2	0.3	0.2
Cobalt	22	7	7.1	5.6	4.4	4.9
Copper	180	22	25	22	13	16
Cyanide	0.051	-	-	< 0.05	-	-
Lead	120	30	37	36	13	14
Mercury	1.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum	6.9	0.4	0.4	0.3	0.2	0.2
Nickel	130	13	14	10	7.4	8.7
Selenium	2.4	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silver	25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Thallium	1	0.11	0.11	0.08	0.07	0.06
Uranium	23	0.5	0.51	0.38	0.48	0.37
Vanadium	86	20	21	18	16	17
Zinc	340	46	50	44	21	24
Electrical Conductivity (2:1)	0.7	-	-	0.16	-	-
Sodium Adsorption Ratio	5	-	-	< 0.2	-	-
pH, 2:1 CaCl2 Extraction	NA	-	-	7.48	-	-

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 6: Summary of Metals and Inorganics in Soil

Parameter	MECP Table 2 SCS	BH/MW20-10 SS1	SDUP5 (BH/MW20-10 SS1)	BH/MW20-11 SS1	BH20-12 SS1	BH/MW20-13 SS1
Date of Collection		12-Aug-20	12-Aug-20	19-Aug-20	14-Aug-20	13-Aug-20
Date Reported		25-Aug-20	25-Aug-20	31-Aug-20	25-Aug-20	25-Aug-20
Sampling Depth (mbgs)		0.0-0.6	0.0-0.6	0.0-0.6	0.0-0.6	0.0-0.6
Analytical Report Reference No.		CA14406-AUG20	CA14406-AUG20	CA14598-AUG20	CA14406-AUG20	CA14406-AUG20
Antimony	7.5	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	18	6.4	7.8	4.3	4.7	5.4
Barium	390	79	77	60	44	43
Beryllium	5	0.64	0.53	0.49	0.51	0.42
Boron	120	4	3	6	3	3
Boron (Hot Water Soluble)	1.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Cadmium	1.2	0.14	0.19	0.25	0.12	0.12
Chromium	160	21	16	13	14	12
Chromium VI	10	0.2	0.2	0.3	0.3	0.2
Cobalt	22	7.8	6.8	6.8	7.5	5.9
Copper	180	40	31	22	30	25
Cyanide	0.051	-	-	< 0.05	-	-
Lead	120	24	35	33	18	22
Mercury	1.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Molybdenum	6.9	0.2	0.2	5.8	0.4	0.3
Nickel	130	19	16	15	15	13
Selenium	2.4	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Silver	25	0.06	< 0.05	< 0.05	< 0.05	< 0.05
Thallium	1	0.11	0.11	0.09	0.11	0.09
Uranium	23	0.49	0.41	0.39	0.47	0.37
Vanadium	86	26	23	19	22	18
Zinc	340	61	54	90	46	39
Electrical Conductivity (2:1)	0.7	-	-	0.15	-	-
Sodium Adsorption Ratio	5	-	-	0.3	-	-
pH, 2:1 CaCl2 Extraction	NA	-	-	7.28	-	-

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 7: Summary of PHCs in Soil - Samples within 30m of an Area of Natural Significance

Parameter	MECP Table 1 SCS	TR1-S1	MW20-1 SS3	BH/MW20-1 SS4
Date of Collection		20-Aug-20	13-Aug-20	13-Aug-20
Date Reported		31-Aug-20	25-Aug-20	25-Aug-20
Sampling Depth (mbgs)		0.4	1.5-2.1	2.3-2.9
Analytical Report Reference No.		CA14587-AUG20	CA14406-AUG20	CA14406-AUG20
F1-BTEX	25	< 10	< 10	-
F2 (C10-C16)	10	< 10	< 10	-
F3 (C16-C34)	240	< 50	< 50	-
F4 (C34-C50)	120	< 50	< 50	-

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 8: Summary of PHCs in Soil

Parameter	MECP Table 2 SCS	SB1-S1	SB3-S1	BH/MW20-2 SS3	BH/MW20-2 SS7	BH/MW20-5 SS3
Date of Collection		20-Aug-20	20-Aug-20	13-Aug-20	13-Aug-20	14-Aug-20
Date Reported		31-Aug-20	31-Aug-20	25-Aug-20	25-Aug-20	25-Aug-20
Sampling Depth (mbgs)		0.1	0.1	1.5-2.1	6.1-6.7	1.5-2.1
Analytical Report Reference No.		CA14587-AUG19	CA14587-AUG20	CA14406-AUG20	CA14406-AUG21	CA14406-AUG22
F1(C6-C10)	65	< 10	< 10	< 10	< 10	< 10
F2 (C10-C16)	150	< 10	< 10	< 10	< 10	< 10
F3 (C16-C34)	1300	< 50	< 50	< 50	< 50	< 50
F4 (C34-C50)	5600	< 50	< 50	< 50	< 50	< 50

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 8: Summary of PHCs in Soil

Parameter	MECP Table 2 SCS	SDUP1 (BH/MW20-5 SS3)	BH/MW20-5 SS8	SDUP2 (BH/MW20-5 SS8)	BH20-6 SS1
Date of Collection		14-Aug-20	14-Aug-20	14-Aug-20	14-Aug-20
Date Reported		25-Aug-20	25-Aug-20	25-Aug-20	25-Aug-20
Sampling Depth (mbgs)		1.5-2.1	5.3-5.9	5.3-5.9	0.0-0.6
Analytical Report Reference No.		CA14406-AUG23	CA14406-AUG24	CA14406-AUG25	CA14406-AUG27
F1(C6-C10)	65	< 10	< 10	< 10	< 10
F2 (C10-C16)	150	< 10	< 10	< 10	< 10
F3 (C16-C34)	1300	< 50	< 50	< 50	< 50
F4 (C34-C50)	5600	< 50	< 50	< 50	< 50

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 8: Summary of PHCs in Soil

Parameter	MECP Table 2 SCS	BH/MW20-8 SS6	BH/MW20-8 SS8	BH/MW20-11 SS5	BH20-12 SS5	BH20-13 SS9
Date of Collection		12-Aug-20	12-Aug-20	19-Aug-20	14-Aug-20	13-Aug-20
Date Reported		25-Aug-20	28-Aug-20	31-Aug-20	25-Aug-20	25-Aug-20
Sampling Depth (mbgs)		3.8-4.4	5.3-5.9	3.0-3.6	3.1-3.7	6.1-6.7
Analytical Report Reference No.		CA14406-AUG26	CA14762-AUG20	CA14598-AUG20	CA14406-AUG28	CA14406-AUG29
F1(C6-C10)	65	< 10	< 10	<10	< 10	< 10
F2 (C10-C16)	150	11	< 10	13	< 10	< 10
F3 (C16-C34)	1300	50	< 50	65	< 50	< 50
F4 (C34-C50)	5600	< 50	< 50	< 50	< 50	< 50

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 9: Summary of VOCs in Soil - Samples within 30m of an Area of Natural Significance

Parameter	MECP Table 1 SCS	BH/MW20-1 SS4
Date of Collection		13-Aug-20
Date Reported		25-Aug-20
Sampling Depth (mbgs)		2.3-2.9
Analytical Report Reference No.		CA14406-AUG20
Acetone	0.5	< 0.5
Benzene	0.02	< 0.02
Bromodichloromethane	0.05	< 0.05
Bromoform	0.05	< 0.05
Bromomethane	0.05	< 0.05
Carbon Tetrachloride	0.05	< 0.05
Chlorobenzene	0.05	< 0.05
Chloroform	0.05	< 0.05
Cis- 1,2-Dichloroethylene	0.05	< 0.05
Dibromochloromethane	0.05	< 0.05
Dichlorobenzene, 1,2-	0.05	< 0.05
Dichlorobenzene, 1,3-	0.05	< 0.05
Dichlorobenzene, 1,4-	0.05	< 0.05
Dichlorodifluoromethane	0.05	< 0.05
Dichloroethane, 1,1-	0.05	< 0.05
Dichloroethane, 1,2-	0.05	< 0.05
Dichloroethylene, 1,1-	0.05	< 0.05
Dichloropropane, 1,2-	0.05	< 0.05
Dichloropropene, 1,3-	0.05	< 0.05
Ethylbenzene	0.05	< 0.05
Ethylene Dibromide	0.05	< 0.05
Methyl Ethyl Ketone	0.5	< 0.5
Methyl Isobutyl Ketone	0.5	< 0.5
Methyl tert-butyl Ether	0.05	< 0.05
Methylene Chloride	0.05	< 0.05
n-Hexane	0.05	< 0.05
Styrene	0.05	< 0.05
Tetrachloroethane, 1,1,1,2-	0.05	< 0.05
Tetrachloroethane, 1,1,2,2-	0.05	< 0.05
Tetrachloroethylene	0.05	< 0.05
Toluene	0.2	< 0.05
Trans- 1,2-Dichloroethylene	0.05	< 0.05
Trichloroethane, 1,1,1-	0.05	< 0.05
Trichloroethane, 1,1,2-	0.05	< 0.05
Trichloroethylene	0.05	< 0.05
Trichlorofluoromethane	0.25	< 0.05
Vinyl Chloride	0.02	< 0.02
Xylene Mixture	0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 10: Summary of VOCs in Soil

Parameter	MECP Table 2 SCS	SB1-S1	SB3-S1	BH/MW20-2 SS7	BH20-6 SS1
Date of Collection		20-Aug-20	20-Aug-20	13-Aug-20	14-Aug-20
Date Reported		31-Aug-20	31-Aug-20	25-Aug-20	25-Aug-20
Sampling Depth (mbgs)		0.1	0.1	6.1-6.7	0.0-0.6
Analytical Report Reference No.		CA14587-AUG19	CA14587-AUG20	CA14406-AUG21	CA14406-AUG27
Acetone	28	< 0.5	< 0.5	< 0.5	< 0.5
Benzene	0.17	< 0.02	< 0.02	< 0.02	< 0.02
Bromodichloromethane	1.9	< 0.05	< 0.05	< 0.05	< 0.05
Bromoform	0.26	< 0.05	< 0.05	< 0.05	< 0.05
Bromomethane	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Carbon Tetrachloride	0.12	< 0.05	< 0.05	< 0.05	< 0.05
Chlorobenzene	2.7	< 0.05	< 0.05	< 0.05	< 0.05
Chloroform	0.18	< 0.05	< 0.05	< 0.05	< 0.05
Cis- 1,2-Dichloroethylene	2.5	< 0.05	< 0.05	< 0.05	< 0.05
Dibromochloromethane	2.9	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorobenzene, 1,2-	1.7	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorobenzene, 1,3-	6	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorobenzene, 1,4-	0.097	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorodifluoromethane	25	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethane, 1,1-	0.6	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethane, 1,2-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichloroethylene, 1,1-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichloropropane, 1,2-	0.085	< 0.05	< 0.05	< 0.05	< 0.05
Dichloropropene, 1,3-	0.081	< 0.05	< 0.05	< 0.05	< 0.05
Ethylbenzene	1.6	< 0.05	< 0.05	< 0.05	< 0.05
Ethylene Dibromide	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methyl Ethyl Ketone	44	< 0.5	< 0.5	< 0.5	< 0.5
Methyl Isobutyl Ketone	4.3	< 0.5	< 0.5	< 0.5	< 0.5
Methyl tert-butyl Ether	1.4	< 0.05	< 0.05	< 0.05	< 0.05
Methylene Chloride	0.96	< 0.05	< 0.05	< 0.05	< 0.05
n-Hexane	34	< 0.05	< 0.05	< 0.05	< 0.05
Styrene	2.2	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethane, 1,1,1,2-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethane, 1,1,2,2-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethylene	0.28	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	6	< 0.05	< 0.05	< 0.05	< 0.05
Trans- 1,2-Dichloroethylene	0.75	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethane, 1,1,1-	3.4	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethane, 1,1,2-	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethylene	0.52	< 0.05	< 0.05	< 0.05	< 0.05
Trichlorofluoromethane	5.8	< 0.05	< 0.05	< 0.05	< 0.05
Vinyl Chloride	0.022	< 0.02	< 0.02	< 0.02	< 0.02
Xylene Mixture	25	< 0.05	< 0.05	< 0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 10: Summary of VOCs in Soil

Parameter	MECP Table 2 SCS	BH20-12 SS5	BH20-13 SS9
Date of Collection		14-Aug-20	13-Aug-20
Date Reported		25-Aug-20	25-Aug-20
Sampling Depth (mbgs)		3.1-3.7	6.1-6.7
Analytical Report Reference No.		CA14406-AUG28	CA14406-AUG29
Acetone	28	< 0.5	< 0.5
Benzene	0.17	< 0.02	< 0.02
Bromodichloromethane	1.9	< 0.05	< 0.05
Bromoform	0.26	< 0.05	< 0.05
Bromomethane	0.05	< 0.05	< 0.05
Carbon Tetrachloride	0.12	< 0.05	< 0.05
Chlorobenzene	2.7	< 0.05	< 0.05
Chloroform	0.18	< 0.05	< 0.05
Cis- 1,2-Dichloroethylene	2.5	< 0.05	< 0.05
Dibromochloromethane	2.9	< 0.05	< 0.05
Dichlorobenzene, 1,2-	1.7	< 0.05	< 0.05
Dichlorobenzene, 1,3-	6	< 0.05	< 0.05
Dichlorobenzene, 1,4-	0.097	< 0.05	< 0.05
Dichlorodifluoromethane	25	< 0.05	< 0.05
Dichloroethane, 1,1-	0.6	< 0.05	< 0.05
Dichloroethane, 1,2-	0.05	< 0.05	< 0.05
Dichloroethylene, 1,1-	0.05	< 0.05	< 0.05
Dichloropropane, 1,2-	0.085	< 0.05	< 0.05
Dichloropropene, 1,3-	0.081	< 0.05	< 0.05
Ethylbenzene	1.6	< 0.05	< 0.05
Ethylene Dibromide	0.05	< 0.05	< 0.05
Methyl Ethyl Ketone	44	< 0.5	< 0.5
Methyl Isobutyl Ketone	4.3	< 0.5	< 0.5
Methyl tert-butyl Ether	1.4	< 0.05	< 0.05
Methylene Chloride	0.96	< 0.05	< 0.05
n-Hexane	34	< 0.05	< 0.05
Styrene	2.2	< 0.05	< 0.05
Tetrachloroethane, 1,1,1,2-	0.05	< 0.05	< 0.05
Tetrachloroethane, 1,1,2,2-	0.05	< 0.05	< 0.05
Tetrachloroethylene	0.28	< 0.05	< 0.05
Toluene	6	< 0.05	< 0.05
Trans- 1,2-Dichloroethylene	0.75	< 0.05	< 0.05
Trichloroethane, 1,1,1-	3.4	< 0.05	< 0.05
Trichloroethane, 1,1,2-	0.05	< 0.05	< 0.05
Trichloroethylene	0.52	< 0.05	< 0.05
Trichlorofluoromethane	5.8	< 0.05	< 0.05
Vinyl Chloride	0.022	< 0.02	< 0.02
Xylene Mixture	25	< 0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 11: Summary of PAHs in Soil - Samples within 30m of an Area of Natural Significance

Parameter	**MECP Table 1 SCS**	**BH/MW20-1 SS3**
Date of Collection		13-Aug-20
Date Reported		25-Aug-20
Screen Interval (mbgs)		1.5-2.1
Analytical Report Reference No.		CA14406-AUG20
Acenaphthene	0.072	< 0.05
Acenaphthylene	0.093	< 0.05
Anthracene	0.16	< 0.05
Benz(a)anthracene	0.36	< 0.05
Benzo(a)pyrene	0.3	< 0.05
Benzo(b)fluoranthene	0.47	< 0.05
Benzo(g,h,i)perylene	0.68	< 0.1
Benzo(k)fluoranthene	0.48	< 0.05
Chrysene	2.8	< 0.05
Dibenz(a,h)anthracene	0.1	< 0.06
Fluoranthene	0.56	< 0.05
Fluorene	0.12	< 0.05
Indeno(1,2,3-cd)pyrene	0.23	< 0.1
Naphthalene	0.09	< 0.05
2-and 1-methyl Naphthalene	0.59	< 0.05
Phenanthrene	0.69	< 0.05
Pyrene	1	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 12: Summary of PAHs in Soil

Parameter	MECP Table 2 SCS	SB1-S1	SB2-S1	SB3-S1	SB4-S1	BH/MW20-2 SS3	BH/MW20-5 SS8
Date of Collection		20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	13-Aug-20	14-Aug-20
Date Reported		14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	25-Aug-20	25-Aug-20
Sample Depth (mbgs)		0.1	0.1	0.1	0.1	1.5-2.1	5.3-5.9
Analytical Report Reference No.		CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14406-AUG20	CA14406-AUG24
Acenaphthene	29	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	0.17	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	0.74	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benz(a)anthracene	0.63	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	0.78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(g,h,i)perylene	7.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	0.78	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	7.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	0.69	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Fluorene	69	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	0.48	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	0.75	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2-and 1-methyl Naphthalene	3.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	7.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 12: Summary of PAHs in Soil

Parameter	MECP Table 2 SCS	SDUP2 (BH/MW20-5 SS8)	BH/MW20-8 SS6	BH/MW20-11 SS1
Date of Collection		14-Aug-20	12-Aug-20	19-Aug-20
Date Reported		25-Aug-20	25-Aug-20	31-Aug-20
Sample Depth (mbgs)		5.3-5.9	3.8-4.4	0.0-0.6
Analytical Report Reference No.		CA14406-AUG24	CA14406-AUG26	CA14598-AUG20
Acenaphthene	29	< 0.05	< 0.05	< 0.05
Acenaphthylene	0.17	< 0.05	< 0.05	< 0.05
Anthracene	0.74	< 0.05	< 0.05	< 0.05
Benz(a)anthracene	0.63	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	0.3	< 0.05	< 0.05	0.08
Benzo(b)fluoranthene	0.78	< 0.05	< 0.05	0.12
Benzo(g,h,i)perylene	7.8	< 0.05	< 0.05	0.2
Benzo(k)fluoranthene	0.78	< 0.1	< 0.1	< 0.1
Chrysene	7.8	< 0.05	< 0.05	0.08
Dibenz(a,h)anthracene	0.1	< 0.05	< 0.05	0.15
Fluoranthene	0.69	< 0.06	< 0.06	< 0.06
Fluorene	69	< 0.05	< 0.05	0.26
Indeno(1,2,3-cd)pyrene	0.48	< 0.05	< 0.05	< 0.05
Naphthalene	0.75	< 0.1	< 0.1	< 0.1
2-and 1-methyl Naphthalene	3.4	< 0.05	< 0.05	< 0.05
Phenanthrene	7.8	< 0.05	< 0.05	0.08
Pyrene	78	< 0.05	< 0.05	0.19

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 13: Summary of OCPs in Soil - Samples within 30m of an Area of Natural Significance

Parameter	MECP Table 1 SCS	D5-S1	D8-S1	D10-S1	D12-S1	D13-S1	D14-S1	D24-S1
Date of Collection		20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20
Date Reported		31-Aug-20	01-Sep-20	02-Sep-20	03-Sep-20	04-Sep-20	05-Sep-20	06-Sep-20
Sample Depth (mbgs)		0.1	0.1	0.1	0.1	0.1	0.1	0.1
Analytical Report Reference No.		CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20
Aldrin	0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordane	0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDD	0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDE	0.05	**0.45**	0.05	**0.39**	**0.44**	< 0.05	**0.48**	< 0.05
DDT	1.4	0.11	1.4	0.06	0.08	< 0.05	0.14	< 0.05
Dieldrin	0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan	0.04	< 0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	0.04	< 0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Hexachlorocyclohexane Gamma-	0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor	0.05	< 0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor Epoxide	0.05	< 0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	0.01	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	0.05	< 0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 13: Summary of OCPs in Soil - Samples within 30m of an Area of Natural Significance

Parameter	MECP Table 1 SCS	D26-S1	SDUP8 (D26-S1)	D27-S1	SDUP9 (D27-S1)	D28-S1	SDUP10 (D28-S1)	D30-S1
Date of Collection		20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20
Date Reported		07-Sep-20	08-Sep-20	09-Sep-20	10-Sep-20	11-Sep-20	12-Sep-20	13-Sep-20
Sample Depth (mbgs)		0.1	0.1	0.1	0.1	0.1	0.1	0.1
Analytical Report Reference No.		CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20	CA14587-AUG20
Aldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordane	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDD	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDE	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDT	1.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Hexachlorocyclohexane Gamma-	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor Epoxide	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 13: Summary of OCPs in Soil - Samples within 30m of an Area of Natural Significance

Parameter	MECP Table 1 SCS	BH20-14 SS1
Date of Collection		13-Aug-20
Date Reported		25-Aug-20
Sample Depth (mbgs)		0.0-0.6
Analytical Report Reference No.		CA14406-AUG20
Aldrin	0.05	< 0.05
Chlordane	0.05	< 0.05
DDD	0.05	< 0.05
DDE	0.05	< 0.05
DDT	1.4	< 0.05
Dieldrin	0.05	< 0.05
Endosulfan	0.04	< 0.04
Endrin	0.04	< 0.04
Hexachlorocyclohexane Gamma-	0.01	< 0.01
Heptachlor	0.05	< 0.01
Heptachlor Epoxide	0.05	< 0.01
Hexachlorobenzene	0.01	< 0.01
Hexachlorobutadiene	0.01	< 0.01
Hexachloroethane	0.01	< 0.01
Methoxychlor	0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 14: Summary of OCPs in Soil

Parameter	MECP Table 2 SCS	D1-S1	D2-S3	D3-S3	D4-S3	D6-S3	D7-S3	D9-S3
Date of Collection		20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20
Date Reported		14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20
Sample Depth (mbgs)		0.1	0.5	0.5	0.5	0.5	0.5	0.5
Analytical Report Reference No.		CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14587-AUG19
Aldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordane	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDD	3.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDE	0.33	**0.45**	< 0.05	< 0.05	0.17	0.06	< 0.05	< 0.05
DDT	1.4	0.12	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Hexachlorocyclohexane Gamma-	0.063	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor	0.15	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor Epoxide	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	0.52	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	0.014	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	0.071	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 14: Summary of OCPs in Soil

Parameter	MECP Table 2 SCS	D11-S1	D15-S1	D16-S1	D17-S1	D18-S1	D19-S1	D20-S1
Date of Collection		20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20
Date Reported		14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20
Sample Depth (mbgs)		0.1	0.1	0.1	0.1	0.1	0.1	0.1
Analytical Report Reference No.		CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14587-AUG19
Aldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordane	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDD	3.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDE	0.33	< 0.05	0.1	0.31	< 0.05	**0.54**	< 0.05	0.14
DDT	1.4	< 0.05	< 0.05	0.08	< 0.05	0.14	< 0.05	< 0.05
Dieldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Hexachlorocyclohexane Gamma-	0.063	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor	0.15	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor Epoxide	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	0.52	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	0.014	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	0.071	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 14: Summary of OCPs in Soil

Parameter	MECP Table 2 SCS	D21-S1	D22-S1	D23-S1	D25-S1	D29-S1	SDUP11 (D29-S1)	D30-S1
Date of Collection		20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20	20-Aug-20
Date Reported		14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20
Sample Depth (mbgs)		0.1	0.1	0.1	0.1	0.1	0.1	0.1
Analytical Report Reference No.		CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14587-AUG19	CA14587-AUG20	CA14587-AUG20
Aldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordane	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDD	3.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDE	0.33	< 0.05	< 0.05	0.06	< 0.05	< 0.05	< 0.05	< 0.05
DDT	1.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Hexachlorocyclohexane Gamma-	0.063	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor	0.15	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor Epoxide	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	0.52	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	0.014	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	0.071	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 14: Summary of OCPs in Soil

Parameter	MECP Table 2 SCS	BH/MW20-2 SS1	BH/MW20-3 SS1	BH/MW20-3 SS2	BH20-4 SS1	BH20-4 SS2	BH/MW20-5 SS1
Date of Collection		13-Aug-20	13-Aug-20	13-Aug-20	13-Aug-20	13-Aug-20	14-Aug-20
Date Reported		25-Aug-20	25-Aug-20	27-Aug-20	25-Aug-20	27-Aug-20	25-Aug-20
Sample Depth (mbgs)		0.0-0.6	0.0-0.6	0.8-1.4	0.0-0.6	0.8-1.4	0.0-0.6
Analytical Report Reference No.		CA14406-AUG20	CA14406-AUG20	CA14749-AUG20	CA14406-AUG20	CA14749-AUG20	CA14406-AUG20
Aldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordane	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDD	3.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDE	0.33	< 0.05	0.21	< 0.05	0.28	< 0.05	0.09
DDT	1.4	< 0.05	< 0.05	< 0.05	0.08	< 0.05	< 0.05
Dieldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Hexachlorocyclohexane Gamma-	0.063	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor	0.15	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor Epoxide	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	0.52	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	0.014	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	0.071	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 14: Summary of OCPs in Soil

Parameter	MECP Table 2 SCS	BH/MW20-5 SS2	BH20-6 SS1	SDUP3 (BH20-6 SS1)	BH20-7 SS1	SDUP4 (BH20-7 SS1)
Date of Collection		14-Aug-20	14-Aug-20	14-Aug-20	12-Aug-20	12-Aug-20
Date Reported		27-Aug-20	25-Aug-20	25-Aug-20	25-Aug-20	25-Aug-20
Sample Depth (mbgs)		0.8-1.4	0.0-0.6	0.0-0.6	0.0-0.6	0.0-0.6
Analytical Report Reference No.		CA14749-AUG20	CA14406-AUG20	CA14406-AUG20	CA14406-AUG20	CA14406-AUG20
Aldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordane	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDD	3.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDE	0.33	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDT	1.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Hexachlorocyclohexane Gamma-	0.063	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor	0.15	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor Epoxide	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	0.52	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	0.014	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	0.071	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 14: Summary of OCPs in Soil

Parameter	MECP Table 2 SCS	BH/MW20-8 SS1	BH20-9 SS1	BH/MW20-10 SS1	SDUP5 (BH/MW20-10 SS1)	BH/MW20-11 SS1
Date of Collection		12-Aug-20	12-Aug-20	12-Aug-20	12-Aug-20	19-Aug-20
Date Reported		25-Aug-20	25-Aug-20	25-Aug-20	25-Aug-20	31-Aug-20
Sample Depth (mbgs)		0.0-0.6	0.0-0.6	0.0-0.6	0.0-0.6	0.0-0.6
Analytical Report Reference No.		CA14406-AUG20	CA14406-AUG20	CA14406-AUG20	CA14406-AUG20	CA14598-AUG20
Aldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlordane	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDD	3.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDE	0.33	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
DDT	1.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Endosulfan	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Hexachlorocyclohexane Gamma-	0.063	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor	0.15	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor Epoxide	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	0.52	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	0.014	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	0.071	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 14: Summary of OCPs in Soil

Parameter	MECP Table 2 SCS	BH20-12 SS1	BH/MW20-13 SS1
Date of Collection		14-Aug-20	13-Aug-20
Date Reported		25-Aug-20	25-Aug-20
Sample Depth (mbgs)		0.0-0.6	0.0-0.6
Analytical Report Reference No.		CA14406-AUG20	CA14406-AUG20
Aldrin	0.05	< 0.05	< 0.05
Chlordane	0.05	< 0.05	< 0.05
DDD	3.3	< 0.05	< 0.05
DDE	0.33	< 0.05	< 0.05
DDT	1.4	< 0.05	< 0.05
Dieldrin	0.05	< 0.05	< 0.05
Endosulfan	0.04	< 0.04	< 0.04
Endrin	0.04	< 0.04	< 0.04
Hexachlorocyclohexane Gamma-	0.063	< 0.01	< 0.01
Heptachlor	0.15	< 0.01	< 0.01
Heptachlor Epoxide	0.05	< 0.01	< 0.01
Hexachlorobenzene	0.52	< 0.01	< 0.01
Hexachlorobutadiene	0.014	< 0.01	< 0.01
Hexachloroethane	0.071	< 0.01	< 0.01
Methoxychlor	0.13	< 0.05	< 0.05

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 15: Summary of PCBs in soil - Samples within 30m of an Area of Natural Significance

Parameter	MECP Table 1 SCS	TR1-S1
Date of Collection		14-Aug-20
Date Reported		31-Aug-20
Sample Depth (mbgs)		0.4
Analytical Report Reference No.		CA14584-AUG20
Polychlorinated Biphenyls	0.3	< 0.3

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 16: Summary of Metals and Inorganics in Groundwater - Samples within 30m of an Area of Natural Significance

Parameter	MECP Table 1 SCS	MW20-1	DUP-1 (MW20-1)
Date of Collection		19-Aug-20	19-Aug-20
Date Reported		31-Aug-20	31-Aug-20
Screen Interval (mbgs)		4.8-7.9	4.8-7.9
Analytical Report Reference No.		CA14584-AUG20	CA14584-AUG20
Antimony	1.5	0.16	0.15
Arsenic	13	< 0.2	0.2
Barium	610	56.3	53
Beryllium	0.5	< 0.007	< 0.007
Boron	1700	34	32
Cadmium	0.5	0.016	0.014
Chloride	790000	17000	17000
Chromium	11	< 0.08	0.12
Chromium VI	25	< 0.2	< 0.2
Cobalt	3.8	0.162	0.178
Copper	5	0.6	1.7
Cyanide	5	< 2	< 2
Lead	1.9	< 0.01	0.03
Mercury	0.1	< 0.01	< 0.01
Molybdenum	23	0.4	0.32
Nickel	14	1.2	1.8
Selenium	5	0.05	0.06
Silver	0.3	< 0.05	< 0.05
Sodium	490000	20300	22000
Thallium	0.5	0.009	0.007
Uranium	8.9	0.827	0.791
Vanadium	3.9	0.22	0.25
Zinc	160	< 2	3

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 17: Summary of Metals and Inorganics in Groundwater

Parameter	MECP Table 2 SCS	MW20-2	MW20-3	DUP-2 (MW20-3)	MW20-10
Date of Collection		19-Aug-20	19-Aug-20	19-Aug-20	19-Aug-20
Date Reported		31-Aug-20	31-Aug-20	31-Aug-20	31-Aug-20
Screen Interval (mbgs)		1.8-4.9	4.3-7.4	4.3-7.4	4.3-7.4
Analytical Report Reference No.		CA14584-AUG20	CA14584-AUG20	CA14584-AUG20	CA14584-AUG20
Antimony	6	0.12	0.93	0.89	0.3
Arsenic	25	0.2	1.5	1.4	0.6
Barium	1000	50.1	183	179	73
Beryllium	4	< 0.007	< 0.007	< 0.007	< 0.007
Boron	5000	67	87	81	49
Cadmium	2.7	0.013	< 0.003	0.003	0.008
Chloride	790000	57000	-	-	-
Chromium	50	< 0.08	0.13	< 0.08	0.1
Chromium VI	25	0.3	0.2	< 0.2	0.3
Cobalt	3.8	0.322	0.213	0.208	0.201
Copper	87	2.5	0.9	0.6	2.4
Cyanide	66	< 2	-	-	-
Lead	10	0.04	0.03	0.02	0.07
Mercury	1	< 0.01	< 0.01	< 0.01	< 0.01
Molybdenum	70	1.18	6.7	6.16	3.26
Nickel	100	1.9	1	0.7	1.2
Selenium	10	< 0.04	0.47	0.5	0.26
Silver	1.5	< 0.05	< 0.05	< 0.05	< 0.05
Sodium	490000	17500	15100	14100	15100
Thallium	2	0.022	0.032	0.033	0.007
Uranium	20	0.531	1.67	1.59	1.36
Vanadium	6.2	0.35	1.43	1.47	0.71
Zinc	1100	4	< 2	< 2	3

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 18: Summary of PHCs in Groundwater- Samples within 30m of an Area of Natural Significance

Parameter	MECP Table 1 SCS	MW20-1
Date of Collection		19-Aug-20
Date Reported		31-Aug-20
Screen Interval (mbgs)		4.8-7.9
Analytical Report Reference No.		CA14584-AUG20
F1 (C6 to C10) minus BTEX	420	< 25
F2 (C10 to C16)	150	< 100
F3 (C16 to C34)	500	< 200
F4 (C34 to C50) minus PAHs	500	< 200

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 19: Summary of PHCs in Groundwater

Parameter	MECP Table 2 SCS	MW20-2	MW20-5
Date of Collection		19-Aug-20	19-Aug-20
Date Reported		31-Aug-20	31-Aug-20
Screen Interval (mbgs)		1.8-4.9	4.3-7.4
Analytical Report Reference No.		CA14584-AUG20	CA14584-AUG20
F1 (C6 to C10) minus BTEX	750	< 25	< 25
F2 (C10 to C16)	150	< 100	< 100
F3 (C16 to C34)	500	< 200	< 200
F4 (C34 to C50) minus PAHs	500	< 200	< 200

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 20: Summary of VOCs in Groundwater

Parameter	MECP Table 1 SCS	MW20-1
Date of Collection		19-Aug-20
Date Reported		31-Aug-20
Screen Interval (mbgs)		4.8-7.9
Analytical Report Reference No.		CA14584-AUG20
Acetone	2700	< 30
Benzene	0.5	< 0.5
Bromodichloromethane	2	< 0.5
Bromoform	5	< 0.5
Bromomethane	0.89	< 0.5
Carbon Tetrachloride	0.2	< 0.2
Chlorobenzene	0.5	< 0.5
Chloroform	2	< 0.5
cis- 1,2-Dichloroethylene	1.6	< 0.5
Dibromochloromethane	2	< 0.5
Dichlorobenzene, 1,2-	0.5	< 0.5
Dichlorobenzene, 1,3-	0.5	< 0.5
Dichlorobenzene, 1,4-	0.5	< 0.5
Dichlorodifluoromethane	590	< 2
Dichloroethane, 1,1-	0.5	< 0.5
Dichloroethane, 1,2-	0.5	< 0.5
Dichloroethylene, 1,1-	0.5	< 0.5
Dichloropropane, 1,2-	0.5	< 0.5
Dichloropropene, 1,3-	0.5	< 0.5
Ethylbenzene	0.5	< 0.5
Ethylene Dibromide	0.2	< 0.2
Methyl Ethyl Ketone	400	< 20
Methyl Isobutyl Ketone	640	< 20
Methyl tert-butyl ether	15	< 2
Methylene Chloride	5	< 0.5
n-Hexane	5	< 1
Styrene	0.5	< 0.5
Tetrachloroethane, 1,1,1,2-	1.1	< 0.5
Tetrachloroethane, 1,1,2,2-	0.5	< 0.5
Tetrachloroethylene	0.5	< 0.5
Toluene	0.8	< 0.5
trans- 1,2-Dichloroethylene	1.6	< 0.5
Trichloroethane, 1,1,1-	0.5	< 0.5
Trichloroethane, 1,1,2-	0.5	< 0.5
Trichloroethylene	0.5	< 0.5
Trichlorofluoromethane	150	< 5
Vinyl Chloride	0.5	< 0.2
Xylene Mixture	72	< 0.5

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 21: Summary of VOCs in Groundwater

Parameter	MECP Table 2 SCS	MW20-2	Trip Blank
Date of Collection		19-Aug-20	-
Date Reported		31-Aug-20	31-Aug-20
Screen Interval (mbgs)		1.8-4.9	-
Analytical Report Reference No.		CA14584-AUG20	CA14584-AUG21
Acetone	2700	< 30	< 30
Benzene	5	< 0.5	< 0.5
Bromodichloromethane	16	< 0.5	< 0.5
Bromoform	25	< 0.5	< 0.5
Bromomethane	0.89	< 0.5	< 0.5
Carbon Tetrachloride	5	< 0.2	< 0.2
Chlorobenzene	30	< 0.5	< 0.5
Chloroform	22	< 0.5	< 0.5
cis- 1,2-Dichloroethylene	17	< 0.5	< 0.5
Dibromochloromethane	25	< 0.5	< 0.5
Dichlorobenzene, 1,2-	3	< 0.5	< 0.5
Dichlorobenzene, 1,3-	59	< 0.5	< 0.5
Dichlorobenzene, 1,4-	1	< 0.5	< 0.5
Dichlorodifluoromethane	590	< 2	< 2
Dichloroethane, 1,1-	5	< 0.5	< 0.5
Dichloroethane, 1,2-	5	< 0.5	< 0.5
Dichloroethylene, 1,1-	14	< 0.5	< 0.5
Dichloropropane, 1,2-	5	< 0.5	< 0.5
Dichloropropene, 1,3-	0.5	< 0.5	< 0.5
Ethylbenzene	2.4	< 0.5	< 0.5
Ethylene Dibromide	0.2	< 0.2	< 0.2
Methyl Ethyl Ketone	1800	< 1	< 1
Methyl Isobutyl Ketone	640	< 20	< 20
Methyl tert-butyl ether	15	< 20	< 20
Methylene Chloride	50	< 2	< 2
n-Hexane	520	< 0.5	< 0.5
Styrene	5.4	< 0.5	< 0.5
Tetrachloroethane, 1,1,1,2-	1.1	< 0.5	< 0.5
Tetrachloroethane, 1,1,2,2-	1	< 0.5	< 0.5
Tetrachloroethylene	17	< 0.5	< 0.5
Toluene	24	< 0.5	< 0.5
trans- 1,2-Dichloroethylene	17	< 0.5	< 0.5
Trichloroethane, 1,1,1-	200	< 0.5	< 0.5
Trichloroethane, 1,1,2-	5	< 0.5	< 0.5
Trichloroethylene	5	< 0.5	< 0.5
Trichlorofluoromethane	150	< 5	< 5
Vinyl Chloride	1.7	< 0.2	< 0.2
Xylene Mixture	300	< 0.5	< 0.5

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 22: Summary of PAHs in Groundwater - Samples within 30m of an Area of natural Significance

Parameter	MECP Table 1 SCS	MW20-1
Date of Collection		19-Aug-20
Date Reported		31-Aug-20
Screen Interval (mbgs)		4.8-7.9
Analytical Report Reference No.		CA14584-AUG20
Acenaphthene	4.1	< 0.1
Acenaphthylene	1	< 0.1
Anthracene	0.1	< 0.1
Benz(a)anthracene	0.2	< 0.1
Benzo(a)pyrene	0.01	< 0.01
Benzo(b)fluoranthene	0.1	< 0.1
Benzo(g,h,i)perylene	0.2	< 0.2
Benzo(k)fluoranthene	0.1	< 0.1
Chrysene	0.1	< 0.1
Dibenz(a,h)anthracene	0.2	< 0.1
Fluoranthene	0.4	< 0.1
Fluorene	120	< 0.1
Indeno(1,2,3-cd)pyrene	0.2	< 0.2
Naphthalene	7	< 0.5
2-and 1-methyl Naphthalene	2	< 0.5
Phenanthrene	0.1	< 0.1
Pyrene	0.2	< 0.1

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 23: Summary of PAHs in Groundwater

Parameter	MECP Table 2 SCS	MW20-2	MW20-5
Date of Collection		19-Aug-20	19-Aug-20
Date Reported		31-Aug-20	31-Aug-20
Screen Interval (mbgs)		1.8-4.9	4.3-7.4
Analytical Report Reference No.		CA14584-AUG20	CA14584-AUG20
Acenaphthene	4.1	< 0.1	< 0.1
Acenaphthylene	1	< 0.1	< 0.1
Anthracene	2.4	< 0.1	< 0.1
Benz(a)anthracene	1	< 0.1	< 0.1
Benzo(a)pyrene	0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	0.2	< 0.2	< 0.2
Benzo(k)fluoranthene	0.1	< 0.1	< 0.1
Chrysene	0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	0.2	< 0.1	< 0.1
Fluoranthene	0.41	< 0.1	< 0.1
Fluorene	120	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	0.2	< 0.2	< 0.2
Naphthalene	11	< 0.5	< 0.5
2-and 1-methyl Naphthalene	3.2	< 0.5	< 0.5
Phenanthrene	1	< 0.1	< 0.1
Pyrene	4.1	< 0.1	< 0.1

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 24: Summary of OCPs in Groundwater

Parameter	MECP Table 2 SCS	MW20-3	MW20-10
Date of Collection		19-Aug-20	19-Aug-20
Date Reported		31-Aug-20	31-Aug-20
Screen Interval (mbgs)		4.3-7.4	4.3-7.4
Analytical Report Reference No.		CA14584-AUG20	CA14584-AUG20
Aldrin	0.35	< 0.01	< 0.01
Chlordane	7	< 0.02	< 0.02
DDD	10	< 0.05	< 0.05
DDE	10	< 0.01	< 0.01
DDT	2.8	< 0.05	< 0.05
Dieldrin	0.35	< 0.01	< 0.01
Endosulfan	1.5	< 0.05	< 0.05
Endrin	0.48	< 0.05	< 0.05
Hexachlorocyclohexane Gamma-	1.2	< 0.01	< 0.01
Heptachlor	1.5	< 0.01	< 0.01
Heptachlor Epoxide	0.048	< 0.01	< 0.01
Hexachlorobenzene	1	< 0.01	< 0.01
Hexachlorobutadiene	0.44	< 0.01	< 0.01
Hexachloroethane	2.1	< 0.01	< 0.01
Methoxychlor	6.5	< 0.01	< 0.01

For Table Notes see **Notes for Soil and Groundwater Summary Tables,** included at the end of this Section.

Table 25: Summary of Maximum Concentrations in Soil - Samples compared to Table 1 SCS

	Parameter	Standard	Maximum Concentration	Location
Metals and ORPs	Antimony	1.3	< 0.8	All Samples
	Arsenic	18	**34**	D5-S1
	Barium	220	54	D5-S1
	Beryllium	2.5	0.4	MW/BH20-14 SS1
	Boron	36	4	D8-S1
	Boron (Hot Water Soluble)	NA	-	All Samples
	Cadmium	1.2	0.2	D13-S1
	Chromium	70	12	D5-S1
	Chromium VI	0.66	-	All Samples
	Cobalt	21	5.5	D8-S1
	Copper	92	29	D5-S1
	Cyanide	0.051	-	All Samples
	Lead	120	**150**	D5-S1
	Mercury	0.27	-	All Samples
	Molybdenum	2	0.5	D5-S1
	Nickel	82	11	D5-S1
	Selenium	1.5	< 0.7	All Samples
	Silver	0.5	< 0.05	All Samples
	Thallium	1	0.11	D5-S1
	Uranium	2.5	0.54	D8-S1
	Vanadium	86	19	D5-S1
	Zinc	290	65	D5-S1
	Electrical Conductivity (2:1)	0.57	-	All Samples
	Sodium Adsorption Ratio	2.4	-	All Samples
	pH, 2:1 CaCl2 Extraction	-	-	All Samples
PHCs	F1(C6-C10)	25	< 10	All Samples
	F2 (C10-C16)	10	< 10	All Samples
	F3 (C16-C34)	240	< 50	All Samples
	F4 (C34-C50)	120	< 50	All Samples
VOCs	Acetone	0.5	< 0.5	All Samples
	Benzene	0.02	< 0.02	All Samples
	Bromodichloromethane	0.05	< 0.05	All Samples
	Bromoform	0.05	< 0.05	All Samples
	Bromomethane	0.05	< 0.05	All Samples
	Carbon Tetrachloride	0.05	< 0.05	All Samples
	Chlorobenzene	0.05	< 0.05	All Samples
	Chloroform	0.05	< 0.05	All Samples
	Cis- 1,2-Dichloroethylene	0.05	< 0.05	All Samples
	Dibromochloromethane	0.05	< 0.05	All Samples
	Dichlorobenzene, 1,2-	0.05	< 0.05	All Samples
	Dichlorobenzene, 1,3-	0.05	< 0.05	All Samples
	Dichlorobenzene, 1,4-	0.05	< 0.05	All Samples
	Dichlorodifluoromethane	0.05	< 0.05	All Samples
	Dichloroethane, 1,1-	0.05	< 0.05	All Samples

Table 25: Summary of Maximum Concentrations in Soil - Samples compared to Table 1 SCS

	Parameter	Standard	Maximum Concentration	Location
VOCs	Dichloroethane, 1,2-	0.05	< 0.05	All Samples
	Dichloroethylene, 1,1-	0.05	< 0.05	All Samples
	Dichloropropane, 1,2-	0.05	< 0.05	All Samples
	Dichloropropene, 1,3-	0.05	< 0.05	All Samples
	Ethylbenzene	0.05	< 0.05	All Samples
	Ethylene Dibromide	0.05	< 0.05	All Samples
	Methyl Ethyl Ketone	0.5	< 0.5	All Samples
	Methyl Isobutyl Ketone	0.5	< 0.5	All Samples
	Methyl tert-butyl Ether	0.05	< 0.05	All Samples
	Methylene Chloride	0.05	< 0.05	All Samples
	n-Hexane	0.05	< 0.05	All Samples
	Styrene	0.05	< 0.05	All Samples
	Tetrachloroethane, 1,1,1,2-	0.05	< 0.05	All Samples
	Tetrachloroethane, 1,1,2,2-	0.05	< 0.05	All Samples
	Tetrachloroethylene	0.05	< 0.05	All Samples
	Toluene	0.2	< 0.05	All Samples
	Trans- 1,2-Dichloroethylene	0.05	< 0.05	All Samples
	Trichloroethane, 1,1,1-	0.05	< 0.05	All Samples
	Trichloroethane, 1,1,2-	0.05	< 0.05	All Samples
	Trichloroethylene	0.05	< 0.05	All Samples
	Trichlorofluoromethane	0.25	< 0.05	All Samples
	Vinyl Chloride	0.02	< 0.02	All Samples
	Xylene Mixture	0.05	< 0.05	All Samples
PAHs	Acenaphthene	0.072	< 0.05	All Samples
	Acenaphthylene	0.093	< 0.05	All Samples
	Anthracene	0.16	< 0.05	All Samples
	Benz(a)anthracene	0.36	< 0.05	All Samples
	Benzo(a)pyrene	0.3	< 0.05	All Samples
	Benzo(b)fluoranthene	0.47	< 0.05	All Samples
	Benzo(g,h,i)perylene	0.68	< 0.1	All Samples
	Benzo(k)fluoranthene	0.48	< 0.05	All Samples
	Chrysene	2.8	< 0.05	All Samples
	Dibenz(a,h)anthracene	0.1	< 0.06	All Samples
	Fluoranthene	0.56	< 0.05	All Samples
	Fluorene	0.12	< 0.05	All Samples
	Indeno(1,2,3-cd)pyrene	0.23	< 0.1	All Samples
	Naphthalene	0.09	< 0.05	All Samples
	2-and 1-methyl Naphthalene	0.59	< 0.05	All Samples
	Phenanthrene	0.69	< 0.05	All Samples
	Pyrene	1	< 0.05	All Samples
	Aldrin	0.05	0.05	D8-S1
	Chlordane	0.05	0.05	D8-S1
	DDD	0.05	0.05	D8-S1
	DDE	0.05	**0.48**	D14-S1

Table 25: Summary of Maximum Concentrations in Soil - Samples compared to Table 1 SCS

Parameter		Standard	Maximum Concentration	Location
OCPs	DDT	1.4	1.4	D8-S1
	Dieldrin	0.05	0.05	D8-S1
	Endosulfan	0.04	0.04	D8-S1
	Endrin	0.04	0.04	D8-S1
	Hexachlorocyclohexane Gamma-	0.01	0.01	D8-S1
	Heptachlor	0.05	0.05	D8-S1
	Heptachlor Epoxide	0.05	0.05	D8-S1
	Hexachlorobenzene	0.01	0.01	D8-S1
	Hexachlorobutadiene	0.01	0.01	D8-S1
	Hexachloroethane	0.01	0.01	D8-S1
	Methoxychlor	0.05	0.05	D8-S1
PCBs	Polychlorinated Biphenyls	0.3	< 0.3	All Samples

Table 26: Summary of Maximum Concentrations in Soil - Table 2

	Parameter	Standard	Maximum Concentration	Location
Metals and ORPs	Antimony	7.5	< 0.8	All Samples
	Arsenic	18	21	D18-S1
	Barium	390	86	SB1-S1
	Beryllium	5	0.69	D4-S3
	Boron	120	8	SB2-S1
	Boron (Hot Water Soluble)	1.5	< 0.5	All Samples
	Cadmium	1.2	0.28	SB2-S1
	Chromium	160	24	SB2-S1
	Chromium VI	10	0.5	BH20-7 SS1
	Cobalt	22	11	SB1-S1
	Copper	180	46	D4-S3
	Cyanide	0.051	< 0.05	All Samples
	Lead	120	120	D1-S1
	Mercury	1.8	0.1	BH20-4 SS1
	Molybdenum	6.9	5.8	BH/MW20-11 SS1
	Nickel	130	27	D4-S3
	Selenium	2.4	< 0.7	All Samples
	Silver	25	0.06	BH/MW20-10 SS1
	Thallium	1	0.15	SB2-S1
	Uranium	23	0.7	BH/MW20-2 SS1
	Vanadium	86	28	SB1-S1
	Zinc	340	95	SB2-S1
	Electrical Conductivity (2:1)	0.7	0.24	BH/MW20-2 SS1
	Sodium Adsorption Ratio	5	0.3	SB2-S1
	pH, 2:1 CaCl2 Extraction	NA	7.84	BH/MW20-2 SS1
PHCs	F1(C6-C10)	65	< 10	All Samples
	F2 (C10-C16)	150	13	BH/MW20-11 SS5
	F3 (C16-C34)	1300	65	BH/MW20-11 SS5
	F4 (C34-C50)	5600	< 50	All Samples
VOCs	Acetone	28	< 0.5	All Samples
	Benzene	0.17	< 0.02	All Samples
	Bromodichloromethane	1.9	< 0.05	All Samples
	Bromoform	0.26	< 0.05	All Samples
	Bromomethane	0.05	< 0.05	All Samples
	Carbon Tetrachloride	0.12	< 0.05	All Samples
	Chlorobenzene	2.7	< 0.05	All Samples
	Chloroform	0.18	< 0.05	All Samples
	Cis- 1,2-Dichloroethylene	2.5	< 0.05	All Samples
	Dibromochloromethane	2.9	< 0.05	All Samples
	Dichlorobenzene, 1,2-	1.7	< 0.05	All Samples
	Dichlorobenzene, 1,3-	6	< 0.05	All Samples
	Dichlorobenzene, 1,4-	0.097	< 0.05	All Samples
	Dichlorodifluoromethane	25	< 0.05	All Samples
	Dichloroethane, 1,1-	0.6	< 0.05	All Samples

Table 26: Summary of Maximum Concentrations in Soil - Table 2

	Parameter	Standard	Maximum Concentration	Location
VOCs	Dichloroethane, 1,2-	0.05	< 0.05	All Samples
	Dichloroethylene, 1,1-	0.05	< 0.05	All Samples
	Dichloropropane, 1,2-	0.085	< 0.05	All Samples
	Dichloropropene, 1,3-	0.081	< 0.05	All Samples
	Ethylbenzene	1.6	< 0.05	All Samples
	Ethylene Dibromide	0.05	< 0.05	All Samples
	Methyl Ethyl Ketone	44	< 0.5	All Samples
	Methyl Isobutyl Ketone	4.3	< 0.5	All Samples
	Methyl tert-butyl Ether	1.4	< 0.05	All Samples
	Methylene Chloride	0.96	< 0.05	All Samples
	n-Hexane	34	< 0.05	All Samples
	Styrene	2.2	< 0.05	All Samples
	Tetrachloroethane, 1,1,1,2-	0.05	< 0.05	All Samples
	Tetrachloroethane, 1,1,2,2-	0.05	< 0.05	All Samples
	Tetrachloroethylene	0.28	< 0.05	All Samples
	Toluene	6	< 0.05	All Samples
	Trans- 1,2-Dichloroethylene	0.75	< 0.05	All Samples
	Trichloroethane, 1,1,1-	3.4	< 0.05	All Samples
	Trichloroethane, 1,1,2-	0.05	< 0.05	All Samples
	Trichloroethylene	0.52	< 0.05	All Samples
	Trichlorofluoromethane	5.8	< 0.05	All Samples
	Vinyl Chloride	0.022	< 0.02	All Samples
	Xylene Mixture	25	< 0.05	All Samples
PAHs	Acenaphthene	29	< 0.05	All Samples
	Acenaphthylene	0.17	< 0.05	All Samples
	Anthracene	0.74	< 0.05	All Samples
	Benz(a)anthracene	0.63	< 0.05	All Samples
	Benzo(a)pyrene	0.3	0.08	BH/MW20-11 SS1
	Benzo(b)fluoranthene	0.78	0.12	BH/MW20-11 SS1
	Benzo(g,h,i)perylene	7.8	0.2	BH/MW20-11 SS1
	Benzo(k)fluoranthene	0.78	< 0.1	All Samples
	Chrysene	7.8	0.08	BH/MW20-11 SS1
	Dibenz(a,h)anthracene	0.1	0.15	BH/MW20-11 SS1
	Fluoranthene	0.69	< 0.06	All Samples
	Fluorene	69	0.26	BH/MW20-11 SS1
	Indeno(1,2,3-cd)pyrene	0.48	< 0.05	All Samples
	Naphthalene	0.75	< 0.1	All Samples
	2-and 1-methyl Naphthalene	3.4	< 0.05	All Samples
	Phenanthrene	7.8	0.08	BH/MW20-11 SS1
	Pyrene	78	0.19	BH/MW20-11 SS1
	Aldrin	0.05	< 0.05	All Samples
	Chlordane	0.05	< 0.05	All Samples
	DDD	3.3	< 0.05	All Samples
	DDE	0.33	0.54	D18-S1

Table 26: Summary of Maximum Concentrations in Soil - Table 2

Parameter		Standard	Maximum Concentration	Location
OCPs	DDT	1.4	0.14	D18-S1
	Dieldrin	0.05	< 0.05	All Samples
	Endosulfan	0.04	< 0.04	All Samples
	Endrin	0.04	< 0.04	All Samples
	Hexachlorocyclohexane Gamma-	0.063	< 0.01	All Samples
	Heptachlor	0.15	< 0.01	All Samples
	Heptachlor Epoxide	0.05	< 0.01	All Samples
	Hexachlorobenzene	0.52	< 0.01	All Samples
	Hexachlorobutadiene	0.014	< 0.01	All Samples
	Hexachloroethane	0.071	< 0.01	All Samples
	Methoxychlor	0.13	< 0.05	All Samples

Table 27: Summary of Maximum Concentrations in Groundwater - Samples compared to Table 1 SCS

	Parameter	Standard	Maximum Concentration	Location
Metals and ORPs	Antimony	1.5	0.15	MW20-1
	Arsenic	13	0.2	DUP-1 (MW20-1)
	Barium	610	53	MW20-1
	Beryllium	0.5	< 0.007	All Samples
	Boron	1700	32	MW20-1
	Cadmium	0.5	0.014	MW20-1
	Chloride	790000	17000	MW20-1
	Chromium	11	0.12	DUP-1 (MW20-1)
	Chromium VI	25	< 0.2	All Samples
	Cobalt	3.8	0.178	DUP-1 (MW20-1)
	Copper	5	1.7	DUP-1 (MW20-1)
	Cyanide	5	< 2	All Samples
	Lead	1.9	0.03	DUP-1 (MW20-1)
	Mercury	0.1	< 0.01	All Samples
	Molybdenum	23	0.32	MW20-1
	Nickel	14	1.8	DUP-1 (MW20-1)
	Selenium	5	0.06	DUP-1 (MW20-1)
	Silver	0.3	< 0.05	All Samples
	Sodium	490000	22000	DUP-1 (MW20-1)
	Thallium	0.5	0.007	MW20-1
	Uranium	8.9	0.791	MW20-1
	Vanadium	3.9	0.25	DUP-1 (MW20-1)
	Zinc	160	3	DUP-1 (MW20-1)
PHCs	F1 (C6 to C10) minus BTEX	420	< 25	All Samples
	F2 (C10 to C16)	150	< 100	All Samples
	F3 (C16 to C34)	500	< 200	All Samples
	F4 (C34 to C50) minus PAHs	500	< 200	All Samples
VOCs	Acetone	2700	< 30	All Samples
	Benzene	0.5	< 0.5	All Samples
	Bromodichloromethane	2	< 0.5	All Samples
	Bromoform	5	< 0.5	All Samples
	Bromomethane	0.89	< 0.5	All Samples
	Carbon Tetrachloride	0.2	< 0.2	All Samples
	Chlorobenzene	0.5	< 0.5	All Samples
	Chloroform	2	< 0.5	All Samples
	cis- 1,2-Dichloroethylene	1.6	< 0.5	All Samples
	Dibromochloromethane	2	< 0.5	All Samples
	Dichlorobenzene, 1,2-	0.5	< 0.5	All Samples
	Dichlorobenzene, 1,3-	0.5	< 0.5	All Samples
	Dichlorobenzene, 1,4-	0.5	< 0.5	All Samples
	Dichlorodifluoromethane	590	< 2	All Samples
	Dichloroethane, 1,1-	0.5	< 0.5	All Samples
	Dichloroethane, 1,2-	0.5	< 0.5	All Samples

Table 27: Summary of Maximum Concentrations in Groundwater - Samples compared to Table 1 SCS

Parameter		Standard	Maximum Concentration	Location
VOCs	Dichloroethylene, 1,1-	0.5	< 0.5	All Samples
	Dichloropropane, 1,2-	0.5	< 0.5	All Samples
	Dichloropropene, 1,3-	0.5	< 0.5	All Samples
	Ethylbenzene	0.5	< 0.5	All Samples
	Ethylene Dibromide	0.2	< 0.2	All Samples
	Methyl Ethyl Ketone	400	< 20	All Samples
	Methyl Isobutyl Ketone	640	< 20	All Samples
	Methyl tert-butyl ether	15	< 2	All Samples
	Methylene Chloride	5	< 0.5	All Samples
	n-Hexane	5	< 1	All Samples
	Styrene	0.5	< 0.5	All Samples
	Tetrachloroethane, 1,1,1,2-	1.1	< 0.5	All Samples
	Tetrachloroethane, 1,1,2,2-	0.5	< 0.5	All Samples
	Tetrachloroethylene	0.5	< 0.5	All Samples
	Toluene	0.8	< 0.5	All Samples
	trans- 1,2-Dichloroethylene	1.6	< 0.5	All Samples
	Trichloroethane, 1,1,1-	0.5	< 0.5	All Samples
	Trichloroethane, 1,1,2-	0.5	< 0.5	All Samples
	Trichloroethylene	0.5	< 0.5	All Samples
	Trichlorofluoromethane	150	< 5	All Samples
	Vinyl Chloride	0.5	< 0.2	All Samples
	Xylene Mixture	72	< 0.5	All Samples
PAHs	Acenaphthene	< 0.1	< 0.1	All Samples
	Acenaphthylene	< 0.1	< 0.1	All Samples
	Anthracene	< 0.1	< 0.1	All Samples
	Benz(a)anthracene	< 0.1	< 0.1	All Samples
	Benzo(a)pyrene	< 0.01	< 0.01	All Samples
	Benzo(b)fluoranthene	< 0.1	< 0.1	All Samples
	Benzo(g,h,i)perylene	< 0.2	< 0.2	All Samples
	Benzo(k)fluoranthene	< 0.1	< 0.1	All Samples
	Chrysene	< 0.1	< 0.1	All Samples
	Dibenz(a,h)anthracene	< 0.1	< 0.1	All Samples
	Fluoranthene	< 0.1	< 0.1	All Samples
	Fluorene	< 0.1	< 0.1	All Samples
	Indeno(1,2,3-cd)pyrene	< 0.2	< 0.2	All Samples
	Naphthalene	< 0.5	< 0.5	All Samples
	2-and 1-methyl Naphthalene	< 0.5	< 0.5	All Samples
	Phenanthrene	< 0.1	< 0.1	All Samples
	Pyrene	< 0.1	< 0.1	All Samples

Table 28: Summary of Maximum Concentrations in Groundwater

	Parameter	Standard	Maximum Concentration	Location
Metals and ORPs	Antimony	6	0.93	MW20-3
	Arsenic	25	1.5	MW20-3
	Barium	1000	183	MW20-3
	Beryllium	4	< 0.007	All Samples
	Boron	5000	87	MW20-3
	Cadmium	2.7	0.013	MW20-2
	Chloride	790000	57000	MW20-2
	Chromium	50	0.13	MW20-3
	Chromium VI	25	0.3	MW20-2
	Cobalt	3.8	0.322	MW20-2
	Copper	87	2.5	MW20-2
	Cyanide	66	< 2	All Samples
	Lead	10	0.07	MW20-10
	Mercury	1	< 0.01	All Samples
	Molybdenum	70	6.7	MW20-3
	Nickel	100	1.9	MW20-2
	Selenium	10	0.5	DUP-2 (MW20-3)
	Silver	1.5	< 0.05	All Samples
	Sodium	490000	17500	MW20-2
	Thallium	2	0.033	DUP-2 (MW20-3)
	Uranium	20	1.67	MW20-3
	Vanadium	6.2	1.47	DUP-2 (MW20-3)
	Zinc	1100	4	MW20-2
PHCs	F1 (C6 to C10) minus BTEX	750	< 25	All Samples
	F2 (C10 to C16)	150	< 100	All Samples
	F3 (C16 to C34)	500	< 200	All Samples
	F4 (C34 to C50) minus PAHs	500	< 200	All Samples
VOCs	Acetone	2700	< 30	All Samples
	Benzene	5	< 0.5	All Samples
	Bromodichloromethane	16	< 0.5	All Samples
	Bromoform	25	< 0.5	All Samples
	Bromomethane	0.89	< 0.5	All Samples
	Carbon Tetrachloride	5	< 0.2	All Samples
	Chlorobenzene	30	< 0.5	All Samples
	Chloroform	22	< 0.5	All Samples
	cis- 1,2-Dichloroethylene	17	< 0.5	All Samples
	Dibromochloromethane	25	< 0.5	All Samples
	Dichlorobenzene, 1,2-	3	< 0.5	All Samples
	Dichlorobenzene, 1,3-	59	< 0.5	All Samples
	Dichlorobenzene, 1,4-	1	< 0.5	All Samples
	Dichlorodifluoromethane	590	< 2	All Samples
	Dichloroethane, 1,1-	5	< 0.5	All Samples
	Dichloroethane, 1,2-	5	< 0.5	All Samples

Table 28: Summary of Maximum Concentrations in Groundwater

Parameter		Standard	Maximum Concentration	Location
VOCs	Dichloroethylene, 1,1-	14	< 0.5	All Samples
	Dichloropropane, 1,2-	5	< 0.5	All Samples
	Dichloropropene, 1,3-	0.5	< 0.5	All Samples
	Ethylbenzene	2.4	< 0.5	All Samples
	Ethylene Dibromide	0.2	< 0.2	All Samples
	Methyl Ethyl Ketone	1800	< 1	All Samples
	Methyl Isobutyl Ketone	640	< 20	All Samples
	Methyl tert-butyl ether	15	< 20	All Samples
	Methylene Chloride	50	< 2	All Samples
	n-Hexane	520	< 0.5	All Samples
	Styrene	5.4	< 0.5	All Samples
	Tetrachloroethane, 1,1,1,2-	1.1	< 0.5	All Samples
	Tetrachloroethane, 1,1,2,2-	1	< 0.5	All Samples
	Tetrachloroethylene	17	< 0.5	All Samples
	Toluene	24	< 0.5	All Samples
	trans- 1,2-Dichloroethylene	17	< 0.5	All Samples
	Trichloroethane, 1,1,1-	200	< 0.5	All Samples
	Trichloroethane, 1,1,2-	5	< 0.5	All Samples
	Trichloroethylene	5	< 0.5	All Samples
	Trichlorofluoromethane	150	< 5	All Samples
	Vinyl Chloride	1.7	< 0.2	All Samples
	Xylene Mixture	300	< 0.5	All Samples
PAHs	Acenaphthene	4.1	< 0.1	All Samples
	Acenaphthylene	1	< 0.1	All Samples
	Anthracene	2.4	< 0.1	All Samples
	Benz(a)anthracene	1	< 0.1	All Samples
	Benzo(a)pyrene	0.01	< 0.01	All Samples
	Benzo(b)fluoranthene	0.1	< 0.1	All Samples
	Benzo(g,h,i)perylene	0.2	< 0.2	All Samples
	Benzo(k)fluoranthene	0.1	< 0.1	All Samples
	Chrysene	0.1	< 0.1	All Samples
	Dibenz(a,h)anthracene	0.2	< 0.1	All Samples
	Fluoranthene	0.41	< 0.1	All Samples
	Fluorene	120	< 0.1	All Samples
	Indeno(1,2,3-cd)pyrene	0.2	< 0.2	All Samples
	Naphthalene	11	< 0.5	All Samples
	2-and 1-methyl Naphthalene	3.2	< 0.5	All Samples
	Phenanthrene	1	< 0.1	All Samples
	Pyrene	4.1	< 0.1	All Samples
	Aldrin	0.35	< 0.01	All Samples
	Chlordane	7	< 0.02	All Samples
	DDD	10	< 0.05	All Samples
	DDE	10	< 0.01	All Samples

Table 28: Summary of Maximum Concentrations in Groundwater

Parameter		Standard	Maximum Concentration	Location
OCPs	DDT	2.8	< 0.05	All Samples
	Dieldrin	0.35	< 0.01	All Samples
	Endosulfan	1.5	< 0.05	All Samples
	Endrin	0.48	< 0.05	All Samples
	Hexachlorocyclohexane Gamma-	1.2	< 0.01	All Samples
	Heptachlor	1.5	< 0.01	All Samples
	Heptachlor Epoxide	0.048	< 0.01	All Samples
	Hexachlorobenzene	1	< 0.01	All Samples
	Hexachlorobutadiene	0.44	< 0.01	All Samples
	Hexachloroethane	2.1	< 0.01	All Samples
	Methoxychlor	6.5	< 0.01	All Samples

Notes for Soil and Groundwater Summary Tables

	For soil and groundwater analytical results, concentration exceeds the applicable Standards.
	For soil and groundwater analytical results, laboratory detection limits exceed the applicable Standards.
masl	Meters above sea level
MECP Table 1 SCS	Full Depth Background Site Condition Standards for all property uses other than agricultural as contained in Table 1 of the "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", published by the MECP on April 15, 2011.
MECP Table 2 SCS	Full Depth Generic Site Condition Standards in a Potable Ground Water Condition for Residential/Parkland/Institutional Use with coarse-textured soils. as contained in Table 1 of the "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", published by the MECP on April 15, 2011.
mbgs	Meters below ground surface
NM	Not Monitored
NA	Not Available
OCPs	Organochlorine Pesticides
PAH	Polyaromatic Hydrocarbon
PHCs	Petroleum Hydrocarbon
M&I	Metals and Inorganics
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
Units	Units for all soil analyses are in µg/g (ppm) unless otherwise indicated
Units	Units for all groundwater analyses are in µg/L (ppb) unless otherwise indicated

Appendix A

Project Number: 20-186-100 2020-08-01

ARGO Development
4900 Palladium Way, Suite 105
Burlington, Ontario
L7M 0W7

Attention: Mr. Scott Bland,
Sent via email: scott@argoland.com

RE: Sampling and Analysis Plan
Phase Two Environmental Site Assessment
1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario

Dear: Mr. Scott Bland,

1. Introduction

DS Consultants Limited (DS) is pleased to present the Sampling and Analysis Plan (SAP) for the proposed Phase Two Environmental Site Assessment of 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario , (the Site).The purpose of the proposed Phase Two ESA program is to assess the current subsurface environmental conditions in support of the proposed redevelopment of the Site.

The Phase Two ESA will involve intrusive investigation in the areas determined in the Site visit to be Areas of Potential Environmental Concern (APECs), and will be completed in general accordance with O.Reg 153/04. Based on the findings of the field and laboratory analyses, a Phase Two ESA report will be prepared.

2. Background

Based on the Phase One Environmental Site Assessment completed by DS in August, 2020, it is DS's understanding that the Site is a 3.56 hectare (8.8 acres) parcel of land which is currently used for mixed residential and agricultural purposes. The first developed use of the Site is interpreted to be Residential and Agricultural based on the findings of the Phase One ESA. A total of eighteen (18) potentially contaminating activities were identified on the Phase One Property or on neighbouring properties within the Phase One Study Area which are considered to be contributing to Areas of Potential Environmental Concern (APECs) on the Phase Two Property. A summary of the APECs identified, the potential contaminants of concern, and the media potentially impacted is presented in Table 1 below:

Table 1: Areas of Potential Environmental Concern

Area of Potential Environmental Concern	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Ground water, soil and/or sediment)
APEC-1	Fuel Oil tank at the residential dwelling at 1300 Bronte Road	PCA-1: #28 – Gasoline and associated products storage in fixed tanks	On Site	PHCs, PAHs, BTEX	Soil and groundwater
APEC-2	Fuel Oil tank at the residential dwelling at 1326 Bronte Road	PCA-2: #28 – Gasoline and associated products storage in fixed tanks	On Site	PHCs, PAHs, BTEX	Soil and groundwater
APEC-3	Fuel Oil tank at the residential dwelling at 1342 Bronte Road	PCA-3: #28 – Gasoline and associated products storage in fixed tanks	On Site	PHCs, PAHs, BTEX	Soil and groundwater
APEC-4	Fuel Oil tank at the residential dwelling at 1316 Bronte Road	PCA-4: #28 – Gasoline and associated products storage in fixed tanks	On Site	PHCs, PAHs, BTEX	Soil and groundwater
APEC-5	Soil berm east of Pond 1 at 1300 Bronte Road	PCA-5: #30 - Importation of Fill Material of Unknown Quality	On Site	PHC, PAHs, VOCs Metals, As, Sb, Se, B-HWS, CN-, electrical conductivity, Cr (VI), Hg, low or high pH, SAR	Soil
APEC-6a	Entire Phase One Property	PCA-6: #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On Site	OCPs, metals As, Sb, Se, CN-	Soil
APEC – 6b	Graded land at the residential dwelling at 1300 Bronte Road	PCA-7: #40 – Pesticides (including Herbicides, Fungicides and Anti-Fouling Agents) Manufacturing, Processing, Bulk Storage and Large-Scale Applications	On Site	OCPs, metals As, Sb, Se, CN-	Soil
APEC-7A	Southeast portion of the Property, within current orchard	#N/S – Impacted Soil – Soil-Mat (2020) sample S3, associated with a depth of 0.1 mbgs	On Site	DDE Arsenic Lead	Soil
APEC-7B	Southeast portion of the Property, within current orchard	#N/S – Impacted Soil - Soil-Mat (2020) sample sample S4 & 5 taken at the same location, associated with a depth of 0.1 mbgs and 0.2-0.3 mbgs respectively	On Site	DDE Arsenic Lead	Soil
APEC-7C	Southeast portion of the Property, within current orchard	#N/S – Impacted Soil - Soil-Mat (2020) sample S6, associated with a depth of 0.1 mbgs	On Site	DDE Arsenic	Soil
APEC-8	Diesel AST in the vicinity of Shed 2	PCA-15: #28 – Gasoline and associated products storage in fixed tanks	On site	PHCs, PAHs, VOCs, BTEX	Soil and groundwater
APEC-9	East adjacent to Pond 2	PCA-16: #55 - Transformer Manufacturing, Processing and Use	On site	PHCs	Soil

Notes:

1. PHC (F1-F4) = Petroleum Hydrocarbons in the F1-F4 fraction ranges

2. VOCs = Volatile Organic Compounds
3. PAHs = Polycyclic Aromatic Hydrocarbons

3. Site Investigation Program

The proposed field investigation will involve the advancement of boreholes, the installation of monitoring wells, and periodic monitoring of the installed wells. A total of fourteen (14) borehole locations have been identified. The boreholes and monitoring wells will be used for combined environmental, geotechnical and hydrogeological purposes. The details of the proposed boreholes and monitoring wells are as follows:

Table Error! No text of specified style in document.**-1: Summary of Investigation Program**

ID	Proposed Depth	Well Installation (Y/N)	Well Install Depth	Notes	Purpose
MW20-1	6 mbgs	Yes	6 mbgs	Located adjacent to the above ground diesel tank.	Geotechnical and environmental (soil and groundwater impacts potentially associated with the tank)
MW20-2*	6 mbgs	Yes	6 mbgs	Located adjacent to the house and basement fuel oil storage tank at 1300 Bronte Road.	
MW20-3	6 mbgs	Yes	6 mbgs	Located within a former orchard.	Geotechnical and environmental (soil impacts associated with the historic application of pesticides).
BH20-4	4 mbgs	No	N/A		
MW20-5	6 mbgs	Yes	6 mbgs	Located adjacent to the house and aboveground fuel oil storage tank at 1316 Bronte Road.	Geotechnical and environmental (soil and groundwater impacts potentially associated with the tank)
BH20-6	4 mbgs	No	N/A	Located within a former orchard.	Geotechnical and environmental (soil impacts associated with the historic application of pesticides).
BH20-7	4 mbgs	No	N/A		
MW20-8	6 mbgs	Yes	6 mbgs	Located adjacent to the house and basement fuel oil storage tank at 1326 Bronte Road.	Geotechnical and environmental (soil and groundwater impacts potentially associated with the tank)
BH20-9	4 mbgs	No	N/A	Located within a former orchard.	Geotechnical and environmental (soil impacts associated with the historic application of pesticides).
MW20-10	6 mbgs	Yes	6 mbgs		
MW20-11	6 mbgs	Yes	6 mbgs	Located adjacent to the house and basement fuel oil storage tank at 1342 Bronte Road.	Geotechnical and environmental (soil and groundwater impacts potentially associated with the tank)
BH20-12	4 mbgs	No	N/A	Located within a former orchard.	Geotechnical and environmental (soil impacts associated with the historic application of pesticides).
MW20-13	6 mbgs	Yes	6 mbgs		
BH20-14	4 mbgs	No	N/A		

*BH20-2 to be drilled and installed using a limited access rig due to fencing surrounding the driveway.

- In addition to the above, an additional thirty-five (35) surficial hand-augured boreholes (D1 to D30, SB1 to SB4 and TR1) are proposed across the property, as follows: thirty (30) boreholes located across the entire property and advanced to a depth of 0.5 mbgs in order to investigate potential pesticide impacts, four boreholes (SB1 to SB4) located atop the soil berm to the east of Pond 1 advanced to a depth of 0.1 mbgs in order to identify potential impacts from excess soil, and a single borehole (TR1) located immediately downgradient of the onsite transformer advanced to a depth of 0.4 mbgs.

- Public and private underground utilities and services will be cleared prior to commencement of intrusive investigation activities;
- A Health and Safety Plan will be prepared and all work will be executed safely;
- The soil profile from each truck drilled borehole will be logged in the field and samples will be screened for total organic vapours (TOV) with a photoionization detector (PID) and combustible gas detector (CGD). The location of the boreholes will be selected to investigate any APECs identified during the Phase One ESA, as well as to delineate the horizontal and vertical extents of relevant parameters of concern.
- Groundwater monitoring wells will be installed within eight (8) of the boreholes advanced in order to facilitate the collection of groundwater samples to assess the groundwater quality below the Site and to establish the direction of groundwater flow;
- Based on field screening and visual/olfactory observations, worst-case/representative soil samples from the boreholes will be submitted for laboratory testing of relevant parameters of concern;
- The groundwater levels in the wells will be measured at least 24 hours after well development has been completed, to determine the groundwater elevation. The wells will be surveyed to a geodetic benchmark to determine groundwater flow direction;
- The groundwater wells will be purged to remove stagnant water and sampled for laboratory testing of relevant parameters of concern;
- Both soil and groundwater samples will be submitted for chemical analysis by a CALA laboratory in accordance with the Ontario MOECC standards and requirements of O.Reg. 153/04 under the Environmental Protection Act.

All field equipment is to be calibrated at the start of each field day, in accordance with DS's Standard Operating Procedures (SOPs). Clean, disposable Nitrile™ gloves will be used at each sampling interval to reduce the risk of cross contamination. All non-dedicated equipment (e.g. split spoon sampler, interface probe, etc.) will be decontaminated between each borehole. The equipment will be brushed free of debris, washed with phosphate-free detergent, and then rinsed with analyte free water.

The proposed monitoring wells will be installed using 50 mm inner diameter Schedule 40 polyvinyl chloride (PVC), equipped with 50 mm inner diameter Schedule 40 PVC with #10 slot well screens. A silica sand filter pack will be placed around the well screen and up to 0.61 metres above the top of the well screen. The well annulus will be sealed with hydrated bentonite. All wells will be protected with either a flush mount well casing, or a locked monument style casing.

As described in the Phase One ESA completed by the property owner's consultant, the entire Site was historically an orchard and organochlorine pesticides (OCPs) and lead and/or arsenic impacts were confirmed at five locations within the northern portion of the Site. Furthermore, vertical and horizontal extent of the impacted soil is currently unknown. Vertical delineation was attempted at two locations whereby the sampling depth was extended from 0.1 mbgs to 0.2 - 0.3 mbgs, however

the deeper sample tested indicated that impacts were still present. In order to further understand the extent of soil impacted by historic pesticide use a total of thirty one (D1 to D30) boreholes will be hand-augered across the Site, including at the approximate locations at which exceedances were previously quantified by the Property Owner's consultant. Three soil samples will be collected from each borehole as follows: 0.1 mbgs, 0.3 mbgs and at 0.5 mbgs. The soil samples collected from a depth of 0.1 mbgs will be submitted at all of the locations and tested for OCPs, lead and arsenic. The soil samples collected from 0.5 mbgs associated with the five locations where exceedances were previously quantified will also be submitted. Should any additional exceeding locations be identified by the initial tests, additional soil samples collected at depths of 0.3 or 0.5 mbgs may also be submitted at additional cost at the discretion of the Qualified Person and after consultation with the Client in order to further understand the vertical extent of contamination at the Site.

In addition to the above, four soil samples will be collected from the soil berm at an approximate depth of 0.1 m below the surface. The collected soil will be analyzed for Contaminants of Potential Concern, including Polycyclic Aromatic Hydrocarbons (PAHs), Metals and Inorganics (M&I), as well as Petroleum Hydrocarbons (PHCs) and Volatile Organic Compounds (VOCs).

Lastly, one soil sample will be collected immediately adjacent and downgradient of the transformer unit at a depth of 0 - 0.4 mbgs. The soil sample shall be submitted for the analysis of PHCs and Polychlorinated Biphenyl (PCBs).

In total, the Phase Two ESA will encompass submission of soil and groundwater samples from the newly advanced boreholes and monitoring wells, as well as the hand augered boreholes, to a CALA accredited laboratory for the following analyses:

Soil	Groundwater
• Ten (10) samples for analysis of metals and inorganics • Seven (7) samples for analysis of PHCs • Seven (7) samples for analysis of VOCs • Nine (9) samples for analysis of PAHs • Forty-Two (42) samples for analysis of OCPs • Thirty-six (36) samples for analysis of metals, including hydrides • One (1) sample for analysis of PCBs	• Six (6) samples for analysis of metals and inorganics • Four (4) samples for analysis of PHCs • Four (4) samples for analysis of VOCs • Four (4) samples for analysis of PAHs • Three (3) samples for analysis of OCPs

- A Quality Assurance and Quality Control (QAQC) program will be implemented, involving the collection and analysis of duplicate soil and groundwater samples and trip blanks at the frequency specified under O.Reg. 153/04 (as amended);
- Preliminary Phase Two ESA Report will be prepared upon receipt of all analytical results and groundwater monitoring data. The Report will be completed in the spirit of O.Reg. 153/04 (as amended) but may require supplementation in the future for the purposes of an RSC submission.

Following receipt of all of the results, a report in accordance with O.Reg. 153/04 will be prepared.

It is noted that if the Phase Two ESA reveals parameter concentrations greater than the applicable standards set out in *Ontario Regulation 153/04,* then additional work (i.e., supplemental delineation, additional drilling, sampling, analysis, and/or site remediation activities) will be deemed necessary prior to RSC filing, should an RSC be required. The costs for any additional work, if necessary, are beyond the current scope of work.

The SAP was created based on the request to complete a Phase Two ESA in support of the proposed redevelopment of the Site. The SAP was compiled to collect data to provide information on soil and/or groundwater quality in each APEC.

Additional delineation may be required following the implementation of this SAP to meet the requirements of O.Reg. 153/04 which requires delineation of all areas where concentrations are above the applicable SCS such as in the following conditions:

- Unexpected contamination not previously discovered, or not related to identified APECs, is discovered which will require further delineation to identify source(s); and
- If the sampling results indicate that the soil and/or groundwater impacts are deeper than initially expected.

We trust that this Sampling and Analysis Plan meets the objectives of the Client. If further assistance is required on this matter please do not hesitate to contact the undersigned.

Yours Very Truly,

DS Consultants Ltd.

Rick Fioravanti, B.Sc., P.Geo., QP_{ESA}
Manager – Environmental Services

Appendix B

DS CONSULTANTS LTD.
Geotechnical ◆ Environmental ◆ Materials ◆ Hydrogeology

LOG OF BOREHOLE BH/MW20-1

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807732.718 E 601031.731

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/13/2020

REF. NO.: 20-186-100
ENCL NO.: 1

(m) ELEV / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS / 0.3 m ("N")	ELEVATION
129.0 / 0.0	**TOPSOIL**				
0.2 / 128.2	**SILTY SAND:** Brown, moist, trace organics.	1	SS	4	
0.8 / 126.7	**SILTY SAND TO SAND:** Brown, moist, trace gravel. moist to very moist at 1.5m	2	SS	7	128
		3	SS	3	
2.3 / 126.0	**SANDY SILT:** Brown, very moist.	4	SS	31	
3.0 / 125.2	**SILTY CLAY TO CLAYEY SILT:** Grey, very moist.	5	SS	12	
3.8 / 123.7	**SILT:** Grey, very moist, some clay.	6	SS	14	125
		7	SS	16	124
5.3 / 122.9	**SILT TILL:** Grey, moist, some clay, trace gravel and cobbles.	8	SS	18	123
6.1 / 122.3	**CLAYEY SILT TILL TO SILT TILL:** Grey, moist, trace gravel, cobbles and some reddish brown cobbles.	9	SS	13	
6.7	**END OF BOREHOLE**				

Notes:
1) Monitoring well installed at 4.6m.

2) Water Level Measurements:

Date:	Water Level (mbgs)
Aug.18, 2020	1.97

GROUND WATER CONDITIONS: bentonite; W. L. 127.0 masl Aug 18, 2020; sand; screen; cave

Soil Head Space Vapors: PID (ppm) 10 20 30 40; CGD (ppm) 10 20 30 40

PLASTIC LIMIT (w_P) — NATURAL MOISTURE CONTENT (w) — LIQUID LIMIT (w_L); WATER CONTENT (%) 10 20 30

POCKET PEN. (Cu) (kPa)

NATURAL UNIT WT (kN/m³)

METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%): GR SA SI CL

M&I

PAHs and PHCs

VOCs

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: + 3, × 3: Numbers refer to Sensitivity; ○ ε=3% Strain at Failure

DS ENVIRO 0-50 PPM-2016 20-186-100.GPJ DS.GDT 10/1/20

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LOG OF BOREHOLE BH/MW20-2

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807723.701 E 600908.239

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/13/2020

REF. NO.: 20-186-100
ENCL NO.: 2

(m) ELEV / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS / 0.3 m ("N")	GROUND WATER CONDITIONS	ELEVATION	METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
131.9							
130.8 / 0.1	**TOPSOIL**						M&I and OCPs
	SAND AND GRAVEL: Brown, moist.	1	SS	14	cement		
131.2 / 0.8	**SILTY SAND TILL:** Reddish brown, moist, some gravel, trace cobbles.	2	SS	14	bentonite	131	
130.4 / 1.5	**SILTY SAND TO SANDY SILT:** Reddish brown, moist to very moist, trace gravel and clay.	3	SS	13		130	PAHs and PHCs
129.6 / 2.3	**SAND:** Reddish brown, wet, trace gravel and clay.	4	SS	5		129	
	Reddish brown, trace gravel, wet.	5	SS	6	sand screen; W. L. 128.9 masl Aug 18, 2020		
128.1 / 3.8	Brown, wet. Bottom 6" more silt.	6	SS	8		128	
127.3 / 4.6	**CLAY TILL:** Grey to reddish brown, wet, trace gravel.	7	SS	11	cave in	127	VOCs
126.6 / 5.3	**END OF BOREHOLE**						

Notes:
1) Monitoring well installed at 5m.

2) Water Level Measurements:

Date:	Water Level (mbgs)
Aug. 18, 2020	3.06 mbgs

Soil Head Space Vapors: PID (ppm) 10 20 30 40; CGD (ppm) 10 20 30 40

PLASTIC LIMIT (w_P) — NATURAL MOISTURE CONTENT (w) — LIQUID LIMIT (w_L); WATER CONTENT (%) 10 20 30

POCKET PEN. (Cu) (kPa)

NATURAL UNIT WT (kN/m³)

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: +³, ×³: Numbers refer to Sensitivity; ○ ε=3% Strain at Failure

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Geotechnical ◆ Environmental ◆ Materials ◆ Hydrogeology

LOG OF BOREHOLE BH/MW20-3

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807894.836 E 601101.6

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/13/2020

REF. NO.: 20-186-100
ENCL NO.: 3

(m) ELEV / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS / 0.3 m "N"	ELEVATION	METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
130.2 / 0.0	**TOPSOIL**					M&I and OCPS
0.2 / 129.5	**SILTY SAND:** Brown, moist, trace gravel and cobbles.	1	SS	3	130	
0.8 / 127.9	**COARSE SAND AND GRAVEL:** Brown, moist, some cobbles.	2	SS	10	129	
		3	SS	28	128	
2.3 / 127.2	**SILT:** Grey, very moist, some clay.	4	SS	10		
3.1 / 126.4	**CLAY TO SILTY CLAY:** Grey, very moist/wet.	5	SS	2	127	
3.8 / 125.6	**SILTY CLAY TILL:** Grey, moist, trace gravel and cobbles.	6	SS	16	126	
4.6 / 124.9	**SILT TILL:** Grey, moist, some clay, trace gravel and cobbles.	7	SS	26	125	
5.3 / 124.1	**SILTY SAND TILL:** Grey, moist, some clay, gravel and cobbles.	8	SS	50 for 5.5"		
6.1 / 123.5	**SANDY SILT TILL:** Grey, moist, some clay, gravel and cobbles. Some red cobbles.	9	SS	50 for 5.5"	124	
6.7	**END OF BOREHOLE:**					

Notes:
1) Well installed at 4.3m.

2) Water Level Measurements:

Date:	Water Level (mbgs)
Aug. 18, 2020	2.49 mbgs

GROUND WATER CONDITIONS: bentonite; W. L. 127.7 masl Aug 18, 2020; cave in

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: +³, ×³: Numbers refer to Sensitivity; ○ ε=3% Strain at Failure

DS CONSULTANTS LTD.
Geotechnical ◆ Environmental ◆ Materials ◆ Hydrogeology

LOG OF BOREHOLE BH20-4

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807820.201 E 601040.503

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/13/2020

REF. NO.: 20-186-100
ENCL NO.: 4

(m) ELEV / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS / 0.3 m ("N")	ELEVATION	METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%)
130.9 / 0.0	**TOPSOIL**					M&I and OCPs
130.8 / 0.1	**SILTY SAND:** Brown, moist, trace gravel and cobbles.	1	SS	4		
130.1 / 0.8	**SAND AND GRAVEL:** Brown, most to very moist, trace cobbles.	2	SS	10	130	
129.3 / 1.5	**SILTY SAND TILL:** Brown, very moist, trace gravel.	3	SS	14	129	
128.6 / 2.3	**SAND:** Brown, wet, some silt, orange mottling observed at 2.3mbgs	4	SS	31	128	
		5	SS	29		
126.3 / 4.6	**CLAY to SILTY CLAY TILL:** Grey, moist, trace gravel and cobbles.	6	SS	10	126	
124.8 / 6.1	**SANDY SILT:** Grey, moist, some gravel and cobbles.	7	SS	52	125	
124.2 / 6.7	**END OF BOREHOLE**					

Notes:
1) Borehole backfilled with bentonite upon completion.

Soil Head Space Vapors: PID (ppm) 10 20 30 40; CGD (ppm) 10 20 30 40

PLASTIC LIMIT (w_P) — NATURAL MOISTURE CONTENT (w) — LIQUID LIMIT (w_L); WATER CONTENT (%) 10 20 30

POCKET PEN. (Cu) (kPa)

NATURAL UNIT WT (kN/m³)

GR SA SI CL

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: + 3, × 3: Numbers refer to Sensitivity; ○ ε=3% Strain at Failure

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LOG OF BOREHOLE BH/MW20-5

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807918.06 E 601070.755

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/14/2020

REF. NO.: 20-186-100
ENCL NO.: 5

(m) ELEV / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS / 0.3 m ("N")	GROUND WATER CONDITIONS	ELEVATION	METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
129.9							
129.8 / 0.1	**TOPSOIL**						M&I and OCPs
	SANDY SILT: Some clay, trace gravel and cobbles, brown, moist.	1	SS	4	bentonite		
129.2 / 0.8	**SILTY CLAY:** moist.	2	SS	3		129	
128.4 / 1.5	**SAND AND GRAVEL:** Brown, wet, some silt.	3	SS	8	W. L. 128.3 masl Aug 18, 2020	128	PAHs and PHCs
127.6 / 2.3	**SILTY CLAY TILL:** Trace gravel, cobbles, grey, moist.	4	SS	7	sand		
126.9 / 3.1	**SILT TILL:** Grey, moist, some clay, trace gravel and cobbles.	5	SS	20	screen	127	
		6	SS	20		126	
		7	SS	37		125	
124.5 / 5.5	**SANDY SILT TILL:** Some clay, trace gravel and cobbles. Very moist to wet.	8	SS	50 for 130mm	cave	124	PHCs
123.2 / 6.7	**END OF BOREHOLE:**	9	SS	87			

Notes:
1) Monitoring well installed to 4.3m.

2) Water Level Measurements:

Date:	Water Level (mbgs)
Aug. 18, 2020	1.61 mbgs

Soil Head Space Vapors: PID (ppm) 10 20 30 40; CGD (ppm) 10 20 30 40

PLASTIC LIMIT (w_P) — NATURAL MOISTURE CONTENT (w) — LIQUID LIMIT (w_L); WATER CONTENT (%) 10 20 30

POCKET PEN. (Cu) (kPa)

NATURAL UNIT WT (kN/m³)

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: +³, ×³: Numbers refer to Sensitivity; ○ ε=3% Strain at Failure

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Geotechnical ◆ Environmental ◆ Materials ◆ Hydrogeology

LOG OF BOREHOLE BH20-6

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807866.754 E 601009.599

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/14/2020

REF. NO.: 20-186-100
ENCL NO.: 6

ELEV (m) / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS / 0.3 m ("N")	ELEVATION	PID (ppm)	CGD (ppm)	WATER CONTENT (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%)
130.5											
130.4 / 0.1	**TOPSOIL**										Metals and OCPs
	SILTY SAND: Brown, moist, some clay, trace organics and gravel.	1	SS	5	130			90			
	Some sand seams, wet at 0.8m	2	SS	10	129			55			
128.3 / 2.2		3	SS	6				70			
	SANDY SILT TO SILT: Brown, very moist to wet.	4	SS	5	128			65			
127.4 / 3.1	**SANDY SILT TO SILTY CLAY TILL:** Brown, wet to very moist, trace gravel.	5	SS	11	127			55			
125.9 / 4.6	**SILT TILL:** Grey, moist, some clay, trace gravel, some red cobbles.	6	SS	30	126						
					125						
124.4 / 6.1	**SANDY SILT:** Grey, moist, some gravel and cobbles.	7	SS	50 for 6"	124						
123.8 / 6.7	**END OF BOREHOLE**										

Notes:
1) Borehole backfilled with bentonite upon completion.

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: +³, ×³: Numbers refer to Sensitivity; ○ ε=3% Strain at Failure

DS ENVIRO 0-50 PPM-2016 20-186-100.GPJ DS.GDT 10/1/20

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LOG OF BOREHOLE BH20-7

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807816.606 E 600971.285

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/12/2020

REF. NO.: 20-186-100
ENCL NO.: 7

SOIL PROFILE (m) ELEV / DEPTH	DESCRIPTION	STRATA PLOT	SAMPLES NUMBER	TYPE	BLOWS / 0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	Soil Head Space Vapors PID (ppm)	CGD (ppm)	PLASTIC LIMIT w_P / NATURAL MOISTURE CONTENT w / LIQUID LIMIT w_L — WATER CONTENT (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
130.6 / 0.0	**TOPSOIL**												Metals and OCPs
0.2	**SILTY SAND:** Brown, moist, some clay, trace organics.		1	SS	5								
129.8 / 0.8	**SAND AND GRAVEL:** Brown, moist to very moist, some clay, trace cobbles.		2	SS	7								
128.9 / 1.7	**CLAYEY SILT:** Brown, very moist.		3	SS	8								
128.3 / 2.3	**CLAYEY SILT TILL:** Grey, moist, trace gravel and cobbles.		4	SS	18								
			5	SS	12								
126.0 / 4.6	**SILT TILL:** Grey, moist, some clay, trace gravel and cobbles.		6	SS	34								
124.5 / 6.1	**SAND AND GRAVEL:** Brownish grey, moist, some silt, trace cobbles.		7	SS	66								
123.9 / 6.7	**END OF BOREOLE**												

Notes:
1) Borehole backfilled with bentonite upon completion.

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES $+^{3}$, $\times^{3}$: Numbers refer to Sensitivity ○ ε=3% Strain at Failure

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LOG OF BOREHOLE BH/MW20-8

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807957.169 E 601027.931

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/12/2020

REF. NO.: 20-186-100
ENCL NO.: 8

(m) ELEV / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS 0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	PID (ppm)	CGD (ppm)	WATER CONTENT (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
129.9												
0.0	**SAND FILL:** Brown, moist, rootlets, orange mottling throughout	1	SS	4								Metals and OCPs
	Very moist, some clay at 0.8m	2	SS	4		129						
					bentonite							
	Trace gravel at 1.5m	3	SS	9		128						
	Grey at 2m											
127.6												
2.3	**CLAY TILL:** Grey, moist, trace gravel and cobbles.	4	SS	10		127						
126.8												
3.1	**SILTY CLAY TO CLAYEY SILT:** Grey, moist, trace gravel and cobbles.	5	SS	12								
		6	SS	47		126						PAHs and PHCs
					sand							
125.3												
4.6	Trace cobbles at 4.5m **SILTY SAND:** Grey, moist, some gravel and cobbles.	7	SS	50 for 140mm	screen W. L. 125.3 masl Aug 18, 2020							
		8	SS	50 for 140mm		124						
		9	SS	58		123						
					cave in							
122.2												
7.6	**COARSE SAND:** Grey, wet, some gravel and cobbles.	10	SS	90		122						
121.6												
8.2	**END OF BOREHOLE**											

Notes:
1) Monitoring well installed at 6.1m.

2) Water Level Measurements:

Date:	Water Level (mbgs)
Aug. 18, 2020	4.60 mbgs

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: $+^{3}$, $\times^{3}$: Numbers refer to Sensitivity; ○ ε=3% Strain at Failure

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LOG OF BOREHOLE BH20-9

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807921.202 E 601002.487

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/12/2020

REF. NO.: 20-186-100
ENCL NO.: 9

ELEV (m) / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS / 0.3 m ("N")	ELEVATION	PID (ppm)	CGD (ppm)	WATER CONTENT (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
130.6											
130.6 / 0.1	**TOPSOIL**										Metals and OCPs
	SILTY SAND: Brown, moist.	1	SS	5							
	Very moist at 0.8m	2	SS	5	130						
129.1 / 1.5	**SANDY SILT:** Brown, very moist.	3	SS	8	129						
128.3 / 2.3	**CLAYEY SILT:** Grey, very moist to wet.	4	SS	12	128						
	Trace gravel, trace cobbles, sand seam, very moist to wet at 3m	5	SS	12	127						
126.0 / 4.6	**CLAYEY SILT TILL:** Trace gravel, trace cobble, very moist.	6	SS	55 for 100mm	126						
124.5 / 6.1	**SAND AND GRAVEL:** Grey, moist.	7	SS	50 for 140mm	125			60			
		8	SS	50 for 140mm	124 / 123						
122.4 / 8.2	**END OF BOREHOLE**										

Notes:
1) Borehole backfilled with bentonite upon completion.

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: + 3, × 3: Numbers refer to Sensitivity; ○ ε=3% Strain at Failure

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LOG OF BOREHOLE BH/MW20-10

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807872.675 E 600971.174

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/12/2020

REF. NO.: 20-186-100
ENCL NO.: 10

(m) ELEV / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS 0.3 m "N"	ELEVATION
130.4 / 0.0	**TOPSOIL**				
130.2 / 0.3	**SAND:** Brown, very moist, some silt.	1	SS	5	
129.6 / 0.9	**SANDY SILT:** Brown, very moist.	2	SS	13	
		3	SS	10	
128.1 / 2.3	**SILT:** Grey, very moist, some clay.	4	SS	17	
127.4 / 3.1	**SILT TO SANDY SILT:** Grey, very moist, trace clay.				
127.1 / 3.3	**SILTY CLAY TILL:** Grey, very moist, trace gravel.	5	SS	15	
126.6 / 3.8	**CLAYEY SILT TILL:** Grey, moist, trace gravel.	6	SS	17	
	Trace cobbles at 4.6m	7	SS	20	
125.1 / 5.3	**SAND AND GRAVEL:** Grey/brown, moist, trace cobbles and some silt.	8	SS	50 for 130mm	
124.3 / 6.1	**SANDY SILT TILL:** Grey, moist, trace gravel.	9	SS	50 for 150mm	
123.7 / 6.7	**END OF BOREHOLE**				

Notes:
1) Monitoring well installed at 4.3m.

2) Water Level Measurements:

Date:	Water Level (mbgs)
Aug.18, 2020	1.23

GROUND WATER CONDITIONS: bentonite; W. L. 129.2 masl Aug 18, 2020; sand screen; cave in

Soil Head Space Vapors: PID (ppm) 10 20 30 40; CGD (ppm) 10 20 30 40; 55

PLASTIC LIMIT w_P — NATURAL MOISTURE CONTENT w — LIQUID LIMIT w_L; WATER CONTENT (%) 10 20 30

POCKET PEN. (Cu) (kPa)

NATURAL UNIT WT (kN/m³)

METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%) — GR SA SI CL

Metals and OCPs

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: +³, ×³: Numbers refer to Sensitivity; ○ ε=3% Strain at Failure

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LOG OF BOREHOLE BH/MW20-11

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807990.65 E 600989.208

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/19/2020

REF. NO.: 20-186-100
ENCL NO.: 11

(m) ELEV / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS / 0.3 m ("N")	ELEVATION	PID (ppm)	CGD (ppm)	WATER CONTENT (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
129.7 / 0.0	**TOPSOIL**										M&I, PAHs and OCPs
0.1	**FILL:** Brown, moist, silty sand, trace gravel, some topsoil, rootlets.	1	SS	7	concrete						
128.9 / 0.9	**SANDY SILT:** Brown, wet.	2	SS	7	bentonite, 129						
128.2 / 1.5	**CLAYEY SILT TO SILTY CLAY:** Brown, very moist to wet.	3	SS	6	128						
127.4 / 2.3	**CLAY TILL:** Grey, very moist to wet, trace gravel and sand.	4	SS	7	sand, screen						
126.7 / 3.1	**SILTY CLAY TILL:** Grey, moist to very moist, trace gravel and sand.	5	SS	11	126						PHCs
125.9 / 3.8	**SANDY SILT TILL:** Brown, moist, tracel gravel and cobbles.	6	SS	50 for 5"							
	Reddish brown at 5m	7	SS	50 for 4"	125, bentonite, 124						
123.6 / 6.1	**END OF BOREHOLE**										

Notes:
1) Monitoring well installed at 5m.

2) Water Level Measurements:

Date:	Water Level (mbgs)
Aug.18, 2020	Dry

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: +³, ×³: Numbers refer to Sensitivity; ○ ε=3% Strain at Failure

DS ENVIRO 0-50 PPM-2016 20-186-100.GPJ DS.GDT 10/1/20

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LOG OF BOREHOLE BH20-12

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807905.668 E 600916.809

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/14/2020

REF. NO.: 20-186-100
ENCL NO.: 12

(m) ELEV / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS / 0.3 m "N"	GROUND WATER CONDITIONS	ELEVATION	PID (ppm)	CGD (ppm)	WATER CONTENT (%) w_P w w_L	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
131.5 / 0.0	**TOPSOIL**											Metals and OCPs
0.1	**SILTY SAND:** Trace gravel and cobbles, some rootlets, brown and moist.	1	SS	7		131			75			
130.7 / 0.8	**COARSE SAND AND GRAVEL:** Some silt, cobbles, brown, moist.	2	SS	7		130			60			
130.0 / 1.5	**SILTY SAND:** Bottom half sand, trace gravel, very moist to wet.	3	SS	10								
129.2 / 2.3	**SILTY SAND AND GRAVEL:** Brown, wet, some cobbles.	4	SS	8		129						
128.4 / 3.1	**SILTY CLAY TILL:** Tracel gravel, grey, very moist.	5	SS	9		128			80			
		6	SS	35		127			75			
125.4 / 6.1	**SILT TILL to SANDY SILT TILL:** Grey, very moist, some clay, trace gravel and cobbles.	7	SS	50 for 89mm		126 / 125			70			
124.8 / 6.7	**END OF BOREHOLE** Notes: 1) Borehole backfilled with bentonite upon completion.											

Soil Head Space Vapors

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES + 3, × 3: Numbers refer to Sensitivity ○ ε=3% Strain at Failure

DS ENVIRO 0-50 PPM-2016 20-186-100.GPJ DS.GDT 10/1/20

DS CONSULTANTS LTD.
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LOG OF BOREHOLE BH/MW20-13

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807816.248 E 600872.963

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/13/2020

REF. NO.: 20-186-100
ENCL NO.: 13

(m) ELEV / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS / 0.3 m "N"	ELEVATION	PID (ppm)	CGD (ppm)	WATER CONTENT (%)	METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%)
131.0									
130.9	**TOPSOIL**								Metals and OCPs
0.1	**SAND:** Brown, moist, some clay, trace gravel, cobbles and organics.	1	SS	3	bentonite				
130.2									
0.8	**SAND AND GRAVEL:** Brown, moist, some clay and cobbles.	2	SS	6	130				
	Wet, no clay at 1.5m	3	SS	7	W. L. 129.4 masl Aug 18, 2020				
128.7					129				
2.3	**SILTY CLAY TO CLAYEY SILT:** Brown, very moist to wet, trace gravel, cobbles and some sand.	4	SS	8	sand				
	Brown/slightly grey, very moist at 3m	5	SS	15	screen			65	
127.2									
3.8	**SILTY CLAY TILL:** Grey, very moist, trace gravel and cobbles.	6	SS	18	127				
	Moist, some clay, gravel and cobbles at 5m	7	SS	50 for 140mm	126			55	
125.6									
5.3	**SILTY TILL:** Grey, very moist, some clay, gravel and cobbles.	8	SS	50 for 130mm	caveid			60	
124.9					125				
6.1	**SANDY SILT TILL:** Grey, very moist, trace gravel, some clay.	9	SS	50 for 140mm				100	
124.3									
6.7	**END OF BOREHOLE**								

Notes:
1) Monitoring well installed at 4.6m.

2) Water Level Measurements:

Date:	Water Level (mbgs)
Aug. 18, 2020	1.55 mbgs

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES: + 3, × 3: Numbers refer to Sensitivity; ○ ε=3% Strain at Failure

DS ENVIRO 0-50 PPM-2016 20-186-100.GPJ DS.GDT 10/1/20

DS CONSULTANTS LTD.
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LOG OF BOREHOLE BH20-14

PROJECT: Phase Two Environmental Investigation
CLIENT: Argo Development
PROJECT LOCATION: 1300, 1316, 1326 and 1342 Bronte Road, Oakville, Ontario
DATUM: Geodetic
DRILLING COMPANY: N 4807755.918 E 600816.809

DRILLING DATA
Method: Hollow Stem Augers
Diameter: 200 mm
Date: Aug/13/2020

REF. NO.: 20-186-100
ENCL NO.: 14

(m) ELEV / DEPTH	DESCRIPTION	NUMBER	TYPE	BLOWS / 0.3 m ("N")	GROUND WATER CONDITIONS	ELEVATION	PID (ppm)	CGD (ppm)	WATER CONTENT (%) (PLASTIC LIMIT w_P, NATURAL MOISTURE CONTENT w, LIQUID LIMIT w_L)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	METHANE (ppm) AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL
130.6												
130.6 / 0.1	**TOPSOIL:**											Metals and OCPs
129.9	**SILTY SAND:** Brown, moist, some clay.	1	SS	5								
128.8	**SAND:** Brown, very moist to wet, some clay, trace gravel.	2	SS	2								
128.4	**CLAYEY SILT:** Brown, very moist.	3	SS	5								
127.6	**SANDY SILT TILL:** Brown, very moist to wet, trace gravel and some clay.	4	SS	10								
126.1	**SILT TO SILTY CLAY:** Grey, very moist to wet, trace gravel.	5	SS	7								
124.5	**SILTY SAND TILL:** Brown/grey, moist, some gravel and cobbles.	6	SS	75								
123.9	**SAND AND GRAVEL:** Brown/grey, moist, some silt and cobbles.	7	SS	66								
6.7	**END OF BOREHOLE**											

Notes:
1) Borehole backfilled with bentonite upon completion.

GROUNDWATER ELEVATIONS
Measurement 1st 2nd 3rd 4th

GRAPH NOTES
+ 3, × 3: Numbers refer to Sensitivity
○ ε=3% Strain at Failure

Particle Size Distribution (ASTM-D421/D422)

Silt and Clay		Sand			Gravel		Cobble +
Clay	Silt	Fine	Medium	Coarse	Fine	Coarse	

DS CONSULTANTS LTD.
6221 Highway 7, Unit 16
Vaughan, Ontario, L4H 0K8
Telephone: (905) 264-9393
www.dsconsultants.ca

Project	**Preliminary Geotechnical Investigation**	Project No	**20-186-100**
Location	**1326 Bronte Rd, Oakville, ON**	Date	**Aug/31/2020**
Client	**Argo Development**	Figure No	16

Appendix C

FINAL REPORT

CA14406-AUG20 R

20-186-100, Bronte Road

Prepared for

DS Consultants

FINAL REPORT

CA14406-AUG20 R

First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	DS Consultants	Project Specialist	Jill Campbell, B.Sc.,GISAS
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16 Vaughan, Ontario L4H 0K8. Canada	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Kirstin Olsen	Telephone	2165
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	jill.campbell@sgs.com
Email	kirstin.olsen@dsconsultants.ca	SGS Reference	CA14406-AUG20
Project	20-186-100, Bronte Road	Received	08/17/2020
Order Number		Approved	08/25/2020
Samples	soil (33)	Report Number	CA14406-AUG20 R
		Date Reported	08/25/2020

COMMENTS

CCME Method Compliance: Analyses were conducted using analytical procedures that comply with the Reference Method for the CWS for Petroleum Hydrocarbons in Soil and have been validated for use at the SGS laboratory, Lakefield, ON site.

Quality Compliance: Instrument performance / calibration quality criteria were met and extraction and analysis limits for holding times were met.

nC6 and nC10 response factors within 30% of response factor for toluene: YES

nC10, nC16 and nC34 response factors within 10% of the average response for the three compounds: YES

C50 response factors within 70% of nC10 + nC16 + nC34 average: YES

Linearity is within 15%: YES

F4G - gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
The results for F4 and F4G are both reported and the greater of the two values is to be used in application to the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

Benzo(b)fluoranthene results for comparison to the standard are reported as benzo(b+j)fluoranthene. Benzo(b)fluoranthene and benzo(j)fluoranthene co-elute and cannot be reported individually by the analytical method used.

Temperature of Sample upon Receipt: 7 degrees C
Cooling Agent Present:Yes
Custody Seal Present:Yes

Chain of Custody Number:N/A

CrVI may have a low bias as the soluble spike showed poor recovery. all other spikes and qc fine

SIGNATORIES

Jill Campbell, B.Sc.,GISAS

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Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - BTEX** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	9	10	13	15	19	20	21	22
				Sample Name	MW20-1 SS3	MW20-1 SS4	MW20-2 SS3	MW20-2 SS7	MW20-5 SS3	SDUP1	MW20-5 SS8	SDUP2
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
BTEX												
Benzene	µg/g	0.02	0.02	0.17	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ethylbenzene	µg/g	0.05	0.05	15	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	µg/g	0.05	0.2	6	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Xylene (total)	µg/g	0.05	0.05	25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
m/p-xylene	µg/g	0.05			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o-xylene	µg/g	0.05			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

PACKAGE: **REG153 - BTEX** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	29	37	38	39
				Sample Name	MW20-8 SS6	BH20-6 SS1 VOC's	BH20-12 SS5	BH20-13 SS9
				Sample Matrix	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**
BTEX								
Benzene	µg/g	0.02	0.02	0.17	< 0.02	< 0.02	< 0.02	< 0.02
Ethylbenzene	µg/g	0.05	0.05	15	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	µg/g	0.05	0.2	6	< 0.05	< 0.05	< 0.05	< 0.05
Xylene (total)	µg/g	0.05	0.05	25	< 0.05	< 0.05	< 0.05	< 0.05
m/p-xylene	µg/g	0.05			< 0.05	< 0.05	< 0.05	< 0.05
o-xylene	µg/g	0.05			< 0.05	< 0.05	< 0.05	< 0.05

FINAL REPORT

CA14406-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Hydrides** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	8	12	16	17	18	24	26	27
				Sample Name	MW20-1 SS1	MW20-2 SS1	MW20-3 SS1	BH20-4 SS1	MW20-5 SS1	BH20-6 SS1	BH20-7 SS1	SDUP4
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Hydrides												
Antimony	µg/g	0.8	1.3	7.5	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	µg/g	0.5	18	18	2.1	5.0	14	14	6.1	8.3	7.6	8.7
Selenium	µg/g	0.7	1.5	2.4	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7

PACKAGE: **REG153 - Hydrides** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	28	31	32	33	34	35	36	40
				Sample Name	MW20-8 SS1	BH20-9 SS1	MW20-10 SS1	SDUP5	BH20-12 SS1	MW20-13 SS1	BH20-14 SS1	SDUP6
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Hydrides												
Antimony	µg/g	0.8	1.3	7.5	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	µg/g	0.5	18	18	6.3	3.5	6.4	7.8	4.7	5.4	5.9	3.8
Selenium	µg/g	0.7	1.5	2.4	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	8	9	10	12	13	15	16	17
				Sample Name	MW20-1 SS1	MW20-1 SS3	MW20-1 SS4	MW20-2 SS1	MW20-2 SS3	MW20-2 SS7	MW20-3 SS1	BH20-4 SS1
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics												
Moisture Content	%	-			12.2	18.1	15.3	8.6	8.8	18.3	9.6	10.8
Barium	µg/g	0.1	220	390	26			64			41	62
Beryllium	µg/g	0.02	2.5	5	0.30			0.29			0.42	0.44

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	8	9	10	12	13	15	16	17
				Sample Name	MW20-1 SS1	MW20-1 SS3	MW20-1 SS4	MW20-2 SS1	MW20-2 SS3	MW20-2 SS7	MW20-3 SS1	BH20-4 SS1
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics (continued)												
Boron	µg/g	1	36	120	2			7			2	3
Cadmium	µg/g	0.02	1.2	1.2	0.08			0.22			0.10	0.18
Chromium	µg/g	0.5	70	160	10.0			11			11	13
Cobalt	µg/g	0.01	21	22	4.3			4.6			6.0	6.4
Copper	µg/g	0.1	92	180	9.7			24			22	25
Lead	µg/g	0.1	120	120	11			16			55	74
Molybdenum	µg/g	0.1	2	6.9	0.3			1.2			0.4	0.4
Nickel	µg/g	0.5	82	130	8.4			8.5			11	13
Silver	µg/g	0.05	0.5	25	< 0.05			< 0.05			< 0.05	< 0.05
Thallium	µg/g	0.02	1	1	0.08			0.09			0.10	0.10
Uranium	µg/g	0.002	2.5	23	0.30			0.70			0.41	0.41
Vanadium	µg/g	3	86	86	16			14			19	20
Zinc	µg/g	0.7	290	340	31			89			43	56
Water Soluble Boron	µg/g	0.5		1.5	< 0.5			< 0.5			< 0.5	< 0.5

FINAL REPORT

CA14406-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	18	19	20	21	22	24	25	26
				Sample Name	MW20-5 SS1	MW20-5 SS3	SDUP1	MW20-5 SS8	SDUP2	BH20-6 SS1	SDUP3	BH20-7 SS1
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics												
Moisture Content	%	-			10.4	10.6	11.2	10.2	8.3	10.3	10.7	13.3
Barium	µg/g	0.1	220	390	56					49		53
Beryllium	µg/g	0.02	2.5	5	0.39					0.39		0.46
Boron	µg/g	1	36	120	4					2		3
Cadmium	µg/g	0.02	1.2	1.2	0.15					0.13		0.10
Chromium	µg/g	0.5	70	160	13					12		13
Cobalt	µg/g	0.01	21	22	6.1					5.0		7.0
Copper	µg/g	0.1	92	180	25					22		22
Lead	µg/g	0.1	120	120	26					39		30
Molybdenum	µg/g	0.1	2	6.9	0.3					0.3		0.4
Nickel	µg/g	0.5	82	130	12					9.5		13
Silver	µg/g	0.05	0.5	25	< 0.05					< 0.05		< 0.05
Thallium	µg/g	0.02	1	1	0.08					0.09		0.11
Uranium	µg/g	0.002	2.5	23	0.38					0.43		0.50
Vanadium	µg/g	3	86	86	19					17		20
Zinc	µg/g	0.7	290	340	50					45		46
Water Soluble Boron	µg/g	0.5		1.5	< 0.5					< 0.5		< 0.5

FINAL REPORT

CA14406-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	27	28	29	31	32	33	34	35
				Sample Name	SDUP4	MW20-8 SS1	MW20-8 SS6	BH20-9 SS1	MW20-10 SS1	SDUP5	BH20-12 SS1	MW20-13 SS1
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics												
Moisture Content	%	-			11.4	14.5	8.3	10.3	11.0	10.2	8.0	12.2
Barium	µg/g	0.1	220	390	58	47		25	79	77	44	43
Beryllium	µg/g	0.02	2.5	5	0.48	0.42		0.31	0.64	0.53	0.51	0.42
Boron	µg/g	1	36	120	3	3		2	4	3	3	3
Cadmium	µg/g	0.02	1.2	1.2	0.15	0.11		0.05	0.14	0.19	0.12	0.12
Chromium	µg/g	0.5	70	160	14	11		9.1	21	16	14	12
Cobalt	µg/g	0.01	21	22	7.1	5.6		4.4	7.8	6.8	7.5	5.9
Copper	µg/g	0.1	92	180	25	22		13	40	31	30	25
Lead	µg/g	0.1	120	120	37	36		13	24	35	18	22
Molybdenum	µg/g	0.1	2	6.9	0.4	0.3		0.2	0.2	0.2	0.4	0.3
Nickel	µg/g	0.5	82	130	14	10		7.4	19	16	15	13
Silver	µg/g	0.05	0.5	25	< 0.05	< 0.05		< 0.05	0.06	< 0.05	< 0.05	< 0.05
Thallium	µg/g	0.02	1	1	0.11	0.08		0.07	0.11	0.11	0.11	0.09
Uranium	µg/g	0.002	2.5	23	0.51	0.38		0.48	0.49	0.41	0.47	0.37
Vanadium	µg/g	3	86	86	21	18		16	26	23	22	18
Zinc	µg/g	0.7	290	340	50	44		21	61	54	46	39
Water Soluble Boron	µg/g	0.5		1.5	< 0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

FINAL REPORT

CA14406-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	36	37	38	39	40
				Sample Name	BH20-14 SS1	BH20-6 SS1	BH20-12 SS5	BH20-13 SS9	SDUP6
						VOC's			
				Sample Matrix	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics									
Moisture Content	%	-			10.2	10.4	15.0	6.9	10.8
Barium	µg/g	0.1	220	390	49				27
Beryllium	µg/g	0.02	2.5	5	0.40				0.37
Boron	µg/g	1	36	120	3				2
Cadmium	µg/g	0.02	1.2	1.2	0.13				0.06
Chromium	µg/g	0.5	70	160	12				10
Cobalt	µg/g	0.01	21	22	4.8				4.9
Copper	µg/g	0.1	92	180	19				16
Lead	µg/g	0.1	120	120	32				14
Molybdenum	µg/g	0.1	2	6.9	0.2				0.2
Nickel	µg/g	0.5	82	130	11				8.7
Silver	µg/g	0.05	0.5	25	< 0.05				< 0.05
Thallium	µg/g	0.02	1	1	0.09				0.06
Uranium	µg/g	0.002	2.5	23	0.39				0.37
Vanadium	µg/g	3	86	86	16				17
Zinc	µg/g	0.7	290	340	38				24
Water Soluble Boron	µg/g	0.5		1.5	< 0.5				< 0.5

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	12	16	17	18	24	25	26	27
				Sample Name	MW20-2 SS1	MW20-3 SS1	BH20-4 SS1	MW20-5 SS1	BH20-6 SS1	SDUP3	BH20-7 SS1	SDUP4
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs)												
Aldrin	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
alpha-Chlordane	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
gamma-Chlordane	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chlordane (total)	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o,p-DDD	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDD	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
DDD (total)	µg/g	0.05	0.05	3.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o,p-DDE	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDE	µg/g	0.02			< 0.02	0.21	0.28	0.09	< 0.02	< 0.02	< 0.02	< 0.02
DDE (total)	µg/g	0.05	0.05	0.33	< 0.05	0.21	0.28	0.09	< 0.05	< 0.05	< 0.05	< 0.05
op-DDT	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDT	µg/g	0.02			< 0.02	0.04	0.08	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
DDT (total)	µg/g	0.05	1.4	1.4	< 0.05	< 0.05	0.08	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
gamma-BHC	µg/g	0.01	0.01	0.063	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Endosulfan I	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan II	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan (total)	µg/g	0.04	0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	µg/g	0.04	0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Heptachlor	µg/g	0.01	0.05	0.15	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor epoxide	µg/g	0.01	0.05	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	µg/g	0.01	0.01	0.52	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	12	16	17	18	24	25	26	27
				Sample Name	MW20-2 SS1	MW20-3 SS1	BH20-4 SS1	MW20-5 SS1	BH20-6 SS1	SDUP3	BH20-7 SS1	SDUP4
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)												
Hexachlorobutadiene	µg/g	0.01	0.01	0.014	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	µg/g	0.01	0.01	0.071	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	µg/g	0.05	0.05	0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	28	31	32	33	34	35	36
				Sample Name	MW20-8 SS1	BH20-9 SS1	MW20-10 SS1	SDUP5	BH20-12 SS1	MW20-13 SS1	BH20-14 SS1
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs)											
Aldrin	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
alpha-Chlordane	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
gamma-Chlordane	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chlordane (total)	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o,p-DDD	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDD	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
DDD (total)	µg/g	0.05	0.05	3.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o,p-DDE	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDE	µg/g	0.02			< 0.02	0.05	0.02	< 0.02	< 0.02	< 0.02	< 0.02
DDE (total)	µg/g	0.05	0.05	0.33	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
op-DDT	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	28	31	32	33	34	35	36
				Sample Name	MW20-8 SS1	BH20-9 SS1	MW20-10 SS1	SDUP5	BH20-12 SS1	MW20-13 SS1	BH20-14 SS1
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)											
pp-DDT	µg/g	0.02			< 0.02	0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
DDT (total)	µg/g	0.05	1.4	1.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
gamma-BHC	µg/g	0.01	0.01	0.063	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Endosulfan I	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan II	µg/g	0.02			< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan (total)	µg/g	0.04	0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	µg/g	0.04	0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Heptachlor	µg/g	0.01	0.05	0.15	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor epoxide	µg/g	0.01	0.05	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	µg/g	0.01	0.01	0.52	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	µg/g	0.01	0.01	0.014	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	µg/g	0.01	0.01	0.071	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	µg/g	0.05	0.05	0.13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

FINAL REPORT

CA14406-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Other (ORP)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	8	12	16	17	18	24	26	27
				Sample Name	MW20-1 SS1	MW20-2 SS1	MW20-3 SS1	BH20-4 SS1	MW20-5 SS1	BH20-6 SS1	BH20-7 SS1	SDUP4
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Other (ORP)												
Mercury	µg/g	0.05	0.27	1.8	< 0.05	< 0.05	0.07	0.10	< 0.05	< 0.05	< 0.05	< 0.05
Sodium Adsorption Ratio	No unit	0.2	2.4	5	0.2	0.3						
SAR Calcium	mg/L	0.09			9.7	28.9						
SAR Magnesium	mg/L	0.02			2.8	5.5						
SAR Sodium	mg/L	0.15			2.7	5.7						
Conductivity	mS/cm	0.002	0.57	0.7	0.07	0.24						
pH	pH Units	0.05			5.29	7.84						
Chromium VI	µg/g	0.2	0.66	10	< 0.2	< 0.2	0.3	0.3	< 0.2	0.2	0.5	0.3
Free Cyanide	µg/g	0.05	0.051	0.051	< 0.05	< 0.05						

FINAL REPORT

CA14406-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Other (ORP)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	28	31	32	33	34	35	36	40
				Sample Name	MW20-8 SS1	BH20-9 SS1	MW20-10 SS1	SDUP5	BH20-12 SS1	MW20-13 SS1	BH20-14 SS1	SDUP6
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Other (ORP)												
Mercury	µg/g	0.05	0.27	1.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Sodium Adsorption Ratio	No unit	0.2	2.4	5	< 0.2							
SAR Calcium	mg/L	0.09			26.1							
SAR Magnesium	mg/L	0.02			2.0							
SAR Sodium	mg/L	0.15			2.8							
Conductivity	mS/cm	0.002	0.57	0.7	0.16							
pH	pH Units	0.05			7.48							
Chromium VI	µg/g	0.2	0.66	10	< 0.2	0.3	0.2	0.2	0.3	0.2	< 0.2	0.2
Free Cyanide	µg/g	0.05	0.051	0.051	< 0.05							

FINAL REPORT

CA14406-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - PAHs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	9	13	21	22	29
				Sample Name	MW20-1 SS3	MW20-2 SS3	MW20-5 SS8	SDUP2	MW20-8 SS6
				Sample Matrix	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**
PAHs									
Acenaphthene	µg/g	0.05	0.072	58	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/g	0.05	0.093	0.17	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	µg/g	0.05	0.16	0.74	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/g	0.05	0.36	0.63	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	µg/g	0.05	0.3	0.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b+j)fluoranthene	µg/g	0.05	0.47	0.78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	µg/g	0.1	0.68	7.8	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	µg/g	0.05	0.48	0.78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	µg/g	0.05	2.8	7.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	µg/g	0.06	0.1	0.1	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06
Fluoranthene	µg/g	0.05	0.56	0.69	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/g	0.05	0.12	69	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.1	0.23	0.48	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
1-Methylnaphthalene	µg/g	0.05			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/g	0.05			< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methylnaphthalene, 2-(1-)	µg/g	0.05	0.59	3.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/g	0.05	0.09	0.75	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/g	0.05	0.69	7.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	µg/g	0.05	1	78	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Pesticides Surrogate** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	12	16	17	18	24	25	26	27
				Sample Name	MW20-2 SS1	MW20-3 SS1	BH20-4 SS1	MW20-5 SS1	BH20-6 SS1	SDUP3	BH20-7 SS1	SDUP4
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Pesticides Surrogate												
Surr Decachlorobiphenyl	Surr Rec %	-			99	110	108	108	110	105	107	107

PACKAGE: **REG153 - Pesticides Surrogate** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	28	31	32	33	34	35	36
				Sample Name	MW20-8 SS1	BH20-9 SS1	MW20-10 SS1	SDUP5	BH20-12 SS1	MW20-13 SS1	BH20-14 SS1
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Pesticides Surrogate											
Surr Decachlorobiphenyl	Surr Rec %	-			107	112	113	98	107	84	87

PACKAGE: **REG153 - PHCs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	9	13	19	20	21	22	29	37
				Sample Name	MW20-1 SS3	MW20-2 SS3	MW20-5 SS3	SDUP1	MW20-5 SS8	SDUP2	MW20-8 SS6	BH20-6 SS1 VOC's
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
PHCs												
F1 (C6-C10)	µg/g	10	25	65	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
F1-BTEX (C6-C10)	µg/g	10			< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
F2 (C10-C16)	µg/g	10	10	150	< 10	< 10	< 10	< 10	< 10	< 10	11	< 10
F3 (C16-C34)	µg/g	50	240	1300	< 50	< 50	< 50	< 50	< 50	< 50	50	< 50
F4 (C34-C50)	µg/g	50	120	5600	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Chromatogram returned to baseline at nC50	Yes / No	-			YES	YES	YES	YES	YES	YES	YES	YES

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - PHCs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	38	39
				Sample Name	BH20-12 SS5	BH20-13 SS9
				Sample Matrix	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**
PHCs						
F1 (C6-C10)	µg/g	10	25	65	< 10	< 10
F1-BTEX (C6-C10)	µg/g	10			< 10	< 10
F2 (C10-C16)	µg/g	10	10	150	< 10	< 10
F3 (C16-C34)	µg/g	50	240	1300	< 50	< 50
F4 (C34-C50)	µg/g	50	120	5600	< 50	< 50
Chromatogram returned to baseline at nC50	Yes / No	-			YES	YES

PACKAGE: **REG153 - SVOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	9	13	21	22	29
				Sample Name	MW20-1 SS3	MW20-2 SS3	MW20-5 SS8	SDUP2	MW20-8 SS6
				Sample Matrix	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**
SVOC Surrogates									
Surr Nitrobenzene-d5	Surr Rec %	-			72	70	68	62	63
Surr 2-Fluorobiphenyl	Surr Rec %	-			79	79	78	66	57
Surr 4-Terphenyl-d14	Surr Rec %	-			83	79	83	55	53
Surr 2-Fluorophenol	Surr Rec %	-			75	72	80	78	79
Surr Phenol-d6	Surr Rec %	-			81	76	81	79	80

FINAL REPORT

CA14406-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - THMs (VOC)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	10	15	37	38	39
				Sample Name	MW20-1 SS4	MW20-2 SS7	BH20-6 SS1	BH20-12 SS5	BH20-13 SS9
							VOC's		
				Sample Matrix	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**
THMs (VOC)									
Bromodichloromethane	µg/g	0.05	0.05	13	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Bromoform	µg/g	0.05	0.05	0.26	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibromochloromethane	µg/g	0.05	0.05	9.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

PACKAGE: **REG153 - VOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	10	12	15	16	17	18	24	25
				Sample Name	MW20-1 SS4	MW20-2 SS1	MW20-2 SS7	MW20-3 SS1	BH20-4 SS1	MW20-5 SS1	BH20-6 SS1	SDUP3
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOC Surrogates												
Surr 1,2-Dichloroethane-d4	Surr Rec %	-			98		98					
Surr 4-Bromofluorobenzene	Surr Rec %	-			93		93					
Surr 2-Bromo-1-Chloropropane	Surr Rec %	-			91		91					
Surr TCMX	Surr Rec %	-				91		93	90	89	93	88

Client: DS Consultants
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Samplers: Aidan Doak

PACKAGE: **REG153 - VOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED
L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	26	27	28	31	32	33	34	35
				Sample Name	BH20-7 SS1	SDUP4	MW20-8 SS1	BH20-9 SS1	MW20-10 SS1	SDUP5	BH20-12 SS1	MW20-13 SS1
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOC Surrogates												
Surr TCMX	Surr Rec %	-			90	91	92	96	96	87	95	76

PACKAGE: **REG153 - VOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED
L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	36	37	38	39
				Sample Name	BH20-14 SS1	BH20-6 SS1 VOC's	BH20-12 SS5	BH20-13 SS9
				Sample Matrix	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**
VOC Surrogates								
Surr 1,2-Dichloroethane-d4	Surr Rec %	-				98	98	98
Surr 4-Bromofluorobenzene	Surr Rec %	-				94	93	94
Surr 2-Bromo-1-Chloropropane	Surr Rec %	-				91	91	91
Surr TCMX	Surr Rec %	-			76			

PACKAGE: **REG153 - VOCs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED
L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	10	15	37	38	39
				Sample Name	MW20-1 SS4	MW20-2 SS7	BH20-6 SS1 VOC's	BH20-12 SS5	BH20-13 SS9
				Sample Matrix	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**
VOCs									
Acetone	µg/g	0.5	0.5	28	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Bromomethane	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Carbon tetrachloride	µg/g	0.05	0.05	0.12	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Client: DS Consultants
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PACKAGE: **REG153 - VOCs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	10	15	37	38	39
				Sample Name	MW20-1 SS4	MW20-2 SS7	BH20-6 SS1	BH20-12 SS5	BH20-13 SS9
							VOC's		
				Sample Matrix	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**
VOCs (continued)									
Chlorobenzene	µg/g	0.05	0.05	2.7	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chloroform	µg/g	0.05	0.05	0.18	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/g	0.05	0.05	4.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/g	0.05	0.05	6	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/g	0.05	0.05	0.097	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dichlorodifluoromethane	µg/g	0.05	0.05	25	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloroethane	µg/g	0.05	0.05	11	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloroethylene	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
trans-1,2-Dichloroethylene	µg/g	0.05	0.05	0.75	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
cis-1,2-Dichloroethylene	µg/g	0.05	0.05	30	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloropropane	µg/g	0.05	0.05	0.085	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
cis-1,3-dichloropropene	µg/g	0.03			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
trans-1,3-dichloropropene	µg/g	0.03			< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
1,3-dichloropropene (total)	µg/g	0.05	0.05	0.083	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ethylenedibromide	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
n-Hexane	µg/g	0.05	0.05	34	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methyl ethyl ketone	µg/g	0.5	0.5	44	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl isobutyl ketone	µg/g	0.5	0.5	4.3	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Methyl-t-butyl Ether	µg/g	0.05	0.05	1.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methylene Chloride	µg/g	0.05	0.05	0.96	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Styrene	µg/g	0.05	0.05	2.2	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethylene	µg/g	0.05	0.05	2.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - VOCs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED

				Sample Number	10	15	37	38	39
				Sample Name	MW20-1 SS4	MW20-2 SS7	BH20-6 SS1	BH20-12 SS5	BH20-13 SS9
							VOC's		
				Sample Matrix	soil	soil	soil	soil	soil
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**	**Result**	**Result**
VOCs (continued)									
1,1,1,2-Tetrachloroethane	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1-Trichloroethane	µg/g	0.05	0.05	3.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2-Trichloroethane	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethylene	µg/g	0.05	0.05	0.52	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Trichlorofluoromethane	µg/g	0.05	0.25	5.8	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Vinyl Chloride	µg/g	0.02	0.02	0.022	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

EXCEEDANCE SUMMARY

Parameter	Method	Units	Result	REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED L1	REG153 / SOIL / FINE - TABLE 3 - Residential/Parkland - UNDEFINED L2
MW20-3 SS1					
DDE	EPA 3541/8270D	µg/g	0.21	0.05	
BH20-4 SS1					
DDE	EPA 3541/8270D	µg/g	0.28	0.05	
MW20-5 SS1					
DDE	EPA 3541/8270D	µg/g	0.09	0.05	
MW20-8 SS6					
F2 (C10 to C16)	CCME Tier 1	µg/g	11	10	

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Conductivity								
Method: EPA 6010/SM 2510 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-006								
MW20-1 SS1	EWL0240-AUG20	8		08/17/2020	08/19/2020	08/19/2020		08/19/2020
MW20-2 SS1	EWL0240-AUG20	12		08/17/2020	08/19/2020	08/19/2020		08/19/2020
MW20-8 SS1	EWL0240-AUG20	28		08/17/2020	08/19/2020	08/19/2020		08/19/2020
Cyanide by SFA								
Method: SM 4500 | Internal ref.: ME-CA-[ENV]SFA-LAK-AN-005								
MW20-1 SS1	SKA5062-AUG20	8		08/17/2020	08/18/2020	08/19/2020		08/24/2020
MW20-2 SS1	SKA5062-AUG20	12		08/17/2020	08/18/2020	08/19/2020		08/24/2020
MW20-8 SS1	SKA5062-AUG20	28		08/17/2020	08/18/2020	08/19/2020		08/24/2020
Hexavalent Chromium by SFA								
Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012								
MW20-1 SS1	SKA5080-AUG20	8		08/17/2020	08/22/2020	08/24/2020		08/24/2020
MW20-2 SS1	SKA5080-AUG20	12		08/17/2020	08/22/2020	08/24/2020		08/24/2020
MW20-3 SS1	SKA5080-AUG20	16		08/17/2020	08/22/2020	08/24/2020		08/24/2020
BH20-4 SS1	SKA5080-AUG20	17		08/17/2020	08/22/2020	08/24/2020		08/24/2020
MW20-5 SS1	SKA5080-AUG20	18		08/17/2020	08/22/2020	08/24/2020		08/24/2020
BH20-6 SS1	SKA5080-AUG20	24		08/17/2020	08/22/2020	08/24/2020		08/24/2020
BH20-7 SS1	SKA5080-AUG20	26		08/17/2020	08/22/2020	08/24/2020		08/24/2020
SDUP4	SKA5080-AUG20	27		08/17/2020	08/22/2020	08/24/2020		08/24/2020
MW20-8 SS1	SKA5080-AUG20	28		08/17/2020	08/22/2020	08/24/2020		08/24/2020
BH20-9 SS1	SKA5080-AUG20	31		08/17/2020	08/22/2020	08/24/2020		08/24/2020
MW20-10 SS1	SKA5080-AUG20	32		08/17/2020	08/22/2020	08/24/2020		08/24/2020
SDUP5	SKA5080-AUG20	33		08/17/2020	08/22/2020	08/24/2020		08/24/2020
BH20-12 SS1	SKA5080-AUG20	34		08/17/2020	08/22/2020	08/24/2020		08/24/2020
MW20-13 SS1	SKA5080-AUG20	35		08/17/2020	08/22/2020	08/24/2020		08/24/2020
BH20-14 SS1	SKA5080-AUG20	36		08/17/2020	08/22/2020	08/24/2020		08/24/2020
SDUP6	SKA5080-AUG20	40		08/17/2020	08/22/2020	08/24/2020		08/24/2020
Mercury by CVAAS								
Method: EPA 7471A/EPA 245 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-004								
MW20-1 SS1	EMS0113-AUG20	8		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-2 SS1	EMS0113-AUG20	12		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-3 SS1	EMS0113-AUG20	16		08/17/2020	08/19/2020	08/19/2020		08/20/2020
BH20-4 SS1	EMS0113-AUG20	17		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-5 SS1	EMS0113-AUG20	18		08/17/2020	08/19/2020	08/19/2020		08/20/2020
BH20-6 SS1	EMS0113-AUG20	24		08/17/2020	08/19/2020	08/19/2020		08/20/2020
BH20-7 SS1	EMS0113-AUG20	26		08/17/2020	08/19/2020	08/19/2020		08/20/2020
SDUP4	EMS0113-AUG20	27		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-8 SS1	EMS0113-AUG20	28		08/17/2020	08/19/2020	08/19/2020		08/20/2020

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Mercury by CVAAS (continued)								
Method: EPA 7471A/EPA 245 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-004								
BH20-9 SS1	EMS0113-AUG20	31		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-10 SS1	EMS0113-AUG20	32		08/17/2020	08/19/2020	08/19/2020		08/20/2020
SDUP5	EMS0113-AUG20	33		08/17/2020	08/19/2020	08/19/2020		08/20/2020
BH20-12 SS1	EMS0113-AUG20	34		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-13 SS1	EMS0113-AUG20	35		08/17/2020	08/19/2020	08/19/2020		08/20/2020
BH20-14 SS1	EMS0113-AUG20	36		08/17/2020	08/19/2020	08/19/2020		08/20/2020
SDUP6	EMS0113-AUG20	40		08/17/2020	08/19/2020	08/19/2020		08/20/2020
Metals in aqueous samples - ICP-OES								
Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-003								
MW20-1 SS1	ESG0059-AUG20	8		08/17/2020	08/19/2020	08/19/2020		08/19/2020
MW20-2 SS1	ESG0059-AUG20	12		08/17/2020	08/19/2020	08/19/2020		08/19/2020
MW20-8 SS1	ESG0059-AUG20	28		08/17/2020	08/19/2020	08/19/2020		08/19/2020
Metals in Soil - Aqua-regia/ICP-MS								
Method: EPA 3050/EPA 200.8 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-005								
MW20-1 SS1	EMS0113-AUG20	8		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-2 SS1	EMS0113-AUG20	12		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-3 SS1	EMS0113-AUG20	16		08/17/2020	08/19/2020	08/19/2020		08/20/2020
BH20-4 SS1	EMS0113-AUG20	17		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-5 SS1	EMS0113-AUG20	18		08/17/2020	08/19/2020	08/19/2020		08/20/2020
BH20-6 SS1	EMS0113-AUG20	24		08/17/2020	08/19/2020	08/19/2020		08/20/2020
BH20-7 SS1	EMS0113-AUG20	26		08/17/2020	08/19/2020	08/19/2020		08/20/2020
SDUP4	EMS0113-AUG20	27		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-8 SS1	EMS0113-AUG20	28		08/17/2020	08/19/2020	08/19/2020		08/20/2020
BH20-9 SS1	EMS0113-AUG20	31		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-10 SS1	EMS0113-AUG20	32		08/17/2020	08/19/2020	08/19/2020		08/20/2020
SDUP5	EMS0113-AUG20	33		08/17/2020	08/19/2020	08/19/2020		08/20/2020
BH20-12 SS1	EMS0113-AUG20	34		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-13 SS1	EMS0113-AUG20	35		08/17/2020	08/19/2020	08/19/2020		08/20/2020
BH20-14 SS1	EMS0113-AUG20	36		08/17/2020	08/19/2020	08/19/2020		08/20/2020
SDUP6	EMS0113-AUG20	40		08/17/2020	08/19/2020	08/19/2020		08/20/2020
Moisture								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-1 SS1	GCM0303-AUG20	8		08/17/2020	08/21/2020	08/21/2020		08/20/2020
MW20-1 SS3	GCM0303-AUG20	9		08/17/2020	08/21/2020	08/21/2020		08/20/2020
MW20-1 SS4	GCM0303-AUG20	10		08/17/2020	08/21/2020	08/21/2020		08/20/2020
MW20-2 SS1	GCM0303-AUG20	12		08/17/2020	08/21/2020	08/21/2020		08/20/2020
MW20-2 SS3	GCM0303-AUG20	13		08/17/2020	08/21/2020	08/21/2020		08/20/2020

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Moisture (continued)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-2 SS7	GCM0303-AUG20	15		08/17/2020	08/21/2020	08/21/2020		08/20/2020
MW20-3 SS1	GCM0303-AUG20	16		08/17/2020	08/21/2020	08/21/2020		08/20/2020
BH20-4 SS1	GCM0303-AUG20	17		08/17/2020	08/21/2020	08/21/2020		08/20/2020
MW20-5 SS1	GCM0303-AUG20	18		08/17/2020	08/21/2020	08/21/2020		08/20/2020
MW20-5 SS3	GCM0303-AUG20	19		08/17/2020	08/21/2020	08/21/2020		08/20/2020
SDUP1	GCM0303-AUG20	20		08/17/2020	08/21/2020	08/21/2020		08/20/2020
MW20-5 SS8	GCM0303-AUG20	21		08/17/2020	08/21/2020	08/21/2020		08/20/2020
SDUP2	GCM0303-AUG20	22		08/17/2020	08/21/2020	08/21/2020		08/20/2020
BH20-6 SS1	GCM0303-AUG20	24		08/17/2020	08/21/2020	08/21/2020		08/20/2020
SDUP3	GCM0303-AUG20	25		08/17/2020	08/21/2020	08/21/2020		08/20/2020
BH20-7 SS1	GCM0303-AUG20	26		08/17/2020	08/21/2020	08/21/2020		08/20/2020
SDUP4	GCM0303-AUG20	27		08/17/2020	08/21/2020	08/21/2020		08/20/2020
MW20-8 SS1	GCM0303-AUG20	28		08/17/2020	08/21/2020	08/21/2020		08/20/2020
MW20-8 SS6	GCM0303-AUG20	29		08/17/2020	08/21/2020	08/21/2020		08/20/2020
BH20-9 SS1	GCM0303-AUG20	31		08/17/2020	08/21/2020	08/21/2020		08/20/2020
MW20-10 SS1	GCM0303-AUG20	32		08/17/2020	08/21/2020	08/21/2020		08/20/2020
SDUP5	GCM0303-AUG20	33		08/17/2020	08/21/2020	08/21/2020		08/20/2020
BH20-12 SS1	GCM0303-AUG20	34		08/17/2020	08/21/2020	08/21/2020		08/20/2020
MW20-13 SS1	GCM0303-AUG20	35		08/17/2020	08/21/2020	08/21/2020		08/20/2020
BH20-14 SS1	GCM0303-AUG20	36		08/17/2020	08/21/2020	08/21/2020		08/20/2020
BH20-6 SS1 VOC's	GCM0303-AUG20	37		08/17/2020	08/21/2020	08/21/2020		08/20/2020
BH20-12 SS5	GCM0303-AUG20	38		08/17/2020	08/21/2020	08/21/2020		08/20/2020
BH20-13 SS9	GCM0303-AUG20	39		08/17/2020	08/21/2020	08/21/2020		08/20/2020
SDUP6	GCM0303-AUG20	40		08/17/2020	08/21/2020	08/21/2020		08/20/2020
Pesticides								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-018								
MW20-2 SS1	GCM0378-AUG20	12		08/17/2020	08/22/2020	08/24/2020		08/25/2020
MW20-3 SS1	GCM0378-AUG20	16		08/17/2020	08/22/2020	08/24/2020		08/25/2020
BH20-4 SS1	GCM0378-AUG20	17		08/17/2020	08/22/2020	08/24/2020		08/25/2020
MW20-5 SS1	GCM0378-AUG20	18		08/17/2020	08/22/2020	08/24/2020		08/25/2020
BH20-6 SS1	GCM0378-AUG20	24		08/17/2020	08/22/2020	08/24/2020		08/25/2020
SDUP3	GCM0378-AUG20	25		08/17/2020	08/22/2020	08/24/2020		08/25/2020
BH20-7 SS1	GCM0378-AUG20	26		08/17/2020	08/22/2020	08/24/2020		08/25/2020
SDUP4	GCM0378-AUG20	27		08/17/2020	08/22/2020	08/24/2020		08/25/2020
MW20-8 SS1	GCM0378-AUG20	28		08/17/2020	08/22/2020	08/24/2020		08/25/2020
BH20-9 SS1	GCM0378-AUG20	31		08/17/2020	08/22/2020	08/24/2020		08/25/2020
MW20-10 SS1	GCM0378-AUG20	32		08/17/2020	08/22/2020	08/24/2020		08/25/2020
SDUP5	GCM0378-AUG20	33		08/17/2020	08/22/2020	08/24/2020		08/25/2020

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Pesticides (continued)								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-018								
BH20-12 SS1	GCM0378-AUG20	34		08/17/2020	08/22/2020	08/24/2020		08/25/2020
MW20-13 SS1	GCM0378-AUG20	35		08/17/2020	08/22/2020	08/24/2020		08/25/2020
BH20-14 SS1	GCM0378-AUG20	36		08/17/2020	08/22/2020	08/24/2020		08/25/2020
Petroleum Hydrocarbons (F1)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-1 SS3	GCM0291-AUG20	9		08/17/2020	08/21/2020	08/21/2020		08/21/2020
MW20-2 SS3	GCM0291-AUG20	13		08/17/2020	08/21/2020	08/21/2020		08/21/2020
MW20-5 SS3	GCM0291-AUG20	19		08/17/2020	08/21/2020	08/21/2020		08/21/2020
SDUP1	GCM0291-AUG20	20		08/17/2020	08/21/2020	08/21/2020		08/21/2020
MW20-5 SS8	GCM0291-AUG20	21		08/17/2020	08/21/2020	08/21/2020		08/21/2020
SDUP2	GCM0291-AUG20	22		08/17/2020	08/21/2020	08/21/2020		08/21/2020
MW20-8 SS6	GCM0291-AUG20	29		08/17/2020	08/21/2020	08/21/2020		08/21/2020
BH20-6 SS1 VOC's	GCM0291-AUG20	37		08/17/2020	08/21/2020	08/21/2020		08/21/2020
BH20-12 SS5	GCM0291-AUG20	38		08/17/2020	08/21/2020	08/21/2020		08/21/2020
BH20-13 SS9	GCM0291-AUG20	39		08/17/2020	08/21/2020	08/21/2020		08/21/2020
Petroleum Hydrocarbons (F2-F4)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-1 SS3	GCM0365-AUG20	9		08/17/2020	08/21/2020	08/21/2020		08/25/2020
MW20-2 SS3	GCM0365-AUG20	13		08/17/2020	08/21/2020	08/21/2020		08/25/2020
MW20-5 SS3	GCM0365-AUG20	19		08/17/2020	08/21/2020	08/21/2020		08/25/2020
SDUP1	GCM0365-AUG20	20		08/17/2020	08/21/2020	08/21/2020		08/25/2020
MW20-5 SS8	GCM0365-AUG20	21		08/17/2020	08/21/2020	08/21/2020		08/25/2020
SDUP2	GCM0365-AUG20	22		08/17/2020	08/21/2020	08/21/2020		08/25/2020
MW20-8 SS6	GCM0365-AUG20	29		08/17/2020	08/21/2020	08/21/2020		08/25/2020
BH20-6 SS1 VOC's	GCM0365-AUG20	37		08/17/2020	08/21/2020	08/21/2020		08/25/2020
BH20-12 SS5	GCM0365-AUG20	38		08/17/2020	08/21/2020	08/21/2020		08/25/2020
BH20-13 SS9	GCM0365-AUG20	39		08/17/2020	08/21/2020	08/21/2020		08/25/2020
pH								
Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-001								
MW20-1 SS1	ARD0067-AUG20	8		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-2 SS1	ARD0067-AUG20	12		08/17/2020	08/19/2020	08/19/2020		08/20/2020
MW20-8 SS1	ARD0067-AUG20	28		08/17/2020	08/19/2020	08/19/2020		08/20/2020
Semi-Volatile Organics								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-005								
MW20-1 SS3	GCM0333-AUG20	9		08/17/2020	08/20/2020	08/20/2020		08/21/2020
MW20-2 SS3	GCM0333-AUG20	13		08/17/2020	08/20/2020	08/20/2020		08/21/2020

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Semi-Volatile Organics (continued)								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-005								
MW20-5 SS8	GCM0333-AUG20	21		08/17/2020	08/20/2020	08/20/2020		08/21/2020
SDUP2	GCM0333-AUG20	22		08/17/2020	08/20/2020	08/20/2020		08/21/2020
MW20-8 SS6	GCM0333-AUG20	29		08/17/2020	08/20/2020	08/20/2020		08/21/2020
Sodium adsorption ratio (SAR)								
Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-[ENV]ARD-LAK-AN-021								
MW20-1 SS1	ESG0059-AUG20	8		08/17/2020	08/19/2020	08/19/2020		08/19/2020
MW20-2 SS1	ESG0059-AUG20	12		08/17/2020	08/19/2020	08/19/2020		08/19/2020
MW20-8 SS1	ESG0059-AUG20	28		08/17/2020	08/19/2020	08/19/2020		08/19/2020
Volatile Organics								
Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-[ENV]GC-LAK-AN-004								
MW20-1 SS3	GCM0290-AUG20	9		08/17/2020	08/19/2020	08/19/2020		08/21/2020
MW20-1 SS4	GCM0290-AUG20	10		08/17/2020	08/19/2020	08/19/2020		08/21/2020
MW20-2 SS3	GCM0290-AUG20	13		08/17/2020	08/19/2020	08/19/2020		08/21/2020
MW20-2 SS7	GCM0290-AUG20	15		08/17/2020	08/19/2020	08/19/2020		08/21/2020
MW20-5 SS3	GCM0290-AUG20	19		08/17/2020	08/19/2020	08/19/2020		08/21/2020
SDUP1	GCM0290-AUG20	20		08/17/2020	08/19/2020	08/19/2020		08/21/2020
MW20-5 SS8	GCM0290-AUG20	21		08/17/2020	08/19/2020	08/19/2020		08/21/2020
SDUP2	GCM0290-AUG20	22		08/17/2020	08/19/2020	08/19/2020		08/21/2020
MW20-8 SS6	GCM0290-AUG20	29		08/17/2020	08/19/2020	08/19/2020		08/21/2020
BH20-6 SS1 VOC's	GCM0290-AUG20	37		08/17/2020	08/19/2020	08/19/2020		08/21/2020
BH20-12 SS5	GCM0290-AUG20	38		08/17/2020	08/19/2020	08/19/2020		08/21/2020
BH20-13 SS9	GCM0290-AUG20	39		08/17/2020	08/19/2020	08/19/2020		08/21/2020
Water Soluble Boron								
Method: O.Reg. 15 3/04 | Internal ref.: ME-CA-[ENV] SPE-LAK-AN-003								
MW20-1 SS1	ESG0056-AUG20	8		08/17/2020	08/19/2020	08/19/2020		08/19/2020
MW20-2 SS1	ESG0056-AUG20	12		08/17/2020	08/19/2020	08/19/2020		08/19/2020
MW20-3 SS1	ESG0056-AUG20	16		08/17/2020	08/19/2020	08/19/2020		08/19/2020
BH20-4 SS1	ESG0056-AUG20	17		08/17/2020	08/19/2020	08/19/2020		08/19/2020
MW20-5 SS1	ESG0056-AUG20	18		08/17/2020	08/19/2020	08/19/2020		08/19/2020
BH20-6 SS1	ESG0056-AUG20	24		08/17/2020	08/19/2020	08/19/2020		08/19/2020
BH20-7 SS1	ESG0056-AUG20	26		08/17/2020	08/19/2020	08/19/2020		08/19/2020
SDUP4	ESG0056-AUG20	27		08/17/2020	08/19/2020	08/19/2020		08/19/2020
MW20-8 SS1	ESG0056-AUG20	28		08/17/2020	08/19/2020	08/19/2020		08/19/2020
BH20-9 SS1	ESG0056-AUG20	31		08/17/2020	08/19/2020	08/19/2020		08/19/2020
MW20-10 SS1	ESG0056-AUG20	32		08/17/2020	08/19/2020	08/19/2020		08/19/2020
SDUP5	ESG0056-AUG20	33		08/17/2020	08/19/2020	08/19/2020		08/19/2020
BH20-12 SS1	ESG0056-AUG20	34		08/17/2020	08/19/2020	08/19/2020		08/19/2020

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Water Soluble Boron (continued)								
Method: O.Reg. 15 3/04 | Internal ref.: ME-CA-[ENV] SPE-LAK-AN-003								
MW20-13 SS1	ESG0056-AUG20	35		08/17/2020	08/19/2020	08/19/2020		08/19/2020
BH20-14 SS1	ESG0056-AUG20	36		08/17/2020	08/19/2020	08/19/2020		08/19/2020
SDUP6	ESG0056-AUG20	40		08/17/2020	08/19/2020	08/19/2020		08/19/2020

QC SUMMARY

Conductivity

Method: EPA 6010/SM 2510 I Internal ref.: ME-CA-IENVIEWL-LAK-AN-006

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Conductivity	EWL0240-AUG20	mS/cm	0.002	<0.002	1	10	96	90	110	NA		

Cyanide by SFA

Method: SM 4500 I Internal ref.: ME-CA-IENVISFA-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Free Cyanide	SKA5062-AUG20	µg/g	0.05	<0.05	ND	20	95	80	120	79	75	125

Hexavalent Chromium by SFA

Method: EPA218.6/EPA3060A I Internal ref.: ME-CA-IENVISKA-LAK-AN-012

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Chromium VI	SKA5080-AUG20	ug/g	0.2	<0.2	ND	20	92	80	120	72	75	125

QC SUMMARY

Mercury by CVAAS

Method: EPA 7471A/EPA 245 | Internal ref.: ME-CA-IENVISPE-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Mercury	EMS0113-AUG20	µg/g	0.05	<0.05	ND	20	105	80	120	95	70	130

Metals in aqueous samples - ICP-OES

Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-IENVISPE-LAK-AN-003

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
SAR Calcium	ESG0059-AUG20	mg/L	0.09	<0.09	18	20	102	80	120	99	70	130
SAR Magnesium	ESG0059-AUG20	mg/L	0.02	<0.02	4	20	96	80	120	98	70	130
SAR Sodium	ESG0059-AUG20	mg/L	0.15	<0.15	5	20	99	80	120	104	70	130

QC SUMMARY

Metals in Soil - Aqua-regia/ICP-MS

Method: EPA 3050/EPA 200.8 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Silver	EMS0113-AUG20	ug/g	0.05	<0.05	ND	20	108	70	130	105	70	130
Arsenic	EMS0113-AUG20	µg/g	0.5	<0.5	2	20	104	70	130	85	70	130
Barium	EMS0113-AUG20	ug/g	0.1	<0.1	7	20	109	70	130	100	70	130
Beryllium	EMS0113-AUG20	µg/g	0.02	<0.02	6	20	102	70	130	103	70	130
Boron	EMS0113-AUG20	µg/g	1	<1	3	20	93	70	130	94	70	130
Cadmium	EMS0113-AUG20	µg/g	0.02	<0.02	ND	20	97	70	130	105	70	130
Cobalt	EMS0113-AUG20	µg/g	0.01	<0.01	6	20	97	70	130	112	70	130
Chromium	EMS0113-AUG20	µg/g	0.5	<0.5	0	20	99	70	130	115	70	130
Copper	EMS0113-AUG20	µg/g	0.1	<0.1	4	20	99	70	130	119	70	130
Molybdenum	EMS0113-AUG20	µg/g	0.1	<0.1	17	20	103	70	130	109	70	130
Nickel	EMS0113-AUG20	ug/g	0.5	<0.5	7	20	98	70	130	106	70	130
Lead	EMS0113-AUG20	µg/g	0.1	<0.1	10	20	103	70	130	99	70	130
Antimony	EMS0113-AUG20	µg/g	0.8	<0.8	ND	20	108	70	130	100	70	130
Selenium	EMS0113-AUG20	µg/g	0.7	<0.7	ND	20	102	70	130	98	70	130
Thallium	EMS0113-AUG20	µg/g	0.02	<0.02	7	20	106	70	130	103	70	130
Uranium	EMS0113-AUG20	µg/g	0.002	<0.002	0	20	100	70	130	93	70	130
Vanadium	EMS0113-AUG20	µg/g	3	<3	1	20	98	70	130	108	70	130
Zinc	EMS0113-AUG20	µg/g	0.7	<0.7	12	20	98	70	130	102	70	130

QC SUMMARY

Pesticides

Method: EPA 3541/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-018

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Hexachloroethane	GCM0378-AUG20	µg/g	0.01	< 0.01	ND	40	91	50	140	88	50	140
Methoxychlor	GCM0378-AUG20	µg/g	0.05	< 0.05	ND	40	96	50	140	104	50	140
o,p-DDD	GCM0378-AUG20	µg/g	0.02	< 0.02	ND	40	89	50	140	90	50	140
o,p-DDE	GCM0378-AUG20	µg/g	0.02	< 0.02	ND	40	93	50	140	91	50	140
op-DDT	GCM0378-AUG20	µg/g	0.02	< 0.02	ND	40	87	50	140	85	50	140
pp-DDD	GCM0378-AUG20	µg/g	0.02	< 0.02	ND	40	87	50	140	91	50	140
pp-DDE	GCM0378-AUG20	µg/g	0.02	< 0.02	ND	40	92	50	140	93	50	140
pp-DDT	GCM0378-AUG20	µg/g	0.02	< 0.02	ND	40	93	50	140	95	50	140
Endrin	GCM0378-AUG20	µg/g	0.04	< 0.04	ND	40	94	50	140	101	50	140
Aldrin	GCM0378-AUG20	µg/g	0.05	< 0.05	ND	40	90	50	140	90	50	140
alpha-Chlordane	GCM0378-AUG20	µg/g	0.02	< 0.02	ND	40	91	50	140	89	50	140
Dieldrin	GCM0378-AUG20	µg/g	0.05	< 0.05	ND	40	92	50	140	94	50	140
Endosulfan I	GCM0378-AUG20	µg/g	0.02	< 0.02	ND	40	90	50	140	107	50	140
Endosulfan II	GCM0378-AUG20	µg/g	0.02	< 0.02	ND	40	88	50	140	87	50	140
gamma-BHC	GCM0378-AUG20	µg/g	0.01	< 0.01	ND	40	92	50	140	92	50	140
gamma-Chlordane	GCM0378-AUG20	µg/g	0.02	< 0.02	ND	40	91	50	140	88	50	140
Heptachlor epoxide	GCM0378-AUG20	µg/g	0.01	< 0.01	ND	40	91	50	140	89	50	140
Heptachlor	GCM0378-AUG20	µg/g	0.01	< 0.01	ND	40	89	50	140	91	50	140
Hexachlorobenzene	GCM0378-AUG20	µg/g	0.01	< 0.01	ND	40	92	50	140	89	50	140
Hexachlorobutadiene	GCM0378-AUG20	µg/g	0.01	< 0.01	ND	40	92	50	140	89	50	140

QC SUMMARY

Petroleum Hydrocarbons (F1)

Method: CCME Tier 1 I Internal ref.: ME-CA-IENVIGC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F1 (C6-C10)	GCM0291-AUG20	µg/g	10	<10	ND	30	106	80	120	94	60	140

Petroleum Hydrocarbons (F2-F4)

Method: CCME Tier 1 I Internal ref.: ME-CA-IENVIGC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F2 (C10-C16)	GCM0365-AUG20	µg/g	10	<10	0	30	101	80	120	105	60	140
F3 (C16-C34)	GCM0365-AUG20	µg/g	50	<50	0	30	101	80	120	105	60	140
F4 (C34-C50)	GCM0365-AUG20	µg/g	50	<50	2	30	101	80	120	105	60	140

QC SUMMARY

pH

Method: SM 4500 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-001

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
pH	ARD0067-AUG20	pH Units	0.05		0	20	100	80	120			

QC SUMMARY

Semi-Volatile Organics

Method: EPA 3541/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
1-Methylnaphthalene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	84	50	140	86	50	140
2-Methylnaphthalene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	82	50	140	86	50	140
Acenaphthene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	79	50	140	81	50	140
Acenaphthylene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	80	50	140	82	50	140
Anthracene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	81	50	140	80	50	140
Benzo(a)anthracene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	78	50	140	80	50	140
Benzo(a)pyrene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	78	50	140	85	50	140
Benzo(b+j)fluoranthene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	77	50	140	81	50	140
Benzo(ghi)perylene	GCM0333-AUG20	µg/g	0.1	< 0.1	ND	40	76	50	140	78	50	140
Benzo(k)fluoranthene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	80	50	140	84	50	140
Chrysene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	81	50	140	81	50	140
Dibenzo(a,h)anthracene	GCM0333-AUG20	µg/g	0.06	< 0.06	ND	40	77	50	140	80	50	140
Fluoranthene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	82	50	140	82	50	140
Fluorene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	77	50	140	76	50	140
Indeno(1,2,3-cd)pyrene	GCM0333-AUG20	µg/g	0.1	< 0.1	ND	40	77	50	140	81	50	140
Naphthalene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	81	50	140	82	50	140
Phenanthrene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	81	50	140	80	50	140
Pyrene	GCM0333-AUG20	µg/g	0.05	< 0.05	ND	40	80	50	140	82	50	140

QC SUMMARY

Volatile Organics

Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-IENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
1,1,1,2-Tetrachloroethane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	99	60	130	104	50	140
1,1,1-Trichloroethane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	99	60	130	103	50	140
1,1,2,2-Tetrachloroethane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	95	60	130	91	50	140
1,1,2-Trichloroethane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	99	60	130	108	50	140
1,1-Dichloroethane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	98	60	130	103	50	140
1,1-Dichloroethylene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	94	60	130	99	50	140
1,2-Dichlorobenzene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	98	60	130	105	50	140
1,2-Dichloroethane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	97	60	130	103	50	140
1,2-Dichloropropane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	98	60	130	104	50	140
1,3-Dichlorobenzene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	98	60	130	103	50	140
1,4-Dichlorobenzene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	99	60	130	104	50	140
Acetone	GCM0290-AUG20	µg/g	0.5	< 0.5	ND	50	99	50	140	114	50	140
Benzene	GCM0290-AUG20	µg/g	0.02	< 0.02	ND	50	97	60	130	105	50	140
Bromodichloromethane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	99	60	130	105	50	140
Bromoform	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	94	60	130	103	50	140
Bromomethane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	82	50	140	68	50	140
Carbon tetrachloride	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	98	60	130	101	50	140
Chlorobenzene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	97	60	130	102	50	140
Chloroform	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	98	60	130	103	50	140
cis-1,2-Dichloroethylene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	99	60	130	103	50	140

QC SUMMARY

Volatile Organics (continued)

Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-IENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
cis-1,3-dichloropropene	GCM0290-AUG20	µg/g	0.03	< 0.03	ND	50	99	60	130	99	50	140
Dibromochloromethane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	99	60	130	106	50	140
Dichlorodifluoromethane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	60	50	140	52	50	140
Ethylbenzene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	98	60	130	104	50	140
Ethylenedibromide	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	98	60	130	108	50	140
n-Hexane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	99	60	130	79	50	140
m/p-xylene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	98	60	130	103	50	140
Methyl ethyl ketone	GCM0290-AUG20	µg/g	0.5	< 0.5	ND	50	96	50	140	111	50	140
Methyl isobutyl ketone	GCM0290-AUG20	µg/g	0.5	< 0.5	ND	50	97	50	140	111	50	140
Methyl-t-butyl Ether	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	97	60	130	106	50	140
Methylene Chloride	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	97	60	130	101	50	140
o-xylene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	97	60	130	103	50	140
Styrene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	99	60	130	105	50	140
Tetrachloroethylene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	99	60	130	103	50	140
Toluene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	98	60	130	104	50	140
trans-1,2-Dichloroethylene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	97	60	130	100	50	140
trans-1,3-dichloropropene	GCM0290-AUG20	µg/g	0.03	< 0.03	ND	50	102	60	130	103	50	140
Trichloroethylene	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	99	60	130	115	50	140
Trichlorofluoromethane	GCM0290-AUG20	µg/g	0.05	< 0.05	ND	50	90	50	140	89	50	140
Vinyl Chloride	GCM0290-AUG20	µg/g	0.02	< 0.02	ND	50	81	50	140	80	50	140

QC SUMMARY

Water Soluble Boron

Method: O.Reg. 15 3/04 | Internal ref.: ME-CA-[ENV] SPE-LAK-AN-003

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Water Soluble Boron	ESG0056-AUG20	µg/g	0.5	<0.5	15	20	101	80	120	98	70	130

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS	Insufficient sample for analysis.
RL	Reporting Limit.
↑	Reporting limit raised.
↓	Reporting limit lowered.
NA	The sample was not analysed for this analyte
ND	Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. “Temperature Upon Receipt” is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

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-- End of Analytical Report --

SGS Request for Laboratory Services and CHAIN OF CUSTODY

No:

Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

Laboratory Information Section - Lab use only

Received By: Kim Sheard
Received Date: 08/17/20 (mm/dd/yy)
Received Time: 15:00 (hr : min)
Received By (signature):
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C): 1.7.7
LAB LIMS #: CA-14406-Aug20

REPORT INFORMATION

Company: DS Consultants
Contact: Kirstin Olsen
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
Phone: 437 928 2794
Fax:
Email: kirstin.olsen@dsconsultants.ca

INVOICE INFORMATION

☐ (same as Report Information)
Company: DS Consultants
Contact: Paviola Derveni
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
Phone: 905 264 9393
Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID: Bronte Road

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)

TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☑ Res/Park ☐ Table 2 ☐ Ind/Com ☐ Table 3 ☐ Agri/Other ☐ Table ____ Soil Texture: ☑ Coarse ☑ Medium/Fine

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	Metals & Inorganics (M&I) incl CrVI, CN, Hg pH (B(HWS),EC,SAR-soil) (Cl, Na-water)	Full Metals Suite (M&I) ICP metals plus B(HWS-soil only) Hg, CrVI	ICP Metals only (M&I) Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,Se,Ag,Tl,U,V,Zn	PAHs only (SVOC)	SVOCs all incl PAHs, ABNs, CPs (SVOC)	PCBs ☐ Aroclor ☐ Total (PCB)	F1-F4 + BTEX (PHC)	F1-F4 only no BTEX (PHC)	VOCs all incl BTEX (VOC)	BTEX only (VOC)	Pesticides Organochlorine or specify other (Pest)	Other (please specify)					Sewer Use: Specify pkg:	Water Characterization Pkg ☐ General ☐ Extended	TCLP Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	MW20-1 SS1	Aug 17, 2020	10:00	1	Soil		✓																			
2	MW20-1 SS3	Aug 13/17, 2020	3:45/10:15	4	Soil					✓			✓													
3	MW20-1 SS4	August 13, 2020	4:00	3	Soil										✓											
4	MW20-1 SS6	Aug 13, 2020	4:10	3	Soil																					HOLD FOR VOCS
5	MW20-2 SS1	Aug 17, 2020	10:30	2	Soil		✓										✓									
6	MW20-2 SS3	Aug 13/17, 2020	4:20/10:45	4	Soil					✓			✓													
7	MW20-2 SS4	Aug 13, 2020	4:30	3	Soil																					HOLD FOR PHCS
8	MW20-2 SS7	Aug 13, 2020	4:45	3	Soil										✓											
9	MW20-3 SS1	Aug 17, 2020	11:00	2	Soil			✓									✓									
10	BH20-4 SS1	Aug 17, 2020	11:15	2	Soil			✓									✓									
11	MW20-5 SS1	Aug 17, 2020	11:30	2	Soil			✓									✓									
12	MW20-5 SS3	Aug 14/17, 2020	3:00/11:45	3	Soil								✓													

Observations/Comments/Special Instructions

Sampled By (NAME): Aidan Doak Signature: Date: 08/17/20 (mm/dd/yy)
Relinquished by (NAME): Aidan Doak Signature: Date: 08/17/20 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Note: Submission of samples to SGS is acknowledgement that you have been provided direction on sample collection/handling and transportation of samples. (2) Submission of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g. shipping documents). (3) Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Request for Laboratory Services and CHAIN OF CUSTODY

SGS Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No:

Laboratory Information Section - Lab use only

Received By: Kim Sheard
Received Date: 08/17/20 (mm/dd/yy)
Received Time: 15:00 (hr : min)
Received By (signature):
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C): 7.7.7
LAB LIMS #: CA-14406-Aug20

REPORT INFORMATION

Company: DS Consultants
Contact: Kirstin Olsen
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
Phone: 437 928 2794
Fax:
Email: kirstin.olsen@dsconsultants.ca

INVOICE INFORMATION

☐ (same as Report Information)
Company: DS Consultants
Contact: Paviola Derveni
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
Phone: 905 264 9393
Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID: Bronte Road

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)
TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

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PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☑ Res/Park ☐ Table 2 ☐ Ind/Com ☐ Table 3 ☐ Agri/Other ☐ Table ____ Soil Texture: ☑ Coarse ☑ Medium/Fine

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	M&I: Metals & Inorganics (incl CrVI, CN, Hg pH (Bi-HWS), EC, SAR-soil) (Cl, Na-water)	M&I: Full Metals Suite (ICP metals plus Bi-HWS-soil only) Hg, CrVI	M&I: ICP Metals only Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, U, V, Zn	SVOC: PAHs only	SVOC: SVOCs all incl PAHs, ABNs, CPs	PCB: PCBs Total ☐ Aroclor ☐	PHC: F1-F4 + BTEX	PHC: F1-F4 only no BTEX	VOC: VOCs all incl BTEX	VOC: BTEX only	Pest: Pesticides Organochlorine or specify other	Other (please specify)					Sewer Use: Specify pkg.	Water Characterization Pkg ☐ General ☐ Extended	TCLP Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	SDUP1	Aug 14/17, 2020	3:00/1200	3	Soil								✓												
2	MW20-5 SS8	Aug 14, 2020	3:10	4	Soil					✓			✓												
3	SDUP2	Aug 14, 2020	3:10	4	Soil					✓			✓												
4	MW20-5 SS9	Aug 14, 2020	3:20	3	Soil																				HOLD FOR PHCS
5	BH20-6 SS1	Aug 17, 2020	12:15	2	Soil			✓									✓								
6	SDUP3	Aug 17, 2020	12:30	1	Soil												✓								
7	BH20-7 SS1	Aug 17, 2020	12:45	2	Soil			✓									✓								
8	SDUP4	Aug 17, 2020	1:00	2	Soil			✓									✓								
9	MW20-8 SS1	Aug 17, 2020	1:15	2	Soil		✓										✓								
10	MW20-8 SS6	Aug 13/17, 2020	3:30/1:30	4	Soil					✓			✓												
11	MW20-8 SS8	Aug 13, 2020	3:40/1:45	3	Soil																				HOLD FOR PHCS
12	BH20-9 SS1	Aug 17, 2020	2:00	2	Soil			✓									✓								

Observations/Comments/Special Instructions

Sampled By (NAME): Avdan Doak Signature: Date: 08/17/20 (mm/dd/yy)
Relinquished by (NAME): Avdan Doak Signature: Date: 08/17/20 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.3
Date of Issue: 13 Oct, 2019

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- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

Request for Laboratory Services and CHAIN OF CUSTODY

No:

Laboratory Information Section - Lab use only

Received By: Kim Sheard
Received Date: 08/17/20 (mm/dd/yy)
Received Time: 15:00 (hr.: min)
Received By (signature):
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C) 7.7.7
LAB LIMS #: CA-14406-Aug20

REPORT INFORMATION

Company: DS Consultants
Contact: Kirstin Olsen
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
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☐ (same as Report Information)
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Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID:

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PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☑ Res/Park ☐ Table 2 ☐ Ind/Com ☐ Table 3 ☐ Agri/Other ☐ Table ____ Soil Texture: ☑ Coarse ☑ Medium/Fine

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	Metals & Inorganics (incl CrVI, CN, Hg pH, (B(HWS), EC, SAR-soil) (Cl, Na-water)	Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	ICP Metals only (Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, Li, V, Zn)	PAHs only	SVOCs (all incl PAHs, ABNs, CPs)	PCBs ☐ Total ☐ Aroclor	F1-F4 + BTEX	F1-F4 only (no BTEX)	VOCs (all incl BTEX)	BTEX only	Pesticides (Organochlorine or specify other)	Other (please specify)					Sewer Use: (Specify pkg:)	Water Characterization Pkg ☐ General ☐ Extended	TCLP (Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.)	COMMENTS:
1	MW20-10 SS1	Aug 17, 2020	2:10	2	Soil			✓									✓									
2	SDUP5	Aug 17, 2020	2:20	2	Soil			✓									✓									
3	BH20-12 SS1	Aug 17, 2020	2:30	2	Soil			✓									✓									
4	MW20-13 SS1	Aug 17, 2020	2:40	2	Soil			✓									✓									
5	BH20-14 SS1	Aug 17, 2020	2:50	2	Soil			✓									✓									
6	BH20-6 SS1	Aug 14, 2020	5:00	3	Soil									✓	✓											
7	BH20-12 SS5	Aug 4, 2020	5:10	3	Soil									✓	✓											
8	BH20-13 SS9	Aug 14, 2020	5:20	3	Soil									✓	✓											
9	SDUP6	Aug 17, 2020	2:55	1	Soil			✓																		
10																										
11																										
12																										

Observations/Comments/Special Instructions

Sampled By (NAME): Aidan Dooks Signature: Date: 08/17/20 (mm/dd/yy)
Relinquished by (NAME): Aidan Dooks Signature: Date: 08/17/20 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.3
Date of Issue: 13 Oct, 2019

Note: Submission of samples to SGS is acknowledgement that you have been provided direction on sample collection/handling and transportation of samples. (2) Submission of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g. shipping documents). (3) Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

FINAL REPORT

CA14584-AUG20 R1

20-186-100, 1300 Bronte Rd

Prepared for

DS Consultants

FINAL REPORT

CA14584-AUG20 R1

First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	DS Consultants	Project Specialist	Jill Campbell, B.Sc.,GISAS
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16 Vaughan, Ontario L4H 0K8. Canada	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Kirstin Olsen	Telephone	2165
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	jill.campbell@sgs.com
Email	kirstin.olsen@dsconsultants.ca	SGS Reference	CA14584-AUG20
Project	20-186-100, 1300 Bronte Rd	Received	08/20/2020
Order Number		Approved	08/31/2020
Samples	Ground Water (8)	Report Number	CA14584-AUG20 R1
		Date Reported	08/31/2020

COMMENTS

CCME Method Compliance: Analyses were conducted using analytical procedures that comply with the Reference Method for the CWS for Petroleum Hydrocarbons in Soil and have been validated for use at the SGS laboratory, Lakefield, ON site.

Quality Compliance: Instrument performance / calibration quality criteria were met and extraction and analysis limits for holding times were met.

nC6 and nC10 response factors within 30% of response factor for toluene: YES

nC10, nC16 and nC34 response factors within 10% of the average response for the three compounds: YES

C50 response factors within 70% of nC10 + nC16 + nC34 average: YES

Linearity is within 15%: YES

F4G - gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
The results for F4 and F4G are both reported and the greater of the two values is to be used in application to the CWS PHC.

Benzo(b)fluoranthene results for comparison to the standard are reported as benzo(b+j)fluoranthene. Benzo(b)fluoranthene and benzo(j)fluoranthene co-elute and cannot be reported individually by the analytical method used.

Temperature of Sample upon Receipt: 6 degrees C
Cooling Agent Present:Yes
Custody Seal Present:Yes

Chain of Custody Number:016586

SIGNATORIES

Jill Campbell, B.Sc.,GISAS

Jill Campbell

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FINAL REPORT

CA14584-AUG20 R1

Client: DS Consultants
Project: 20-186-100, 1300 Bronte Rd
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - BTEX** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	10	14
			Sample Name	MW20-1	MW20-2	MW20-5	Trip Blank
			Sample Matrix	Ground Water	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	19/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**
BTEX							
Benzene	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	µg/L	0.5	0.8	< 0.5	< 0.5	< 0.5	< 0.5
Xylene (total)	µg/L	0.5	72	< 0.5	< 0.5	< 0.5	< 0.5
m/p-xylene	µg/L	0.5		< 0.5	< 0.5	< 0.5	< 0.5
o-xylene	µg/L	0.5		< 0.5	< 0.5	< 0.5	< 0.5

PACKAGE: **REG153 - Hydrides** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	9	11	12	13
			Sample Name	MW20-1	MW20-2	MW20-3	MW20-10	DUP-1	DUP-2
			Sample Matrix	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	20/08/2020	19/08/2020	19/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Hydrides									
Antimony	µg/L	0.09	1.5	0.16	0.12	0.93	0.30	0.15	0.89
Arsenic	µg/L	0.2	13	< 0.2	0.2	1.5	0.6	0.2	1.4
Selenium	µg/L	0.04	5	0.05	< 0.04	0.47	0.26	0.06	0.50

FINAL REPORT

CA14584-AUG20 R1

Client: DS Consultants
Project: 20-186-100, 1300 Bronte Rd
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - Metals and Inorganics** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	9	11	12	13
			Sample Name	MW20-1	MW20-2	MW20-3	MW20-10	DUP-1	DUP-2
			Sample Matrix	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	20/08/2020	19/08/2020	19/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics									
Barium	µg/L	0.02	610	56.3	50.1	183	73.0	53.0	179
Beryllium	µg/L	0.007	0.5	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Boron	µg/L	2	1700	34	67	87	49	32	81
Cadmium	µg/L	0.003	0.5	0.016	0.013	< 0.003	0.008	0.014	0.003
Chromium	µg/L	0.08	11	< 0.08	< 0.08	0.13	0.10	0.12	< 0.08
Cobalt	µg/L	0.004	3.8	0.162	0.322	0.213	0.201	0.178	0.208
Copper	µg/L	0.2	5	0.6	2.5	0.9	2.4	1.7	0.6
Lead	µg/L	0.01	1.9	< 0.01	0.04	0.03	0.07	0.03	0.02
Molybdenum	µg/L	0.04	23	0.40	1.18	6.70	3.26	0.32	6.16
Nickel	µg/L	0.1	14	1.2	1.9	1.0	1.2	1.8	0.7
Silver	µg/L	0.05	0.3	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Thallium	µg/L	0.005	0.5	0.009	0.022	0.032	0.007	0.007	0.033
Uranium	µg/L	0.002	8.9	0.827	0.531	1.67	1.36	0.791	1.59
Vanadium	µg/L	0.01	3.9	0.22	0.35	1.43	0.71	0.25	1.47
Zinc	µg/L	2	160	< 2	4	< 2	3	3	< 2

Client: DS Consultants
Project: 20-186-100, 1300 Bronte Rd
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - Na** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	9	11	12	13
			Sample Name	MW20-1	MW20-2	MW20-3	MW20-10	DUP-1	DUP-2
			Sample Matrix	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	20/08/2020	19/08/2020	19/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Na									
Sodium	µg/L	10	490000	20300	17500	15100	15100	22000	14100

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	9	11
			Sample Name	MW20-3	MW20-10
			Sample Matrix	Ground Water	Ground Water
			Sample Date	20/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
Organochlorine Pests (OCs)					
Aldrin	µg/L	0.01	0.01	< 0.01	< 0.01
a-chlordane	µg/L	0.01		< 0.01	< 0.01
g-chlordane	µg/L	0.01		< 0.01	< 0.01
Chlordane (total)	µg/L	0.02	0.06	< 0.02	< 0.02
o,p-DDD	µg/L	0.05		< 0.05	< 0.05
pp-DDD	µg/L	0.01		< 0.01	< 0.01
DDD (total)	µg/L	0.05	1.8	< 0.05	< 0.05
o,p-DDE	µg/L	0.01		< 0.01	< 0.01
pp-DDE	µg/L	0.01		< 0.01	< 0.01
DDE (total)	µg/L	0.01	10	< 0.01	< 0.01
op-DDT	µg/L	0.01		< 0.01	< 0.01
pp-DDT	µg/L	0.01		< 0.01	< 0.01
DDT (total)	µg/L	0.05	0.05	< 0.05	< 0.05
Dieldrin	µg/L	0.01	0.05	< 0.01	< 0.01

Client: DS Consultants
Project: 20-186-100, 1300 Bronte Rd
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	9	11
			Sample Name	MW20-3	MW20-10
			Sample Matrix	Ground Water	Ground Water
			Sample Date	20/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)					
gamma-BHC	µg/L	0.01	0.01	< 0.01	< 0.01
Endosulfan I	µg/L	0.02		< 0.02	< 0.02
Endosulfan II	µg/L	0.05		< 0.05	< 0.05
Endosulfan (total)	µg/L	0.05	0.05	< 0.05	< 0.05
Endrin	µg/L	0.05	0.05	< 0.05	< 0.05
Heptachlor	µg/L	0.01	0.01	< 0.01	< 0.01
Heptachlor epoxide	µg/L	0.01	0.01	< 0.01	< 0.01
Hexachlorobenzene	µg/L	0.01	0.01	< 0.01	< 0.01
Hexachlorobutadiene	µg/L	0.01	0.01	< 0.01	< 0.01
Hexachloroethane	µg/L	0.01	0.01	< 0.01	< 0.01
Methoxychlor	µg/L	0.01	0.05	< 0.01	< 0.01

Client: DS Consultants
Project: 20-186-100, 1300 Bronte Rd
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Samplers: Meysam Jafari

PACKAGE: **REG153 - Other (ORP)** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	9	11	12	13
			Sample Name	MW20-1	MW20-2	MW20-3	MW20-10	DUP-1	DUP-2
			Sample Matrix	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	20/08/2020	19/08/2020	19/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Other (ORP)									
Mercury (total)	µg/L	0.01	0.1	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
pH	No unit	0.05		7.07	7.39			7.12	
Chloride	µg/L	200	790000	17000	57000			17000	
Chromium VI	µg/L	0.2	25	< 0.2	0.3	0.2	0.3	< 0.2	< 0.2
Cyanide (free)	µg/L	2	5	< 2	< 2			< 2	

PACKAGE: **REG153 - PAHs** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	10
			Sample Name	MW20-1	MW20-2	MW20-5
			Sample Matrix	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
PAHs						
Acenaphthene	µg/L	0.1	4.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	µg/L	0.1	1	< 0.1	< 0.1	< 0.1
Anthracene	µg/L	0.1	0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	µg/L	0.1	0.2	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	µg/L	0.01	0.01	< 0.01	< 0.01	< 0.01
Benzo(b+j)fluoranthene	µg/L	0.1	0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	µg/L	0.2	0.2	< 0.2	< 0.2	< 0.2
Benzo(k)fluoranthene	µg/L	0.1	0.1	< 0.1	< 0.1	< 0.1
Chrysene	µg/L	0.1	0.1	< 0.1	< 0.1	< 0.1
Dibenzo(a,h)anthracene	µg/L	0.1	0.2	< 0.1	< 0.1	< 0.1
Fluoranthene	µg/L	0.1	0.4	< 0.1	< 0.1	< 0.1

Client: DS Consultants
Project: 20-186-100, 1300 Bronte Rd
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - PAHs** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	10
			Sample Name	MW20-1	MW20-2	MW20-5
			Sample Matrix	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
PAHs (continued)						
Fluorene	µg/L	0.1	120	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	µg/L	0.2	0.2	< 0.2	< 0.2	< 0.2
1-Methylnaphthalene	µg/L	0.5		< 0.5	< 0.5	< 0.5
2-Methylnaphthalene	µg/L	0.5		< 0.5	< 0.5	< 0.5
Methylnaphthalene, 2-(1-)	µg/L	0.5	2	< 0.5	< 0.5	< 0.5
Naphthalene	µg/L	0.5	7	< 0.5	< 0.5	< 0.5
Phenanthrene	µg/L	0.1	0.1	< 0.1	< 0.1	< 0.1
Pyrene	µg/L	0.1	0.2	< 0.1	< 0.1	< 0.1

PACKAGE: **REG153 - Pesticides Surrogate** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	9	11
			Sample Name	MW20-3	MW20-10
			Sample Matrix	Ground Water	Ground Water
			Sample Date	20/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
Pesticides Surrogate					
Surr Decachlorobiphenyl	Surr Rec %	-		84	66

Client: DS Consultants
Project: 20-186-100, 1300 Bronte Rd
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - PHCs** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	10
			Sample Name	MW20-1	MW20-2	MW20-5
			Sample Matrix	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
PHCs						
F1 (C6-C10)	µg/L	25	420	< 25	< 25	< 25
F1-BTEX (C6-C10)	µg/L	25		< 25	< 25	< 25
F2 (C10-C16)	µg/L	100	150	< 100	< 100	< 100
F3 (C16-C34)	µg/L	200	500	< 200	< 200	< 200
F4 (C34-C50)	µg/L	200	500	< 200	< 200	< 200
Chromatogram returned to baseline at nC50	Yes / No	-		YES	YES	YES

PACKAGE: **REG153 - SVOC Surrogates** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	10
			Sample Name	MW20-1	MW20-2	MW20-5
			Sample Matrix	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
SVOC Surrogates						
Surr 2-Methylnaphthalene-D10	Surr Rec %	-		83	84	82
Surr Fluoranthene-D10	Surr Rec %	-		93	92	90
Surr 2-Fluorobiphenyl	Surr Rec %	-		94	89	98
Surr 4-Terphenyl-d14	Surr Rec %	-		98	99	95

FINAL REPORT

CA14584-AUG20 R1

Client: DS Consultants
Project: 20-186-100, 1300 Bronte Rd
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - THMs (VOC)** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	14
			Sample Name	MW20-1	MW20-2	Trip Blank
			Sample Matrix	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
THMs (VOC)						
Bromodichloromethane	µg/L	0.5	2	< 0.5	< 0.5	< 0.5
Bromoform	µg/L	0.5	5	< 0.5	< 0.5	< 0.5
Dibromochloromethane	µg/L	0.5	2	< 0.5	< 0.5	< 0.5

PACKAGE: **REG153 - VOC Surrogates** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	9	11	14
			Sample Name	MW20-1	MW20-2	MW20-3	MW20-10	Trip Blank
			Sample Matrix	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	20/08/2020	19/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**
VOC Surrogates								
Surr 1,2-Dichloroethane-d4	Surr Rec %	-		100	98			99
Surr 2-Bromo-1-Chloropropane	Surr Rec %	-		90	90			92
Surr 4-Bromofluorobenzene	Surr Rec %	-		97	96			95
Surr TCMX	Surr Rec %	-				78	70	

Client: DS Consultants
Project: 20-186-100, 1300 Bronte Rd
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - VOCs** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	14
			Sample Name	MW20-1	MW20-2	Trip Blank
			Sample Matrix	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
VOCs						
Acetone	µg/L	30	2700	< 30	< 30	< 30
Bromomethane	µg/L	0.5	0.89	< 0.5	< 0.5	< 0.5
Carbon tetrachloride	µg/L	0.2	0.2	< 0.2	< 0.2	< 0.2
Chlorobenzene	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
Chloroform	µg/L	0.5	2	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
1,3-Dichlorobenzene	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	µg/L	2.0	590	< 2	< 2	< 2
1,1-Dichloroethane	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethane	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloroethylene	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
trans-1,2-Dichloroethene	µg/L	0.5	1.6	< 0.5	< 0.5	< 0.5
cis-1,2-Dichloroethene	µg/L	0.5	1.6	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	µg/L	0.5		< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	µg/L	0.5		< 0.5	< 0.5	< 0.5
1,3-dichloropropene (total)	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
Ethylenedibromide	µg/L	0.2	0.2	< 0.2	< 0.2	< 0.2
n-Hexane	µg/L	1.0	5	< 1	< 1	< 1
Methyl ethyl ketone	µg/L	20	400	< 20	< 20	< 20
Methyl Isobutyl Ketone	µg/L	20	640	< 20	< 20	< 20
Methyl-t-butyl Ether	µg/L	2.0	15	< 2	< 2	< 2

Client: DS Consultants
Project: 20-186-100, 1300 Bronte Rd
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - VOCs** (WATER)

L1 = REG153 / GROUND WATER / COARSE - TABLE 1 - All Types of Property Uses - UNDEFINED

			Sample Number	7	8	14
			Sample Name	MW20-1	MW20-2	Trip Blank
			Sample Matrix	Ground Water	Ground Water	Ground Water
			Sample Date	19/08/2020	19/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
VOCs (continued)						
Methylene Chloride	µg/L	0.5	5	< 0.5	< 0.5	< 0.5
Styrene	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
Tetrachloroethylene (perchloroethylene)	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
1,1,1,2-Tetrachloroethane	µg/L	0.5	1.1	< 0.5	< 0.5	< 0.5
1,1,2,2-Tetrachloroethane	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
1,1,1-Trichloroethane	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
Trichloroethylene	µg/L	0.5	0.5	< 0.5	< 0.5	< 0.5
Trichlorofluoromethane	µg/L	5.0	150	< 5	< 5	< 5
Vinyl Chloride	µg/L	0.2	0.5	< 0.2	< 0.2	< 0.2

EXCEEDANCE SUMMARY

No exceedances are present above the regulatory limit(s) indicated

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Anions by IC								
Method: EPA300/MA300-Ions1.3 | Internal ref.: ME-CA-[ENV]IC-LAK-AN-001								
MW20-1	DIO0398-AUG20	7	08/19/2020	08/20/2020	08/24/2020	08/24/2020	09/16/2020	08/26/2020
MW20-2	DIO0364-AUG20	8	08/19/2020	08/20/2020	08/24/2020	08/24/2020	09/16/2020	08/26/2020
DUP-1	DIO0398-AUG20	12	08/19/2020	08/20/2020	08/24/2020	08/24/2020	09/16/2020	08/26/2020
Cyanide by SFA								
Method: SM 4500 | Internal ref.: ME-CA-[ENV]SFA-LAK-AN-005								
MW20-1	SKA0229-AUG20	7	08/19/2020	08/20/2020	08/26/2020	08/26/2020	09/02/2020	08/26/2020
MW20-2	SKA0220-AUG20	8	08/19/2020	08/20/2020	08/26/2020	08/26/2020	09/02/2020	08/26/2020
DUP-1	SKA0229-AUG20	12	08/19/2020	08/20/2020	08/26/2020	08/26/2020	09/02/2020	08/26/2020
Hexavalent Chromium by SFA								
Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012								
MW20-1	SKA0218-AUG20	7	08/19/2020	08/20/2020	08/25/2020	08/25/2020	09/02/2020	08/26/2020
MW20-2	SKA0218-AUG20	8	08/19/2020	08/20/2020	08/25/2020	08/25/2020	09/02/2020	08/26/2020
MW20-3	SKA0218-AUG20	9	08/20/2020	08/20/2020	08/25/2020	08/25/2020	09/03/2020	08/26/2020
MW20-10	SKA0218-AUG20	11	08/19/2020	08/20/2020	08/25/2020	08/25/2020	09/02/2020	08/26/2020
DUP-1	SKA0218-AUG20	12	08/19/2020	08/20/2020	08/25/2020	08/25/2020	09/02/2020	08/26/2020
DUP-2	SKA0218-AUG20	13	08/20/2020	08/20/2020	08/25/2020	08/25/2020	09/03/2020	08/26/2020
Mercury by CVAAS								
Method: SM 3112/SM 3112B | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-004								
MW20-1	EHG0020-AUG20	7	08/19/2020	08/20/2020	08/21/2020	08/21/2020	09/16/2020	08/25/2020
MW20-2	EHG0020-AUG20	8	08/19/2020	08/20/2020	08/21/2020	08/21/2020	09/16/2020	08/25/2020
MW20-3	EHG0020-AUG20	9	08/20/2020	08/20/2020	08/21/2020	08/21/2020	09/17/2020	08/25/2020
MW20-10	EHG0020-AUG20	11	08/19/2020	08/20/2020	08/21/2020	08/21/2020	09/16/2020	08/25/2020
DUP-1	EHG0020-AUG20	12	08/19/2020	08/20/2020	08/21/2020	08/21/2020	09/16/2020	08/25/2020
DUP-2	EHG0020-AUG20	13	08/20/2020	08/20/2020	08/21/2020	08/21/2020	09/17/2020	08/25/2020
Metals in aqueous samples - ICP-MS								
Method: SM 3030/EPA 200.8 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-006								
MW20-1	EMS0148-AUG20	7	08/19/2020	08/20/2020	08/24/2020	08/24/2020	10/18/2020	08/25/2020
MW20-2	EMS0148-AUG20	8	08/19/2020	08/20/2020	08/24/2020	08/24/2020	10/18/2020	08/25/2020
MW20-3	EMS0148-AUG20	9	08/20/2020	08/20/2020	08/24/2020	08/24/2020	10/19/2020	08/25/2020
MW20-10	EMS0148-AUG20	11	08/19/2020	08/20/2020	08/24/2020	08/24/2020	10/18/2020	08/25/2020
DUP-1	EMS0148-AUG20	12	08/19/2020	08/20/2020	08/24/2020	08/24/2020	10/18/2020	08/25/2020
DUP-2	EMS0148-AUG20	13	08/20/2020	08/20/2020	08/24/2020	08/24/2020	10/19/2020	08/25/2020
Pesticides								
Method: EPA 3510C/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-018								
MW20-3	GCM0436-AUG20	9	08/20/2020	08/20/2020	08/26/2020	08/26/2020	09/29/2020	08/27/2020
MW20-10	GCM0436-AUG20	11	08/19/2020	08/20/2020	08/26/2020	08/26/2020	09/28/2020	08/27/2020

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Petroleum Hydrocarbons (F1)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-1	GCM0402-AUG20	7	08/19/2020	08/20/2020	08/22/2020	08/25/2020	09/02/2020	08/25/2020
MW20-2	GCM0402-AUG20	8	08/19/2020	08/20/2020	08/22/2020	08/25/2020	09/02/2020	08/25/2020
MW20-5	GCM0402-AUG20	10	08/19/2020	08/20/2020	08/22/2020	08/25/2020	09/02/2020	08/25/2020
Petroleum Hydrocarbons (F2-F4)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-1	GCM0381-AUG20	7	08/19/2020	08/20/2020	08/22/2020	08/25/2020	09/02/2020	08/26/2020
MW20-2	GCM0381-AUG20	8	08/19/2020	08/20/2020	08/22/2020	08/25/2020	09/02/2020	08/26/2020
MW20-5	GCM0381-AUG20	10	08/19/2020	08/20/2020	08/22/2020	08/25/2020	09/02/2020	08/26/2020
pH								
Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-006								
MW20-1	EWL0285-AUG20	7	08/19/2020	08/20/2020	08/21/2020	08/21/2020	08/26/2020	08/21/2020
MW20-2	EWL0285-AUG20	8	08/19/2020	08/20/2020	08/21/2020	08/21/2020	08/26/2020	08/21/2020
DUP-1	EWL0285-AUG20	12	08/19/2020	08/20/2020	08/21/2020	08/21/2020	08/26/2020	08/21/2020
Semi-Volatile Organics								
Method: EPA 3510C/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-005								
MW20-1	GCM0382-AUG20	7	08/19/2020	08/20/2020	08/22/2020	08/24/2020	09/02/2020	08/26/2020
MW20-2	GCM0382-AUG20	8	08/19/2020	08/20/2020	08/22/2020	08/24/2020	09/02/2020	08/26/2020
MW20-5	GCM0382-AUG20	10	08/19/2020	08/20/2020	08/22/2020	08/24/2020	09/02/2020	08/26/2020
Volatile Organics								
Method: EPA 5030B/8260C | Internal ref.: ME-CA-[ENV]GC-LAK-AN-004								
MW20-1	GCM0408-AUG20	7	08/19/2020	08/20/2020	08/21/2020	08/21/2020	09/02/2020	08/27/2020
MW20-2	GCM0408-AUG20	8	08/19/2020	08/20/2020	08/21/2020	08/21/2020	09/02/2020	08/27/2020
MW20-5	GCM0369-AUG20	10	08/19/2020	08/20/2020	08/21/2020	08/21/2020	09/02/2020	08/25/2020
Trip Blank	GCM0408-AUG20	14	08/19/2020	08/20/2020	08/21/2020	08/21/2020	09/02/2020	08/27/2020

QC SUMMARY

Anions by IC

Method: EPA300/MA300-Ions1.3 | Internal ref.: ME-CA-[ENV]IC-LAK-AN-001

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Chloride	DIO0364-AUG20	µg/L	200	<200	2	20	97	80	120	78	75	125
Chloride	DIO0398-AUG20	µg/L	200	<200	NV	20	95	80	120	NV	75	125

Cyanide by SFA

Method: SM 4500 | Internal ref.: ME-CA-[ENV]SFA-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Cyanide (free)	SKA0220-AUG20	µg/L	2	<2	ND	10	101	90	110	96	75	125
Cyanide (free)	SKA0229-AUG20	µg/L	2	<2	ND	10	101	90	110	107	75	125

QC SUMMARY

Hexavalent Chromium by SFA

Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-IENVISKA-LAK-AN-012

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Chromium VI	SKA0218-AUG20	ug/L	0.2	<0.2	ND	20	99	80	120	90	75	125

Mercury by CVAAS

Method: SM 3112/SM 3112B | Internal ref.: ME-CA-IENVISPE-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Mercury (total)	EHG0020-AUG20	ug/L	0.01	-0.01	ND	20	95	80	120	103	70	130

QC SUMMARY

Metals in aqueous samples - ICP-MS

Method: SM 3030/EPA 200.8 | Internal ref.: ME-CA-IENVISPE-LAK-AN-006

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Silver	EMS0148-AUG20	ug/L	0.05	<0.05	ND	20	99	90	110	95	70	130
Arsenic	EMS0148-AUG20	µg/L	0.2	<0.2	9	20	99	90	110	102	70	130
Barium	EMS0148-AUG20	µg/L	0.02	<0.02	4	20	97	90	110	104	70	130
Beryllium	EMS0148-AUG20	µg/L	0.007	<0.007	ND	20	100	90	110	98	70	130
Boron	EMS0148-AUG20	µg/L	2	<2	20	20	103	90	110	NV	70	130
Cadmium	EMS0148-AUG20	µg/L	0.003	<0.003	ND	20	97	90	110	99	70	130
Cobalt	EMS0148-AUG20	µg/L	0.004	<0.004	NV	20	96	90	110	99	70	130
Chromium	EMS0148-AUG20	ug/L	0.08	<0.08	5	20	95	90	110	98	70	130
Copper	EMS0148-AUG20	ug/L	0.2	<0.2	5	20	96	90	110	103	70	130
Molybdenum	EMS0148-AUG20	ug/L	0.04	<0.04	ND	20	101	90	110	98	70	130
Sodium	EMS0148-AUG20	µg/L	10	< 10	3	20	108	90	110	118	70	130
Nickel	EMS0148-AUG20	µg/L	0.1	<0.1	8	20	98	90	110	98	70	130
Lead	EMS0148-AUG20	µg/L	0.01	<0.01	ND	20	99	90	110	97	70	130
Antimony	EMS0148-AUG20	ug/L	0.09	14	ND	20	96	90	110	111	70	130
Selenium	EMS0148-AUG20	µg/L	0.04	<0.04	ND	20	104	90	110	93	70	130
Thallium	EMS0148-AUG20	µg/L	0.005	<0.005	0	20	100	90	110	102	70	130
Uranium	EMS0148-AUG20	µg/L	0.002	<0.002	ND	20	100	90	110	99	70	130
Vanadium	EMS0148-AUG20	µg/L	0.01	<0.01	7	20	97	90	110	102	70	130
Zinc	EMS0148-AUG20	µg/L	2	<2	ND	20	95	90	110	113	70	130

QC SUMMARY

Pesticides

Method: EPA 3510C/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-018

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
pp-DDE	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	88	50	140	NSS	50	140
pp-DDT	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	90	50	140	NSS	50	140
a-chlordane	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	87	50	140	NSS	50	140
Aldrin	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	84	50	140	NSS	50	140
Dieldrin	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	89	50	140	NSS	50	140
Endosulfan I	GCM0436-AUG20	ug/L	0.02	< 0.02	NSS	30	87	50	140	NSS	50	140
Endosulfan II	GCM0436-AUG20	ug/L	0.05	< 0.05	NSS	30	87	50	140	NSS	50	140
Endrin	GCM0436-AUG20	ug/L	0.05	< 0.05	NSS	30	91	50	140	NSS	50	140
g-chlordane	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	87	50	140	NSS	50	140
gamma-BHC	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	87	50	140	NSS	50	140
Heptachlor	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	84	50	140	NSS	50	140
Heptachlor epoxide	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	87	50	140	NSS	50	140
Hexachlorobenzene	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	82	50	140	NSS	50	140
Hexachlorobutadiene	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	77	50	140	NSS	50	140
Hexachloroethane	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	76	50	140	NSS	50	140
Methoxychlor	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	96	50	140	NSS	50	140
o,p-DDD	GCM0436-AUG20	µg/L	0.05	< 0.05	NSS	30	89	50	140	NSS	50	140
o,p-DDE	GCM0436-AUG20	ug/L	0.01	< 0.01	NSS	30	88	50	140	NSS	50	140
op-DDT	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	89	50	140	NSS	50	140
pp-DDD	GCM0436-AUG20	µg/L	0.01	< 0.01	NSS	30	89	50	140	NSS	50	140

QC SUMMARY

Petroleum Hydrocarbons (F1)

Method: CCME Tier 1 I Internal ref.: ME-CA-IENVIGC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F1 (C6-C10)	GCM0402-AUG20	µg/L	25	<25	ND	30	100	60	140	91	60	140

Petroleum Hydrocarbons (F2-F4)

Method: CCME Tier 1 I Internal ref.: ME-CA-IENVIGC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F2 (C10-C16)	GCM0381-AUG20	µg/L	100	<100	ND	30	84	60	140	87	60	140
F3 (C16-C34)	GCM0381-AUG20	µg/L	200	<200	ND	30	84	60	140	87	60	140
F4 (C34-C50)	GCM0381-AUG20	µg/L	200	<200	ND	30	84	60	140	87	60	140

QC SUMMARY

pH

Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-006

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
pH	EWL0285-AUG20	No unit	0.05	NA	0		100			NA		

QC SUMMARY

Semi-Volatile Organics

Method: EPA 3510C/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Benzo(a)pyrene	GCM0516-AUG20	ug/L	0.01	< 0.01	ND	30	100	50	140	NV	50	140
1-Methylnaphthalene	GCM0382-AUG20	µg/L	0.5	< 0.5	ND	30	98	50	140	104	50	140
2-Methylnaphthalene	GCM0382-AUG20	µg/L	0.5	< 0.5	ND	30	98	50	140	103	50	140
Acenaphthene	GCM0382-AUG20	µg/L	0.1	< 0.1	ND	30	97	50	140	103	50	140
Acenaphthylene	GCM0382-AUG20	µg/L	0.1	< 0.1	ND	30	99	50	140	105	50	140
Anthracene	GCM0382-AUG20	µg/L	0.1	< 0.1	ND	30	86	50	140	92	50	140
Benzo(a)anthracene	GCM0382-AUG20	µg/L	0.1	< 0.1	ND	30	90	50	140	93	50	140
Benzo(b+j)fluoranthene	GCM0382-AUG20	ug/L	0.1	< 0.1	ND	30	90	50	140	91	50	140
Benzo(ghi)perylene	GCM0382-AUG20	µg/L	0.2	< 0.2	ND	30	84	50	140	83	50	140
Benzo(k)fluoranthene	GCM0382-AUG20	µg/L	0.1	< 0.1	ND	30	90	50	140	92	50	140
Chrysene	GCM0382-AUG20	µg/L	0.1	< 0.1	ND	30	88	50	140	92	50	140
Dibenzo(a,h)anthracene	GCM0382-AUG20	µg/L	0.1	< 0.1	ND	30	82	50	140	79	50	140
Fluoranthene	GCM0382-AUG20	ug/L	0.1	< 0.1	ND	30	86	50	140	90	50	140
Fluorene	GCM0382-AUG20	µg/L	0.1	< 0.1	ND	30	89	50	140	94	50	140
Indeno(1,2,3-cd)pyrene	GCM0382-AUG20	µg/L	0.2	< 0.2	ND	30	82	50	140	81	50	140
Naphthalene	GCM0382-AUG20	µg/L	0.5	< 0.5	ND	30	100	50	140	105	50	140
Phenanthrene	GCM0382-AUG20	µg/L	0.1	< 0.1	ND	30	88	50	140	93	50	140
Pyrene	GCM0382-AUG20	µg/L	0.1	< 0.1	ND	30	84	50	140	89	50	140

QC SUMMARY

Volatile Organics

Method: EPA 5030B/8260C | Internal ref.: ME-CA-IENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
1,1,1,2-Tetrachloroethane	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	102	60	130	NV	50	140
1,1,1-Trichloroethane	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	103	60	130	NV	50	140
1,1,2,2-Tetrachloroethane	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	99	60	130	NV	50	140
1,1,2-Trichloroethane	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	101	60	130	NV	50	140
1,1-Dichloroethane	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	102	60	130	NV	50	140
1,1-Dichloroethylene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	109	60	130	NV	50	140
1,2-Dichlorobenzene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	101	60	130	NV	50	140
1,2-Dichloroethane	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	100	60	130	NV	50	140
1,2-Dichloropropane	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	99	60	130	NV	50	140
1,3-Dichlorobenzene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	101	60	130	NV	50	140
1,4-Dichlorobenzene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	100	60	130	NV	50	140
Acetone	GCM0369-AUG20	µg/L	30	<30	ND	30	102	60	130	NV	50	140
Benzene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	102	60	130	NV	50	140
Bromodichloromethane	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	100	60	130	NV	50	140
Bromoform	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	97	60	130	NV	50	140
Bromomethane	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	102	50	140	NV	50	140
Carbon tetrachloride	GCM0369-AUG20	µg/L	0.2	<0.2	ND	30	102	60	130	NV	50	140
Chlorobenzene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	102	60	130	NV	50	140
Chloroform	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	101	60	130	NV	50	140
cis-1,2-Dichloroethene	GCM0369-AUG20	µg/L	0.5	<0.5	2	30	101	60	130	NV	50	140

QC SUMMARY

Volatile Organics (continued)

Method: EPA 5030B/8260C | Internal ref.: ME-CA-IENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
cis-1,3-Dichloropropene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	100	60	130	NV	50	140
Dibromochloromethane	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	100	60	130	NV	50	140
Dichlorodifluoromethane	GCM0369-AUG20	µg/L	2.0	<2	ND	30	104	50	140	NV	50	140
Ethylbenzene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	102	60	130	NV	50	140
Ethylenedibromide	GCM0369-AUG20	µg/L	0.2	<0.2	ND	30	101	60	130	NV	50	140
n-Hexane	GCM0369-AUG20	µg/L	1.0	<1	ND	30	111	60	130	NV	50	140
m/p-xylene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	102	60	130	NV	50	140
Methyl ethyl ketone	GCM0369-AUG20	ug/L	20	<20	ND	30	97	60	130	NV	50	140
Methyl Isobutyl Ketone	GCM0369-AUG20	µg/L	20	<20	ND	30	93	50	140	NV	50	140
Methyl-t-butyl Ether	GCM0369-AUG20	µg/L	2.0	<2	ND	30	98	60	130	NV	50	140
Methylene Chloride	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	104	60	130	NV	50	140
o-xylene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	102	60	130	NV	50	140
Styrene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	101	60	130	NV	50	140
Toluene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	101	60	130	NV	50	140
trans-1,2-Dichloroethene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	104	60	130	NV	50	140
trans-1,3-Dichloropropene	GCM0369-AUG20	µg/L	0.5	<0.5	ND	30	102	60	130	NV	50	140
Trichloroethylene	GCM0369-AUG20	µg/L	0.5	<0.5	9	30	101	60	130	NV	50	140
Trichlorofluoromethane	GCM0369-AUG20	µg/L	5.0	<5	ND	30	101	50	140	NV	50	140
Vinyl Chloride	GCM0369-AUG20	µg/L	0.2	<0.2	ND	30	99	60	130	NV	50	140
Tetrachloroethylene (perchloroethylene)	GCM0408-AUG20	µg/L	0.5	<0.5	ND	30	96	60	130	98	50	140

QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS	Insufficient sample for analysis.
RL	Reporting Limit.
↑	Reporting limit raised.
↓	Reporting limit lowered.
NA	The sample was not analysed for this analyte
ND	Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. “Temperature Upon Receipt” is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

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-- End of Analytical Report --

SGS

Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

Request for Laboratory Services and CHAIN OF CUSTODY

No: 016586

Page ____ of ____

Laboratory Information Section - Lab use only

Received By: [signature]
Received Date: 08 / 20 / 2020 (mm/dd/yy)
Received Time: 17 : 00 (hr : min)
Received By (signature): [signature]
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C): 6°C, 5°C, 6°C
LAB LIMS #: CA 14584-AUG20

REPORT INFORMATION	INVOICE INFORMATION
Company: DS Consultants	☑ (same as Report Information)
Contact: Kirstin Olsen	Company:
Address: 6221 Hwy 7, Unit 10 Vaughan, ON	Contact:
Phone:	Address:
Fax:	Phone:
Email: Kirstin.Olsen@dsconsultants.ca	Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID: 1300 Bronte Rd

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)
TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

*NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

☐ O.Reg 153/04 ☐ O.Reg 406/19
☑ Table 1 ☑ Res/Park Soil Texture: ☑ Coarse
☐ Table 2 ☐ Ind/Com ☐ Medium/Fine
☐ Table 3 ☐ Agri/Other
☐ Table ____
Soil Volume ☐ <350m3 ☐ >350m3

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA ☐ ODWS Not Reportable *See note

Sewer By-Law: ☐ Sanitary ☐ Storm
Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	M&I: Metals & Inorganics (incl CrVI, CN, Hg pH (B(HWS),EC,SAR-soil) (Cl, Na-water)	M&I: Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	M&I: ICP Metals only Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,	SVOC: PAHs only	SVOC: SVOCs all incl PAHs, ABNs, CPs	PCB: PCBs ☐ Total ☐ Aroclor	PHC: F1-F4 + BTEX	PHC: F1-F4 only no BTEX	VOC: VOCs all incl BTEX	VOC: BTEX only	Pest: Pesticides Organochlorine or specify other	Other (please specify)				Appendix 2: 406/19 Leachate Screening Levels Table :	Sewer Use: Specify pkg:	Water Characterization Pkg ☐ General ☐ Extended	TCLP Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	MW20-1	8/19/2020	A.M	11	GW	✓	✓			✓			✓		✓											
2	MW20-2	8/19/2020	A.M	11	GW	✓	✓			✓			✓		✓											
3	MW20-3	8/20/2020	A.M	4	GW	✓		✓									✓									
4	MW20-5	8/19/2020	A.M	6	GW	✓				✓			✓													
5	MW20-10	8/19/2020	A.M	4	GW	✓		✓									✓									
6	Dup-1	8/19/2020	A.M	3	GW	✓	✓																			
7	Dup-2	8/20/2020	A.M	3	GW	✓		✓																		
8	Trip-Blank	-	-	-	-										✓											
9																										
10																										
11																										
12																										

Observations/Comments/Special Instructions

Sampled By (NAME): Meysam Jafari Signature: [signature] Date: 8 / 20 / 2020 (mm/dd/yy) Pink Copy - Client

Relinquished by (NAME): Meysam Jafari Signature: [signature] Date: 8 / 20 / 2020 (mm/dd/yy) Yellow & White Copy - SGS

Revision #: 1.4
Date of Issue: 22 May. 2020

Note: Submission of samples to SGS is acknowledgement that you have been provided direction on sample collection/handling and transportation of samples. {2} Submission of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g. shipping documents). {3} Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

FINAL REPORT

CA14587-AUG20 R1

20-186-100

Prepared for

DS Consultants

FINAL REPORT

First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	DS Consultants	Project Specialist	Jill Campbell, B.Sc.,GISAS
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16 Vaughan, Ontario L4H 0K8. Canada	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Kirstin Olsen	Telephone	2165
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	jill.campbell@sgs.com
Email	kirstin.olsen@dsconsultants.ca	SGS Reference	CA14587-AUG20
Project	20-186-100	Received	08/20/2020
Order Number		Approved	08/31/2020
Samples	soil (40)	Report Number	CA14587-AUG20 R1
		Date Reported	08/31/2020

COMMENTS

CCME Method Compliance: Analyses were conducted using analytical procedures that comply with the Reference Method for the CWS for Petroleum Hydrocarbons in Soil and have been validated for use at the SGS laboratory, Lakefield, ON site.

Quality Compliance: Instrument performance / calibration quality criteria were met and extraction and analysis limits for holding times were met.

nC6 and nC10 response factors within 30% of response factor for toluene: YES

nC10, nC16 and nC34 response factors within 10% of the average response for the three compounds: YES

C50 response factors within 70% of nC10 + nC16 + nC34 average: YES

Linearity is within 15%: YES

F4G - gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
The results for F4 and F4G are both reported and the greater of the two values is to be used in application to the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

Benzo(b)fluoranthene results for comparison to the standard are reported as benzo(b+j)fluoranthene. Benzo(b)fluoranthene and benzo(j)fluoranthene co-elute and cannot be reported individually by the analytical method used.

Temperature of Sample upon Receipt: 9 degrees C
Cooling Agent Present:Yes
Custody Seal Present:Yes

Chain of Custody Number:016587/014094/95/96

Trichlorofluoromethane Matrix Spike; Recovery is outside control limits. The overall quality control for this analysis has been assessed and meets method acceptability criteria.

SIGNATORIES

Jill Campbell, B.Sc.,GISAS

Jill Campbell

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Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - BTEX** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	10	12
			Sample Name	SB1-S1	SB3-S1	TR1-S1
			Sample Matrix	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
BTEX						
Benzene	µg/g	0.02	0.02	< 0.02	< 0.02	< 0.02
Ethylbenzene	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05
Toluene	µg/g	0.05	0.2	< 0.05	< 0.05	< 0.05
Xylene (total)	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05
m/p-xylene	µg/g	0.05		< 0.05	< 0.05	< 0.05
o-xylene	µg/g	0.05		< 0.05	< 0.05	< 0.05

PACKAGE: **REG153 - Hydrides** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	9	10	11	16	17	18	19
			Sample Name	SB1-S1	SB2-S1	SB3-S1	SB4-S1	D3-S3	D4-S3	D6-S3	D1-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Hydrides											
Antimony	µg/g	0.8	1.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	µg/g	0.5	18	4.6	4.7	6.6	5.8	7.2	18	7.3	20
Selenium	µg/g	0.7	1.5	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - Hydrides** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	20	21	22	23	24	25	26	27
			Sample Name	D5-S1	D8-S1	D10-S1	D18-S1	D12-S1	D13-S1	D14-S1	D16-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Hydrides											
Antimony	µg/g	0.8	1.3	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Arsenic	µg/g	0.5	18	34	9.3	13	21	24	4.0	30	20
Selenium	µg/g	0.7	1.5	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7

PACKAGE: **REG153 - Hydrides** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	44
			Sample Name	SDUP7
			Sample Matrix	soil
			Sample Date	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**
Hydrides				
Antimony	µg/g	0.8	1.3	< 0.8
Arsenic	µg/g	0.5	18	20
Selenium	µg/g	0.7	1.5	< 0.7

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	9	10	11	12	13	14	15
			Sample Name	SB1-S1	SB2-S1	SB3-S1	SB4-S1	TR1-S1	D2-S3	D7-S3	D9-S3
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics											
Moisture Content	%	-		12.5	9.8	12.8	10.6	11.6	9.6	11.2	12.6
Barium	µg/g	0.1	220	86	86	48	80				
Beryllium	µg/g	0.02	2.5	0.65	0.64	0.40	0.58				
Boron	µg/g	1	36	7	8	6	8				

FINAL REPORT

CA14587-AUG20 R1

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	9	10	11	12	13	14	15
			Sample Name	SB1-S1	SB2-S1	SB3-S1	SB4-S1	TR1-S1	D2-S3	D7-S3	D9-S3
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics (continued)											
Cadmium	µg/g	0.02	1.2	0.25	0.28	0.11	0.16				
Chromium	µg/g	0.5	70	22	24	13	19				
Cobalt	µg/g	0.01	21	11	11	6.5	11				
Copper	µg/g	0.1	92	30	29	25	29				
Lead	µg/g	0.1	120	26	24	24	23				
Molybdenum	µg/g	0.1	2	0.5	0.5	0.3	0.5				
Nickel	µg/g	0.5	82	22	22	14	22				
Silver	µg/g	0.05	0.5	0.05	0.05	< 0.05	< 0.05				
Thallium	µg/g	0.02	1	0.14	0.15	0.09	0.15				
Uranium	µg/g	0.002	2.5	0.58	0.57	0.40	0.50				
Vanadium	µg/g	3	86	28	28	19	25				
Zinc	µg/g	0.7	290	89	95	45	72				
Water Soluble Boron	µg/g	0.5		< 0.5	< 0.5	< 0.5	< 0.5				

FINAL REPORT

CA14587-AUG20 R1

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	16	17	18	19	20	21	22	23
			Sample Name	D3-S3	D4-S3	D6-S3	D1-S1	D5-S1	D8-S1	D10-S1	D18-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics											
Moisture Content	%	-		9.5	11.9	12.4	14.9	3.7	21.0	15.3	11.0
Barium	µg/g	0.1	220	40	70	56	47	54	48	46	49
Beryllium	µg/g	0.02	2.5	0.49	0.69	0.42	0.35	0.38	0.36	0.37	0.37
Boron	µg/g	1	36	3	6	2	3	3	4	4	2
Cadmium	µg/g	0.02	1.2	0.11	0.26	0.09	0.17	0.18	0.19	0.14	0.15
Chromium	µg/g	0.5	70	15	22	13	11	12	12	11	12
Cobalt	µg/g	0.01	21	7.5	11	6.6	4.9	5.4	5.5	5.0	5.3
Copper	µg/g	0.1	92	29	46	26	30	29	20	25	22
Lead	µg/g	0.1	120	24	64	23	120	150	50	62	110
Molybdenum	µg/g	0.1	2	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.4
Nickel	µg/g	0.5	82	16	27	13	10	11	11	11	11
Silver	µg/g	0.05	0.5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Thallium	µg/g	0.02	1	0.10	0.13	0.10	0.09	0.11	0.11	0.10	0.10
Uranium	µg/g	0.002	2.5	0.42	0.53	0.36	0.46	0.47	0.54	0.45	0.39
Vanadium	µg/g	3	86	22	27	20	17	19	18	17	18
Zinc	µg/g	0.7	290	45	72	50	61	65	63	55	61

FINAL REPORT

CA14587-AUG20 R1

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	24	25	26	27	28	29	30	32
			Sample Name	D12-S1	D13-S1	D14-S1	D16-S1	D11-S1	D15-S1	D17-S1	D19-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics											
Moisture Content	%	-		15.0	13.8	16.4	15.6	13.6	12.0	13.6	12.5
Barium	µg/g	0.1	220	49	53	48	57				
Beryllium	µg/g	0.02	2.5	0.34	0.37	0.30	0.41				
Boron	µg/g	1	36	3	3	2	3				
Cadmium	µg/g	0.02	1.2	0.18	0.20	0.18	0.16				
Chromium	µg/g	0.5	70	11	11	9.6	13				
Cobalt	µg/g	0.01	21	4.7	4.9	4.3	6.0				
Copper	µg/g	0.1	92	21	21	26	24				
Lead	µg/g	0.1	120	120	19	150	89				
Molybdenum	µg/g	0.1	2	0.4	0.4	0.4	0.4				
Nickel	µg/g	0.5	82	9.6	11	8.9	12				
Silver	µg/g	0.05	0.5	< 0.05	< 0.05	< 0.05	< 0.05				
Thallium	µg/g	0.02	1	0.10	0.10	0.10	0.11				
Uranium	µg/g	0.002	2.5	0.42	0.45	0.45	0.39				
Vanadium	µg/g	3	86	16	17	15	18				
Zinc	µg/g	0.7	290	57	46	56	63				

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	33	34	35	36	37	38	39	40
			Sample Name	D20-S1	D21-S1	D22-S1	D23-S1	D24-S1	D25-S1	D26-S1	D28-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics											
Moisture Content	%	-		14.4	14.2	14.6	13.7	14.0	16.3	15.8	13.6

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	41	42	43	44	45	46	47	48
			Sample Name	D27-S1	D29-S1	D30-S1	SDUP7	SDUP8	SDUP9	SDUP10	SDUP11
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics											
Moisture Content	%	-		16.1	13.5	13.1		16.0	15.9	14.8	13.5
Barium	µg/g	0.1	220				58				
Beryllium	µg/g	0.02	2.5				0.41				
Boron	µg/g	1	36				3				
Cadmium	µg/g	0.02	1.2				0.20				
Chromium	µg/g	0.5	70				12				
Cobalt	µg/g	0.01	21				6.0				
Copper	µg/g	0.1	92				24				
Lead	µg/g	0.1	120				88				
Molybdenum	µg/g	0.1	2				0.4				
Nickel	µg/g	0.5	82				12				
Silver	µg/g	0.05	0.5				< 0.05				
Thallium	µg/g	0.02	1				0.11				
Uranium	µg/g	0.002	2.5				0.39				
Vanadium	µg/g	3	86				18				

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
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PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	41	42	43	44	45	46	47	48
			Sample Name	D27-S1	D29-S1	D30-S1	SDUP7	SDUP8	SDUP9	SDUP10	SDUP11
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Metals and Inorganics (continued)											
Zinc	µg/g	0.7	290				62				

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	13	14	15	16	17	18	19	20
			Sample Name	D2-S3	D7-S3	D9-S3	D3-S3	D4-S3	D6-S3	D1-S1	D5-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs)											
Aldrin	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
alpha-Chlordane	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
gamma-Chlordane	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chlordane (total)	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o,p-DDD	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDD	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
DDD (total)	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o,p-DDE	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDE	µg/g	0.02		< 0.02	< 0.02	< 0.02	0.04	0.17	0.06	0.45	0.45
DDE (total)	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.17	0.06	0.45	0.45
op-DDT	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDT	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	0.05	< 0.02	0.12	0.11
DDT (total)	µg/g	0.05	1.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.12	0.11
Dieldrin	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	13	14	15	16	17	18	19	20
			Sample Name	D2-S3	D7-S3	D9-S3	D3-S3	D4-S3	D6-S3	D1-S1	D5-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)											
gamma-BHC	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Endosulfan I	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan II	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan (total)	µg/g	0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	µg/g	0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Heptachlor	µg/g	0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor epoxide	µg/g	0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	21	22	23	24	25	26	27	28
			Sample Name	D8-S1	D10-S1	D18-S1	D12-S1	D13-S1	D14-S1	D16-S1	D11-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs)											
Aldrin	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
alpha-Chlordane	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
gamma-Chlordane	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chlordane (total)	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o,p-DDD	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDD	µg/g	0.02		< 0.02	< 0.02	0.03	0.03	< 0.02	< 0.02	< 0.02	< 0.02
DDD (total)	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o,p-DDE	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDE	µg/g	0.02		0.31	0.39	0.54	0.44	< 0.02	0.48	0.31	< 0.02
DDE (total)	µg/g	0.05	0.05	0.31	0.39	0.54	0.44	< 0.05	0.48	0.31	< 0.05
op-DDT	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDT	µg/g	0.02		0.06	0.06	0.14	0.08	< 0.02	0.14	0.08	< 0.02
DDT (total)	µg/g	0.05	1.4	0.06	0.06	0.14	0.08	< 0.05	0.14	0.08	< 0.05
Dieldrin	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
gamma-BHC	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Endosulfan I	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan II	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan (total)	µg/g	0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	µg/g	0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Heptachlor	µg/g	0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor epoxide	µg/g	0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	21	22	23	24	25	26	27	28
			Sample Name	D8-S1	D10-S1	D18-S1	D12-S1	D13-S1	D14-S1	D16-S1	D11-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)											
Hexachlorobutadiene	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	29	30	32	33	34	35	36	37
			Sample Name	D15-S1	D17-S1	D19-S1	D20-S1	D21-S1	D22-S1	D23-S1	D24-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs)											
Aldrin	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
alpha-Chlordane	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
gamma-Chlordane	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chlordane (total)	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o,p-DDD	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDD	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
DDD (total)	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o,p-DDE	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDE	µg/g	0.02		0.10	0.05	0.04	0.14	< 0.02	< 0.02	0.06	< 0.02
DDE (total)	µg/g	0.05	0.05	0.10	< 0.05	< 0.05	0.14	< 0.05	< 0.05	0.06	< 0.05
op-DDT	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02

Client: DS Consultants
Project: 20-186-100
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PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	29	30	32	33	34	35	36	37
			Sample Name	D15-S1	D17-S1	D19-S1	D20-S1	D21-S1	D22-S1	D23-S1	D24-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)											
pp-DDT	µg/g	0.02		0.03	0.03	< 0.02	0.03	< 0.02	< 0.02	0.02	< 0.02
DDT (total)	µg/g	0.05	1.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
gamma-BHC	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Endosulfan I	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan II	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan (total)	µg/g	0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	µg/g	0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Heptachlor	µg/g	0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor epoxide	µg/g	0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	38	39	40	41	42	43	45	46
			Sample Name	D25-S1	D26-S1	D28-S1	D27-S1	D29-S1	D30-S1	SDUP8	SDUP9
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs)											
Aldrin	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
alpha-Chlordane	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
gamma-Chlordane	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chlordane (total)	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o,p-DDD	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDD	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
DDD (total)	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
o,p-DDE	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDE	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	0.02	0.04	< 0.02	< 0.02
DDE (total)	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
op-DDT	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
pp-DDT	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
DDT (total)	µg/g	0.05	1.4	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dieldrin	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
gamma-BHC	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Endosulfan I	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan II	µg/g	0.02		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Endosulfan (total)	µg/g	0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Endrin	µg/g	0.04	0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Heptachlor	µg/g	0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Heptachlor epoxide	µg/g	0.01	0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	38	39	40	41	42	43	45	46
			Sample Name	D25-S1	D26-S1	D28-S1	D27-S1	D29-S1	D30-S1	SDUP8	SDUP9
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)											
Hexachlorobutadiene	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	µg/g	0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	µg/g	0.05	0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	47	48
			Sample Name	SDUP10	SDUP11
			Sample Matrix	soil	soil
			Sample Date	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
Organochlorine Pests (OCs)					
Aldrin	µg/g	0.05	0.05	< 0.05	< 0.05
alpha-Chlordane	µg/g	0.02		< 0.02	< 0.02
gamma-Chlordane	µg/g	0.02		< 0.02	< 0.02
Chlordane (total)	µg/g	0.05	0.05	< 0.05	< 0.05
o,p-DDD	µg/g	0.02		< 0.02	< 0.02
pp-DDD	µg/g	0.02		< 0.02	< 0.02
DDD (total)	µg/g	0.05	0.05	< 0.05	< 0.05
o,p-DDE	µg/g	0.02		< 0.02	< 0.02
pp-DDE	µg/g	0.02		< 0.02	0.02
DDE (total)	µg/g	0.05	0.05	< 0.05	< 0.05
op-DDT	µg/g	0.02		< 0.02	< 0.02

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	47	48
			Sample Name	SDUP10	SDUP11
			Sample Matrix	soil	soil
			Sample Date	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)					
pp-DDT	µg/g	0.02		< 0.02	< 0.02
DDT (total)	µg/g	0.05	1.4	< 0.05	< 0.05
Dieldrin	µg/g	0.05	0.05	< 0.05	< 0.05
gamma-BHC	µg/g	0.01	0.01	< 0.01	< 0.01
Endosulfan I	µg/g	0.02		< 0.02	< 0.02
Endosulfan II	µg/g	0.02		< 0.02	< 0.02
Endosulfan (total)	µg/g	0.04	0.04	< 0.04	< 0.04
Endrin	µg/g	0.04	0.04	< 0.04	< 0.04
Heptachlor	µg/g	0.01	0.05	< 0.01	< 0.01
Heptachlor epoxide	µg/g	0.01	0.05	< 0.01	< 0.01
Hexachlorobenzene	µg/g	0.01	0.01	< 0.01	< 0.01
Hexachlorobutadiene	µg/g	0.01	0.01	< 0.01	< 0.01
Hexachloroethane	µg/g	0.01	0.01	< 0.01	< 0.01
Methoxychlor	µg/g	0.05	0.05	< 0.05	< 0.05

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - Other (ORP)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	9	10	11
			Sample Name	SB1-S1	SB2-S1	SB3-S1	SB4-S1
			Sample Matrix	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**
Other (ORP)							
Mercury	µg/g	0.05	0.27	< 0.05	< 0.05	< 0.05	< 0.05
Sodium Adsorption Ratio	No unit	0.2	2.4	< 0.2	0.3	0.2	< 0.2
SAR Calcium	mg/L	0.09		30.8	28.4	22.0	27.8
SAR Magnesium	mg/L	0.02		3.8	4.7	3.7	3.6
SAR Sodium	mg/L	0.15		2.8	6.4	4.2	1.4
Conductivity	mS/cm	0.002	0.57	0.18	0.18	0.16	0.16
pH	pH Units	0.05		7.49	7.61	7.70	7.73
Chromium VI	µg/g	0.2	0.66	< 0.2	0.3	< 0.2	< 0.2
Free Cyanide	µg/g	0.05	0.051	< 0.05	< 0.05	< 0.05	< 0.05

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - PAHs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	9	10	11
			Sample Name	SB1-S1	SB2-S1	SB3-S1	SB4-S1
			Sample Matrix	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**
PAHs							
Acenaphthene	µg/g	0.05	0.072	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/g	0.05	0.093	< 0.05	< 0.05	< 0.05	< 0.05
Anthracene	µg/g	0.05	0.16	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/g	0.05	0.36	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	µg/g	0.05	0.3	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(b+j)fluoranthene	µg/g	0.05	0.47	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	µg/g	0.1	0.68	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	µg/g	0.05	0.48	< 0.05	< 0.05	< 0.05	< 0.05
Chrysene	µg/g	0.05	2.8	< 0.05	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	µg/g	0.06	0.1	< 0.06	< 0.06	< 0.06	< 0.06
Fluoranthene	µg/g	0.05	0.56	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	µg/g	0.05	0.12	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.1	0.23	< 0.1	< 0.1	< 0.1	< 0.1
1-Methylnaphthalene	µg/g	0.05		< 0.05	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/g	0.05		< 0.05	< 0.05	< 0.05	< 0.05
Methylnaphthalene, 2-(1-)	µg/g	0.05	0.59	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	µg/g	0.05	0.09	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/g	0.05	0.69	< 0.05	< 0.05	< 0.05	< 0.05
Pyrene	µg/g	0.05	1	< 0.05	< 0.05	< 0.05	< 0.05

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - PCBs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	12
			Sample Name	TR1-S1
			Sample Matrix	soil
			Sample Date	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**
PCBs				
Polychlorinated Biphenyls (PCBs) - Total	µg/g	0.3	0.3	< 0.3

PACKAGE: **REG153 - Pesticides Surrogate** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

				Sample Number	13	14	15	16	17	18	19	20
				Sample Name	D2-S3	D7-S3	D9-S3	D3-S3	D4-S3	D6-S3	D1-S1	D5-S1
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
				Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**		**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Pesticides Surrogate												
Surr Decachlorobiphenyl	Surr Rec %	-			109	109	104	104	112	104	104	106

PACKAGE: **REG153 - Pesticides Surrogate** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

				Sample Number	21	22	23	24	25	26	27	28
				Sample Name	D8-S1	D10-S1	D18-S1	D12-S1	D13-S1	D14-S1	D16-S1	D11-S1
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
				Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**		**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Pesticides Surrogate												
Surr Decachlorobiphenyl	Surr Rec %	-			105	106	111	107	106	100	101	105

PACKAGE: **REG153 - Pesticides Surrogate** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

				Sample Number	29	30	32	33	34	35	36	37
				Sample Name	D15-S1	D17-S1	D19-S1	D20-S1	D21-S1	D22-S1	D23-S1	D24-S1
				Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
				Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**		**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Pesticides Surrogate												

PACKAGE: **REG153 - Pesticides Surrogate** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	29	30	32	33	34	35	36	37
			Sample Name	D15-S1	D17-S1	D19-S1	D20-S1	D21-S1	D22-S1	D23-S1	D24-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Pesticides Surrogate (continued)											
Surr Decachlorobiphenyl	Surr Rec %	-		105	110	109	104	104	105	80	101

PACKAGE: **REG153 - Pesticides Surrogate** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	38	39	40	41	42	43	45	46
			Sample Name	D25-S1	D26-S1	D28-S1	D27-S1	D29-S1	D30-S1	SDUP8	SDUP9
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
Pesticides Surrogate											
Surr Decachlorobiphenyl	Surr Rec %	-		103	102	92	97	98	103	77	93

PACKAGE: **REG153 - Pesticides Surrogate** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	47	48
			Sample Name	SDUP10	SDUP11
			Sample Matrix	soil	soil
			Sample Date	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
Pesticides Surrogate					
Surr Decachlorobiphenyl	Surr Rec %	-		94	96

PACKAGE: **REG153 - PHCs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	10	12
			Sample Name	SB1-S1	SB3-S1	TR1-S1
			Sample Matrix	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
PHCs						

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - PHCs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	10	12
			Sample Name	SB1-S1	SB3-S1	TR1-S1
			Sample Matrix	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**
PHCs (continued)						
F1 (C6-C10)	µg/g	10	25	< 10	< 10	< 10
F1-BTEX (C6-C10)	µg/g	10		< 10	< 10	< 10
F2 (C10-C16)	µg/g	10	10	< 10	< 10	< 10
F3 (C16-C34)	µg/g	50	240	< 50	< 50	< 50
F4 (C34-C50)	µg/g	50	120	< 50	< 50	< 50
Chromatogram returned to baseline at nC50	Yes / No	-		YES	YES	YES

PACKAGE: **REG153 - SVOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	9	10	11
			Sample Name	SB1-S1	SB2-S1	SB3-S1	SB4-S1
			Sample Matrix	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**
SVOC Surrogates							
Surr Nitrobenzene-d5	Surr Rec %	-		94	88	99	93
Surr 2-Fluorobiphenyl	Surr Rec %	-		86	87	90	82
Surr 4-Terphenyl-d14	Surr Rec %	-		89	96	98	95
Surr 2-Fluorophenol	Surr Rec %	-		80	76	81	78
Surr Phenol-d6	Surr Rec %	-		85	83	86	82
Surr 2,4,6-Tribromophenol	Surr Rec %	-		84	85	94	89

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - THMs (VOC)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	10
			Sample Name	SB1-S1	SB3-S1
			Sample Matrix	soil	soil
			Sample Date	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
THMs (VOC)					
Bromodichloromethane	µg/g	0.05	0.05	< 0.05	< 0.05
Bromoform	µg/g	0.05	0.05	< 0.05	< 0.05
Dibromochloromethane	µg/g	0.05	0.05	< 0.05	< 0.05

PACKAGE: **REG153 - VOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	10	13	14	15	16	17	18
			Sample Name	SB1-S1	SB3-S1	D2-S3	D7-S3	D9-S3	D3-S3	D4-S3	D6-S3
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOC Surrogates											
Surr 1,2-Dichloroethane-d4	Surr Rec %	-		94	94						
Surr 4-Bromofluorobenzene	Surr Rec %	-		91	92						
Surr 2-Bromo-1-Chloropropane	Surr Rec %	-		82	82						
Surr TCMX	Surr Rec %	-				97	95	93	95	100	89

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - VOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	19	20	21	22	23	24	25	26
			Sample Name	D1-S1	D5-S1	D8-S1	D10-S1	D18-S1	D12-S1	D13-S1	D14-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOC Surrogates											
Surr TCMX	Surr Rec %	-		89	91	90	90	97	91	90	82

PACKAGE: **REG153 - VOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	27	28	29	30	32	33	34	35
			Sample Name	D16-S1	D11-S1	D15-S1	D17-S1	D19-S1	D20-S1	D21-S1	D22-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOC Surrogates											
Surr TCMX	Surr Rec %	-		80	88	88	87	92	85	85	86

PACKAGE: **REG153 - VOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	36	37	38	39	40	41	42	43
			Sample Name	D23-S1	D24-S1	D25-S1	D26-S1	D28-S1	D27-S1	D29-S1	D30-S1
			Sample Matrix	soil	soil	soil	soil	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**	**Result**
VOC Surrogates											
Surr TCMX	Surr Rec %	-		70	83	83	81	76	79	93	83

PACKAGE: **REG153 - VOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	45	46	47	48
			Sample Name	SDUP8	SDUP9	SDUP10	SDUP11
			Sample Matrix	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**
VOC Surrogates							

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - VOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	45	46	47	48
			Sample Name	SDUP8	SDUP9	SDUP10	SDUP11
			Sample Matrix	soil	soil	soil	soil
			Sample Date	20/08/2020	20/08/2020	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**	**Result**	**Result**
VOC Surrogates (continued)							
Surr TCMX	Surr Rec %	-		82	88	87	99

PACKAGE: **REG153 - VOCs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	10
			Sample Name	SB1-S1	SB3-S1
			Sample Matrix	soil	soil
			Sample Date	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
VOCs					
Acetone	µg/g	0.5	0.5	< 0.5	< 0.5
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	< 0.05	< 0.05
Chloroform	µg/g	0.05	0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/g	0.05	0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/g	0.05	0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/g	0.05	0.05	< 0.05	< 0.05
Dichlorodifluoromethane	µg/g	0.05	0.05	< 0.05	< 0.05
1,1-Dichloroethane	µg/g	0.05	0.05	< 0.05	< 0.05
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
trans-1,2-Dichloroethylene	µg/g	0.05	0.05	< 0.05	< 0.05
cis-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

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Dools

PACKAGE: **REG153 - VOCs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	10
			Sample Name	SB1-S1	SB3-S1
			Sample Matrix	soil	soil
			Sample Date	20/08/2020	20/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
VOCs (continued)					
cis-1,3-dichloropropene	µg/g	0.03		< 0.03	< 0.03
trans-1,3-dichloropropene	µg/g	0.03		< 0.03	< 0.03
1,3-dichloropropene (total)	µg/g	0.05	0.05	< 0.05	< 0.05
Ethylenedibromide	µg/g	0.05	0.05	< 0.05	< 0.05
n-Hexane	µg/g	0.05	0.05	< 0.05	< 0.05
Methyl ethyl ketone	µg/g	0.5	0.5	< 0.5	< 0.5
Methyl isobutyl ketone	µg/g	0.5	0.5	< 0.5	< 0.5
Methyl-t-butyl Ether	µg/g	0.05	0.05	< 0.05	< 0.05
Methylene Chloride	µg/g	0.05	0.05	< 0.05	< 0.05
Styrene	µg/g	0.05	0.05	< 0.05	< 0.05
Tetrachloroethylene	µg/g	0.05	0.05	< 0.05	< 0.05
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
1,1,1-Trichloroethane	µg/g	0.05	0.05	< 0.05	< 0.05
1,1,2-Trichloroethane	µg/g	0.05	0.05	< 0.05	< 0.05
Trichloroethylene	µg/g	0.05	0.05	< 0.05	< 0.05
Trichlorofluoromethane	µg/g	0.05	0.25	< 0.05	< 0.05
Vinyl Chloride	µg/g	0.02	0.02	< 0.02	< 0.02

EXCEEDANCE SUMMARY

Parameter	Method	Units	Result	REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED L1
D4-S3				
DDE	EPA 3541/8270D	µg/g	0.17	0.05
D6-S3				
DDE	EPA 3541/8270D	µg/g	0.06	0.05
D1-S1				
Arsenic	EPA 3050/EPA 200.8	µg/g	20	18
DDE	EPA 3541/8270D	µg/g	0.45	0.05
D5-S1				
Arsenic	EPA 3050/EPA 200.8	µg/g	34	18
Lead	EPA 3050/EPA 200.8	µg/g	150	120
DDE	EPA 3541/8270D	µg/g	0.45	0.05
D8-S1				
DDE	EPA 3541/8270D	µg/g	0.31	0.05
D10-S1				
DDE	EPA 3541/8270D	µg/g	0.39	0.05
D18-S1				
Arsenic	EPA 3050/EPA 200.8	µg/g	21	18
DDE	EPA 3541/8270D	µg/g	0.54	0.05
D12-S1				
Arsenic	EPA 3050/EPA 200.8	µg/g	24	18
DDE	EPA 3541/8270D	µg/g	0.44	0.05
D14-S1				
Arsenic	EPA 3050/EPA 200.8	µg/g	30	18
Lead	EPA 3050/EPA 200.8	µg/g	150	120
DDE	EPA 3541/8270D	µg/g	0.48	0.05
D16-S1				
Arsenic	EPA 3050/EPA 200.8	µg/g	20	18
DDE	EPA 3541/8270D	µg/g	0.31	0.05
D15-S1				
DDE	EPA 3541/8270D	µg/g	0.10	0.05

EXCEEDANCE SUMMARY

Parameter	Method	Units	Result	REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED L1
D20-S1				
DDE	EPA 3541/8270D	µg/g	0.14	0.05
D23-S1				
DDE	EPA 3541/8270D	µg/g	0.06	0.05
SDUP7				
Arsenic	EPA 3050/EPA 200.8	µg/g	20	18

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Conductivity								
Method: EPA 6010/SM 2510 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-006								
SB1-S1	EWL0312-AUG20	8	08/20/2020	08/20/2020	08/24/2020	08/24/2020	09/17/2020	08/24/2020
SB2-S1	EWL0312-AUG20	9	08/20/2020	08/20/2020	08/24/2020	08/24/2020	09/17/2020	08/24/2020
SB3-S1	EWL0312-AUG20	10	08/20/2020	08/20/2020	08/24/2020	08/24/2020	09/17/2020	08/24/2020
SB4-S1	EWL0312-AUG20	11	08/20/2020	08/20/2020	08/24/2020	08/24/2020	09/17/2020	08/24/2020
Cyanide by SFA								
Method: SM 4500 | Internal ref.: ME-CA-[ENV]SFA-LAK-AN-005								
SB1-S1	SKA5067-AUG20	8	08/20/2020	08/20/2020	08/21/2020	08/24/2020	09/03/2020	08/25/2020
SB2-S1	SKA5067-AUG20	9	08/20/2020	08/20/2020	08/21/2020	08/24/2020	09/03/2020	08/25/2020
SB3-S1	SKA5067-AUG20	10	08/20/2020	08/20/2020	08/21/2020	08/24/2020	09/03/2020	08/25/2020
SB4-S1	SKA5067-AUG20	11	08/20/2020	08/20/2020	08/21/2020	08/24/2020	09/03/2020	08/25/2020
Hexavalent Chromium by SFA								
Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012								
SB1-S1	SKA5086-AUG20	8	08/20/2020	08/20/2020	08/24/2020	08/26/2020	09/19/2020	08/27/2020
SB2-S1	SKA5086-AUG20	9	08/20/2020	08/20/2020	08/24/2020	08/26/2020	09/19/2020	08/27/2020
SB3-S1	SKA5086-AUG20	10	08/20/2020	08/20/2020	08/24/2020	08/26/2020	09/19/2020	08/27/2020
SB4-S1	SKA5086-AUG20	11	08/20/2020	08/20/2020	08/24/2020	08/26/2020	09/19/2020	08/27/2020
Mercury by CVAAS								
Method: EPA 7471A/EPA 245 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-004								
SB1-S1	EMS0140-AUG20	8	08/20/2020	08/20/2020	08/21/2020	08/24/2020	09/17/2020	08/25/2020
SB2-S1	EMS0140-AUG20	9	08/20/2020	08/20/2020	08/21/2020	08/24/2020	09/17/2020	08/25/2020
SB3-S1	EMS0140-AUG20	10	08/20/2020	08/20/2020	08/21/2020	08/24/2020	09/17/2020	08/25/2020
SB4-S1	EMS0140-AUG20	11	08/20/2020	08/20/2020	08/21/2020	08/24/2020	09/17/2020	08/25/2020
Metals in aqueous samples - ICP-OES								
Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-003								
SB1-S1	ESG0070-AUG20	8	08/20/2020	08/20/2020	08/24/2020	08/24/2020	02/16/2021	08/24/2020
SB2-S1	ESG0070-AUG20	9	08/20/2020	08/20/2020	08/24/2020	08/24/2020	02/16/2021	08/24/2020
SB3-S1	ESG0070-AUG20	10	08/20/2020	08/20/2020	08/24/2020	08/24/2020	02/16/2021	08/24/2020
SB4-S1	ESG0070-AUG20	11	08/20/2020	08/20/2020	08/24/2020	08/24/2020	02/16/2021	08/24/2020
Metals in Soil - Aqua-regia/ICP-MS								
Method: EPA 3050/EPA 200.8 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-005								
SB1-S1	EMS0140-AUG20	8	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
SB2-S1	EMS0140-AUG20	9	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
SB3-S1	EMS0140-AUG20	10	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
SB4-S1	EMS0140-AUG20	11	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
D3-S3	EMS0140-AUG20	16	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
D4-S3	EMS0140-AUG20	17	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Metals in Soil - Aqua-regia/ICP-MS (continued)								
Method: EPA 3050/EPA 200.8 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-005								
D6-S3	EMS0140-AUG20	18	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
D1-S1	EMS0140-AUG20	19	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
D5-S1	EMS0140-AUG20	20	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
D8-S1	EMS0140-AUG20	21	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
D10-S1	EMS0140-AUG20	22	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
D18-S1	EMS0140-AUG20	23	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
D12-S1	EMS0140-AUG20	24	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
D13-S1	EMS0140-AUG20	25	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
D14-S1	EMS0140-AUG20	26	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
D16-S1	EMS0140-AUG20	27	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
SDUP7	EMS0140-AUG20	44	08/20/2020	08/20/2020	08/21/2020	08/24/2020	02/16/2021	08/25/2020
Moisture								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
SB1-S1	GCM0371-AUG20	8	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
SB2-S1	GCM0371-AUG20	9	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
SB3-S1	GCM0371-AUG20	10	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
SB4-S1	GCM0371-AUG20	11	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
TR1-S1	GCM0405-AUG20	12	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D2-S3	GCM0371-AUG20	13	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D7-S3	GCM0371-AUG20	14	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D9-S3	GCM0371-AUG20	15	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D3-S3	GCM0371-AUG20	16	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D4-S3	GCM0371-AUG20	17	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D6-S3	GCM0371-AUG20	18	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D1-S1	GCM0371-AUG20	19	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D5-S1	GCM0371-AUG20	20	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D8-S1	GCM0371-AUG20	21	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D10-S1	GCM0371-AUG20	22	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D18-S1	GCM0371-AUG20	23	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D12-S1	GCM0371-AUG20	24	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D13-S1	GCM0371-AUG20	25	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D14-S1	GCM0371-AUG20	26	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D16-S1	GCM0371-AUG20	27	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D11-S1	GCM0371-AUG20	28	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D15-S1	GCM0371-AUG20	29	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D17-S1	GCM0371-AUG20	30	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D19-S1	GCM0371-AUG20	32	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D20-S1	GCM0371-AUG20	33	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Moisture (continued)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
D21-S1	GCM0371-AUG20	34	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D22-S1	GCM0371-AUG20	35	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D23-S1	GCM0371-AUG20	36	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D24-S1	GCM0371-AUG20	37	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D25-S1	GCM0371-AUG20	38	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D26-S1	GCM0371-AUG20	39	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D28-S1	GCM0371-AUG20	40	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D27-S1	GCM0371-AUG20	41	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D29-S1	GCM0371-AUG20	42	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
D30-S1	GCM0371-AUG20	43	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
SDUP8	GCM0371-AUG20	45	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
SDUP9	GCM0371-AUG20	46	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
SDUP10	GCM0371-AUG20	47	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
SDUP11	GCM0371-AUG20	48	08/20/2020	08/20/2020	08/26/2020	08/26/2020	10/19/2020	08/25/2020
Pesticides								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-018								
D2-S3	GCM0388-AUG20	13	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D7-S3	GCM0388-AUG20	14	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D9-S3	GCM0388-AUG20	15	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D3-S3	GCM0388-AUG20	16	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D4-S3	GCM0388-AUG20	17	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D6-S3	GCM0388-AUG20	18	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D1-S1	GCM0388-AUG20	19	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D5-S1	GCM0388-AUG20	20	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D8-S1	GCM0388-AUG20	21	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D10-S1	GCM0388-AUG20	22	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D18-S1	GCM0388-AUG20	23	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D12-S1	GCM0388-AUG20	24	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D13-S1	GCM0388-AUG20	25	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D14-S1	GCM0439-AUG20	26	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D16-S1	GCM0439-AUG20	27	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D11-S1	GCM0439-AUG20	28	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D15-S1	GCM0439-AUG20	29	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D17-S1	GCM0439-AUG20	30	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D19-S1	GCM0439-AUG20	32	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D20-S1	GCM0439-AUG20	33	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D21-S1	GCM0439-AUG20	34	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D22-S1	GCM0439-AUG20	35	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Pesticides (continued)								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-018								
D23-S1	GCM0439-AUG20	36	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D24-S1	GCM0439-AUG20	37	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D25-S1	GCM0439-AUG20	38	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D26-S1	GCM0439-AUG20	39	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D28-S1	GCM0439-AUG20	40	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D27-S1	GCM0439-AUG20	41	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D29-S1	GCM0514-AUG20	42	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
D30-S1	GCM0439-AUG20	43	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
SDUP8	GCM0514-AUG20	45	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
SDUP9	GCM0514-AUG20	46	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
SDUP10	GCM0514-AUG20	47	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
SDUP11	GCM0514-AUG20	48	08/20/2020	08/20/2020	08/24/2020	08/25/2020	09/29/2020	08/31/2020
Petroleum Hydrocarbons (F1)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
SB1-S1	GCM0392-AUG20	8	08/20/2020	08/20/2020	08/26/2020	08/26/2020	09/03/2020	08/25/2020
SB3-S1	GCM0392-AUG20	10	08/20/2020	08/20/2020	08/26/2020	08/26/2020	09/03/2020	08/25/2020
TR1-S1	GCM0392-AUG20	12	08/20/2020	08/20/2020	08/26/2020	08/26/2020	09/03/2020	08/25/2020
Petroleum Hydrocarbons (F2-F4)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
SB1-S1	GCM0450-AUG20	8	08/20/2020	08/20/2020	08/26/2020	08/26/2020	09/29/2020	08/27/2020
SB3-S1	GCM0450-AUG20	10	08/20/2020	08/20/2020	08/26/2020	08/26/2020	09/29/2020	08/27/2020
TR1-S1	GCM0450-AUG20	12	08/20/2020	08/20/2020	08/26/2020	08/26/2020	09/29/2020	08/27/2020
pH								
Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-001								
SB1-S1	ARD0081-AUG20	8	08/20/2020	08/20/2020	08/24/2020	08/24/2020	09/19/2020	08/24/2020
SB2-S1	ARD0081-AUG20	9	08/20/2020	08/20/2020	08/24/2020	08/24/2020	09/19/2020	08/24/2020
SB3-S1	ARD0081-AUG20	10	08/20/2020	08/20/2020	08/24/2020	08/24/2020	09/19/2020	08/24/2020
SB4-S1	ARD0081-AUG20	11	08/20/2020	08/20/2020	08/24/2020	08/24/2020	09/19/2020	08/24/2020
Polychlorinated Biphenyls								
Method: EPA 3570/8082A/8270C | Internal ref.: ME-CA-[ENV]GC-LAK-AN-001								
TR1-S1	GCM0449-AUG20	12	08/20/2020	08/20/2020	08/25/2020	08/25/2020	10/10/2021	08/26/2020
Semi-Volatile Organics								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-005								
SB1-S1	GCM0421-AUG20	8	08/20/2020	08/20/2020	08/25/2020	08/25/2020	10/19/2020	08/26/2020
SB2-S1	GCM0421-AUG20	9	08/20/2020	08/20/2020	08/25/2020	08/25/2020	10/19/2020	08/26/2020
SB3-S1	GCM0421-AUG20	10	08/20/2020	08/20/2020	08/25/2020	08/25/2020	10/19/2020	08/26/2020

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Semi-Volatile Organics (continued)								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-005								
SB4-S1	GCM0421-AUG20	11	08/20/2020	08/20/2020	08/25/2020	08/25/2020	10/19/2020	08/26/2020
Sodium adsorption ratio (SAR)								
Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-[ENV]ARD-LAK-AN-021								
SB1-S1	ESG0070-AUG20	8	08/20/2020	08/20/2020	08/24/2020	08/24/2020	02/16/2021	08/24/2020
SB2-S1	ESG0070-AUG20	9	08/20/2020	08/20/2020	08/24/2020	08/24/2020	02/16/2021	08/24/2020
SB3-S1	ESG0070-AUG20	10	08/20/2020	08/20/2020	08/24/2020	08/24/2020	02/16/2021	08/24/2020
SB4-S1	ESG0070-AUG20	11	08/20/2020	08/20/2020	08/24/2020	08/24/2020	02/16/2021	08/24/2020
Volatile Organics								
Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-[ENV]GC-LAK-AN-004								
SB1-S1	GCM0391-AUG20	8	08/20/2020	08/20/2020	08/24/2020	08/24/2020	09/03/2020	08/26/2020
SB3-S1	GCM0391-AUG20	10	08/20/2020	08/20/2020	08/24/2020	08/24/2020	09/03/2020	08/26/2020
TR1-S1	GCM0391-AUG20	12	08/20/2020	08/20/2020	08/24/2020	08/24/2020	09/03/2020	08/26/2020
Water Soluble Boron								
Method: O.Reg. 15 3/04 | Internal ref.: ME-CA-[ENV] SPE-LAK-AN-003								
SB1-S1	ESG0068-AUG20	8	08/20/2020	08/20/2020	08/22/2020	08/24/2020	02/16/2021	08/25/2020
SB2-S1	ESG0068-AUG20	9	08/20/2020	08/20/2020	08/22/2020	08/24/2020	02/16/2021	08/25/2020
SB3-S1	ESG0068-AUG20	10	08/20/2020	08/20/2020	08/22/2020	08/24/2020	02/16/2021	08/25/2020
SB4-S1	ESG0068-AUG20	11	08/20/2020	08/20/2020	08/22/2020	08/24/2020	02/16/2021	08/25/2020

QC SUMMARY

Conductivity

Method: EPA 6010/SM 2510 I Internal ref.: ME-CA-IENVIEWL-LAK-AN-006

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Conductivity	EWL0312-AUG20	mS/cm	0.002	<0.002	0	10	100	90	110	NA		

Cyanide by SFA

Method: SM 4500 I Internal ref.: ME-CA-IENVISFA-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Free Cyanide	SKA5067-AUG20	µg/g	0.05	<0.05	ND	20	99	80	120	99	75	125

Hexavalent Chromium by SFA

Method: EPA218.6/EPA3060A I Internal ref.: ME-CA-IENVISKA-LAK-AN-012

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Chromium VI	SKA5086-AUG20	ug/g	0.2	<0.2	ND	20	91	80	120	81	75	125

QC SUMMARY

Mercury by CVAAS

Method: EPA 7471A/EPA 245 | Internal ref.: ME-CA-IENVISPE-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Mercury	EMS0140-AUG20	µg/g	0.05	<0.05	6	20	101	80	120	97	70	130

Metals in aqueous samples - ICP-OES

Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-IENVISPE-LAK-AN-003

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
SAR Calcium	ESG0070-AUG20	mg/L	0.09	<0.09	1	20	99	80	120	99	70	130
SAR Magnesium	ESG0070-AUG20	mg/L	0.02	<0.02	5	20	97	80	120	102	70	130
SAR Sodium	ESG0070-AUG20	mg/L	0.15	<0.15	9	20	97	80	120	98	70	130

QC SUMMARY

Metals in Soil - Aqua-regia/ICP-MS

Method: EPA 3050/EPA 200.8 | Internal ref.: ME-CA-[ENVISPE-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Silver	EMS0140-AUG20	ug/g	0.05	<0.05	6	20	94	70	130	105	70	130
Arsenic	EMS0140-AUG20	µg/g	0.5	<0.5	3	20	96	70	130	104	70	130
Barium	EMS0140-AUG20	ug/g	0.1	<0.1	6	20	101	70	130	118	70	130
Beryllium	EMS0140-AUG20	µg/g	0.02	<0.02	2	20	98	70	130	109	70	130
Boron	EMS0140-AUG20	µg/g	1	<1	1	20	108	70	130	108	70	130
Cadmium	EMS0140-AUG20	µg/g	0.02	<0.02	15	20	97	70	130	115	70	130
Cobalt	EMS0140-AUG20	µg/g	0.01	<0.01	2	20	95	70	130	118	70	130
Chromium	EMS0140-AUG20	µg/g	0.5	<0.5	1	20	96	70	130	121	70	130
Copper	EMS0140-AUG20	µg/g	0.1	<0.1	0	20	97	70	130	113	70	130
Molybdenum	EMS0140-AUG20	µg/g	0.1	<0.1	14	20	91	70	130	117	70	130
Nickel	EMS0140-AUG20	ug/g	0.5	<0.5	1	20	92	70	130	116	70	130
Lead	EMS0140-AUG20	µg/g	0.1	<0.1	0	20	96	70	130	103	70	130
Antimony	EMS0140-AUG20	µg/g	0.8	<0.8	ND	20	100	70	130	103	70	130
Selenium	EMS0140-AUG20	µg/g	0.7	<0.7	ND	20	99	70	130	109	70	130
Thallium	EMS0140-AUG20	µg/g	0.02	<0.02	1	20	100	70	130	108	70	130
Uranium	EMS0140-AUG20	µg/g	0.002	<0.002	8	20	95	70	130	96	70	130
Vanadium	EMS0140-AUG20	µg/g	3	<3	0	20	96	70	130	117	70	130
Zinc	EMS0140-AUG20	µg/g	0.7	<0.7	7	20	95	70	130	112	70	130

QC SUMMARY

Pesticides

Method: EPA 3541/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-018

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Aldrin	GCM0439-AUG20	µg/g	0.05	< 0.05	ND	40	87	50	140	84	50	140
alpha-Chlordane	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	86	50	140	82	50	140
Dieldrin	GCM0439-AUG20	µg/g	0.05	< 0.05	ND	40	88	50	140	83	50	140
Endosulfan I	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	88	50	140	84	50	140
Endosulfan II	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	83	50	140	81	50	140
Endrin	GCM0439-AUG20	µg/g	0.04	< 0.04	ND	40	87	50	140	85	50	140
gamma-BHC	GCM0439-AUG20	µg/g	0.01	< 0.01	ND	40	88	50	140	83	50	140
gamma-Chlordane	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	85	50	140	82	50	140
Heptachlor epoxide	GCM0439-AUG20	µg/g	0.01	< 0.01	ND	40	86	50	140	83	50	140
Heptachlor	GCM0439-AUG20	µg/g	0.01	< 0.01	ND	40	85	50	140	81	50	140
Hexachlorobenzene	GCM0439-AUG20	µg/g	0.01	< 0.01	ND	40	86	50	140	83	50	140
Hexachlorobutadiene	GCM0439-AUG20	µg/g	0.01	< 0.01	ND	40	78	50	140	77	50	140
Hexachloroethane	GCM0439-AUG20	µg/g	0.01	< 0.01	ND	40	71	50	140	68	50	140
Methoxychlor	GCM0439-AUG20	µg/g	0.05	< 0.05	ND	40	93	50	140	94	50	140
o,p-DDD	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	84	50	140	81	50	140
o,p-DDE	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	89	50	140	86	50	140
op-DDT	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	83	50	140	82	50	140
pp-DDD	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	81	50	140	79	50	140
pp-DDE	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	88	50	140	87	50	140
pp-DDT	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	92	50	140	91	50	140

QC SUMMARY

Pesticides (continued)

Method: EPA 3541/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-018

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Aldrin	GCM0514-AUG20	µg/g	0.05	< 0.05	ND	40	94	50	140	93	50	140
alpha-Chlordane	GCM0514-AUG20	µg/g	0.02	< 0.02	ND	40	92	50	140	91	50	140
Dieldrin	GCM0514-AUG20	µg/g	0.05	< 0.05	ND	40	94	50	140	95	50	140
Endosulfan I	GCM0514-AUG20	µg/g	0.02	< 0.02	ND	40	104	50	140	110	50	140
Endosulfan II	GCM0514-AUG20	µg/g	0.02	< 0.02	ND	40	86	50	140	81	50	140
Endrin	GCM0514-AUG20	µg/g	0.04	< 0.04	ND	40	99	50	140	98	50	140
gamma-BHC	GCM0514-AUG20	µg/g	0.01	< 0.01	ND	40	93	50	140	96	50	140
gamma-Chlordane	GCM0514-AUG20	µg/g	0.02	< 0.02	ND	40	92	50	140	91	50	140
Heptachlor epoxide	GCM0514-AUG20	µg/g	0.01	< 0.01	ND	40	91	50	140	92	50	140
Heptachlor	GCM0514-AUG20	µg/g	0.01	< 0.01	ND	40	90	50	140	91	50	140
Hexachlorobenzene	GCM0514-AUG20	µg/g	0.01	< 0.01	ND	40	94	50	140	94	50	140
Hexachlorobutadiene	GCM0514-AUG20	µg/g	0.01	< 0.01	ND	40	94	50	140	95	50	140
Hexachloroethane	GCM0514-AUG20	µg/g	0.01	< 0.01	ND	40	92	50	140	93	50	140
Methoxychlor	GCM0514-AUG20	µg/g	0.05	< 0.05	ND	40	103	50	140	95	50	140
o,p-DDD	GCM0514-AUG20	µg/g	0.02	< 0.02	ND	40	93	50	140	96	50	140
o,p-DDE	GCM0514-AUG20	µg/g	0.02	< 0.02	ND	40	93	50	140	93	50	140
op-DDT	GCM0514-AUG20	µg/g	0.02	< 0.02	ND	40	93	50	140	89	50	140
pp-DDD	GCM0514-AUG20	µg/g	0.02	< 0.02	ND	40	91	50	140	98	50	140
pp-DDE	GCM0514-AUG20	µg/g	0.02	< 0.02	ND	40	92	50	140	91	50	140
pp-DDT	GCM0514-AUG20	µg/g	0.02	< 0.02	ND	40	99	50	140	90	50	140

QC SUMMARY

Pesticides (continued)

Method: EPA 3541/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-018

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Aldrin	GCM0388-AUG20	µg/g	0.05	< 0.05	ND	40	88	50	140	97	50	140
alpha-Chlordane	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	87	50	140	98	50	140
Dieldrin	GCM0388-AUG20	µg/g	0.05	< 0.05	ND	40	87	50	140	100	50	140
Endosulfan I	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	86	50	140	98	50	140
Endosulfan II	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	87	50	140	91	50	140
Endrin	GCM0388-AUG20	µg/g	0.04	< 0.04	ND	40	87	50	140	110	50	140
gamma-BHC	GCM0388-AUG20	µg/g	0.01	< 0.01	ND	40	89	50	140	94	50	140
gamma-Chlordane	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	87	50	140	98	50	140
Heptachlor epoxide	GCM0388-AUG20	µg/g	0.01	< 0.01	ND	40	87	50	140	98	50	140
Heptachlor	GCM0388-AUG20	µg/g	0.01	< 0.01	ND	40	85	50	140	96	50	140
Hexachlorobenzene	GCM0388-AUG20	µg/g	0.01	< 0.01	ND	40	89	50	140	93	50	140
Hexachlorobutadiene	GCM0388-AUG20	µg/g	0.01	< 0.01	ND	40	89	50	140	93	50	140
Hexachloroethane	GCM0388-AUG20	µg/g	0.01	< 0.01	ND	40	87	50	140	91	50	140
Methoxychlor	GCM0388-AUG20	µg/g	0.05	< 0.05	ND	40	88	50	140	102	50	140
o,p-DDD	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	85	50	140	106	50	140
o,p-DDE	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	89	50	140	101	50	140
op-DDT	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	83	50	140	89	50	140
pp-DDD	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	82	50	140	113	50	140
pp-DDE	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	89	50	140	100	50	140
pp-DDT	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	86	50	140	89	50	140

QC SUMMARY

Petroleum Hydrocarbons (F1)

Method: CCME Tier 1 I Internal ref.: ME-CA-IENVIGC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F1 (C6-C10)	GCM0392-AUG20	µg/g	10	<10	ND	30	94	80	120	91	60	140

Petroleum Hydrocarbons (F2-F4)

Method: CCME Tier 1 I Internal ref.: ME-CA-IENVIGC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F2 (C10-C16)	GCM0450-AUG20	µg/g	10	<10	ND	30	100	80	120	93	60	140
F3 (C16-C34)	GCM0450-AUG20	µg/g	50	<50	ND	30	100	80	120	93	60	140
F4 (C34-C50)	GCM0450-AUG20	µg/g	50	<50	ND	30	100	80	120	93	60	140

QC SUMMARY

pH

Method: SM 4500 I Internal ref.: ME-CA-IENVIEWL-LAK-AN-001

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
pH	ARD0081-AUG20	pH Units	0.05		0	20	100	80	120			

Polychlorinated Biphenyls

Method: EPA 3570/8082A/8270C I Internal ref.: ME-CA-IENVIGC-LAK-AN-001

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Polychlorinated Biphenyls (PCBs) - Total	GCM0426-AUG20	µg/g	0.3	< 0.3	ND	40	90	60	140	99	60	140
Polychlorinated Biphenyls (PCBs) - Total	GCM0449-AUG20	µg/g	0.3	< 0.3	ND	40	92	60	140	89	60	140

QC SUMMARY

Semi-Volatile Organics

Method: EPA 3541/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Naphthalene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	90	50	140	87	50	140
Phenanthrene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	90	50	140	87	50	140
Pyrene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	96	50	140	95	50	140
1-Methylnaphthalene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	93	50	140	88	50	140
2-Methylnaphthalene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	89	50	140	85	50	140
Acenaphthene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	94	50	140	91	50	140
Acenaphthylene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	87	50	140	87	50	140
Anthracene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	89	50	140	87	50	140
Benzo(a)anthracene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	89	50	140	93	50	140
Benzo(a)pyrene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	91	50	140	96	50	140
Benzo(b+j)fluoranthene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	81	50	140	95	50	140
Benzo(ghi)perylene	GCM0421-AUG20	µg/g	0.1	< 0.1	ND	40	89	50	140	70	50	140
Benzo(k)fluoranthene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	92	50	140	87	50	140
Chrysene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	90	50	140	87	50	140
Dibenzo(a,h)anthracene	GCM0421-AUG20	µg/g	0.06	< 0.06	ND	40	88	50	140	75	50	140
Fluoranthene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	92	50	140	93	50	140
Fluorene	GCM0421-AUG20	µg/g	0.05	< 0.05	ND	40	94	50	140	91	50	140
Indeno(1,2,3-cd)pyrene	GCM0421-AUG20	µg/g	0.1	< 0.1	ND	40	88	50	140	75	50	140

QC SUMMARY

Volatile Organics

Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-IENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
1,1,1,2-Tetrachloroethane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	91	60	130	94	50	140
1,1,1-Trichloroethane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	94	50	140
1,1,2,2-Tetrachloroethane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	86	50	140
1,1,2-Trichloroethane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	90	50	140
1,1-Dichloroethane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	93	50	140
1,1-Dichloroethylene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	96	50	140
1,2-Dichlorobenzene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	89	50	140
1,2-Dichloroethane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	89	50	140
1,2-Dichloropropane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	92	50	140
1,3-Dichlorobenzene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	90	50	140
1,4-Dichlorobenzene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	89	50	140
Acetone	GCM0391-AUG20	µg/g	0.5	< 0.5	ND	50	89	50	140	75	50	140
Benzene	GCM0391-AUG20	µg/g	0.02	< 0.02	ND	50	89	60	130	94	50	140
Bromodichloromethane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	91	50	140
Bromoform	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	86	60	130	83	50	140
Bromomethane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	86	50	140	90	50	140
Carbon tetrachloride	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	93	50	140
Chlorobenzene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	93	50	140
Chloroform	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	92	50	140
cis-1,2-Dichloroethylene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	93	50	140

QC SUMMARY

Volatile Organics (continued)

Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-IENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
cis-1,3-dichloropropene	GCM0391-AUG20	µg/g	0.03	< 0.03	ND	50	91	60	130	85	50	140
Dibromochloromethane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	88	50	140
Dichlorodifluoromethane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	74	50	140	74	50	140
Ethylbenzene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	95	50	140
Ethylenedibromide	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	91	60	130	89	50	140
n-Hexane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	95	60	130	79	50	140
m/p-xylene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	94	50	140
Methyl ethyl ketone	GCM0391-AUG20	µg/g	0.5	< 0.5	ND	50	90	50	140	77	50	140
Methyl isobutyl ketone	GCM0391-AUG20	µg/g	0.5	< 0.5	ND	50	92	50	140	85	50	140
Methyl-t-butyl Ether	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	91	60	130	89	50	140
Methylene Chloride	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	88	60	130	92	50	140
o-xylene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	95	50	140
Styrene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	94	50	140
Tetrachloroethylene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	90	50	140
Toluene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	94	50	140
trans-1,2-Dichloroethylene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	88	60	130	92	50	140
trans-1,3-dichloropropene	GCM0391-AUG20	µg/g	0.03	< 0.03	ND	50	93	60	130	86	50	140
Trichloroethylene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	89	60	130	93	50	140
Trichlorofluoromethane	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	92	50	140	192	50	140
Vinyl Chloride	GCM0391-AUG20	µg/g	0.02	< 0.02	ND	50	80	50	140	85	50	140

QC SUMMARY

Water Soluble Boron

Method: O.Reg. 15 3/04 | Internal ref.: ME-CA-[ENV] SPE-LAK-AN-003

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Water Soluble Boron	ESG0068-AUG20	µg/g	0.5	<0.5	ND	20	98	80	120	107	70	130

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS	Insufficient sample for analysis.
RL	Reporting Limit.
↑	Reporting limit raised.
↓	Reporting limit lowered.
NA	The sample was not analysed for this analyte
ND	Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. “Temperature Upon Receipt” is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

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-- End of Analytical Report --

SGS

Request for Laboratory Services and CHAIN OF CUSTODY

No: 016587

Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

Laboratory Information Section - Lab use only

Received By: [illegible]
Received Date: 08/20/2020 (mm/dd/yy)
Received Time: 17:45 (hr:min)
Received By (signature): [illegible]
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C): 9°, 12°, 8°
LAB LIMS #: CA14587-AUG20

REPORT INFORMATION	INVOICE INFORMATION
Company: DS Consultants	☑ (same as Report Information)
Contact: Kirstin Olsen	Company:
Address: 6221 Vaughan Hwy 7, Vaughan, ON	Contact:
Phone:	Address:
Fax: Kirstin.Olsen@dsconsultants.com	Phone: accounting@dsconsultants.ca
Email:	Email:

Quotation #:
Project #: 20-186-100
P.O. #:
Site Location/ID: 1300 Bronfield

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)
TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐1 Day ☐2 Days ☐3 Days ☐4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

*NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

☐ O.Reg 153/04 ☐ O.Reg 406/19
☑ Table 1 ☑ Res/Park Soil Texture: ☑ Coarse
☐ Table 2 ☐ Ind/Com ☐ Medium/Fine
☐ Table 3 ☐ Agri/Other
☐ Table ____
Soil Volume ☐<350m3 ☐ >350m3

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA ☐ ODWS Not Reportable *See note

Sewer By-Law: ☐ Sanitary ☐ Storm
Municipality:

RECORD OF SITE CONDITION (RSC) ☐ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	Metals & Inorganics incl CrVI, CN, Hg pH,(B(HWS),EC,SAR-soil) (Cl, Na-water)	Full Metals Suite ICP metals plus B(HWS-soil only) Hg, CrVI	ICP Metals only Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,	PAHs only	SVOCs all incl PAHs, ABNs, CPs	PCBs ☐ Total ☐ Aroclor	F1-F4 + BTEX	F1-F4 only no BTEX	VOCs all incl BTEX	BTEX only	Pesticides Organochlorine or specify other	Other (please specify)				Appendix 2: 406/19 Leachate Screening Levels Table:	Sewer Use: Specify pkg:	Water Characterization Pkg General ☐ Extended ☐	TCLP Specify TCLP tests ☐M&I ☐VOC ☐PCB ☐B(a)P ☐ABN ☐Ignit.	COMMENTS:
1	SB1-S1	8/20/2020	P.M	5	Soil		✓			✓			✓		✓											
2	SB2-S1			2			✓			✓																
3	SB3-S1			5			✓			✓			✓		✓											
4	SB4-S1			2			✓			✓																
5	TR1-S1			2								✓	✓	[illegible]												
6	D2-S3			1													✓									
7	D7-S3			1													✓									
8	D9-S3			1													✓									
9	D3-S3			1					✓								✓									
10	D4-S3			1					✓								✓									
11	D6-S3			1					✓								✓									
12	D1-S1			1					✓								✓									

Observations/Comments/Special Instructions

Sampled By (NAME): Aidan Doak Signature: [illegible] Date: 08/20/20 (mm/dd/yy) Pink Copy - Client
Relinquished by (NAME): Aidan Doak Signature: [illegible] Date: 08/20/20 (mm/dd/yy) Yellow & White Copy - SGS

Revision #: 1.4
Date of Issue: 22 May 2020
Note: Submission of samples to SGS is acknowledgement that you have been provided direction on sample collection/handling and transportation of samples. (2) Submission of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g. shipping documents). (3) Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

SGS Environment, Health & Safety

Request for Laboratory Services and CHAIN OF CUSTODY

- Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No: 014094

Laboratory Information Section - Lab use only

Received By: [illegible] Received By (signature): [illegible]
Received Date: 08/20/2020 (mm/dd/yy) Custody Seal Present: Yes ☑ No ☐ Cooling Agent Present: Yes ☐ No ☑ Type: Ice
Received Time: 17:45 (hr : min) Custody Seal Intact: Yes ☑ No ☐ Temperature Upon Receipt (°C) 9°C, 9°C, 9°C LAB LIMS #:

REPORT INFORMATION	INVOICE INFORMATION
Company: DS	☐ (same as Report Information)
Contact: Kirstin Olsen	Company:
Address: 6221 Hwy 7 Vaughan, ON	Contact:
Phone:	Address:
Fax:	Phone:
Email: Kirstin.Olsen@dsconsultants.ca	Email: accounting@dsconsultants.ca

Quotation #: P.O. #:
Project #: 20-186-100 Site Location/ID: 1300 Bronte Rd

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days) — TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date: **NOTE:** DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☑ Res/Park ☐ Table 2 ☐ Ind/Com ☐ Table 3 ☐ Agri/Other ☐ Table ____ Soil Texture: ☑ Coarse ☐ Medium ☐ Fine

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	Metals & Inorganics (incl CrVI, CN,Hg pH,(B(HWS),EC,SAR-soil) (Cl, Na-water)	Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	ICP Metals only (Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni, Se,Ag,Tl,U,V,Zn	PAHs only	SVOCs (all incl PAHs, ABNs, CPs	PCBs Total ☐ Aroclor ☐	F1-F4 + BTEX	F1-F4 only (no BTEX	VOCs (all incl BTEX	BTEX only	Pesticides (Organochlorine or specify other	Other (please specify)					Sewer Use: (Specify pkg)	Water Characterization Pkg General ☐ Extended ☐	TCLP (Specify TCLP tests ☐M&I ☐VOC ☐PCB ☐B(a)P ☐ABN ☐Ignit.	COMMENTS:
1	D5-S1	8/20/2020	P.M	1	Soil				✓								✓									
2	D8-S1								✓								✓									
3	D10-S1								✓								✓									
4	D18-S1								✓								✓									
5	~~D10 S1~~								✓								✓									
6	D12-S1								✓								✓									
7	D13-S1								✓								✓									
8	D14-S1								✓								✓									
9	D16-S1								✓								✓									
10	D11-S1			1					✓								✓									
11	D15-S1			1					✓								✓									
12	D17-S1			1					✓								✓									

Observations/Comments/Special Instructions

Sampled By (NAME): Aidan Doak Signature: Date: 08/20/20 (mm/dd/yy) Pink Copy - Client

Relinquished by (NAME): Aidan Doak Signature: Date: 08/20/20 (mm/dd/yy) Yellow & White Copy - SGS

Revision #: 1.2
Date of Issue: 09 Sept, 2019

Note: Submission of samples to SGS is acknowledgement that you have been provided direction on sample collection/handling and transportation of samples. {2} Submission of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g. shipping documents). {3} Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

SGS Environment, Health & Safety

Request for Laboratory Services and CHAIN OF CUSTODY

- Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No: 014095

Laboratory Information Section - Lab use only

Received By: Shell R
Received Date: 08/20/2020 (mm/dd/yy)
Received Time: 17:45 (hr : min)
Received By (signature):
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: Ice
Temperature Upon Receipt (°C): 9.2 9.8 9.2
LAB LIMS #:

REPORT INFORMATION

Company: DS
Contact: Kirstin Olsen
Address: 6221 Hwy 7. Unit 16
Phone:
Fax:
Email: Kirstin.Olsen@dsconsultants.ca

INVOICE INFORMATION

☐ (same as Report Information)
Company:
Contact:
Address:
Phone:
accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID: 13001 Blue Rd

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)

TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☐ Table 2 ☐ Table 3 ☐ Table ____ ☑ Res/Park ☐ Ind/Com ☐ Agri/Other Soil Texture: ☑ Coarse ☐ Medium ☐ Fine

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	Metals & Inorganics (incl CrVI, CN, Hg pH,(B(HWS),EC,SAR–soil) (Cl, Na–water)	Full Metals Suite (ICP metals plus B(HWS-soil only), Hg, CrVI	ICP Metals only Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni, Se,Ag,Tl,U,V,Zn	PAHs only	SVOCs all incl PAHs, ABNs, CPs	PCBs Total ☐ Aroclor ☐	F1-F4 + BTEX	F1-F4 only no BTEX	VOCs all incl BTEX	BTEX only	Pesticides Organochlorine or specify other	Other (please specify)					Sewer Use: Specify pkg:	Water Characterization Pkg General ☐ Extended ☐	TCLP Specify TCLP tests ☐M&I ☐VOC ☐PCB ☐B(a)P ☐ABN ☐Ignit.	COMMENTS:
1	D18-S1	8/20/2020	P.M	1	Soil												✓								
2	D19-S1	↓	↓	↓	↓												✓								
3	D20-S1																✓								
4	D21-S1																✓								
5	D22-S1																✓								
6	D23-S1																✓								
7	D24-S1																✓								
8	D25-S1																✓								
9	D26-S1																✓								
10	D28-S1																✓								
11	D27-S1																✓								
12	D29-S1																✓								

Observations/Comments/Special Instructions

Sampled By (NAME): Ardan Dock Signature: Date: 08/20/20 (mm/dd/yy)
Relinquished by (NAME): Ardan Dock Signature: Date: 08/20/20 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.2
Date of Issue: 09 Sept, 2019

Note: Submission of samples to SGS is acknowledgement that you have been provided direction on sample collection/handling and transportation of samples. (2) Submission of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g. shipping documents). (3) Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

SGS Request for Laboratory Services and CHAIN OF CUSTODY

Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No: 014096

Laboratory Information Section - Lab use only

Received By: Scott R
Received Date: 08/20/2020 (mm/dd/yy)
Received Time: 17:45 (hr : min)
Received By (signature):
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: ~~Yes~~ ☑ No ☐ Type: Ice
Temperature Upon Receipt (°C): 9°C, 9°C, 8°C
LAB LIMS #:

REPORT INFORMATION

Company: DS
Contact: Kirstin Olsen
Address: 6221 Hwy 7, Unit 10, Vaughan, ON
Phone:
Fax:
Email: Kirstin.olsen@dsconsultants.ca

INVOICE INFORMATION

☐ (same as Report Information)
Company:
Contact:
Address:
Phone:
Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID: 1300 Bonte Rd

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)
TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☑ Res/Park ☐ Table 2 ☐ Ind/Com ☐ Table 3 ☐ Agri/Other ☐ Table ____
Soil Texture: ☑ Coarse ☐ Medium ☐ Fine

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm
Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	M&I: Metals & Inorganics (incl CrVI, CN,Hg pH,(B(HWS),EC,SAR-soil) (Cl, Na-water)	M&I: Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	M&I: ICP Metals only (Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni, Se,Ag,Tl,U,V,Zn	SVOC: PAHs only	SVOC: SVOCs all incl PAHs, ABNs, CPs	PCB: PCBs Total ☐ Aroclor ☐	PHC: F1-F4 + BTEX	PHC: F1-F4 only no BTEX	VOC: VOCs all incl BTEX	VOC: BTEX only	Pest: Pesticides Organochlorine or specify other	Other (please specify)					Sewer Use: Specify pkg:	Water Characterization Pkg General ☐ Extended ☐	TCLP Specify TCLP tests ☐M&I ☐VOC ☐PCB ☐B(a)P ☐ABN ☐Ignit.	COMMENTS:
1	D30-S1	8/20/2020	P.M	1	Soil												✓								
2	SDup7	↓	↓	↓	↓				✓																
3	SDup8																✓								
4	SDup9																✓								
5	SDup10																✓								
6	SDup11																✓								
7																									
8																									
9																									
10																									
11																									
12																									

Observations/Comments/Special Instructions

Sampled By (NAME): Andan Dods
Signature:
Date: 08/20/20 (mm/dd/yy)
Relinquished by (NAME): Andan Dods
Signature:
Date: 08/20/20 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.2
Date of Issue: 09 Sept, 2019

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FINAL REPORT

CA14598-AUG20 R

20-186-100, Bronte Road

Prepared for

DS Consultants

FINAL REPORT

CA14598-AUG20 R

First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	DS Consultants	Project Specialist	Jill Campbell, B.Sc.,GISAS
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16 Vaughan, Ontario L4H 0K8. Canada	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Kirstin Olsen	Telephone	2165
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	jill.campbell@sgs.com
Email	kirstin.olsen@dsconsultants.ca	SGS Reference	CA14598-AUG20
Project	20-186-100, Bronte Road	Received	08/21/2020
Order Number		Approved	08/31/2020
Samples	soil (2)	Report Number	CA14598-AUG20 R
		Date Reported	08/31/2020

COMMENTS

CCME Method Compliance: Analyses were conducted using analytical procedures that comply with the Reference Method for the CWS for Petroleum Hydrocarbons in Soil and have been validated for use at the SGS laboratory, Lakefield, ON site.

Quality Compliance: Instrument performance / calibration quality criteria were met and extraction and analysis limits for holding times were met.

nC6 and nC10 response factors within 30% of response factor for toluene: YES

nC10, nC16 and nC34 response factors within 10% of the average response for the three compounds: YES

C50 response factors within 70% of nC10 + nC16 + nC34 average: YES

Linearity is within 15%: YES

F4G - gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
The results for F4 and F4G are both reported and the greater of the two values is to be used in application to the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

Benzo(b)fluoranthene results for comparison to the standard are reported as benzo(b+j)fluoranthene. Benzo(b)fluoranthene and benzo(j)fluoranthene co-elute and cannot be reported individually by the analytical method used.

Temperature of Sample upon Receipt: 9 degrees C
Cooling Agent Present:Yes
Custody Seal Present:Yes

Chain of Custody Number:NA

SIGNATORIES

Jill Campbell, B.Sc.,GISAS

Jill Campbell

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Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - BTEX** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Sample Number	9
Sample Name	MW20-11 SS5
Sample Matrix	soil
Sample Date	19/08/2020

Parameter	Units	RL	L1	Result
BTEX				
Benzene	µg/g	0.02	0.02	< 0.02
Ethylbenzene	µg/g	0.05	0.05	< 0.05
Toluene	µg/g	0.05	0.2	< 0.05
Xylene (total)	µg/g	0.05	0.05	< 0.05
m/p-xylene	µg/g	0.05		< 0.05
o-xylene	µg/g	0.05		< 0.05

PACKAGE: **REG153 - Hydrides** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Sample Number	8
Sample Name	MW20-11 SS1
Sample Matrix	soil
Sample Date	19/08/2020

Parameter	Units	RL	L1	Result
Hydrides				
Antimony	µg/g	0.8	1.3	< 0.8
Arsenic	µg/g	0.5	18	4.3
Selenium	µg/g	0.7	1.5	< 0.7

FINAL REPORT

CA14598-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

			Sample Number	8	9
			Sample Name	MW20-11 SS1	MW20-11 SS5
			Sample Matrix	soil	soil
			Sample Date	19/08/2020	19/08/2020
Parameter	**Units**	**RL**	**L1**	**Result**	**Result**
Metals and Inorganics					
Moisture Content	%	-		10.1	12.1
Barium	µg/g	0.1	220	60	
Beryllium	µg/g	0.02	2.5	0.49	
Boron	µg/g	1	36	6	
Cadmium	µg/g	0.02	1.2	0.25	
Chromium	µg/g	0.5	70	13	
Cobalt	µg/g	0.01	21	6.8	
Copper	µg/g	0.1	92	22	
Lead	µg/g	0.1	120	33	
Molybdenum	µg/g	0.1	2	5.8	
Nickel	µg/g	0.5	82	15	
Silver	µg/g	0.05	0.5	< 0.05	
Thallium	µg/g	0.02	1	0.09	
Uranium	µg/g	0.002	2.5	0.39	
Vanadium	µg/g	3	86	19	
Zinc	µg/g	0.7	290	90	
Water Soluble Boron	µg/g	0.5		< 0.5	

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Sample Number	8
Sample Name	MW20-11 SS1
Sample Matrix	soil
Sample Date	19/08/2020

Parameter	Units	RL	L1	Result
Organochlorine Pests (OCs)				
Aldrin	µg/g	0.05	0.05	< 0.05
alpha-Chlordane	µg/g	0.02		< 0.02
gamma-Chlordane	µg/g	0.02		< 0.02
Chlordane (total)	µg/g	0.05	0.05	< 0.05
o,p-DDD	µg/g	0.02		< 0.02
pp-DDD	µg/g	0.02		< 0.02
DDD (total)	µg/g	0.05	0.05	< 0.05
o,p-DDE	µg/g	0.02		< 0.02
pp-DDE	µg/g	0.02		< 0.02
DDE (total)	µg/g	0.05	0.05	< 0.05
op-DDT	µg/g	0.02		< 0.02
pp-DDT	µg/g	0.02		< 0.02
DDT (total)	µg/g	0.05	1.4	< 0.05
Dieldrin	µg/g	0.05	0.05	< 0.05
gamma-BHC	µg/g	0.01	0.01	< 0.01
Endosulfan I	µg/g	0.02		< 0.02
Endosulfan II	µg/g	0.02		< 0.02
Endosulfan (total)	µg/g	0.04	0.04	< 0.04
Endrin	µg/g	0.04	0.04	< 0.04
Heptachlor	µg/g	0.01	0.05	< 0.01
Heptachlor epoxide	µg/g	0.01	0.05	< 0.01
Hexachlorobenzene	µg/g	0.01	0.01	< 0.01

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Sample Number	8
Sample Name	MW20-11 SS1
Sample Matrix	soil
Sample Date	19/08/2020

Parameter	Units	RL	L1	Result
Organochlorine Pests (OCs) (continued)				
Hexachlorobutadiene	µg/g	0.01	0.01	< 0.01
Hexachloroethane	µg/g	0.01	0.01	< 0.01
Methoxychlor	µg/g	0.05	0.05	< 0.05

PACKAGE: **REG153 - Other (ORP)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Sample Number	8
Sample Name	MW20-11 SS1
Sample Matrix	soil
Sample Date	19/08/2020

Parameter	Units	RL	L1	Result
Other (ORP)				
Mercury	µg/g	0.05	0.27	< 0.05
Sodium Adsorption Ratio	No unit	0.2	2.4	0.3
SAR Calcium	mg/L	0.09		25.0
SAR Magnesium	mg/L	0.02		2.9
SAR Sodium	mg/L	0.15		5.6
Conductivity	mS/cm	0.002	0.57	0.15
pH	pH Units	0.05		7.28
Chromium VI	µg/g	0.2	0.66	0.3
Free Cyanide	µg/g	0.05	0.051	< 0.05

FINAL REPORT

CA14598-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - PAHs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Sample Number	8
Sample Name	MW20-11 SS1
Sample Matrix	soil
Sample Date	19/08/2020

Parameter	Units	RL	L1	Result
PAHs				
Acenaphthene	µg/g	0.05	0.072	< 0.05
Acenaphthylene	µg/g	0.05	0.093	< 0.05
Anthracene	µg/g	0.05	0.16	< 0.05
Benzo(a)anthracene	µg/g	0.05	0.36	0.08
Benzo(a)pyrene	µg/g	0.05	0.3	0.12
Benzo(b+j)fluoranthene	µg/g	0.05	0.47	0.20
Benzo(ghi)perylene	µg/g	0.1	0.68	< 0.1
Benzo(k)fluoranthene	µg/g	0.05	0.48	0.08
Chrysene	µg/g	0.05	2.8	0.15
Dibenzo(a,h)anthracene	µg/g	0.06	0.1	< 0.06
Fluoranthene	µg/g	0.05	0.56	0.26
Fluorene	µg/g	0.05	0.12	< 0.05
Indeno(1,2,3-cd)pyrene	µg/g	0.1	0.23	< 0.1
1-Methylnaphthalene	µg/g	0.05		< 0.05
2-Methylnaphthalene	µg/g	0.05		< 0.05
Methylnaphthalene, 2-(1-)	µg/g	0.05	0.59	< 0.05
Naphthalene	µg/g	0.05	0.09	< 0.05
Phenanthrene	µg/g	0.05	0.69	0.08
Pyrene	µg/g	0.05	1	0.19

FINAL REPORT

CA14598-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - Pesticides Surrogate** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Sample Number	8
Sample Name	MW20-11 SS1
Sample Matrix	soil
Sample Date	19/08/2020

Parameter	Units	RL	L1	Result
Pesticides Surrogate				
Surr Decachlorobiphenyl	Surr Rec %	-		105

PACKAGE: **REG153 - PHCs** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Sample Number	9
Sample Name	MW20-11 SS5
Sample Matrix	soil
Sample Date	19/08/2020

Parameter	Units	RL	L1	Result
PHCs				
F1 (C6-C10)	µg/g	10	25	< 10
F1-BTEX (C6-C10)	µg/g	10		< 10
F2 (C10-C16)	µg/g	10	10	13
F3 (C16-C34)	µg/g	50	240	65
F4 (C34-C50)	µg/g	50	120	< 50
Chromatogram returned to baseline at nC50	Yes / No	-		YES

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - SVOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Sample Number	8
Sample Name	MW20-11 SS1
Sample Matrix	soil
Sample Date	19/08/2020

Parameter	Units	RL	L1	Result
SVOC Surrogates				
Surr Nitrobenzene-d5	Surr Rec %	-		82
Surr 2-Fluorobiphenyl	Surr Rec %	-		95
Surr 4-Terphenyl-d14	Surr Rec %	-		95
Surr 2-Fluorophenol	Surr Rec %	-		76
Surr Phenol-d6	Surr Rec %	-		82
Surr 2,4,6-Tribromophenol	Surr Rec %	-		78

PACKAGE: **REG153 - VOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Sample Number	8
Sample Name	MW20-11 SS1
Sample Matrix	soil
Sample Date	19/08/2020

Parameter	Units	RL	L1	Result
VOC Surrogates				
Surr TCMX	Surr Rec %	-		93

EXCEEDANCE SUMMARY

Parameter	Method	Units	Result	REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED L1
MW20-11 SS1				
Molybdenum	EPA 3050/EPA 200.8	µg/g	5.8	2
MW20-11 SS5				
F2 (C10 to C16)	CCME Tier 1	µg/g	13	10

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Conductivity								
Method: EPA 6010/SM 2510 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-006								
MW20-11 SS1	EWL0377-AUG20	8	08/19/2020	08/21/2020	08/27/2020	08/27/2020	09/16/2020	08/27/2020
Cyanide by SFA								
Method: SM 4500 | Internal ref.: ME-CA-[ENV]SFA-LAK-AN-005								
MW20-11 SS1	SKA5087-AUG20	8	08/19/2020	08/21/2020	08/24/2020	08/25/2020	09/02/2020	08/25/2020
Hexavalent Chromium by SFA								
Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-[ENV]SKA-LAK-AN-012								
MW20-11 SS1	SKA5086-AUG20	8	08/19/2020	08/21/2020	08/24/2020	08/26/2020	09/18/2020	08/27/2020
Mercury by CVAAS								
Method: EPA 7471A/EPA 245 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-004								
MW20-11 SS1	EMS0177-AUG20	8	08/19/2020	08/21/2020	08/26/2020	08/27/2020	09/16/2020	08/28/2020
Metals in aqueous samples - ICP-OES								
Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-003								
MW20-11 SS1	ESG0083-AUG20	8	08/19/2020	08/21/2020	08/27/2020	08/27/2020	02/15/2021	08/27/2020
Metals in Soil - Aqua-regia/ICP-MS								
Method: EPA 3050/EPA 200.8 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-005								
MW20-11 SS1	EMS0177-AUG20	8	08/19/2020	08/21/2020	08/26/2020	08/27/2020	02/15/2021	08/31/2020
Moisture								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-11 SS1	GCM0405-AUG20	8	08/19/2020	08/21/2020	08/26/2020	08/27/2020	10/18/2020	08/25/2020
MW20-11 SS5	GCM0405-AUG20	9	08/19/2020	08/21/2020	08/26/2020	08/27/2020	10/18/2020	08/25/2020
Pesticides								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-018								
MW20-11 SS1	GCM0388-AUG20	8	08/19/2020	08/21/2020	08/24/2020	08/25/2020	09/28/2020	08/27/2020
Petroleum Hydrocarbons (F1)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-11 SS5	GCM0392-AUG20	9	08/19/2020	08/21/2020	08/26/2020	08/27/2020	09/02/2020	08/25/2020
Petroleum Hydrocarbons (F2-F4)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-11 SS5	GCM0463-AUG20	9	08/19/2020	08/21/2020	08/26/2020	08/27/2020	09/28/2020	08/27/2020
pH								
Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-001								
MW20-11 SS1	ARD0081-AUG20	8	08/19/2020	08/21/2020	08/24/2020	08/24/2020	09/18/2020	08/24/2020

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Semi-Volatile Organics								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-005								
MW20-11 SS1	GCM5007-AUG20	8	08/19/2020	08/21/2020	08/28/2020	08/28/2020	10/18/2020	08/31/2020
Sodium adsorption ratio (SAR)								
Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-[ENV]ARD-LAK-AN-021								
MW20-11 SS1	ESG0083-AUG20	8	08/19/2020	08/21/2020	08/27/2020	08/27/2020	02/15/2021	08/27/2020
Volatile Organics								
Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-[ENV]GC-LAK-AN-004								
MW20-11 SS5	GCM0391-AUG20	9	08/19/2020	08/21/2020	08/24/2020	08/24/2020	09/02/2020	08/26/2020
Water Soluble Boron								
Method: O.Reg. 15 3/04 | Internal ref.: ME-CA-[ENV] SPE-LAK-AN-003								
MW20-11 SS1	ESG0079-AUG20	8	08/19/2020	08/21/2020	08/27/2020	08/27/2020	02/15/2021	08/27/2020

QC SUMMARY

Conductivity

Method: EPA 6010/SM 2510 | Internal ref.: ME-CA-IENVIEWL-LAK-AN-006

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Conductivity	EWL0377-AUG20	mS/cm	0.002	<0.002	0	10	99	90	110	NA		

Cyanide by SFA

Method: SM 4500 | Internal ref.: ME-CA-IENVISFA-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Free Cyanide	SKA5087-AUG20	µg/g	0.05	<0.05	ND	20	96	80	120	96	75	125

Hexavalent Chromium by SFA

Method: EPA218.6/EPA3060A | Internal ref.: ME-CA-IENVISKA-LAK-AN-012

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Chromium VI	SKA5086-AUG20	ug/g	0.2	<0.2	ND	20	91	80	120	81	75	125

QC SUMMARY

Mercury by CVAAS

Method: EPA 7471A/EPA 245 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Mercury	EMS0170-AUG20	µg/g	0.05	<0.05	ND	20	102	80	120	94	70	130
Mercury	EMS0177-AUG20	µg/g	0.05	<0.05	ND	20	107	80	120	90	70	130

Metals in aqueous samples - ICP-OES

Method: MOE 4696e01/EPA 6010 | Internal ref.: ME-CA-[ENV]SPE-LAK-AN-003

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
SAR Calcium	ESG0083-AUG20	mg/L	0.09	<0.09	7	20	105	80	120	104	70	130
SAR Magnesium	ESG0083-AUG20	mg/L	0.02	<0.02	ND	20	103	80	120	107	70	130
SAR Sodium	ESG0083-AUG20	mg/L	0.15	<0.15	7	20	104	80	120	110	70	130

QC SUMMARY

Metals in Soil - Aqua-regia/ICP-MS

Method: EPA 3050/EPA 200.8 | Internal ref.: ME-CA-[ENVISPE-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Silver	EMS0170-AUG20	ug/g	0.05	<0.05	ND	20	101	70	130	117	70	130
Arsenic	EMS0170-AUG20	µg/g	0.5	<0.5	2	20	104	70	130	104	70	130
Barium	EMS0170-AUG20	ug/g	0.1	<0.1	4	20	105	70	130	104	70	130
Beryllium	EMS0170-AUG20	µg/g	0.02	<0.02	5	20	103	70	130	102	70	130
Boron	EMS0170-AUG20	µg/g	1	<1	5	20	99	70	130	91	70	130
Cadmium	EMS0170-AUG20	µg/g	0.02	<0.02	2	20	92	70	130	113	70	130
Cobalt	EMS0170-AUG20	µg/g	0.01	<0.01	6	20	100	70	130	123	70	130
Chromium	EMS0170-AUG20	µg/g	0.5	<0.5	4	20	100	70	130	110	70	130
Copper	EMS0170-AUG20	µg/g	0.1	<0.1	3	20	103	70	130	123	70	130
Molybdenum	EMS0170-AUG20	µg/g	0.1	<0.1	2	20	93	70	130	123	70	130
Nickel	EMS0170-AUG20	ug/g	0.5	<0.5	5	20	98	70	130	122	70	130
Lead	EMS0170-AUG20	µg/g	0.1	<0.1	2	20	105	70	130	105	70	130
Antimony	EMS0170-AUG20	µg/g	0.8	<0.8	ND	20	108	70	130	123	70	130
Selenium	EMS0170-AUG20	µg/g	0.7	<0.7	ND	20	107	70	130	111	70	130
Thallium	EMS0170-AUG20	µg/g	0.02	<0.02	8	20	110	70	130	114	70	130
Uranium	EMS0170-AUG20	µg/g	0.002	<0.002	1	20	103	70	130	97	70	130
Vanadium	EMS0170-AUG20	µg/g	3	<3	7	20	101	70	130	104	70	130
Zinc	EMS0170-AUG20	µg/g	0.7	<0.7	4	20	97	70	130	109	70	130
Silver	EMS0177-AUG20	ug/g	0.05	<0.05	ND	20	93	70	130	99	70	130
Arsenic	EMS0177-AUG20	µg/g	0.5	<0.5	11	20	97	70	130	101	70	130

QC SUMMARY

Metals in Soil - Aqua-regia/ICP-MS (continued)

Method: EPA 3050/EPA 200.8 | Internal ref.: ME-CA-[ENVISPE-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Barium	EMS0177-AUG20	ug/g	0.1	<0.1	14	20	105	70	130	98	70	130
Beryllium	EMS0177-AUG20	µg/g	0.02	<0.02	ND	20	101	70	130	98	70	130
Boron	EMS0177-AUG20	µg/g	1	<1	9	20	99	70	130	89	70	130
Cadmium	EMS0177-AUG20	µg/g	0.02	<0.02	ND	20	104	70	130	117	70	130
Cobalt	EMS0177-AUG20	µg/g	0.01	<0.01	16	20	97	70	130	113	70	130
Chromium	EMS0177-AUG20	µg/g	0.5	<0.5	9	20	95	70	130	103	70	130
Copper	EMS0177-AUG20	µg/g	0.1	<0.1	6	20	104	70	130	119	70	130
Molybdenum	EMS0177-AUG20	µg/g	0.1	<0.1	16	20	94	70	130	98	70	130
Nickel	EMS0177-AUG20	ug/g	0.5	<0.5	1	20	102	70	130	119	70	130
Lead	EMS0177-AUG20	µg/g	0.1	<0.1	ND	20	106	70	130	107	70	130
Antimony	EMS0177-AUG20	µg/g	0.8	<0.8	ND	20	101	70	130	121	70	130
Selenium	EMS0177-AUG20	µg/g	0.7	<0.7	ND	20	97	70	130	103	70	130
Thallium	EMS0177-AUG20	µg/g	0.02	<0.02	ND	20	105	70	130	110	70	130
Uranium	EMS0177-AUG20	µg/g	0.002	<0.002	7	20	106	70	130	110	70	130
Vanadium	EMS0177-AUG20	µg/g	3	<3	ND	20	98	70	130	103	70	130
Zinc	EMS0177-AUG20	µg/g	0.7	<0.7	ND	20	100	70	130	111	70	130

QC SUMMARY

Pesticides

Method: EPA 3541/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-018

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Aldrin	GCM0388-AUG20	µg/g	0.05	< 0.05	ND	40	88	50	140	97	50	140
alpha-Chlordane	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	87	50	140	98	50	140
Dieldrin	GCM0388-AUG20	µg/g	0.05	< 0.05	ND	40	87	50	140	100	50	140
Endosulfan I	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	86	50	140	98	50	140
Endosulfan II	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	87	50	140	91	50	140
Endrin	GCM0388-AUG20	µg/g	0.04	< 0.04	ND	40	87	50	140	110	50	140
gamma-BHC	GCM0388-AUG20	µg/g	0.01	< 0.01	ND	40	89	50	140	94	50	140
gamma-Chlordane	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	87	50	140	98	50	140
Heptachlor epoxide	GCM0388-AUG20	µg/g	0.01	< 0.01	ND	40	87	50	140	98	50	140
Heptachlor	GCM0388-AUG20	µg/g	0.01	< 0.01	ND	40	85	50	140	96	50	140
Hexachlorobenzene	GCM0388-AUG20	µg/g	0.01	< 0.01	ND	40	89	50	140	93	50	140
Hexachlorobutadiene	GCM0388-AUG20	µg/g	0.01	< 0.01	ND	40	89	50	140	93	50	140
Hexachloroethane	GCM0388-AUG20	µg/g	0.01	< 0.01	ND	40	87	50	140	91	50	140
Methoxychlor	GCM0388-AUG20	µg/g	0.05	< 0.05	ND	40	88	50	140	102	50	140
o,p-DDD	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	85	50	140	106	50	140
o,p-DDE	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	89	50	140	101	50	140
op-DDT	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	83	50	140	89	50	140
pp-DDD	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	82	50	140	113	50	140
pp-DDE	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	89	50	140	100	50	140
pp-DDT	GCM0388-AUG20	µg/g	0.02	< 0.02	ND	40	86	50	140	89	50	140

QC SUMMARY

Petroleum Hydrocarbons (F1)

Method: CCME Tier 1 I Internal ref.: ME-CA-IENVIGC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F1 (C6-C10)	GCM0392-AUG20	µg/g	10	<10	ND	30	94	80	120	91	60	140

Petroleum Hydrocarbons (F2-F4)

Method: CCME Tier 1 I Internal ref.: ME-CA-IENVIGC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F2 (C10-C16)	GCM0463-AUG20	µg/g	10	<10	ND	30	118	80	120	105	60	140
F3 (C16-C34)	GCM0463-AUG20	µg/g	50	<50	ND	30	118	80	120	105	60	140
F4 (C34-C50)	GCM0463-AUG20	µg/g	50	<50	ND	30	118	80	120	105	60	140

QC SUMMARY

pH

Method: SM 4500 | Internal ref.: ME-CA-[ENV]EWL-LAK-AN-001

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
pH	ARD0081-AUG20	pH Units	0.05		0	20	100	80	120			

QC SUMMARY

Semi-Volatile Organics

Method: EPA 3541/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-005

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
1-Methylnaphthalene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	83	50	140	92	50	140
2-Methylnaphthalene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	79	50	140	89	50	140
Acenaphthene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	91	50	140	91	50	140
Acenaphthylene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	88	50	140	91	50	140
Anthracene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	87	50	140	88	50	140
Benzo(a)anthracene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	88	50	140	92	50	140
Benzo(a)pyrene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	90	50	140	90	50	140
Benzo(b+j)fluoranthene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	88	50	140	92	50	140
Benzo(ghi)perylene	GCM5007-AUG20	µg/g	0.1	< 0.1	ND	40	88	50	140	90	50	140
Benzo(k)fluoranthene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	82	50	140	87	50	140
Chrysene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	87	50	140	89	50	140
Dibenzo(a,h)anthracene	GCM5007-AUG20	µg/g	0.06	< 0.06	ND	40	87	50	140	91	50	140
Fluoranthene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	91	50	140	92	50	140
Fluorene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	88	50	140	87	50	140
Indeno(1,2,3-cd)pyrene	GCM5007-AUG20	µg/g	0.1	< 0.1	ND	40	86	50	140	90	50	140
Naphthalene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	87	50	140	89	50	140
Phenanthrene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	89	50	140	90	50	140
Pyrene	GCM5007-AUG20	µg/g	0.05	< 0.05	ND	40	93	50	140	95	50	140

QC SUMMARY

Volatile Organics

Method: EPA 5035A/5030B/8260C | Internal ref.: ME-CA-IENVIGC-LAK-AN-004

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Benzene	GCM0391-AUG20	µg/g	0.02	< 0.02	ND	50	89	60	130	94	50	140
Ethylbenzene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	95	50	140
m/p-xylene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	94	50	140
o-xylene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	95	50	140
Toluene	GCM0391-AUG20	µg/g	0.05	< 0.05	ND	50	90	60	130	94	50	140

Water Soluble Boron

Method: O.Reg. 15 3/04 | Internal ref.: ME-CA-IENVI SPE-LAK-AN-003

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Water Soluble Boron	ESG0079-AUG20	µg/g	0.5	<0.5	ND	20	101	80	120	110	70	130

QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS	Insufficient sample for analysis.
RL	Reporting Limit.
↑	Reporting limit raised.
↓	Reporting limit lowered.
NA	The sample was not analysed for this analyte
ND	Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. “Temperature Upon Receipt” is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

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-- End of Analytical Report --

Request for Laboratory Services and CHAIN OF CUSTODY

SGS Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No:

Laboratory Information Section - Lab use only

Received By: K Deltesta
Received Date: 08.20.20 (mm/dd/yy)
Received Time: 17:45 (hr : min)
Received By (signature): K Deltesta
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: Ice
Temperature Upon Receipt (°C) 9.9.9
LAB LIMS #: CA 14598 - AUG 20

REPORT INFORMATION	INVOICE INFORMATION
Company: DS Consultants	☐ (same as Report Information)
Contact: Kirstin Olsen	Company: DS Consultants
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8	Contact: Paviola Derveni
Phone: 437 928 2794	Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
Fax:	Phone: 905 264 9393
Email: kirstin.olsen@dsconsultants.ca	Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID: Bronte Road

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)
TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☑ Res/Park ☐ Table 2 ☐ Ind/Com ☐ Table 3 ☐ Agri/Other ☐ Table ____ Soil Texture: ☑ Coarse ☐ Medium/Fine

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	Metals & Inorganics (incl CrVI, CN, Hg pH, (B(HWS), EC, SAR-soil) (Cl, Na-water)	Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	ICP Metals only Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,Se,Ag,Tl,U,V,Zn	PAHs only	SVOCs all incl PAHs, ABNs, CPs	PCBs Total ☐ Aroclor ☐	F1-F4 + BTEX	F1-F4 only no BTEX	VOCs all incl BTEX	BTEX only	Pesticides Organochlorine or specify other	Other (please specify)					Sewer Use: Specify pkg:	Water Characterization Pkg General ☐ Extended ☐	TCLP Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	MW20-11 SS1	Aug 19-2020	AM	3	SOIL		✓			✓							✓									
2	MW20-11 SS5	Aug 19-2020	AM	3	SOIL								✓													
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

Observations/Comments/Special Instructions

Sampled By (NAME): Meysam Jafari Signature: Date: ____/____/____ (mm/dd/yy)
Relinquished by (NAME): Signature: Date: ____/____/____ (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.3
Date of Issue: 13 Oct, 2019

Note: Submission of samples to SGS is acknowledgement that you have been provided direction on sample collection/handling and transportation of samples. (2) Submission of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g. shipping documents). (3) Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

FINAL REPORT

CA14749-AUG20 R

20-186-100, Bronte Road

Prepared for

DS Consultants

FINAL REPORT

CA14749-AUG20 R

First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	DS Consultants	Project Specialist	Jill Campbell, B.Sc.,GISAS
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16 Vaughan, Ontario L4H 0K8. Canada	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Kirstin Olsen	Telephone	2165
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	jill.campbell@sgs.com
Email	kirstin.olsen@dsconsultants.ca	SGS Reference	CA14749-AUG20
Project	20-186-100, Bronte Road	Received	08/25/2020
Order Number		Approved	08/27/2020
Samples	soil (3)	Report Number	CA14749-AUG20 R
		Date Reported	08/27/2020

COMMENTS

CCME Method Compliance: Analyses were conducted using analytical procedures that comply with the Reference Method for the CWS for Petroleum Hydrocarbons in Soil and have been validated for use at the SGS laboratory, Lakefield, ON site.

Quality Compliance: Instrument performance / calibration quality criteria were met and extraction and analysis limits for holding times were met.

nC6 and nC10 response factors within 30% of response factor for toluene: YES

nC10, nC16 and nC34 response factors within 10% of the average response for the three compounds: YES

C50 response factors within 70% of nC10 + nC16 + nC34 average: YES

Linearity is within 15%: YES

F4G - gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
The results for F4 and F4G are both reported and the greater of the two values is to be used in application to the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

Benzo(b)fluoranthene results for comparison to the standard are reported as benzo(b+j)fluoranthene. Benzo(b)fluoranthene and benzo(j)fluoranthene co-elute and cannot be reported individually by the analytical method used.

Temperature of Sample upon Receipt: 5 degrees C
Cooling Agent Present:Yes
Custody Seal Present:No

Chain of Custody Number:N/A

SIGNATORIES

Jill Campbell, B.Sc.,GISAS

Jill Campbell

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FINAL REPORT

CA14749-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED
L2 = REG153 / SOIL / FINE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

				Sample Number	8	9	10
				Sample Name	MW20-3 SS2	BH20-4 SS2	MW20-5 SS2
				Sample Matrix	soil	soil	soil
				Sample Date	17/08/2020	17/08/2020	17/08/2020
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**
Metals and Inorganics							
Moisture Content	%	-			6.3	9.1	15.1

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED
L2 = REG153 / SOIL / FINE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

				Sample Number	8	9	10
				Sample Name	MW20-3 SS2	BH20-4 SS2	MW20-5 SS2
				Sample Matrix	soil	soil	soil
				Sample Date	17/08/2020	17/08/2020	17/08/2020
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs)							
Aldrin	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05
alpha-Chlordane	µg/g	0.02			< 0.02	< 0.02	< 0.02
gamma-Chlordane	µg/g	0.02			< 0.02	< 0.02	< 0.02
Chlordane (total)	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05
o,p-DDD	µg/g	0.02			< 0.02	< 0.02	< 0.02
pp-DDD	µg/g	0.02			< 0.02	< 0.02	< 0.02
DDD (total)	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05
o,p-DDE	µg/g	0.02			< 0.02	< 0.02	< 0.02
pp-DDE	µg/g	0.02			< 0.02	< 0.02	< 0.02
DDE (total)	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05
op-DDT	µg/g	0.02			< 0.02	< 0.02	< 0.02
pp-DDT	µg/g	0.02			< 0.02	< 0.02	< 0.02
DDT (total)	µg/g	0.05	1.4	1.4	< 0.05	< 0.05	< 0.05
Dieldrin	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05

FINAL REPORT

CA14749-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - Organochlorine Pests (OCs)** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

				Sample Number	8	9	10
				Sample Name	MW20-3 SS2	BH20-4 SS2	MW20-5 SS2
				Sample Matrix	soil	soil	soil
				Sample Date	17/08/2020	17/08/2020	17/08/2020
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**
Organochlorine Pests (OCs) (continued)							
gamma-BHC	µg/g	0.01	0.01	0.01	< 0.01	< 0.01	< 0.01
Endosulfan I	µg/g	0.02			< 0.02	< 0.02	< 0.02
Endosulfan II	µg/g	0.02			< 0.02	< 0.02	< 0.02
Endosulfan (total)	µg/g	0.04	0.04	0.04	< 0.04	< 0.04	< 0.04
Endrin	µg/g	0.04	0.04	0.04	< 0.04	< 0.04	< 0.04
Heptachlor	µg/g	0.01	0.05	0.05	< 0.01	< 0.01	< 0.01
Heptachlor epoxide	µg/g	0.01	0.05	0.05	< 0.01	< 0.01	< 0.01
Hexachlorobenzene	µg/g	0.01	0.01	0.01	< 0.01	< 0.01	< 0.01
Hexachlorobutadiene	µg/g	0.01	0.01	0.01	< 0.01	< 0.01	< 0.01
Hexachloroethane	µg/g	0.01	0.01	0.01	< 0.01	< 0.01	< 0.01
Methoxychlor	µg/g	0.05	0.05	0.05	< 0.05	< 0.05	< 0.05

FINAL REPORT

CA14749-AUG20 R

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Meysam Jafari

PACKAGE: **REG153 - Pesticides Surrogate** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED
L2 = REG153 / SOIL / FINE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

				Sample Number	8	9	10
				Sample Name	MW20-3 SS2	BH20-4 SS2	MW20-5 SS2
				Sample Matrix	soil	soil	soil
				Sample Date	17/08/2020	17/08/2020	17/08/2020
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**
Pesticides Surrogate							
Surr Decachlorobiphenyl	Surr Rec %	-			93	92	90

PACKAGE: **REG153 - VOC Surrogates** (SOIL)

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED
L2 = REG153 / SOIL / FINE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

				Sample Number	8	9	10
				Sample Name	MW20-3 SS2	BH20-4 SS2	MW20-5 SS2
				Sample Matrix	soil	soil	soil
				Sample Date	17/08/2020	17/08/2020	17/08/2020
Parameter	**Units**	**RL**	**L1**	**L2**	**Result**	**Result**	**Result**
VOC Surrogates							
Surr TCMX	Surr Rec %	-			89	83	74

EXCEEDANCE SUMMARY

No exceedances are present above the regulatory limit(s) indicated

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Moisture								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-3 SS2	GCM0455-AUG20	8	08/17/2020	08/25/2020	08/26/2020	08/27/2020	10/16/2020	08/27/2020
BH20-4 SS2	GCM0455-AUG20	9	08/17/2020	08/25/2020	08/26/2020	08/27/2020	10/16/2020	08/27/2020
MW20-5 SS2	GCM0455-AUG20	10	08/17/2020	08/25/2020	08/26/2020	08/27/2020	10/16/2020	08/27/2020
Pesticides								
Method: EPA 3541/8270D | Internal ref.: ME-CA-[ENV]GC-LAK-AN-018								
MW20-3 SS2	GCM0439-AUG20	8	08/17/2020	08/25/2020	08/26/2020	08/26/2020	09/26/2020	08/27/2020
BH20-4 SS2	GCM0439-AUG20	9	08/17/2020	08/25/2020	08/26/2020	08/26/2020	09/26/2020	08/27/2020
MW20-5 SS2	GCM0439-AUG20	10	08/17/2020	08/25/2020	08/26/2020	08/26/2020	09/26/2020	08/27/2020

QC SUMMARY

Pesticides

Method: EPA 3541/8270D | Internal ref.: ME-CA-IENVIGC-LAK-AN-018

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
Aldrin	GCM0439-AUG20	µg/g	0.05	< 0.05	ND	40	87	50	140	84	50	140
alpha-Chlordane	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	86	50	140	82	50	140
Dieldrin	GCM0439-AUG20	µg/g	0.05	< 0.05	ND	40	88	50	140	83	50	140
Endosulfan I	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	88	50	140	84	50	140
Endosulfan II	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	83	50	140	81	50	140
Endrin	GCM0439-AUG20	µg/g	0.04	< 0.04	ND	40	87	50	140	85	50	140
gamma-BHC	GCM0439-AUG20	µg/g	0.01	< 0.01	ND	40	88	50	140	83	50	140
gamma-Chlordane	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	85	50	140	82	50	140
Heptachlor epoxide	GCM0439-AUG20	µg/g	0.01	< 0.01	ND	40	86	50	140	83	50	140
Heptachlor	GCM0439-AUG20	µg/g	0.01	< 0.01	ND	40	85	50	140	81	50	140
Hexachlorobenzene	GCM0439-AUG20	µg/g	0.01	< 0.01	ND	40	86	50	140	83	50	140
Hexachlorobutadiene	GCM0439-AUG20	µg/g	0.01	< 0.01	ND	40	78	50	140	77	50	140
Hexachloroethane	GCM0439-AUG20	µg/g	0.01	< 0.01	ND	40	71	50	140	68	50	140
Methoxychlor	GCM0439-AUG20	µg/g	0.05	< 0.05	ND	40	93	50	140	94	50	140
o,p-DDD	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	84	50	140	81	50	140
o,p-DDE	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	89	50	140	86	50	140
op-DDT	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	83	50	140	82	50	140
pp-DDD	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	81	50	140	79	50	140
pp-DDE	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	88	50	140	87	50	140
pp-DDT	GCM0439-AUG20	µg/g	0.02	< 0.02	ND	40	92	50	140	91	50	140

QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS	Insufficient sample for analysis.
RL	Reporting Limit.
↑	Reporting limit raised.
↓	Reporting limit lowered.
NA	The sample was not analysed for this analyte
ND	Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. “Temperature Upon Receipt” is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

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-- End of Analytical Report --

Request for Laboratory Services and CHAIN OF CUSTODY

SGS Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No:

Laboratory Information Section - Lab use only

Received By: Kim Sheard
Received Date: 08.25.20 (mm/dd/yy)
Received Time: 16:30 (hr : min)
Received By (signature):
Custody Seal Present: Yes ☐ No ☑
Custody Seal Intact: Yes ☐ No ☑
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C) 5.5.5
LAB LIMS #: CA 14749-AUG20

REPORT INFORMATION	INVOICE INFORMATION
Company: DS Consultants	☐ (same as Report Information)
Contact: Kirstin Olsen	Company: DS Consultants
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8	Contact: Paviola Derveni
Phone: 437 928 2794	Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
Fax:	Phone: 905 264 9393
Email: kirstin.olsen@dsconsultants.ca	Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID: Bronte Road

TURNAROUND TIME (TAT) REQUIRED

☐ Regular TAT (5-7days)

TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date: EOD August 27

NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☐ Table 2 ☐ Table 3 ☐ Table ____ ☑ Res/Park ☐ Ind/Com ☐ Agri/Other Soil Texture: ☑ Coarse ☑ Medium/Fine

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	Metals & Inorganics (incl CrVI, CN, Hg pH, (B(HWS), EC, SAR-soil) (Cl, Na-water)	Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	ICP Metals only (Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, U, V, Zn	PAHs only	SVOCs (all incl PAHs, ABNs, CPs	PCBs Total ☐ Aroclor ☐	F1-F4 + BTEX	F1-F4 only (no BTEX	VOCs (all incl BTEX	BTEX only	Pesticides (Organochlorine or specify other	Other (please specify)					Sewer Use: (Specify pkg:	Water Characterization Pkg ☐ General ☐ Extended	TCLP (Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	MW20-3 SS2	August 17, 2020	11.05	1	Soil												✓									
2	BH20-4 SS2	August 17, 2020	11.20	1	Soil												✓									
3	MW20-5 SS2	August 17, 2020	11.50	1	Soil												✓									
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

Observations/Comments/Special Instructions

Sampled By (NAME): Maysam Jafari Signature: Date: 8/25/2020 (mm/dd/yy)
Relinquished by (NAME): Maysam Jafari Signature: Date: 8/25/2020 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.3
Date of Issue: 13 Oct, 2019

Note: Submission of samples to SGS is acknowledgement that you have been provided direction on sample collection/handling and transportation of samples. (2) Submission of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g. shipping documents). (3) Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

FINAL REPORT

CA14762-AUG20 R1

20-186-100, Bronte Road

Prepared for

DS Consultants

FINAL REPORT

CA14762-AUG20 R1

First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	DS Consultants	Project Specialist	Jill Campbell, B.Sc.,GISAS
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16, Vaughan Canada, L4H 0K8 Phone: 905-264-9393. Fax:905-264-2685	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Kirstin Olsen	Telephone	2165
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	jill.campbell@sgs.com
Email	kirstin.olsen@dsconsultants.ca	SGS Reference	CA14762-AUG20
Project	20-186-100, Bronte Road	Received	08/26/2020
Order Number		Approved	08/28/2020
Samples	soil (1)	Report Number	CA14762-AUG20 R1
		Date Reported	08/28/2020

COMMENTS

CCME Method Compliance: Analyses were conducted using analytical procedures that comply with the Reference Method for the CWS for Petroleum Hydrocarbons in Soil and have been validated for use at the SGS laboratory, Lakefield, ON site.

Quality Compliance: Instrument performance / calibration quality criteria were met and extraction and analysis limits for holding times were met.

nC6 and nC10 response factors within 30% of response factor for toluene: YES

nC10, nC16 and nC34 response factors within 10% of the average response for the three compounds: YES

C50 response factors within 70% of nC10 + nC16 + nC34 average: YES

Linearity is within 15%: YES

F4G - gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
The results for F4 and F4G are both reported and the greater of the two values is to be used in application to the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

Benzo(b)fluoranthene results for comparison to the standard are reported as benzo(b+j)fluoranthene. Benzo(b)fluoranthene and benzo(j)fluoranthene co-elute and cannot be reported individually by the analytical method used.

Temperature of Sample upon Receipt: 7 degrees C
Cooling Agent Present:Yes
Custody Seal Present:Yes

Chain of Custody Number:N/A

SIGNATORIES

Jill Campbell, B.Sc.,GISAS

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FINAL REPORT

CA14762-AUG20 R1

Client: DS Consultants
Project: 20-186-100, Bronte Road
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

Sample Number	8
Sample Name	MW20-8 SS8
Sample Matrix	soil

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Parameter	Units	RL	L1	Result
Metals and Inorganics				
Moisture Content	%	0.1		6.8

PACKAGE: **REG153 - PHCs** (SOIL)

Sample Number	8
Sample Name	MW20-8 SS8
Sample Matrix	soil

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Parameter	Units	RL	L1	Result
PHCs				
F1 (C6-C10)	µg/g	10	25	< 10
F1-BTEX (C6-C10)	µg/g	10		< 10
F2 (C10-C16)	µg/g	10	10	< 10
F3 (C16-C34)	µg/g	50	240	< 50
F4 (C34-C50)	µg/g	50	120	< 50
Chromatogram returned to baseline at nC50	Yes / No	-		YES

EXCEEDANCE SUMMARY

No exceedances are present above the regulatory limit(s) indicated

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Moisture								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-8 SS8	GCM0472-AUG20	8		08/26/2020	08/27/2020	08/27/2020		08/27/2020
Petroleum Hydrocarbons (F1)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-8 SS8	GCM0478-AUG20	8		08/26/2020	08/27/2020	08/27/2020		08/27/2020
Petroleum Hydrocarbons (F2-F4)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-8 SS8	GCM0484-AUG20	8		08/26/2020	08/27/2020	08/27/2020		08/28/2020

QC SUMMARY

Petroleum Hydrocarbons (F1)

Method: CCME Tier 1 I Internal ref.: ME-CA-IENVIGC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F1 (C6-C10)	GCM0478-AUG20	µg/g	10	<10	ND	30	88	80	120	86	60	140

Petroleum Hydrocarbons (F2-F4)

Method: CCME Tier 1 I Internal ref.: ME-CA-IENVIGC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F2 (C10-C16)	GCM0484-AUG20	µg/g	10	<10	ND	30	112	80	120	105	60	140
F3 (C16-C34)	GCM0484-AUG20	µg/g	50	<50	ND	30	112	80	120	105	60	140
F4 (C34-C50)	GCM0484-AUG20	µg/g	50	<50	ND	30	112	80	120	105	60	140

QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS	Insufficient sample for analysis.
RL	Reporting Limit.
↑	Reporting limit raised.
↓	Reporting limit lowered.
NA	The sample was not analysed for this analyte
ND	Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. “Temperature Upon Receipt” is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

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-- End of Analytical Report --

Request for Laboratory Services and CHAIN OF CUSTODY

SGS Environment, Health & Safety

- Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No:

Laboratory Information Section - Lab use only

Received By: Kim Sheard
Received Date: 08/17/20 (mm/dd/yy)
Received Time: 15:00 (hr : min)
Received By (signature):
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C): 7.7.7
LAB LIMS #: CA-14406-Aug20

ON Hold - CA14762-Aug20

REPORT INFORMATION	INVOICE INFORMATION
Company: DS Consultants	☐ (same as Report Information)
Contact: Kirstin Olsen	Company: DS Consultants
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8	Contact: Paviola Derveni
	Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
Phone: 437 928 2794	Phone: 905 264 9393
Fax:	
Email: kirstin.olsen@dsconsultants.ca	Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID: Bronte Road

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)

TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☑ Res/Park ☐ Table 2 ☐ Ind/Com ☐ Table 3 ☐ Agri/Other ☐ Table ____ Soil Texture: ☑ Coarse ☑ Medium/Fine

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	M&I: Metals & Inorganics (incl CrVI, CN, Hg, pH (B(HWS), EC, SAR-soil) (CL Nanaimo)	M&I: Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	M&I: ICP Metals only Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, U, V, Zn	SVOC: PAHs only	SVOCs all incl PAHs, ABNs, CPs	PCB: PCBs Total ☐ Aroclor ☐	PHC: F1-F4 + BTEX	PHC: F1-F4 only no BTEX	VOC: VOCs all incl BTEX	VOC: BTEX only	Pest: Pesticides Organochlorine or specify other	Other (please specify): Sewer Use: Specify pkg:	Water Characterization Pkg ☐ General ☐ Extended	TCLP Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ gnlt	COMMENTS:
1	MW20-1 SS1	Aug 17, 2020	10:00	1	Soil		✓														
2	MW20-1 SS3	Aug 13/17, 2020	3:45/10:15	4	Soil					✓			✓								
3	MW20-1 SS4	August 13, 2020	4:00	3	Soil										✓						
4	MW20-1 SS6	Aug 13, 2020	4:10	3	Soil																HOLD FOR VOCS
5	MW20-2 SS1	Aug 17, 2020	10:30	2	Soil		✓										✓				
6	MW20-2 SS3	Aug 13/17, 2020	4:20/10:45	4	Soil					✓			✓								
7	MW20-2 SS4	Aug 13, 2020	4:30	3	Soil																HOLD FOR PHCS
8	MW20-2 SS7	Aug 13, 2020	4:45	3	Soil										✓						
9	MW20-3 SS1	Aug 17, 2020	11:00	2	Soil			✓									✓				
10	BH20-4 SS1	Aug 17, 2020	11:15	2	Soil			✓									✓				
11	MW20-5 SS1	Aug 17, 2020	11:30	2	Soil			✓									✓				
12	MW20-5 SS3	Aug 14/17, 2020	3:00/11:45	3	Soil								✓								

Observations/Comments/Special Instructions

Sampled By (NAME): Ardan Doak Signature: Date: 08/17/20 (mm/dd/yy)
Relinquished by (NAME): Ardan Doak Signature: Date: 08/17/20 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision # 1.3
Date of Issue: 13 Oct, 2019

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- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No:

Laboratory Information Section - Lab use only

Received By: Kim Sheard
Received Date: 08/17/20 (mm/dd/yy)
Received Time: 15:00 (hr : min)
Received By (signature): [signature]
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C): 7.7.7
LAB LIMS #: CA-14406-Aug20

REPORT INFORMATION	INVOICE INFORMATION
Company: DS Consultants	☐ (same as Report Information)
Contact: Kirstin Olsen	Company: DS Consultants
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8	Contact: Paviola Derveni
	Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
Phone: 437 928 2794	Phone: 905 264 9393
Fax:	
Email: kirstin.olsen@dsconsultants.ca	Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID: Bronte Road

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)

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PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☑ Res/Park ☐ Table 2 ☐ Ind/Com ☐ Table 3 ☐ Agri/Other ☐ Table ____ Soil Texture: ☑ Coarse ☑ Medium/Fine

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	Metals & Inorganics (incl CrVI, CN, Hg pH (B(HWS),EC, SAR-soil) (Cl, Nonetallic)	Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	ICP Metals only (Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni,Se,Ag,Tl,U,V,Zn	PAHs only	SVOCs all incl PAHs, ABNs, CPs	PCBs Total ☐ Aroclor ☐	F1-F4 + BTEX	F1-F4 only no BTEX	VOCs all incl BTEX	BTEX only	Pesticides Organochlorine or specify other	Other (please specify)					Sewer Use: Specify pkg:	Water Characterization Pkg General ☐ Extended ☐	TCLP Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	SDUP1	Aug 14/17, 2020	3:00/1200	3	Soil								✓													
2	MW20-5 SS8	Aug 14, 2020	3:10	4	Soil					✓			✓													
3	SDUP2	Aug 14, 2020	3:10	4	Soil					✓			✓													
4	MW20-5 SS9	Aug 14, 2020	3:20	3	Soil																					HOLD FOR PHCS
5	BH20-6 SS1	Aug 17, 2020	12:15	2	Soil			✓									✓									
6	SDUP3	Aug 17, 2020	12:30	1	Soil												✓									
7	BH20-7 SS1	Aug 17, 2020	12:45	2	Soil			✓									✓									
8	SDUP4	Aug 17, 2020	1:00	2	Soil			✓									✓									
9	MW20-8 SS1	Aug 17, 2020	1:15	2	Soil		✓										✓									
10	MW20-8 SS6	Aug 13/17, 2020	3:30/1:30	4	Soil					✓			✓													
11	MW20-8 SS8	Aug 13, 2020	3:40/1:45	3	Soil																					HOLD FOR PHCS
12	BH20-9 SS1	Aug 17, 2020	2:00	2	Soil			✓									✓									

Observations/Comments/Special Instructions

Sampled By (NAME): Audan Doak Signature: [signature] Date: 08/17/20 (mm/dd/yy)
Relinquished by (NAME): Audan Doak Signature: [signature] Date: 08/17/20 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.3
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Laboratory Information Section - Lab use only

Received By: Kim Sheard
Received Date: 08/17/20 (mm/dd/yy)
Received Time: 15:00 (hr : min)
Received By (signature):
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C) 7.2.7
LAB LIMS #: CA-14406-Aug20

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Email: kirstin.olsen@dsconsultants.ca	Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID:

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Specify Due Date:

NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

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Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	Metals & Inorganics (incl CrVI, CN, Hg pH (B/HWS), EC, SAR-soil) (Cl, Naturally)	Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI)	ICP Metals only (Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, U, V, Zn)	PAHs only	SVOCs (all incl PAHs, ABNs, CPs)	PCBs Total ☐ Aroclor ☐	F1-F4 + BTEX	F1-F4 only (no BTEX)	VOCs (all incl BTEX)	BTEX only	Pesticides (Organochlorine or specify other)	Other (please specify)					Sewer Use: (Specify pkg)	Water Characterization Pkg ☐ General ☐ Extended	TCLP (Specify TCLP tests ☐ MAI ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ grvl.)	COMMENTS:
1	MW20-10 SS1	Aug 17, 2020	2:10	2	Soil			✓									✓									
2	SDUP5	Aug 17, 2020	2:20	2	Soil			✓									✓									
3	BH20-12 SS1	Aug 17, 2020	2:30	2	Soil			✓									✓									
4	MW20-13 SS1	Aug 17, 2020	2:40	2	Soil			✓									✓									
5	BH20-14 SS1	Aug 17, 2020	2:50	2	Soil			✓									✓									
6	BH20-6 SS1	Aug 14, 2020	5:00	3	Soil									✓	✓											
7	BH20-12 SS5	Aug 14, 2020	5:10	3	Soil									✓	✓											
8	BH20-13 SS9	Aug 14, 2020	5:20	3	Soil									✓	✓											
9	SDUP6	Aug 17, 2020	2:55	1	Soil			✓																		
10																										
11																										
12																										

Observations/Comments/Special Instructions

Sampled By (NAME): Aidan Doak	Signature:	Date: 08/17/20 (mm/dd/yy)	Pink Copy - Client
Relinquished by (NAME): Aidan Doak	Signature:	Date: 08/17/20 (mm/dd/yy)	Yellow & White Copy - SGS

Revision #: 1.3
Date of Issue: 13 Oct, 2019

Note: Submission of samples to SGS is acknowledgement that you have been provided direction on sample collection/handling and transportation of samples. (2) Submission of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g. shipping documents). (3) Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

FINAL REPORT

CA14765-AUG20 R1

20-186-100

Prepared for

DS Consultants

FINAL REPORT

First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	DS Consultants	Project Specialist	Jill Campbell, B.Sc.,GISAS
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16, Vaughan Canada, L4H 0K8 Phone: 905-264-9393. Fax:905-264-2685	Address	185 Concession St., Lakefield ON, K0L 2H0
Contact	Kirstin Olsen	Telephone	2165
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	jill.campbell@sgs.com
Email	kirstin.olsen@dsconsultants.ca	SGS Reference	CA14765-AUG20
Project	20-186-100	Received	08/26/2020
Order Number		Approved	09/01/2020
Samples	soil (1)	Report Number	CA14765-AUG20 R1
		Date Reported	09/01/2020

COMMENTS

CCME Method Compliance: Analyses were conducted using analytical procedures that comply with the Reference Method for the CWS for Petroleum Hydrocarbons in Soil and have been validated for use at the SGS laboratory, Lakefield, ON site.

Quality Compliance: Instrument performance / calibration quality criteria were met and extraction and analysis limits for holding times were met.

nC6 and nC10 response factors within 30% of response factor for toluene: YES

nC10, nC16 and nC34 response factors within 10% of the average response for the three compounds: YES

C50 response factors within 70% of nC10 + nC16 + nC34 average: YES

Linearity is within 15%: YES

F4G - gravimetric heavy hydrocarbons cannot be added to the C6 to C50 hydrocarbons.
The results for F4 and F4G are both reported and the greater of the two values is to be used in application to the CWS PHC.

Hydrocarbon results are expressed on a dry weight basis.

Benzo(b)fluoranthene results for comparison to the standard are reported as benzo(b+j)fluoranthene. Benzo(b)fluoranthene and benzo(j)fluoranthene co-elute and cannot be reported individually by the analytical method used.

Temperature of Sample upon Receipt: 7 degrees C
Cooling Agent Present:Yes
Custody Seal Present:Yes

Chain of Custody Number:N/A

SIGNATORIES

Jill Campbell, B.Sc.,GISAS

Jill Campbell

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FINAL REPORT

CA14765-AUG20 R1

Client: DS Consultants
Project: 20-186-100
Project Manager: Kirstin Olsen
Samplers: Aidan Doak

PACKAGE: **REG153 - Metals and Inorganics** (SOIL)

Sample Number	8
Sample Name	MW20-8 SS6
Sample Matrix	soil

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Parameter	Units	RL	L1	L2	Result
Metals and Inorganics					
Moisture Content	%	0.1			10.5

PACKAGE: **REG153 - PHCs** (SOIL)

Sample Number	8
Sample Name	MW20-8 SS6
Sample Matrix	soil

L1 = REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

L2 = REG153 / SOIL / FINE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED

Parameter	Units	RL	L1	L2	Result
PHCs					
F2 (C10-C16)	µg/g	10	10	10	11

EXCEEDANCE SUMMARY

Parameter	Method	Units	Result	REG153 / SOIL / COARSE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED L1	REG153 / SOIL / FINE - TABLE 1 - Residential/Parkland/Industrial - UNDEFINED L2
MW20-8 SS6					
F2 (C10 to C16)	CCME Tier 1	µg/g	11	10	10

HOLDING TIME SUMMARY

Sample Name	QC Batch Reference	Sample Number	Sampled	Received	Extracted/ Prepared	Analysed	Holding Time	Approved
Moisture								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-8 SS6	GCM0472-AUG20	8		08/26/2020	08/27/2020	08/27/2020		08/27/2020
Petroleum Hydrocarbons (F2-F4)								
Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010								
MW20-8 SS6	GCM0484-AUG20	8		08/26/2020	08/27/2020	08/27/2020		08/28/2020

QC SUMMARY

Petroleum Hydrocarbons (F2-F4)

Method: CCME Tier 1 | Internal ref.: ME-CA-[ENV]GC-LAK-AN-010

Parameter	QC batch Reference	Units	RL	Method Blank	Duplicate		LCS/Spike Blank			Matrix Spike / Ref.		
					RPD	AC (%)	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
								Low	High		Low	High
F2 (C10-C16)	GCM0484-AUG20	µg/g	10	<10	ND	30	112	80	120	105	60	140

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL.

Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

LEGEND

FOOTNOTES

NSS	Insufficient sample for analysis.
RL	Reporting Limit.
↑	Reporting limit raised.
↓	Reporting limit lowered.
NA	The sample was not analysed for this analyte
ND	Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. “Temperature Upon Receipt” is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

This report must not be reproduced, except in full. This report supersedes all previous versions.

-- End of Analytical Report --

Request for Laboratory Services and CHAIN OF CUSTODY

SGS Environment, Health & Safety - Lakefield: 185 Concession St., Lakefield, ON K0L 2H0 Phone: 705-652-2000 Fax: 705-652-6365 Web: www.sgs.com/environment
- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No:

Laboratory Information Section - Lab use only

Received By: Kim Sheard
Received Date: 08/17/20 (mm/dd/yy)
Received Time: 15:00 (hr : min)
Received By (signature): [signature]
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C): 7.7.7
ON hold - CA14765 - Aug 20
LAB LIMS #: CA-14406-Aug20

REPORT INFORMATION	INVOICE INFORMATION
Company: DS Consultants	☐ (same as Report Information)
Contact: Kirstin Olsen	Company: DS Consultants
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8	Contact: Paviola Derveni
	Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
Phone: 437 928 2794	Phone: 905 264 9393
Fax:	
Email: kirstin.olsen@dsconsultants.ca	Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID: Bronte Road

TURNAROUND TIME (TAT) REQUIRED

☑ Regular TAT (5-7days)
TAT's are quoted in business days (exclude statutory holidays & weekends). Samples received after 6pm or on weekends: TAT begins next business day

RUSH TAT (Additional Charges May Apply): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days

PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☑ Res/Park ☐ Table 2 ☐ Ind/Com ☐ Table 3 ☐ Agri/Other ☐ Table ____
Soil Texture: ☑ Coarse ☑ Medium/Fine
Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA
Sewer By-Law: ☐ Sanitary ☐ Storm
Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	Metals & Inorganics (incl CrVI, CN, Hg pH (R)HWS), EC, SAR-soil) (Cl, Na-water)	Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	ICP Metals only Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, U, V, Zn	PAHs only	SVOCs all incl PAHs, ABNs, CPs	PCBs Total ☐ Aroclor ☐	F1-F4 + BTEX	F1-F4 only no BTEX	VOCs all incl BTEX	BTEX only	Pesticides Organochlorine or specify other	Other (please specify)	Sewer Use: Specify pkg:	Water Characterization Pkg General ☐ Extended ☐	TCLP Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	MW20-1 SS1	Aug 17, 2020	10:00	1	Soil		✓															
2	MW20-1 SS3	Aug 13/17, 2020	3:45/10:15	4	Soil					✓			✓									
3	MW20-1 SS4	August 13, 2020	4:00	3	Soil										✓							
4	MW20-1 SS6	Aug 13, 2020	4:10	3	Soil																	HOLD FOR VOCS
5	MW20-2 SS1	Aug 17, 2020	10:30	2	Soil		✓										✓					
6	MW20-2 SS3	Aug 13/17, 2020	4:20/10:45	4	Soil					✓			✓									
7	MW20-2 SS4	Aug 13, 2020	4:30	3	Soil																	HOLD FOR PHCS
8	MW20-2 SS7	Aug 13, 2020	4:45	3	Soil										✓							
9	MW20-3 SS1	Aug 17, 2020	11:00	2	Soil			✓									✓					
10	BH20-4 SS1	Aug 17, 2020	11:15	2	Soil			✓									✓					
11	MW20-5 SS1	Aug 17, 2020	11:30	2	Soil			✓									✓					
12	MW20-5 SS3	Aug 17, 2020	3:00/11:45	3	Soil								✓									

Observations/Comments/Special Instructions

Sampled By (NAME): Ardan Doak Signature: [signature] Date: 08/17/20 (mm/dd/yy)
Relinquished by (NAME): Ardan Doak Signature: [signature] Date: 08/17/20 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision #: 1.3
Date of Issue: 13 Oct, 2019

Note: Submission of samples to SGS is acknowledgement that you have been provided direction on sample collection, handling and transportation of samples. (2) Submission of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g. shipping documents). (3) Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

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- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

No:

Laboratory Information Section - Lab use only

Received By: Kim Sheard
Received Date: 08/17/20 (mm/dd/yy)
Received Time: 15:00 (hr : min)
Received By (signature):
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C): 7.7.7
LAB LIMS #: CA-14406-Aug20

REPORT INFORMATION

Company: DS Consultants
Contact: Kirstin Olsen
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
Phone: 437 928 2794
Fax:
Email: kirstin.olsen@dsconsultants.ca

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☐ (same as Report Information)
Company: DS Consultants
Contact: Paviola Derveni
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
Phone: 905 264 9393
Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID: Bronte Road

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PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:
NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☑ Res/Park ☐ Table 2 ☐ Ind/Com ☐ Table 3 ☐ Agri/Other ☐ Table ____ Soil Texture: ☑ Coarse ☑ Medium/Fine

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	M&I: Metals & Inorganics (incl CrVI, CN,Hg pH,(B)HWS),EC,SAR-soil) (CL, Nonmetals)	M&I: Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	M&I: ICP Metals only Sb,As,Ba,Be,B,Cd,Cr,Co,Cu,Pb,Mo,Ni, Se,Ag,Tl,U,V,Zn	SVOC: PAHs only	SVOC: SVOCs all incl PAHs, ABNs, CPs	PCB: PCBs Total ☐ Aroclor ☐	PHC: F1-F4 + BTEX	PHC: F1-F4 only no BTEX	VOC: VOCs all incl BTEX	VOC: BTEX only	Pest: Pesticides Organochlorine or specify other	Other (please specify): Sewer Use: Specify pkg:	Other: Water Characterization Pkg General ☐ Extended ☐	TCLP: Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	SDUP1	Aug 14/17, 2020	3:00/1200	3	Soil								✓								-
2	MW20-5 SS8	Aug 14, 2020	3:10	4	Soil					✓			✓								
3	SDUP2	Aug 14, 2020	3:10	4	Soil					✓			✓								
4	MW20-5 SS9	Aug 14, 2020	3:20	3	Soil																HOLD FOR PHCS
5	BH20-6 SS1	Aug 17, 2020	12:15	2	Soil			✓									✓				
6	SDUP3	Aug 17, 2020	12:30	1	Soil												✓				
7	BH20-7 SS1	Aug 17, 2020	12:45	2	Soil			✓									✓				
8	SDUP4	Aug 17, 2020	1:00	2	Soil			✓									✓				
9	MW20-8 SS1	Aug 17, 2020	1:15	2	Soil		✓										✓				
10	MW20-8 SS6	Aug 13/17, 2020	3:30/1:30	4	Soil					✓			✓								
11	MW20-8 SS8	Aug 13, 2020	3:40/1:45	3	Soil																HOLD FOR PHCS
12	BH20-9 SS1	Aug 17, 2020	2:00	2	Soil			✓									✓				

Observations/Comments/Special Instructions

Sampled By (NAME): Audan Doak Signature: Date: 08/17/20 (mm/dd/yy)
Relinquished by (NAME): Audan Doak Signature: Date: 08/17/20 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

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- London: 657 Consortium Court, London, ON, N6E 2S8 Phone: 519-672-4500 Toll Free: 877-848-8060 Fax: 519-672-0361

Request for Laboratory Services and CHAIN OF CUSTODY

No:

Laboratory Information Section - Lab use only

Received By: Kim Sheard
Received Date: 08/17/20 (mm/dd/yy)
Received Time: 15:00 (hr:min)
Received By (signature):
Custody Seal Present: Yes ☑ No ☐
Custody Seal Intact: Yes ☑ No ☐
Cooling Agent Present: Yes ☑ No ☐ Type: ice
Temperature Upon Receipt (°C): 7.7.7
LAB LIMS #: CA-14406-Aug20

REPORT INFORMATION	INVOICE INFORMATION
Company: DS Consultants	☐ (same as Report Information)
Contact: Kirstin Olsen	Company: DS Consultants
Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8	Contact: Paviola Derveni
	Address: 6221 Highway 7, Unit 16, Vaughan, ON, L4H 0K8
Phone: 437 928 2794	Phone: 905 264 9393
Fax:	
Email: kirstin.olsen@dsconsultants.ca	Email: accounting@dsconsultants.ca

Quotation #:
P.O. #:
Project #: 20-186-100
Site Location/ID:

TURNAROUND TIME (TAT) REQUIRED

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PLEASE CONFIRM RUSH FEASIBILITY WITH SGS REPRESENTATIVE PRIOR TO SUBMISSION

Specify Due Date:

NOTE: DRINKING (POTABLE) WATER SAMPLES FOR HUMAN CONSUMPTION MUST BE SUBMITTED WITH SGS DRINKING WATER CHAIN OF CUSTODY

REGULATIONS

Regulation 153/04: ☑ Table 1 ☑ Res/Park ☐ Table 2 ☐ Ind/Com ☐ Table 3 ☐ Agri/Other ☐ Table ____ Soil Texture: ☑ Coarse ☑ Medium/Fine

Other Regulations: ☐ Reg 347/558 (3 Day min TAT) ☐ PWQO ☐ MMER ☐ CCME ☐ Other: ☐ MISA

Sewer By-Law: ☐ Sanitary ☐ Storm Municipality:

RECORD OF SITE CONDITION (RSC) ☑ YES ☐ NO

ANALYSIS REQUESTED

	SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	# OF BOTTLES	MATRIX	Field Filtered (Y/N)	Metals & Inorganics (incl CrVI, CN, Hg pH (B/HWS), EC, SAR-soil) (CL Na-water)	Full Metals Suite (ICP metals plus B(HWS-soil only) Hg, CrVI	ICP Metals only Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, U, V, Zn	SVOC: PAHs only	SVOCs all incl PAHs, ABNs, CPs	PCBs ☐ Total ☐ Aroclor	PHC: F1-F4 + BTEX	F1-F4 only no BTEX	VOC: VOCs all incl BTEX	BTEX only	Pest: Pesticides Organochlorine or specify other	Other (please specify)					Sewer Use: Specify pkg.	Water Characterization Pkg ☐ General ☐ Extended	TCLP Specify TCLP tests ☐ M&I ☐ VOC ☐ PCB ☐ B(a)P ☐ ABN ☐ Ignit.	COMMENTS:
1	MW20-10 SS1	Aug 17, 2020	2:10	2	Soil			✓									✓									
2	SDUP5	Aug 17, 2020	2:20	2	Soil			✓									✓									
3	BH20-12 SS1	Aug 17, 2020	2:30	2	Soil			✓									✓									
4	MW20-13 SS1	Aug 17, 2020	2:40	2	Soil			✓									✓									
5	BH20-14 SS1	Aug 17, 2020	2:50	2	Soil			✓									✓									
6	BH20-6 SS1	Aug 14, 2020	5:00	3	Soil									✓	✓											
7	BH20-12 SS5	Aug 14, 2020	5:10	3	Soil									✓	✓											
8	BH20-13 SS9	Aug 14, 2020	5:30	3	Soil									✓	✓											
9	SDUP6	Aug 17, 2020	2:55	1	Soil			✓																		
10																										
11																										
12																										

Observations/Comments/Special Instructions

Sampled By (NAME): Aidan Doak Signature: Date: 08/17/20 (mm/dd/yy)
Relinquished by (NAME): Aidan Doak Signature: Date: 08/17/20 (mm/dd/yy)

Pink Copy - Client
Yellow & White Copy - SGS

Revision # 1.3
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Note: Submission of samples to SGS is acknowledgement that you have been provided direction on sample collection/handling and transportation of samples. (2) Submission of samples to SGS is considered authorization for completion of work. Signatures may appear on this form or be retained on file in the contract, or in an alternative format (e.g. shipping documents). (3) Results may be sent by email to an unlimited number of addresses for no additional cost. Fax is available upon request. This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. (Printed copies are available upon request.) Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Appendix D

AGAT Laboratories

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

Chain of Custody Record

If this is a Drinking Water sample, please use Drinking Water Chain of Custody Form (potable water consumed by humans)

Laboratory Use Only

Work Order #: 20H621910

Cooler Quantity: 1 cooler

Arrival Temperatures: 8.2 | 8.4 | 8.6 | 8.3 | 8 | 8.4

Custody Seal Intact: ☐ Yes ☐ No ☐ N/A

Notes: no ice

Report Information:

Company: SOIL MAT

Contact: Lianne Peter.

Address:

Phone: Fax:

Reports to be sent to:

1. Email: Lianne
2. Email: Peter

Regulatory Requirements: ☐ No Regulatory Requirement

(Please check all applicable boxes)

☒ Regulation 153/04
Table 1 (Indicate One)
☐ Ind/Com
☐ Res/Park
☐ Agriculture

Soil Texture (Check One)
☐ Coarse
☐ Fine

☐ Sewer Use
☐ Sanitary
☐ Storm
Region _____ (Indicate One)
☐ MISA

☐ Regulation 558
☐ CCME
☐ Prov. Water Quality Objectives (PWQO)
☐ Other
_____ (Indicate One)

Is this submission for a **Record of Site Condition?** ☐ Yes ☐ No

Report Guideline on Certificate of Analysis ☐ Yes ☐ No

Turnaround Time (TAT) Required:

Regular TAT ☒ 5 to 7 Business Days

Rush TAT (Rush Surcharges Apply)

☐ 3 Business Days ☐ 2 Business Days ☐ Next Business Day

OR Date Required (Rush Surcharges May Apply):

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

For 'Same Day' analysis, please contact your AGAT CPM

Project Information:

Project: 1856816

Site Location: 1300 Bronte Rd., Oakville

Sampled By: L.C.

AGAT Quote #: PO:

Please note: If quotation number is not provided, client will be billed full price for analysis.

Invoice Information:

Bill To Same: Yes ☐ No ☐

Company:

Contact:

Address:

Email:

Sample Matrix Legend

B	Biota
GW	Ground Water
O	Oil
P	Paint
S	Soil
SD	Sediment
SW	Surface Water

Sample Identification	Date Sampled	Time Sampled	# of Containers	Sample Matrix	Comments/ Special Instructions	Field Filtered - Metals, Hg, CrVI (Y/N)	Metals and Inorganics	O. Reg 153 ☐ All Metals ☐ 153 Metals (excl. Hydrides) ☐ Hydride Metals ☐ 153 Metals (incl. Hydrides)	ORPs: ☐ B-HWS ☐ Cl⁻ ☐ CN⁻ ☐ Cr⁶⁺ ☐ EC ☐ FOC ☐ Hg ☐ pH ☐ SAR	Full Metals Scan	Regulation/Custom Metals	Nutrients: ☐ TP ☐ NH_3 ☐ TKN ☐ NO_3 ☐ NO_2 ☐ NO_3+NO_2	Volatiles: ☐ VOC ☐ BTEX ☐ THM	PHCs F1 - F4	ABNs	PAHs	PCBs: ☐ Total ☐ Aroclors	Organochlorine Pesticides	TCLP: ☐ M&I ☐ VOCs ☐ ABNs ☐ B(a)P ☐ PCBs	Sewer Use	LEAD + ARSENIC					Potentially Hazardous or High Concentration (Y/N)
S11	20/07/07	am		S														X			X						
S12	↓	↓		↓														X			X						
S13							X																				
S14							X																				
S15							X																				
S16							X																				
S17							X																				
S18							X																				
S19																		X			X						
S20																		X			X						

Samples Relinquished By (Print Name and Sign):	Date	Time	Samples Received By (Print Name and Sign):	Date	Time
Lianne Crawford	20/07/07	1:15	Daniella Jaic	July 7/20	1:30pm
Daniella Jaic	July 7/20	3:00pm	John Chygyha	Jul 7	2:50
			John Chygyha	Jul 7	4:15

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